Results, 1995 ARRL January **VHF Sweepstakes**

It was a contest to remember!—Phil. KE8RO

Contest Manager

By Billy Lunt, KR1R and Warren C. Stankiewicz, NF1J Assistant Contest Manager

ust when you thought things couldn't get much better, along came this year's January VHF Sweepstakes. Were you on this year? If so, then you probably know what we're talking about. No, we didn't get any aurora this year (this makes two years in a row without it-perhaps we need to do something about that!). There wasn't a whole lot of Es or tropo to talk about, either. But, Oh! The scores! We saw some finishes this year that are going to be tough to match. It's not every VHF contest when you shatter three overall records and break 20 other division records.

Indeed, there were amazing efforts put in this year. We noticed a lot of great QRP portable scores—there are quite a few operators willing to endure the elements in the name of contesting. And 71 rover stations (up from 66 last year) racked up the frequent-driver miles, proving that it's probably warmer in the car than it is on the mountaintop. At least there were enough of them roving around to keep things interesting. Ken, KP4XS, gave a lot of hams good multipliers to work down through the Delmarva peninsula and into Virginia. We should thank Denise, AJØE; Ron, KAØRYT; Jeff, KE6ILX; Brian, ND3F; and Walt, NQ2O, for their rover efforts. It takes a lot of work to operate from eight or more grids. In areas where the ham population is small (or there are few stations in that grid with microwave gear), rovers quickly become as important to the contester as hot coffee.

Wasn't the band open anywhere? Well, yes and no. It was about the usual for January; a couple of brief glimmers of hope, followed by long periods of disappointment. Six meters had a couple of openings, most notably eastwest (Texas to Pennsylvania) and north-south (New England to Florida). Beyond those brief periods of excitement, though, it was a "grind em out one QSO at a time" type of contest. Most of the excitement came on Sunday morning, although there was a brief opening between the East Coast and the Wisconsin/ Minnesota area later in the afternoon.

For many, the Club Competition is the

main attraction. The chance to get on the air and work club members, get local recognition and have a good time proves irresistible to a lot of people. In this year's club competition, the Rochester VHF Group again took the Unlimited category gavel, with the Mt Airy VHF Club Packrats winning the Medium class. That Medium Club category is getting competitive-the Northeast Weak Signal group finished a close second. It will be interesting to see what happens next year. Kudos to the Bergen ARA, two-time winners of the Local Club Category. Actually, we congratulate all the clubs: The work they did to promote this contest (and our hobby) is invaluable and we appreciate your efforts.

Is your club part of this activity? If you are, make sure you're following the rules!

Top 10									
Single Or WA8WZG WA2TEO K1RZ WA3AXV W2HPF KA1ZE WØUC	319,424 269,744 225,148 156,354 154,176 144,336 142,868	ORP Port NM1K WX3P K6LMN WA5DJJ KE6JPT N2UNV WA4IOB N2WVK	46,970 11,952 9,720 8,086 6,402 4,329 3,696 3,174	Multiope N2WK W2SZ WB2IEY W3IP AA5C WØRSJ N2DSY N3ITT	509,937 223,227 140,385 104,103 89,100 84,744 73,874 70,883	Limited I K3MQH K9HMB N2HLT W3HZU NU2U W1QK WZ2O N2EZS	Multioperator 502,138 142,552 108,810 68,714 59,710 50,400 45,100 44,573	Rover WA2MOP KB3PW KP4XS WO2P KE6ILX KA0RYT N2KXS	81,046 60,938 18,423 14,701 13,561 13,450 13,057
WA3NUF W3ZZ WZ1V	141,048 139,590 137,410	N2PBY N2OUM	3,150 3,132	N3ADC W6TRW	44,022 33,252	KE2PM NO2T	42,770 37,908	NQ2O NØHJZ AJØE	11,469 10,423 10,158



Won't you work me on the lone prairie? Gary, WJ7L, operates QRP portable from DM31.



It looks like an aluminum antler convention! Rovers Donn, WA2VOI, and Tom, K0TLM (the other op of AJØE), meet in a snowstorm.

Regiona	al Leaders													
Atlantic Di	Region and, Hudson ivisions; Mari ec Sections)		Southeast (Delta, Ros Southeast			Central Re (Central ar Divisions;	d Great La		Midwest Region (Dakota, Midwes Mountain and W Divisions; Manit Saskatchewan S	t, Rocky est Gulf oba and		West Coast (Northweste Southweste Alberta, Bri NWT/Yukon	ern and rn Division tish Colu	mbia and
WA2TEO K1RZ WA3AXV W2HPF KA1ZE	269,744 S 225,148 S 156,354 S 154,176 S 144,336 S		K2UOP N8TLZ KC4YO KA2DRH N4HB	102,950 86,716 61,758 51,084 33,440	s s s s	WA8WZG WØUC KE8FD VE3ASO WA8NJR	319,424 142,868 110,094 103,224 102,831	s s s s	WAØBWE KBØZQ NØLL KBØIKP NØHJZ	98,169 53,361 42,558 39,298 34,992	S S S S S S	WB2ODH/6 N6RMJ K7ND WB6FCS WB4AYE	35,061 19,467 16,986 15,912 14,560	, s s s s s s s s
NM1K WX3P N2UNV N2WVK N2PBY	46,970 C 11,952 C 4,329 C 3,174 C 3,150 C		WA4IOB W3IY/4 KE4OAD KE4NEF	3,696 392 108 2	9999	N8KWX N8AXA	2,700 1,260	Q	WA2VOI (EN33) WJ7L WA2VOI (EN34) KØMHC (EN33) WBØLJC (EN35)	3,016 624 200 104 51	00000	K6LMN WA5DJJ KE6JPT WA6FIT KN6JN	9,720 8,086 6,402 364 270	00000
N2WK W2SZ WB2IEY W3IP W0RSJ	509,937 M 223,227 M 140,385 M 104,103 M 84,744 M	Л Л		,		AA9AO VE3NPB	14,980 2,675	M M	AA5C WDØGNK	89,100 2,500	M M	W6TRW WB7VVD	33,252 9,450	M M
K3MQH N2HLT W3HZU NU2U W1QK	502,138 L 108,810 L 68,714 L 59,710 L 50,400 L		KD4MSB W4PRO AC4UQ WB4U W4HAW	8,372 6,601 3,762 3,420 2,465	L L L L	K9HMB N8KOL N8ZCA WB8JAY N2BJ	142,552 19,738 14,030 12,031 9,652	L L L L	NØSGL KAØJWC KB5IUA AJØK WØRT	31,396 30,363 28,747 9,768 7,128	L L L L	WA6KLK N6DN K17NC KC6UCN KB7UWC	8,398 7,449 6,919 5,522 4,640	L L L L
WA2MOP KB3PW WO2P N2KXS NQ2O	81,046 F 60,938 F 14,701 F 13,057 F 11,469 F	3	KP4XS KS4IS N4YZJ WA4UCI AD4DY	18,423 5,228 4,484 3,731 3,088	R R R R	AJØE K9JK KF9US N9DEX N8FUJ	10,158 6,812 1,620 1,326 178	R R R R	KAØRYT NØHJZ NØSUO KB5UBE WB5LUA	13,450 10,423 4,225 3,146 2,474	R R R R	KE6ILX KD6PUD KD6DYK WA7OEW W6BB	13,561 5,414 4,020 3,352 3,030	R R R R



Brian, KD6FSM, "wishes there were more 6-meter openings."



Ed, WA2SCA, holds the microphone while Dave, WA1VGE, tunes for a likely suspect for the KL7JT operation.

Make certain your club's secretary sends in your list of eligible club members, and that your affiliation paperwork is up to date with the ARRL Field Services Department. This can prevent a surprise later when the results come out. Remember, we only list clubs that are actively affiliated.

If your club hasn't tried the club competition in this contest yet, it's missing a great way to build club camaraderie and have a good time on the air. All your members need to get started in this one is a hand-held transceiver! Why not talk it up at your next meeting?

Where do we go from here? Why, on to the June VHF QSO Party, naturally! June always offers the chance for some real propagation fireworks, sometimes, as Allen Funt would

Affiliated Club Competition	0	Fortile o	Olerate On William
U-U-14-4 O-4	Score	Entries	Single-Op Winner
Unlimited Category			
Rochester VHF Group	1,637,138	60	W2HPF
Rochester (MN) ARC	32,450	71	NØCKK
Medium Category			
Mt Airy VHF RC	1,481,643	46	WA3AXV
Northeast Weak Signal Group	1,151,921	31	WA2TEO
Potomac Valley RC	704,666	6	W3ZZ
Northern Lights RS	561,373	40	WØUC
Society of Midwest Contesters	170,428	4	AA9D
Delaware Valley VHF Society	132,935	4	N3FUJ
South Jersey RA	129,592	25	K2YY
Schenectady ARA	121,752	19	W3HHN
Badger Contesters	99,584	24	WA9LWJ
Murgas ARC	96,113	4	WA3YON
Keystone VHF Club	95,285	8	N3JDQ
Brockport Amateur Radio Klub	59,936	22	WB2VPH
Xerox ARC	59,302	19	WM3D
Ventura County ARC	56,930	4	WB2ODH/6
Yankee Clipper Contest Club	56,268	3	N1NQD
Six Meter Club of Chicago	48,896	29	WA9CCQ
Hampden County RA	33,188	7	K1JAO
Quaboag Valley ARC	33,065	16	K1ISW
Troy ARA	12,658	13	WM2Y
Michigan City ARC	11,960	3	K9DZE
Frankford RC	9,191	4	KZ2S
Albany ARA	9,032	9	WB2VVQ
Northern California Contest Club	8,957	4	AJ6T
Fox River Radio League	7,307	11	N9WJI
South Bay ARC	6,038	4	KD6FSM
Franklin County ARC	3,317	3	KD1XP
Rochester (NY) DX Assn	2,668	8	WA2LCC
Mobile Sixers RC	2,406	8	W3AWA
Local Category			
Bergen ARA	130,775	10	N2RBJ
North Texas Microwave Society	94,720	3	_
Hudson Valley Contesters and DXers		5	W2XL
Ashland ARC	22,704	3	KI8L
Rochester Radio Repeater Assn	8,313	7	AA2RS
10-70 Repeater Assn	4,086	4	WB2RQX
Huber Heights ARC	1.874	7	N8CCC
Hudson Watershed VHF Society	48	3	N2GKM



Bob, N1NUM, operates the 2-meter station at the Merrimack Valley ARA's WB1FLD operation.

say, "when you least expect it." Don't miss the chance to pick up that new grid when the band opens—get on the air!

SOAPBOX

Band conditions on 6 weren't great, but I worked the Bahamas, a new DXCC country and grid square for me. I hope more people try FM, in addition to SSB (N8WXQ). Where was the opening that's sup-posed to occur at the end of every VHF contest? (N1DGF). We had zero enhancement on any mode during my operating times (WA1T). We had a good time, although we won't have 6 meters next year. At least the barbecue was good! (XE2WDX). Conditions were flat and there was poor DX on the microwave bands, but the extra activity made it fun anyway (WAIMBA). For the second year in a row, activity was outstanding! This time, except for a few hours to the northwest on Sunday, I didn't have any static, either. We did have a brief band opening on 2 meters to the north, and I certainly didn't expect to be called by VE2XX (WB2CUT). We had a great mix of new and old hams (N2VLA). I hadn't planned to enter this contest, but after a few contacts, it turned into a lot of fun. (WA2BKN). Between blowing up ac sockets, tripping breakers with my TWT, repositioning my rotating tower in 10° weather, and having my PC crash multiple times, I



On the hunt from a great location, Gary, WA4IOB, won the Southeastern Division in the QRP portable class.

A Overview of Three Great Efforts

When you have a contest like this, you don't want to just list who won what and leave everyone wondering where, how and why. Here's a thumbnail sketch of this year's efforts by Tom, WA8WZG; Wayne, N2WK, and his group from upstate New York; and Dick, K3MQH, and his crew.

By the Shores of Lake Erie

It used to be said that to win in a VHF contest, your station needed to be somewhere between Boston and Washington. Tom, WA8WZG, has disproven that myth. He has now won the single-operator category in the past four ARRL VHF/UHF contests—this year's January VHF SS, last year's June and September VHF QSO Parties, and the UHF Contest. A dynasty is born! Will anyone rise to accept the challenge? The East Coast may have a high density of hams, but Tom's super microwave setup makes up for a lot of that. His location in Sandusky, Ohio, gives him another advantage. Tom has a virtual over-the-water shot to the Rochester, Toronto, Detroit and Chicago areas, and working those areas on 3.4 and 5.7 GHz does the trick in a big way.

Tom wasn't the only one to produce stellar scores this year. Wayne, N2WK, topped the multioperators with a 500k score, and K3MQH's final score wasn't far behind. This is even more impressive when you recognize that K3MQH was a limited multiop effort.

The Club's the Thing

For the crew with Wayne, N2WK, the foundation of their effort makes use of the intense interclub competition the Rochester VHF group generates each year. The competition attracts the interest of almost every ham between Syracuse and Buffalo, and their rich awards program, culminating in the Rochester Cup, is a focal point of activity for many groups during the winter. These people all show up, especially on FM. As more newcomers to Amateur Radio in that area find out about contesting, the FM subbands have come alive with signals. Wayne estimates they made 30 to 35% of their contacts on FM this year, as opposed to 22% last year. This, and expansion of the group's activities into the higher bands (they made 14 contacts with laser rigs), made the difference. They're already working on making more equipment for people in the area to use on 10 GHz and laser. Those 8-point QSOs sure pay off! Wayne figures that with a little more work and decent conditions, he can begin the final assault on the heretofore thought-to-be-unbeatable record, the W1VD 614k score from 1985 (done under a different scoring system).

How Do You Win? Work Everybody

For those of you who think that the K3MQH crew spends their time working everyone imaginable on FM, think again! Only 24% of their incredible 872 2-meter QSOs were on FM. Dick, K3MQH, related, "I couldn't believe there were that many people out there on 2-meter SSB!" How many of them did *you* work? Their 432-MHz QSO total was more than double what their closest challenger, the K9HMB crew, had. Their grid totals were incredible, too. How do you work 61 grids on 2 meters when there isn't any propagation to speak of? You just work absolutely, positively every grid in a 400-mile radius. The same story shows up on the other bands—virtually every grid that could be worked, was worked. It must be a case of some people being slaves to propagation and other people making their own conditions. These hams worked long and hard to finish where they did, and we congratulate them for their efforts.



Once they heated up their building, (I-r) Marvin, KD4ZMR and David, KE4JNY, of the KD4ZMR group, found a nest of dormant wasps that thought summer had arrived early.

QSO Lea	ders E	By Band													
Single Oper 50 MHz KOEK WA2TEO W3EP W3EV NY1E W1WHL K1EX K1EX K2UAH K2MLB KA1ZE K3ZO N3DQZ N1MIA WØUC	294 243 202 194 166 163 161 155 151 150 147 144 141 140	144 MHz WA2TEO WB2QOQ KA1ZE N2NEP N3OPM K1RZ WB2CUT N3FUJ WZ1V K1TR N3NVA N3JDQ VE3ASO WB2ELB WA3NUF	401 381 380 356 348 336 300 289 283 282 277 271 270 269	222 MHz WA3AXV WA2TEO K3GNC N3EXA N3DQZ WA3NUF WB2YEH WB3JYO K1TR N2SB K1RZ K2YY WA8WZG AA2UK	117 109 96 91 90 87 87 86 84 82 79 76	432 MHz K1FO NC11 WA3AXV K1RZ WA2TEO KA1ZE WA8WZG WB2DNE WZ1V K1TR N3FUJ W2XG N3EXA W3ZZ K3GNC	233 228 144 140 136 128 117 116 115 113 113 113 1109 107	902 MHz WB2YEH WA3AXV WB3JYO WA2TEO W2HPF WA3NUF WA3JUF WB3DNI WA2ONK N2SB KA2RDO AK3O N2ODK (FN13) W3KKN	35 35 33 33 31 30 28 28 26 26 25 24 24 23	1296 MHz WA4VHF WA3AXV WA8WZG WB3JYO WB2ELB WB2YEH WA3NUF K1RZ WA2TEO N2SB W2HPF WA3JUF WB3DNI WZ1V KB3IB	62 58 57 48 48 47 46 40 40 39 37 36 34 34	2304 MHz WA8WZG WA3AXV WB2YEH WA3NUF W2HPF N29DK (FN13) WB3JYO KD2YB K2AN KA2RDO AK3O WB3DNI KB3XG WA3JUF KT2B N3AOG	23 17 16 15 15 14 13 13 11 11 11 9 9	3456 MHz W2HPF WA3AXV WB2YEH WA8WZG K2AN WA3NUF WB3DNI WB3JYO N2SB KA2RDO KB3XG N3AOG KD2YB WA1MBA KA1ZE	13 12 11 11 10 10 10 10 9 8 7 7 7 6
Multioperato 50 MHz K3MQH -L N2WK WB2IEY N2HLT -L NX2Q W2SZ W3HZU -L W1NY N3ADC WØRSJ K9HMB -L N02T -L W1QK -L N2DSY N3ITT -L denotes L	426 260 245 206 194 191 171 165 152 145 143 140 137 126	144 MHz K3MQH -L N3AHF -L WB2IEY W2SZ N2WK N02T -L W3HZU -L K9HMB -L N3ITT W2ZQ -L W3IP NU2U -L W1QK -L N2HLT -L W0RSJ	872 638 490 444 441 302 297 287 278 276 271 271 267 266	222 MHz K3MQH -L N2WK W2SZ WB2IEY N2HLT -L NU2U -L NUEZS -L WØRSJ N2DSY W1DSY K1MUJ -L K1MUJ -L W6TRW K3EOD N2IJI -L	178 124 115 112 84 84 82 78 71 67 61 60 56	432 MHz K3MQH -L N2WK WB2IEY N2EZS -L NU2U -L W2SZ K9HMB -L W3HZU -L N3ITT N2DSY W2ZQ -L NO2T -L N2HLT -L W6TRW W3IP	330 196 167 158 157 155 138 137 126 122 111 104 98 93	902 MHz N2WK N3ITT W0RSJ W2SZ WZ2O -L N2DSY WB2IEY K3EOD AA5C KB7UWC -L	39 26 21 16 10 8 5 5 3	1296 MHz N2WK W3IP N3ADC WØRSJ N3ITT W2SZ NØSGL -L WZ2O -L AA5C K3MFI N2OML -L N2DSY W6TRW WB3LNZ K1MUJ -L	52 29 27 27 26 25 25 18 18 17 16 15	2304 MHz N2WK AA5C W2SZ WØRSJ W3IP	27 10 7 3 1	3456 MHz N2WK AA5C W2SZ WB2IEY	17 10 5
		·													
Single Oper 50 MHz WØUC KUBY NW3C WA2TEO WA8WZG N8TLZ K2EK AA2UK K1RZ W3EP KE8FD NY1E WZ1V KA2DRH NØLL	67 48 48 46 38 36 35 34 32 32 32 32 31 31	144 MHz KE8FD N8TLZ WA4GPM WA8NJR WA8WZG K1RZ WRØG NW3C WØUC W3ZZ WA2TEO KA2DRH WA8QNR KC4YO KF9B WB9OJR	63 556 551 51 49 48 46 46 46 44 44 44	222 MHz KE8FD N8TLZ WØUC WA8WZG K2UOP K1RZ NW3C WA2TEO WB2DNE KBØZQ WA8NJR KA2RDO WB9OJR WAØBWE	34 30 30 30 30 30 29 28 27 26 25 25 25 24	432 MHz KE8FD K1RZ WA8WZG K1FO W3ZZ KC4YO WB9OJR WB2DNE NC11 WØUC WA8NJR NW3C K2UOP KC4QWZ N8TLZ WA2TEO	41 36 36 36 33 33 33 33 33 31 31 31	902 MHz WA8WZG WA2TEO K1RZ W3ZZ KA2RDO N1DPM W2HPF W21V K2UOP KA1ZE WA3AXV WA1MBA W0UC WA3YON WB3JYO	18 17 16 12 12 10 10 10 9 9 9 9 9 8	1296 MHz K1RZ WA8WZG WA4VHF W3ZZ WA2TEO KOØU/4 N1DPM WZ1V WB2ODH/6 NØLL KB3PD KA1ZE WAØBWE WA3AXV	21 20 20 20 13 13 12 12 11 11 11 11	2304 MHz WA8WZG KA2RDO N2HJD W2HPF WA3AXV WA1MBA KA1ZE K2AN N2ODK (FN13) KD2YB N1DPM N2LBE (FN13) WA4VHF N2SB WB3JYO WA2TEO WA3NUF WB2YEH	13 5 5 5 4 4 4 4 4 4 4 3 3 3 3 3 3 3	3456 MHz WA8WZG W2HPF KA2RDO WA1MBA KA1ZE K2AN KD2YB N1DPM WA3AXV N2SB VE3ASO N3AOG WB3JYO KB3XG WA2OMY WB2YEH K1CPJ NA1W N2LBE (FN13) WA3NUF WB3DNI	
K3MQH -L N2WK K9HMB -L N2HLT -L	68 49 46 39 34	144 MHz K3MQH -L K9HMB -L N2WK N3AHF -L KE2PM -L	61 58 48 46 42	222 MHz K3MQH -L K9HMB -L N2WK W2SZ N2HLT -L	42 29 28 26 23	432 MHz K3MQH -L K9HMB -L N2HLT -L N2WK W3IP	46 40 29 29 28	902 MHz N2WK W2SZ WZ2O -L N2DSY N3ITT	13 9 6 5 4	1296 MHz N2WK W3IP NØSGL -L W2SZ AA9AO WØRSJ	12 12 11 11 9	2304 MHz W2SZ N2WK AA5C WØRSJ W3IP	6 6 4 1	3456 MHz W2SZ N2WK AA5C WB2IEY	2

still had 23 hours to enjoy the contest (KA2RDO). Snow and ice kept me off the hill for the last few hours (WB3IOU). I'm thankful to the rovers who made the contest more interesting (WB2DNE). I worked 8 grid squares with 10 W into a home-made copper-pipe turnstile antenna in my attic (KA3ZMW). The bands were so bad I had to check to see if my antennas were still there (KA3SDP). It was like pulling hens' teeth, and that's what made it fun, because you had to work for the contacts (WB5NLJ). I was hoping for more activity. I'll be ready for some "serious fun" come June (N3IXR). The wind was cold and my fingers weren't working

-L denotes Limited Multioperator

well by the time I put up my antennas. Luckily, I wasn't trying to work CW (W8II). Where was the FM activity? (KB3AFT). It was good to hear a lot of new call signs (KA2DRH). Things were on the flat side this time. The high point came when WØUC and I made our scatter contact for the fourth year in a row (K4KAZ). This contest proved what your station was made of, a contest of radio versus radio with little or no propagation (KC4JGS). I'm sure everybody will complain about band conditions on 6 and 2 meters; they were bad. But I found conditions were about normal on 432 and activity was way up. I'm definitely going to get on 222!

N3ADC N2OML -L

AA9AO N2DSY

(WB4JGG). You have to be dedicated to climb your tower to fix your rotator at 10:30 PM in January! (KC4QWZ). There were no openings of any importance this year. I'm glad we had a few rovers to work! (AD4DG). The cold, windy conditions here didn't do much for extended tropo (W4DO). The increase in activity from eastern New Mexico and western Texas was a big help (K5RHR). We made more QSOs on 2 meters than ever before, with about 15% of the contacts coming with stations that had never been logged before, before the contest or otherwise (KB51UA). We were on Smith Peak, elevation 5100 feet. It was cold, but we made a lot of QSOs into California on 2 and 432 (WB7VVD).

Scores

Each line score lists call sign, score, stations worked, multipliers, bands worked (A= 50 MHz, B = 144 MHz, C = 222 MHz, D = 432 MHz, 9 = 902 MHz, E = 1296 MHz, F = 2304 MHz, G = 3456 MHz, H = 5760 MHz, I = 10 GHz, J = 24 GHz, K = 47 GHz, L = 75 GHz, M = 119 GHz, N = 142 GHz, O = 241 GHz, P = 300+ GHz), and number of grids activated (if rover). Band winners are noted with band letter(s) in **boldface** print. Division leaders are listed in **boldface** print. New Division records are indicated with an *.

1	KA1ETL 1,274 98 13 S AB	WZ20 (+N2MDF)	WM3D 4,823 283 13 S ABD
Connecticut *WA2TEO 269,744 967 184 S ABCD9EF	W1NMQ 1,232 88 14 S AB	45,100 358 82 L ABCD9E	KF2XC 4,720 250 16 S ABCD
	N1SZB 1,110 111 10 S AB	Northern New Jersey	AF2K 4,589 287 13 S BCD
KA1ZE 144,336 765 124 S ABCD9EFG	N1LYW 1,037 58 17 S ABD	WB2VVV 44,676 435 68 S ABCD9E	KB2HVL 4,240 190 16 S ABCD
WZ1V 137,410 716 130 S ABCD9E	N1TUZ 1,015 145 7 S B	K2MLB 26,656 432 56 S ABD	K2JIO 3,406 131 26 S B
K1EM 44,772 430 78 S ABCDE	WB1FCD 972 80 12 S ABC	N2TNN 21,432 350 47 S ABCD	W2UAD 3,297 157 21 S B
W3EP 21,771 340 59 S ABD	N1QKR 954 138 6 S BD	WB2WIH 17,057 360 37 S ABCD	N2OLD 3,152 165 16 S ABD
K1FO 16,776 233 36 S D KD1DU 16,605 290 45 S ABCDE	N1SCG 890 82 10 S ABD	WB2QOQ 13,335 381 35 S B	AA2SP (FN03) 3,075 123 25 S B
	N1PF 729 70 9 S ABD	N2RBJ 7,306 239 26 S ABCD	N2RYU 2,884 103 28 S A
K1ZKR 11,662 293 34 S ABD	KB1MU 642 93 6 S BD	WB2CUT 7,200 300 24 S B	N2IZW 2,720 188 10 S BCD
AA1AK 9,275 244 35 S ABD	N1SCH 596 149 4 S B	WA2VYA 7,037 197 31 S ABD	W2WGL 2,592 69 32 S BD
K1CPJ 6,912 124 32 S ABCD9EFG	K1JDL 545 109 5 S B	NN2T 6,275 251 25 8 B	N2MXG 2,541 171 11 S ABD
	N1RSY 490 70 7 S B	KZ2S 4,416 184 24 S B	N2YJX 2,379 183 13 S B
N1NQD 5,800 184 29 S ABD K1QQG 5,508 162 34 S AB W1WHL 3,912 163 24 S A	WA1UOL 468 52 9 S A K1JG 462 42 11 S B	WA2NPP 3,401 121 19 S BD N2UAH 2,754 153 18 S A	N2QFN 2,352 98 24 S A N2TUK (FN13) 2,313 200 9 S BDI
W1QJL 3,750 129 25 S ABD	KD1QN 438 57 6 S BCD N1TGA 404 101 4 S B	N2LMU 2,743 164 13 S BD	N2CZL 2,085 100 15 \$ ABCD9 N2PSH 1,989 153 13 \$ B
WA1LOU 2,368 148 16 S B	N1MUV 396 99 4 S B	W2SJT (N2VRC,op)	KB2NFS 1,962 144 9 S BCD
	N1CET 342 57 6 S AB	2,100 160 10 S BCD	KB2CHY 1,908 131 12 S ABD
K1JBS 2,225 89 25 S AB	N1QYJ 320 40 8 S AB	N2VLA 558 93 6 S B	WB8YGG 1,890 119 15 S BD
WA1GTP 2,200 95 22 S ABC	N1BDH 318 53 6 S AB	WB2RQX 552 69 8 S B	WW2J 1,869 218 7 S BD
N1UCI 747 83 9 S B	KA1FIH 250 50 5 S B	N2WZB 456 114 4 S B	W2HG 1,727 142 11 S BD
W1TSJ 630 37 14 S BD	WA1SMH 250 48 5 S BD	N2KJM 396 54 6 S BD	WA2NFY 1,528 137 8 S BD
K1ZZ 540 60 9 S B	WW1A 244 49 4 S BD	WA2UDT 385 23 11 \$ ABCD	KF2JC 1,520 140 10 S ABD
N8WXQ 424 53 8 S AB	WA1DRZ 189 27 7 S AB	K2RLW 378 48 7 \$ BD	N2SZG 1,411 83 17 S B
KA1TQM 296 37 8 S B KB1HY 102 17 6 S AB N1OFO 4 2 2 S B	N1TOS 168 56 3 S B K5ZD 68 17 4 S B	N2TBO 356 89 4 S B N2OPJ 315 60 5 S BC KA2SSX 180 30 5 S BD	WA2LCC 1,323 147 9 S B WB2JFL 1,260 105 12 S B
*NM1K 46,970 427 70 Q ABCD9EF	N1JZO 60 15 4 S AB	WA2BKN 168 42 4 S B	N2PEB 1,232 38 16 S ABD9E
W1QK (+KA1SYG,N1s ABY,OFZ)	N1IS 27 9 3 S B		KA1MX 1,216 118 8 S BD
50,400 564 70 L ABCD NE1A (+KB1BEA,KY1F)	N1FGY 16 5 2 S BD W1NY (N1s KBY,QXV,NR1L,W1KK,ops)	*N2PBY 3,150 117 21 Q ABD N2OUM 3,132 151 18 Q ABD N2OBR 87 29 3 Q B	N2YJW 1,176 131 7 S BD AA2LQ 1,112 108 8 S BD
9,408 182 42 L ABD	28,566 436 54 M ABCD	N2DSY (+N2s MFD,ZBH,ZVH,WA2HNG)	AA2GF 1,088 64 17 S B
W1OD (+N1JY,WA1ZLV)	N1RJJ (+WA1ZUH)	73,874 594 86 M ABCD9E	N2VNO 1,056 102 8 S BD
5,050 174 25 L ABD	9,984 289 32 L ABD	NX2Q (+KA2YOM,N2HMM,W2OZU,AA7QZ)	KB2PBR 1,025 205 5 S B
W1ORS (AA1HY,N1s BBE,KPR,NCU,ORW,		17,850 337 50 M ABCDE	WA2CRR 1,020 62 15 S BD
WD1X,N2BQA,WA2TJR.ops) 3,588 117 26 L ABCD	2	NO2T (+WA!YCP,KB2LCA,KF2XK,WA2INW)	WB2JMX 1,015 203 5 S B
	Eastern New York	37,908 573 54 L ABCD	KF2CF 960 160 6 S B
N1QGY (+N1SZT)	W3HHN 28,908 331 66 S ABCDE	Southern New Jersey	K2OID 905 178 5 S BC
450 81 5 L BD	KB2HQ 24,424 262 43 S ABCD9EFGHIJ		KB2SXQ 854 122 7 S B
Eastern Massachusetts	W2XL 21,912 257 66 \$ ABCD9E	WB3JYO 117,984 635 96 S ABCD9EFG	KB2SXI 775 155 5 S B
	WB2WHD 21,615 273 55 \$ ABCDE	N2SB 101,238 541 94 S ABCD9EFGH	KB2KLP 686 85 7 S BD
N1BWT 19,035 285 47 S ABCD9EI	N2MCI 13,275 252 45 S ABCD	AA2UK 101,092 537 127 S ABCD E	KE2GZ 666 60 9 S ABCD
KX1C 17,685 298 45 S ABCDE		WB2YEH 84,096 550 72 S ABCD9E FG	N2RCR 656 164 4 S B
KB1KM 16,110 262 45 S ABCDE WA3TXR 10,277 175 43 S ABCD9EF	N2MSS 12,870 260 39 S ABCD K2EK 10,584 294 36 S A WA2KPD 7,392 211 28 S ABCD	K2YY 42,575 440 65 S ABCDE W2HRW 32,640 394 64 S ABCD	KB2HRH 620 155 4 S B N2SZE 615 123 5 S B
K1DAT 9,994 243 38 S ABD	KBZKTZ 6,710 224 22 S ABCD	WA2ONK 30,056 314 52 S BD9E	WB2MKN 595 119 5 S B
WA1LBK 8,284 154 38 S ABCDE	KA2ZIK 6,192 120 43 S ABCD	KB2AYU 27,840 342 58 S BDE	W2OMV 592 148 4 S B
K1GVM 5,539 155 29 S ABDE	K3EW 5,040 252 20 S B	W2EIF 27,342 321 49 S ABCD9EF	N2BKS 560 35 15 S B
WC1B 4,680 139 30 S ABD	WM2Y 4,902 195 19 S ABCD	W2PAU 13,338 291 39 S ABD	NS9E 539 62 7 S BD
KA1VY 3,948 127 28 S ABD	KE2UJ 4,725 143 27 8 BD	N2SCJ 11,928 358 24 S ABCD	N2TYR 490 55 7 S BD
WA1ECF 3,120 104 24 S ABCDE	WY2H 4,048 141 22 S ABCD	WB2VLA 7,668 184 27 S ABCD9	WN2R 464 29 16 S AB
KD1KJ 2,990 111 23 S BD	WA1MKE 3,648 138 24 S ABD	N2RF 5,562 168 27 S ABCD	N2WOZ 444 111 4 S B
N1GYU 2,926 133 22 S AB	WA2MJP 3,066 146 21 S B	KA2KFO 2,384 149 16 S B	KE2MK 410 82 5 S B
WA1OFR 1,512 72 18 S ABDE	WB2VVQ 2,600 118 20 S ABD	K3GYS 2,214 87 18 S ABCE	K2ZWI 402 56 6 S BC
WA1MTI 1,314 69 18 S ABD	N2COU 2,350 94 25 S AB	K2ZA 1,568 98 16 S B	KE2QW 324 81 4 S B
W1PSG 1,000 100 10 S B	KC2QF 2,331 92 21 S ABD	N2UNH 1,264 140 8 S BD	N2SNL 295 50 5 S BD
NZ1D 540 54 10 S A	W2ARQ 2,288 163 11 S BCD	N2DEQ 1,080 120 9 S B	N2YJY 276 47 4 S BD
N1QPR 366 49 6 S ABD	KB2CS 1,792 91 14 S ABCD	W2EKB 1,048 123 8 S BD	KE4LAV 272 68 4 S B
AA1O 322 46 7 S B	K2LEG 1,700 85 20 S B	N2YAJ 1,020 141 6 S BD	N2LBE (FN03) 256 8 4 S IP
WA1LXP 128 16 8 S A	WA2IWW 1,540 117 11 S BD	WA2YSW 680 149 4 S BD	AA2SU 244 61 4 S B
N1RYI 28 14 2 S B	K2RI 1,524 90 12 S BCD	KB2RHA 660 41 15 S ABD	KA2CKI 217 31 7 S AB
KA1EKR (+KA1CLV)	WB2MRX 1,442 93 14 S ABD	W2FGY 616 88 7 S B	WB2BNJ 216 72 3 S B
18,189 311 47 L ABCD	KA2AUQ 1,428 102 14 S B	AA2AI 500 111 4 S BD	N2WXX 216 35 6 S ABD
KL7JT/1 (+WA1UGE,WA2SCA)	W2KHQ 1,387 53 19 S BDE	KD2KS 456 102 4 S BD	KA2X 212 53 4 S B
2,774 100 19 L BCDE	N2USN 1,269 117 9 S BD	N2RUA 410 79 5 S ABD	N2XVA 212 53 4 S B
N1FDX (+N1s FYZ,NLR,QXY)	KG2H 1,024 64 16 S AB	KM2C 312 72 4 S BD	K2ANC 210 25 6 S BD
1,455 97 15 L B	N2PEO 990 102 9 S ABD	KA2GSL 300 60 5 S B	KB2EQP 192 45 4 S BD
Maine	N2ZAC 885 54 15 S ABD	W2ORA 264 86 3 S BD	KE2UV 188 47 4 S B
	WB2YLR 869 68 11 S BD	KF2TT 162 81 2 S B	WB1GVL 174 25 6 S ABCD
NY1E 5,312 166 32 S A N1DGF 780 49 15 S BD	N2QIP 854 122 7 S B KB2KFV 728 64 8 S ABD	N2VPN 110 55 2 S B KB2RIY 38 19 2 S B	N2TUK (FN03) 174 20 6 S BDI WA2ENW 150 50 3 S A WY2Z (FN03) 144 6 4 S CDI
W9KDR/1 52 10 4 S BD	K5NA 720 43 15 S ABCD	N2VPO 26 8 2 S BD	N2ODK (FN03) 144 6 3 S IP
W1NPP (K1TOL,KA1YSN,N1s KAT,OXA,SVD,ops)	KA2UOJ 680 47 10 S BCD	N2AWC 24 7 3 S BD	
6,860 129 49 L ABCD N1MRE (+N1PAA)	KB2RKY 648 98 6 S BD KB2JZJ 549 61 9 S B	WA2DUE 22 11 2 S B WA4FRA 22 11 2 S B	AB2F 129 43 3 S B KF2XT 100 25 4 S B W1ZR 69 23 3 S B
3,885 196 15 L BD	WD2AJS 540 66 6 S BD N2ECC 360 36 10 S AB	N3AHF (+KF2UF,N2NU,WW2Y) 29,348 638 46 L B	N2EZV 62 31 2 S B
K1TR 103,897 647 107 S ABCD9EF WA1YHO 47,637 423 79 S ABCD9EF	KU2Q 312 22 12 S ABCD KB2KDY 280 70 4 S B	K2AA (KF2YX,N2FY,WA2CVJ,ops) 27,300 418 50 L ABCD	AA2SP (FN13) 56 4 3 S IP N2JJE 55 11 5 S AB KB2KJV 48 8 4 S ABCD
AF1T 22,678 285 58 S ABCD9E	N2RAD 228 57 4 S B	W2ZQ (KD2JA,N2s FFA,JVP,RHS,RSJ,	KD2KQ (FN13) 32 2 2 8 IJ
N1HO 14,592 262 48 S ABD	N2QFH 190 31 5 S BCD	N3OBY,WB2REM,ops)	KD2KQ (FN03) 32 2 2 8 IJ
AC1J 6,784 168 32 S ABCD	KE2JJ 108 27 4 S B	19,000 389 38 L BD	KD5RO (FN03) 32 2 2 S HP
WA1T 3,536 118 26 S ABD	N2FIN 93 31 3 S B	N2OML (+WA2ZZX)	KF2TV 20 5 2 S D
WW1Z 1,957 77 19 S ABCD9E	KB2QZH 72 24 3 S B	12,960 265 32 L BDE	KA2PHQ 20 10 2 S B
N1JHJ 513 53 9 S BD	WB2HKR 45 11 3 S ABD	Western New York	K8FC 16 8 2 S B
WA1GDR 450 42 10 S ABC	N2XGB 34 17 2 S B	W2HPF 154,176 541 132 S ABCD9EFGHI	KD5RO (FN13) 8 1 1 S P
N1SNB 135 45 3 S B	N2GKM 32 2 2 S GH	KA2RDO 129,920 473 140 S ABCD9EFGH	KB2UW 3 3 1 S B
WB1FLD (KA1FYB,N1NUM,ops)	N2DVQ 8 4 2 S B	N2ODK (FN13)	KE2LU 3 3 1 S B
27,081 387 59 M ABCD	N2NQX 8 1 1 S I	86,430 500 86 S ABCD9EFIP	WX3P 11,952 253 36 Q ABCD
N1NCI (+WA1LNP)	WB2FOB 7 7 1 S B	K2AN 69,822 413 81 S ABCD9EFG	N2UNV 4,329 272 13 Q ABD
784 56 14 L B	NY2U 6 3 1 S D	N2LBE (FN13)	N2WVK 3,174 105 23 Q BDEP
Rhode Island	W2SZ (KA1PRT,KC1ZN,N2s GXH,HPA,YCA,	54,316 344 74 S ABCD9EFGIP	KB2TCG 1,040 97 8 Q BD
	WA2AAU,W82KMY,WS2B,KE4IBF,ops)	KD2YB 39,223 305 61 S ABCD9EFG	NJ2L 704 11 8 Q FGHIJ
KM1X 14,928 302 48 S ABD	223,227 961 153 M ABCD9EFGH WB2IEY (+K2ZVI,KD2IX,N2s DVQ,FMC,GCZ,GDY,	N2DKP 33,880 295 77 S ABD9E	KB2SSA 400 50 4 Q D
K1TPK 2,106 117 18 S AB		WB2ELB 29,856 338 48 S BEI	N2TLW 245 37 5 Q BD
K1DS 1,176 88 12 S ABC K1MUJ (KA1ZNZ,WA1HYN.ops) 21,120 287 48 L BCDE	GKM,OLW,WA2LVY,WB2s IEY,NHC,VVS) 140,385 1022 105 M ABCD9GHI	WA2BPE 29,202 231 93 S ABCD N2NEP 25,380 423 54 S ABCD	WR2T 88 20 4 Q BD KB2SAO 60 15 4 Q B
K1GOX (+KA1VMG,N1s HRA,RJF,WA1QXR)	WA2IID (+AB2I,KB2SSS,N2BZP)	W2ONP 22,440 214 60 S ABCD9E	W2EOJ 44 22 2 Q B
	4,004 180 22 L BD	NM2J 15,744 277 41 S ABCD9E	N2WK (+AA2SP,K2DB,KB2SE,NJ2L,KD5RO)
2,660 133 20 L AB	WB2YOR (+WB2s GNS,ZCM)	K2SPO 15,525 170 69 S ABCD	509,937 1216 201 M ABCD9EFGHIJP
	1,914 152 11 L ABD	WB2VPH 15,414 274 42 S ABCD	N2HLT (+KB2s DMK,PVZ,SCI)
W1AIM 15,120 189 60 S ABCDE	N2PEN (+N2s POS,QIP)	WA2ZNC 13,407 254 41 S ABCD	108,810 655 130 L ABCD
	1,260 108 10 L ABD	KE2DI 12,264 311 24 S ABCDEI	NU2U (+N2s CTC,VSR,WPB,XDP,NS9E)
Western Massachusetts	N2ZOE (+N2XKF)	N2HJD 12,232 362 22 S ABCD9F	59,710 612 70 L ABCD
N1DPM 109,470 508 123 S ABCD9EFG	500 100 5 L B	KA2ENE 12,038 369 26 S ABD	N2EZS (+KB2UW.KF2TV.WR2T)
WA1MBA 47,160 336 72 S BD9E FGHI WA2TIF 25,636 357 52 S BCD	NYC-Long Island	W2XG 11,400 429 19 S ABCD	44,573 601 53 L ABCD
	N2LIV 53,946 431 81 S ABCD9E	KA2DQA 10,643 300 29 S ABCD	KE2PM (+AA2JI,KB2JAG,KE2PM,KF2ZN,
K1ISW 15,620 266 44 S ABCDE	WA2LYS 6,534 277 18 S ABCD	WY2Z (FN13) 9,958 240 26 S ABCD9EIP	N2s PBU,PBV,PBX,QYN,VBJ,VBM,WKT,WA2KKF)
NCII 15,048 228 33 S D		KE2T 7,514 240 26 S ABCD	42,770 404 91 L ABCD
N1MUW 12,390 234 42 S ABCDE	N2KFC 3,024 144 21 S B	WA2AEY 7,488 156 48 S AB	K2AE (KA2s EXB,OIO,KB2s FTX,SKW,SKX,
NA1W 11,063 155 37 S BCD9EFG		K2MP 7.084 221 28 S ABCD	N2s EKU,OJY,RPX,SQO,SUL,XXX,YBU,
N1LZC 9,636 245 33 \$ ABCD	W6TER 1,728 167 8 S BD	WA2GAI 6,944 187 31 S BD	WB2s FWK,IQU,WZ2X,ops)
K1FWF 8,399 227 37 \$ AB		K2SA 6,868 298 17 S ABCD	15,400 266 50 L ABCD
N1FUS 5,658 220 23 S ABD N1MHH 5,238 172 27 S ABCD	N2UIA 1,273 62 19 S ABD K2OVS 500 50 10 S A W2AEE 354 52 6 S BD	K2OEQ 6,815 181 29 \$ ABD9 K2JD 6,040 230 20 \$ ABCD	N2IJI (+AA2LQ,KB2TJS,KE2s LU,OW,N2JAC) 12,738 297 33 L ABCD
KD1WO 4,830 207 21 S ABD N1MIA 4,389 209 21 S AB	W2/AEE 354 52 6 5 BD N2/YTJ 44 11 4 S B NB27 2,310 137 15 Q BC	N2TWI 5,904 176 24 S ABD9E KB2CHM 5,360 234 16 S ABCD	WB3IOU (+AA2VJ,KB2LDY,N2YZJ,WA2VCS,WB2SYQ) 5,336 101 46 L ABC
K1JAO 2,212 158 14 S B	N2VBZ 8 4 2 Q B	AA2RS 4,965 287 15 S ABD	AA2GV (+KB2OAZ)
KD1XP 1,812 121 12 S ABCD		K2OS 4,893 137 21 S BDE	5,145 147 35 L B
400 DET		W2EQW 4,884 316 12 S ABD	

3	KA3ZMW 272 34 8 Q 8	WB4U (+W3CQH)	AB6QW 45 7 5 Q BD
Delaware	W3IP (+K3YDX,KD3YU,N3s CBJ,FNE, WA3TID.WG3R.WB6VGI)	3.420 139 20 L ABCD	WA6KLK (+WD6HDY) 8,398 183 38 L ABCD
KB3PD 27,584 259 64 S BCDE WA3U 10,680 198 40 S BCD	104,103 563 129 M ABCDEFI	5	K2IYQ (+KD8s KVO,KVR,UHM,YOJ,KE6GUY) 1,344 59 14 L BDE
KB3QM 7,089 124 51 S ABC WA3BZT 4,056 156 26 S B	Western Pennsylvania NW3C 84,214 410 158 S ABCD	Arkansas KB5WBH 99 11 9 S B	San Joaquin Valley
N3KSE 3,657 138 23 S ABD	KA3SDP 10,830 161 57 S ABD NO3I 9,776 167 52 S BD	Louisiana	WB4AYE 14,560 181 52 S ABCD9E N6PYI 6,426 112 42 S ABCDE
K3CNH 3,298 83 34 S ABD N3DNM 1,162 83 14 S B	KA3JWJ 5,550 111 50 \$ AB	N7JJS/5 3,150 86 35 S AB D K5CZD 364 25 13 S AB D	KD6WVL 2,508 114 22 S B WA6YDI 1,860 93 20 S B
Eastern Pennsylvania	W3FUH 3,354 86 39 S AB AA3GM 2,997 75 37 S ABD	N5MYH (+KB5SUI)	WB6ITM 1,040 54 13 S BCDE
WA3AXV 156,354 719 103 S ABCD9EFGHI WA3NUF 141,048 690 108 S ABCD9EFGI	WB5NLJ/3 2,632 78 28 S BD N3KMJ 1,782 71 22 S ABD	2,204 66 29 L BD Mlasissippi	NGIFW 96 32 3 S B KCGUCN (+KB6HRB)
W83DNI 63,096 462 66 S ABCD9EFGHI N3DQZ 60,624 570 72 S ABCDE	N3IXFI 882 49 18 S B AA3GQ 60 10 6 S A	KG5MZ 960 40 24 S AB	5,522 165 22 L BCDE
K3GNC 59,585 498 85 S ABCD	N3RTR 30 10 3 S B	WB4NJG 288 24 12 S B KB5YDM 72 9 8 S B	Sacramento Valley KJBKO 9,307 190 41 S ABCD
WA3YON 52,015 383 101 S ABCD9	K3UA 15 5 3 S AB WBØIWG 4 2 2 S AB	New Mexico	KC6TEU 7,875 179 35 S ABCDE N6KBX 5,600 160 35 S AB
N3FUJ 51,744 599 66 S ABCD KT2B 49,530 422 65 S ABCD9EF	WBIJ 24 6 4 Q AB KB3AFT 6 3 2 Q B	K5MAT 5,809 111 37 \$ ABCD K5RHR 4,960 106 31 \$ BCD	WA5YWC 3,640 125 26 S ABD KA6VQV 2,320 103 20 S ABCD
N3EXA 47,586 518 66 S ABCD KB3IB 44,200 387 65 S ABCD9E	4	KA5EBL 2,220 62 30 S ABD KB5ZSK 1,296 59 16 S ABCD	W6JEX 1,575 68 21 S BD
WB3FAA 40,162 345 86 S ABCD9E WA2OMY 38,822 334 59 S ABCD9EFGHI	Alabama	W5FF 1,025 41 25 S A KB5ZDV 855 42 15 S BD	KC6ZWT 1,570 126 10 S BD N6YBZ 1,530 80 15 S ABCD
AK3O 37,100 379 50 S ABCD9EF	KA2DRH 51,084 284 132 S ABCDE KD4OIR 5,535 102 45 S ABCD	KC5DTF 506 34 11 S BD	KE6DPV 1,404 66 18 S ABD N6QIX 272 20 8 S BDE
N3NGE 32,319 283 63 S ABCD9E W3KKN 32,130 449 45 S ABCD9EF	N4ION . 5,418 112 42 S ABD	W5IXR 451 31 11 S ABCD W6RQR 344 27 8 S ABC	N6SVA (+KD6s GNB,YQQ,KE6CBL,N6WGS) 1,095 50 15 L ABCD
K3IUV 27,538 367 49 S ABCDE W3IIT 26,733 359 57 S ABCDE	KE4FRZ 4,860 114 36 S ABD WA4ZZW 2,816 70 32 S ABD	KN5S 117 13 9 S AB	7
WBBZAR 25,707 324 57 S ABCD9E N3GSA 22,661 355 43 S ABCD9	KD4FMN 588 37 14 S ABC KO4OL 30 10 3 S B	North Texas KBSOAI 1,680 65 24 S ABCD	, Arizona
WA3AQA 20,140 364 38 S ABCDE W3GXB 17,667 275 39 S ABCD9E	WA4VUG 27 9 3 S B KB4FAI 21 7 3 S B	KY5N 280 35 8 S AB KC5EPL 210 27 7 S ABD	WA7JTM 10,437 154 49 S ABCDE
N3JDQ 16,376 338 46 S ABD	KE4PXH 21 7 3 S B KB4PBM 190 19 10 R B	AASC (+KA5BOU, W5NZS, WA5VJB) 89,100 375 100 M ABCD9EFGHIJL	W7GZ 4,816 111 28 S ABCDE WB7OHF 1,387 61 19 S ABCD
W3GAD 15,561 343 39 S ABCD KB3XG 14,056 156 28 S BCD9EFGHI	Georgia	KF5DO (≁KC5LPW) 3,910 115 34 L AB	N7GJD 161 23 7 S AB WA2DVD/7 91 13 7 S B
KB3ZS 13,505 286 37 S ABDE K3DMA 11,362 300 26 S ABCDE	W4WDH 10,710 130 63 S ABCD K4KAZ 3,410 87 31 S ABCD	Oklahoma	WA9TKK 125 25 5 Q B WB7VVD (+KB7VCO,KC7AED,N7VUB)
WA3YUE 10,440 201 30 S ABCD9E N3NVA 10,368 346 27 S ABD	KD4K 2,575 79 25 S BD	WM42 5,600 94 50 S ABDE	9,450 157 45 M ABCDEP
N3JOV 8,400 174 42 S ABD WA3EHO 7,061 261 23 S ABC	WD4AFY 2.485 56 35 \$ ABCD WD4MBK 960 32 15 \$ D	South Texas KC5CCT 2,950 105 25 S ABD	Eastern Washington N7AUV 5,360 113 40 S ABDE
KU3A 6,467 177 29 S ABCD	KC4YOJ 630 35 18 S AB KD4YDC 112 28 4 S B	W5UWB 1,650 51 30 S ABC	N7JGO 1,760 47 32 S ABCO
K3ESJ 6,200 180 31 S ABC N3AOG 5,070 102 15 S ABC9EFG	WA4IOB 3,696 93 28 Q ABCDE KD4MSB (+AD4QR,KD4s HLG,HME,KE4s PPE,	WASDTK 324 27 12 S B	KB7UWC (+W7FHI) 4,640 118 32 L ABD9
KB3YL 4,500 124 25 S ACD N3LKI 4,096 103 32 S ABD	QMD,KA5WZY) 8,372 150 46 L ABD	KC5FP 234 14 13 S ABD N5AF 6 6 1 S B	Idaho
K3KEL 3,993 121 33 S B K3DJC 3,726 128 23 S BDE	AC4UQ (+KD4HLV,KQ4LE)	*KB5IUA (+KZ8A) 28,747 260 89 L ABCD	W7ID 1,943 51 29 S ABDE Nevada
K3EBZ 3,600 165 16 S BCD	3,762 91 33 L ABCD Kentucky	WB5OBS (+NIØK) 3,300 88 25 L BCDE	K7ICW 2,001 69 29 S AB
N3FJA 3,360 133 21 S 60	AD4ZW 21,663 210 87 S ABD	KC5FMT (+KB5YTA,KC5S EHW,FMU)	KF7UV 1,026 49 18 S ABCD Oregon
N3JNX 3,255 86 35 S ABO K3WW 2,176 128 17 S AB	KC4JGS 7,550 129 50 S ABD N4FXC 3,515 78 37 S ABD	1,422 73 18 L ABD West Texas	KE7CX 12,789 179 49 S ABCD9E
AA3ID 2,088 76 24 S ABD WA3RLT 1,710 92 15 S BD	WA4FVQ 924 44 21 S AB	WS5R 2,835 71 35 S ABD	KG7FV 5,712 99 42 S ABCD9E N7YAG 2,583 104 21 S ABD
K3PHY 1,650 132 10 S BC9 WT3W 1,488 93 16 S A	North Carolina WA1EHL 30,702 219 102 S ABCDE	W5KFT 1,830 61 30 S 8	N7DB 1,554 64 21 S ABCD K7HSJ 660 3B 15 S ABCDE
W3HK 1,464 102 12 S ABCD	WB4YWI 4,884 88 44 S ABCD W4FSO 2,312 52 34 S ABCD	6	N7FBB 288 32 9 S AB KA7IJK 240 40 5 S B
N3HGU 1,375 86 11 S ABCD	KE4HXV 1,425 57 25 S B N4PPH 308 44 7 S B	NR6E 612 36 12 S ABDE	W7PUA 225 25 9 S AB N7WNC 264 24 11 Q B
WA3CSP 1,102 58 19 S A K3BPP 1,072 71 8 S BCDE	KE4PNT 9 9 1 S B	WB6ETY 150 25 5 S BD	WA7IQH (+KD6VLR,KE7IK)
WI3S 1,045 95 11 S AB KA3MGB 1,020 79 12 S ABC	W4NC (KD4RGB,N4VHK,ops) 210 19 10 L ABD	LOS Angeles *WB2ODH/6 35,061 196 B7 S ABCD9EFGHI	912 46 16 L ABDE Utah
N3HSH 901 53 17 S AB W3AWA 830 72 10 S ABCD	Northern Florida	N6RMJ 19:467 213 63 S ABCDEI W6GGV 13:248 183 48 S ABCDE	WA7PIB 4,550 113 26 S ABCDE
WA2GFP 749 80 7 S BCD	WB4JEM 20,790 190 77 S ABCDE W4IXD 8,036 142 41 S ABDE	N6KN 12.079 199 47 S ABCD KD6RMS 8.190 204 26 S ABCDE	WA7PXD 4,293 102 27 S ABDEF NJ7A 4,284 102 28 S ABDEF
KASVTQ 710 71 10 S B AK3M 609 87 7 S B	KQ4PI 4,270 83 35 S ABCDE KD4LCO 576 32 16 S ABD	KD6FSM 5,649 175 21 S ABCDE	N7MLD 2,376 92 22 S ABCD KE7OI 572 46 11 S BE
W3SST 528 37 12 S ABCD W3JS 522 87 6 S B	N4ATM 308 24 11 S BD KS4KP 119 16 7 S BD	K8BUW 3.161 69 29 S BDE KE6JLF 1.512 99 12 S BC	N7SFT 560 46 10 S BCD KB7DD 440 33 11 S ABD
W3CXU 510 75 5 S AC KA2BDM 483 69 7 S AB	WA2BAH/4 22 11 2 S B KA2MCU/4 2 2 1 S B	WA6BOB 1,485 68 15 S ABCDE KE6AXJ 483 61 7 S BD	WB7REL 312 21 12 S ABD
N3AHP 470 45 10 S ABCD WA3JMM 430 58 5 S BC	South Carolina	N6RVC 238 34 7 S B AC6FB 115 18 5 S BD	*WJ7L 624 43 12 Q ABD Western Washington
N3GPF 377 26 13 S ABD	WA4VCC 30,240 217 105 S ABCD	KE6HTL 40 10 4 S B N6TCZ 21 5 3 S BC	*K7ND 16,986 182 57 S ABCD9EF
W3DZH 288 26 9 S ABD N3TJD 284 62 4 S BD	WB2WEO 200 20 10 S B	KE6GVQ 4 2 1 S C	KE7SW 14,112 194 48 S ABCDE W6PKW 7,140 141 35 S ABCDE
W3UQC 205 41 5 S B KC3LE 192 24 8 S AB	W4UKU 91 13 7 S B KD4ZMR (KD4s TCA,TCB,KE4JNY,ops)	K6LMN 9,720 196 36 Q ABCDEP WA5DJJ 8,086 209 26 Q ABCDE	WI7Z 6,055 118 35 S ABDE W7ZSL 5,495 120 35 S ABCD
N3BPJ 183 57 3 S BD N3EVV 112 9 8 S BDE	832 61 13 L BD	KN6JN 270 19 9 Q BCD W6TRW (KB6TVJ,KD6s DYK,IGI,PRO,WYQ,	N7RZA 4,082 101 26 S ABDE K7VNU 1,456 91 16 S AB
KE3PC 75 25 3 S 8 WA3CQT 4 2 1 S C	Southern Florida K2RTH 4,250 101 34 S ABCD	KE6s CVV,JFT,MJR,MJU,KK6ZQ,KN6OW, KO6MZ,N6ZAY,WA6s JOK,MPF,ops)	KC7FCH 923 71 13 S B KH6JJK 882 52 14 S ABCD
W3TDZ 4 4 1 S B	WD4MGB 4,240 93 40 S ABD N4EJW 1,720 86 20 S A	33,252 454 51 M ABCDE NBDN (+KE6PQY, KO6KS, WB6KUW)	W7LZP 550 55 10 S A
WØRSJ (+W1PV.WB2ONA,WA3YUE)	WD4AHZ 1,235 53 19 S BD K4SC 1,054 62 17 S A	7,449 143 39 L ABCD	*KI7NC (+N7s KSI,TCD,ZMW)
84,744 627 88 M ABCD9EFP N3ITT (+N3s OZO,PSJ,WQ3X)	KR4U 77 11 7 S B W4HAW (AB48E,AD4PS,KD4s LXB,VDI,	Orange WB6FCS 15,912 175 72 S ABCD	6,919 156 37 L ABD
70,883 634 73 M ABCD9E N3ADC (+KA2RRK,N3s NFB,RSE)	KF4s HCQ.IEJ.LQS.QUP.PWE.RIP.ops)	KD6UIH 10,023 198 39 S ABD	8
44,022 465 66 M ABCDE WB3LNZ (+KB2SWZ,KB3NE)	2,465 85 29 L AB	KI6FF 2,921 127 23 S B KD6NIM 1,520 74 19 S ABD	Michigan KU8Y 70,091 413 133 S ABCDE
23,664 335 51 M ABCDE	Tennessee *KC4YO 61,758 294 141 S ABCD9EF	KC6UIX 1,394 82 17 S B N6HC 1,224 102 12 S AB	K8MD 37,389 255 103 S ABCD 9E WZ8T 35,207 250 109 S ABCDE
K3EOD 21,584 446 38 M ABCD9E K3MFI (+N3EMA)	WB4JGG 26,299 232 91 S ABD KC4QWZ 25,047 185 99 S ABCD	KM6HB 231 33 7 S A KE6JPT 6,402 138 33 Q ABCD	K2YAZ 21,084 186 84 S ABDE KU8P 13,952 170 64 S ABCDE
17,255 356 35 M ABCDE *K3MQH (+K3s IXD,JFL,LYW,RA,KC3EX,	KD4CLA 1.736 62 28 S B AD4F 946 39 22 S ABD	WA6FIT 364 52 7 Q B	NQ8A 13,440 152 60 S ABCDE
KF3P,N3e EYB,KTV,W3EKT,WF3T) 502,138 1806 217 L ABCD	WA4ZZU 18 6 3 S B	Santa Barbara KC6WLC 7,850 114 50 S ABDE	WD88KM 12,210 143 55 \$ BDE N8EDO 10,502 146 59 \$ ABDE
W3HZU (K3UVJ,N3s DEJ,LSN.LTZ. QZL,W3UQJ,ops)	Virginia N4HB 33,440 276 80 S ABCD9E	N6QOA 2.247 71 21 S ABCOE KE6BBP 155 27 5 S BC	N8PJP 9,776 150 52 S ABCO NBJTB 9,150 153 50 S ABD
68,714 836 B6 L ABCD K3IEC (K3LHD, KB3APA, N3SEC, WD3U, ops)	KOØU/4 32.625 253 75 S ABDE WB4DBB 31.106 218 103 S ABCD9EI	KD6BIQ 150 25 6 S AB	NBNQS 8,134 159 49 5 ABD KUBU 7,776 118 54 5 BD
2,040 78 24 L ABD	K4QIF 27,056 226 76 S BDE	Santa Clara Valley WB9AJZ/6 10,608 183 48 S ABD	N8MKH 6,468 127 44 S ABCD N8FEH 2,852 92 31 S B
Maryland-DC	W8CM 22,960 246 70 S ABCD9E K9OYD 12,749 132 61 S ABCD9E	AJ6T 7,141 163 37 S ABCD	KB8UBK 1,955 85 23 S B
K1RŽ 225.148 781 187 S ABCD9E W3ZZ 139.590 530 165 S ABCD9E	N4KWX 10,388 153 53 S ABCDE KD4UPF 9,625 140 55 S ABD	KO6CL 600 40 10 S ABDE	N8CGY 1,175 47 25 S AB N8WQZ 855 57 15 S B
WB2DNE 101,840 522 134 S ABCDE K3ZO 25,805 397 65 S AB_	AD4DG 9,065 149 49 S ABD W4DO 6,996 103 44 S ABCDE	KB6NAN 320 40 8 S A N6YB 288 20 8 S BDE	N8YBY 572 44 13 S B WBØWAO 442 21 17 S BC
WA4VHF 16,560 124 40 S D EF N3OPM 12,876 348 37 S B	K4FTO 6,435 143 39 S ABD WD4GSM 2,666 60 31 S ABCD	KD6PAO 204 34 6 S B KF6GL 112 16 7 S A	K8OT 377 25 13 S BD N8QYW 65 13 5 S B
W2EOS 5,371 111 41 S ABC WB2BZR/3 3,082 106 23 S ABCD	K4MSG 2,231 97 23 S B	K2MM 85 12 5 S BD KG6I 65 13 5 S B	KBBQJF 60 15 4 S B KABAOB 8 4 2 S B
WOZDZA 3,602 100 23 S ABCD W6AXX 2,584 152 17 S B	N4YKD 550 41 10 S BCD	KE6JGR 44 11 4 S B	N8YBD (+KB8s AUX,PBJ,OUX,RVN,RVO, KG8NJ,N8s QOR,WZM,YXD)
K3TEZ 2,400 120 20 5 B	AD4TJ 504 36 14 S AB KE4BVP 385 35 11 S AB	San Diego WA6TBO 13,770 223 51 S ABD	KGBNJ,NBS QOH,W2M,YXD) 5,046 153 29 L BD
KA3TCC 2,166 100 19 S ABCD W3TMZ 1,558 35 19 S DE_	W3FTG 110 22 5 S B NØPSB 4 4 1 S B	K1CT 2,100 80 21 S ABCD	Ohio
W3GN 1,426 50 23 S ABD W3MSN 430 34 10 S ABD	W31Y/4 392 28 7 Q D KE4OAD 108 33 3 Q BD	WB6CYS 1,430 47 26 S ABCD W6PFE 605 55 11 S AB	*WA8WZG 319,424 622 224 S ABCD9EFGH KE8FD 110,094 458 177 S ABCDE
KA3ZLS 340 68 5 S B WA3GYW 259 37 7 S AB	KE4NEF 2 2 1 Q B W4PRO (+AD4NJ,KC4WTT,KD4UFC,KE4SBJ,	N7CW/6 (+KD6QK) 1,800 90 20 L AB	WA8NJR 102,831 491 151 S ABCD9E WA4GPM 62,370 386 126 S ABDE
K3UAL 245 35 7 S AB	KO4MR,MKM4EM,N4YWR,WH9AAA,KDØR)	San Francisco	WABONR 26,784 226 96 S ABCD AA8O 25,925 256 85 S ABD
N3ORD 34 12 2 S BD	6,601 136 41 L ABD	ACØP 189 18 9 S ABD	

K8DIO 19,188 173 82 S ABCD	W9ESU 2,760 80 30 \$ BD	KØMHC (EN34) 468 75 6 S BD	British Columbia VE7ZZX 3,432 111 24 S ABD
N8VEA 5,760 141 36 S BD KB8QBM 4,920 100 41 S ABCD	K9EA 2,520 45 28 S CD WB9DRB 2,275 53 35 S ABCD NY9B 1,180 52 20 S ABD	WDØGCP (EN34)438 73 6 S B KØYIH 425 85 5 S B WDØHHH (EN34)348 58 6 S B	VE7SAY 2,163 89 21 S B D VE7CYT 561 51 11 S A
K8MR 4,272 89 48 S AB WB8K 4,095 112 35 S ABD	N9RZY 324 27 12 \$ B	KBØIXC 324 54 6 S B	DX
WA8SVV 2.880 90 32 S AB	WB9YHH 32 14 2 S BD	KBØOFF 235 47 5 S B	CO2OJ 9 3 3 S A XE2WDX (XE2s MWQ,XBR,XTL,N5YWH,ops)
KE8RO 2,552 88 29 S B	W9CGI 24 4 4 S BD	AAØSM 216 54 4 S B	
KI8L 1.809 64 27 S BD	WB9CEP (+N9s KZJ,OBT,W9SU)	NØYAL 180 36 5 S B	
N8KCL 1,157 73 13 S BD	6,732 115 51 L ABD	NØMGY (EN34) 164 36 4 S BD	54 9 6 L B
N8CCC 1,024 48 16 S ABCD	W9YB (KA9CRR,KC9RG,op)	KBØOBT 141 47 3 S B	Rovers
NX8M 784 46 14 S BCD	640 30 16 L ABD	NØCET 132 22 6 S B	
K8KR 702 54 13 \$ B	Wisconsin *Wøuc 142,868 531 191 \$ ABCD9EFG	KBØPMC 120 22 5 S BD	Atlantic
K3ZAP 690 50 10 \$ ABCDE		KAØVYB 104 23 4 S BD	WA2MOP (N2PEB,WA2TMC,ops)
N8ETK 675 40 15 S BD	WA9LWJ 32,736 256 93 S ABCDE	WBØLSG 96 24 4 S B	81,046 894 157 R ABCD9EFGHI 4
WA8RJF 646 33 19 S ABD	KA9UZW 6,958 126 49 S ABD	NØEJP 56 12 4 S BD	KB3PW (+KA2CKI)
KB8SHE 415 83 5 S B	KE9QT (EN43) 6,950 88 50 S ABCD9E	KGØKJ 54 27 2 S B	60,938 588 142 R ABCD9EFGHIP 4
N8QXC 290 27 10 S ABC	N9LMU 5,148 87 44 S BDE	NØHBS (EN34) 48 13 3 S BD	WO2P 14,701 393 88 R ABCD 4
N8GRW 240 20 12 S B	KA9QFK 5,148 156 33 S B	WØPLD 48 24 2 S B	N2KXS 13,057 400 75 FLABCDE 4
WA8RCN 200 25 8 S A		NØHZN (EN34) 40 20 2 S B	NQ2O (+N2ULL)
KB8ELA 85 10 5 S ABCDE	WA9HCZ 4,736 105 37 S ABD	KAØKCO 40 20 2 S B	11,469 354 150 R ABCD9EF 8
AA8RR 55 7 5 S BD	KD9TH 4,674 93 41 S BD	WØCJ 30 15 2 S B	WA2BPQ 9,868 217 13 R BCD 4
N8ZAW 48 7 6 S BD	N9ISN 4,403 115 37 S ABD	NØZSY 30 15 2 S B	ND3F (+W8PC)
KB8TDC 24 10 2 S BD	WA9PWP 4,095 117 35 S AB	KAØRTP 26 13 2 S B	8,472 319 123 R ABCDE B
KF8EF 24 9 2 S BD	KE9QT (EN55) 3,255 58 35 \$ ABCD9E	WDØFFB 24 12 2 S B	N1NOE 6,718 202 47 R ABCD 4
KA8RIQ 22 8 2 S BD	NØAKC 3,168 96 33 \$ AB	KDØAB 24 12 2 S B	N2UIO 3,785 282 53 R BCD 7
N8ZAT 16 8 2 S B	KE9QT (EN45) 2,728 55 31 \$ ABCD9E	KØPSH (EN33) 24 8 3 S B	N3KKM (+N3RAL)
W8ILC 5 5 1 S B	KE9QT (EN46) 2,666 56 31 \$ ABCD9E	NØPGQ 18 9 2 S B	3,284 258 60 R AB 5
*NBAXA 1,260 51 18 Q ABCD	• WA9KVS 2,336 72 32 \$ ABD	WDØM 16 8 2 S B	KB2QPU 698 123 18 R BD 4
NBKOL (+NBs ICH,WHY)	WA1UJU 2,214 82 27 \$ B	KBØOND 16 8 2 S B	WK2N 188 64 5 R B 3
19,738 212 71 L ABCD	KE9QT (EN44) 2,030 44 29 S ABCD9E	KBØBRD 14 7 2 S B	N2XVA 120 40 9 R B 3
N8ZCA (+KB8S RXA,RXC,WD8CVH)	WA9LZM 1,752 71 24 S ABD	KØEN 14 7 2 S B	N2TKT 78 9 6 R BCD 2
14,030 262 46 L ABCD	N9PBA 1,587 66 23 \$ ABD	NØWYH 14 4 2 S BD	Central
WB8JAY (+N8TPQ)	N9LAD 1,575 56 25 \$ ABCD	N2KIR 12 6 2 S B	
12,031 188 53 L BD	WB9VYP 1,512 72 21 S B	WAØTLH 12 6 2 S B	AJØE (+KØTLM)
N8VKE (+KB8VJR)	W9YCV 1,403 51 23 S BD	KC4AVR 10 5 2 S B	10,158 345 232 R ABCD9E 11
4,032 113 32 L ABD	WD9IAB 1,377 41 27 S ABD	KBØONC 10 5 2 S B	K9JK 6,812 267 109 R ABCDE 6
	WD9BGA 1,210 53 22 S ABD	KCØOI 6 3 2 S B	KF9US 1,620 51 27 R BD 2
West Virginia	N9YKE 1,140 50 20 \$ ABD	WAØVEZ 5 5 1 S B	N9DEX 1,326 102 13 R B 4
*K2UOP 102,950 445 145 S ABCD9EI	W9XT 980 49 20 \$ B	NØVUX 4 2 2 S B	K9ENZ 132 50 5 R B 2
N8TLZ 86,716 408 163 S AB CDE	W9KHH 950 50 19 S B	WB2V 4 4 1 S B	K9ZWU 33 13 5 R B 2
N8PEK 21,084 204 84 S ABCD	N9TD 840 31 21 S ABD	WBØYEE 3 3 1 S B	K9ZWV 33 13 5 R B 2
N8XUR 18,620 214 70 S ABDE	N9NOF 720 36 16 \$ ABD	KAØCSK 2 2 1 S B	Dakota
K8UC 16,926 163 78 S ABCDEP	KE9QT (EN56) 684 23 19 \$ ABCD9E	WJØB 2 2 1 S B	
KV8S 6,664 99 49 S ABCD	KC2AK 282 40 6 \$ ABD	NØHBK 1 1 1 S B	KAØRYT 13,450 487 177 R ABCD 9
WB8TFV 4,445 127 35 S B	K9VGE 200 20 10 \$ B	WX7D 1 1 1 S B	NØHJZ 10,423 335 131 R ABCD9EF 7
W3EUH/8 4,031 127 29 S ABCD	KF9QN 180 17 9 S ABD	WBØQAO 1 1 1 5 B	NØSUO 4,225 168 68 R ABCD 4
KH2CY/8 3,920 127 28 S ABCD	NØBSH 55 6 5 S ABCDE	KBØONP 1 1 1 5 B	KCØP (+KAØCRC)
K3JT 756 34 18 S ABD	AA9AO (+KA9BXG)	KAØCRO 1 1 1 S B	996 106 37 R BD 5
W4PSJ 686 49 14 S A	14,980 137 70 M ABCDE	KBØMRK 1 1 1 S B	WE7L 592 62 43 R B 6
K8OQL 340 24 10 S ABEI	WA9ACI (+N9s XHQ,XIX,WA9SZH)	NØVVA (EN33) 1 1 1 S B *WA2VOI (EN33)	WB0OAJ (+N0SIZ)
WA8DQR (+K8s DM,LG,N8DIR,WA8YCG,	7,912 159 43 L ABD		218 38 7 R ABD 7
WD8AFJ)	Ø	3,016 70 29 Q ABCDE	Delta
1,890 70 27 L AB		WA2VOI (EN34) 200 10 10 Q ABCDE	WA4UCI (AC4LS,KB4NVD,ops)
9	Colorado	KØMHC (EN33) 104 23 4 Q BD WBØLJC (EN35) 51 3 3 Q BIP	3,731 66 41 R ABCD 3 KD4TJN (+KD4HOQ)
Illinois	NØZEB (+WDØAAD) 644 38 14 L ABCD	NØBSG (EN33) 48 13 3 Q BD WDØHHH (EN33) 44 22 2 Q B	1,356 70 45 R ABC 3
WB9OJR 32,856 184 111 S B CD9EF AA9D 20,808 232 68 S BCD	lowa	WA2VOI (EN43) 36 4 4 Q BCDE NØHZN (EN33) 32 16 2 Q B	N5YLS 94 29 12 R B 5 Great Lakes
KF9B 17,018 233 67 S ABD	WRØG 12,782 166 77 \$ AB	NØMGY (EN33) 30 9 3 Q BD	N8FUJ 178 17 13 R AB 3
N9UIZ 16,762 208 58 S ABCD	NØRJJ 5,082 121 42 \$ B	WDØGCP (EN33) 26 13 2 Q B	
N9NJY 15,318 150 74 S AB CDE	WAØDCB 2,142 52 34 \$ ABCD	NØHBS (EN33) 12 6 2 Q B	Hudson
NN9K 15,246 150 77 S ABCD	WØYPT 1,638 45 26 \$ BCDE		KD2NE 156 27 15 R BD 4
WD9EXD 12,600 250 42 S ABCD N9BJG 11,502 130 71 S ABCD	KØJQA 1,128 47 24 S B KEØY 510 28 17 S BD	KØPSH (EN34) 10 5 2 Q B NØVVA (EN34) 6 2 2 Q BD WDØGNK (KCØP,WØOHU,ops)	WB2AMU 115 24 10 R AB 2 WB2BEJ 112 50 9 R BCD 2
WA9CCQ 9,090 253 30 S ABCD	KDØBT 308 21 11 \$ BD	2,500 69 25 M ABCDE	KA2NJP 76 21 6 R B 2
N9SOR 8,640 161 36 S BCDE	KBØNZR 90 18 5 \$ B		N2JOC 58 21 10 R B 4
WA9FIH 8,050 242 25 S ABCDE	KØSRL 20 10 2 S B	*KAØJWC (WA2PHW,WAØRLY,WBØGGM,	WA2SDO 44 11 4 R B 4 Midwest
N9NJS 7,395 116 51 S ABCDE	W6RWH (+WB6OTG)	NØZCW,ops)	
N9CXO 5,472 134 32 S ABD AA9LU 4,179 199 21 S B	486 27 18 L B	30,363 253 87 L ABCD AJØK (+NØROX) 9,768 180 44 L ABD	WRØI 524 41 31 R AB9E 6
N9TNY 3,874 133 26 S BD	Kansas	9,768 180 44 L ABD	N5NIQ 287 170 33 R BCDE 7 New England
N9WJI 3,822 150 21 S ABCD	Nøll 42,558 231 123 \$ ABCDE	NØHZO (+KCØP)8 4 2 L B	
WB9IFM 3,456 141 24 S BD	WØEKZ 7,701 111 51 \$ ABCDE	Missouri	KH6CP/1 7,369 165 49 R ABCD9EFG 2
WA9RIJ 3,000 165 15 S ABD	NØFFO 5,520 98 46 \$ ABDE	AB4CR 24,453 156 99 S ABCD9E	N1QKB (+N1QVE)
K9MBX 2,288 88 26 S B	AAØTT 3,115 89 35 \$ B	NØZKK 4,770 93 45 S ABD	2,736 160 55 R ABCD 5
KC9IX 2,160 100 18 S ABD	WYØC 2,400 57 30 \$ ABCD	NØJEQ 1,430 41 26 S BD	KJ1K (+N1RMU)
W9NHX 1,932 140 12 S ABD	NØIGC 720 40 18 S AB	NØODZ 1,056 44 24 S AB	2,190 126 25 R ABC 2
AK9Y 1,496 148 8 S BD	KFØM 576 24 12 S D	WØJRP 765 40 17 S ABC	N1RWC 423 48 16 R BD 2
N9TUP 1,441 107 11 S ABD	N5ZVG 240 20 12 \$ A	NØQOJ 495 31 15 S BD	Northwestern
N9KUW 1,300 87 13 S ABD	KBØMME 4 4 1 \$ A	KMØL 234 26 9 S B	
N9TUQ 1,230 104 10 S ABD	NOØY 32 8 4 Q B	North Dakota	WA70EW 3,352 221 97 R ABC 7
K9ZWU 981 87 9 S ABCD	NØSGL (+KAØKCI,NØSMR,WAØTKJ,WBØDRL)		AA7VT 2,475 206 78 R ABD 7
K9ZWV 981 87 9 S ABCD	31,396 215 94 L ABDE	NTØV 2.880 49 36 S ABCD9E	KA7YOU 528 63 22 R ABCDE 3
KB9II 852 59 12 S ABC	WØRT (+NØs QXC,RRY,KBØPCE)	WDØEMY 700 26 25 S ABD	KC7DRL (+KC7DPD)
WA9QYX 820 72 10 S ABD	7,128 117 54 L ABD	Nebraska	316 43 12 A BCD 2
K9JMA 770 77 10 S B	Minnesota	AAØDW 2,805 85 33 S B	
N9SXG 736 74 8 S BD	WAØBWE 98,169 461 129 \$ ABCD9EFG	WDØBQM 1,846 39 26 S ABCDE	KD6PUD (+KC6SBJ)
WB9MXX 660 60 11 S AB	KBØZQ 53,361 331 99 \$ ABCDE	KØGCJ 1,196 33 23 S BDE	5,414 244 92 R ABCD 8
N9UXP 644 82 7 S BD	KBØIKP 39,298 302 98 \$ ABCD	South Dakota	W6BB (KC6YEY,KD6CYZ,ops)
N9WRO 540 84 6 S BD	NØHJZ 34,992 289 81 \$ ABCDEF		3,030 122 24 R ABE 2
WA9GQK 420 105 4 S B	KØGJX 22,680 244 72 S ABDE	WBØHHM 4,592 83 41 S ABCD	NGØX 1,635 48 22 R ABD 3
W9VA 407 36 11 S ABC	KAØEWQ 12,614 176 53 S ABCD	KGØMW 510 34 15 S B	K6HXW 694 60 25 R B 3
W9ZZU 348 87 4 S B	WØAUS 8,964 160 36 S ABCDEIP	NØVCA (+NSØN)	KN6WY 680 88 30 R B 4
W9CEJ 308 77 4 S B	KAØPQW 8,310 188 30 S ABCD	1,456 56 26 L B	WB9AJZ 256 42 16 R B 3
WA9KIN 288 72 4 S B WA9ZBC 288 72 4 S B	WA2HFI/Ø 7,998 148 43 \$ ABD WBØLJC 7,650 178 30 \$ ABDE	Canada	Roanoke
W9REC 256 64 4 S B	NØMSB 7,439 138 43 \$ ABD	Quebec	KP4XS 18,423 388 154 R BCD9E 6
K9USW 252 63 4 S B	NØCKK 6,478 123 41 \$ ABD		N4YZJ 4,484 140 64 R ABCDE 4
W9NSP 236 59 4 S B	KGØQE 4,862 113 34 \$ BD	VE2TQX 64 16 4 S B VE2CUA (VE2s ARW, BQW, DUB, HKI, JNK, KWA,	Rocky Mountain
W9PQH 186 28 6 S BD	KØCJ 4,522 103 34 \$ ABD		NK5F 1,969 148 49 R ABCD 6
W9PMJ 162 54 3 S B N9VIJ 156 39 4 S B	NØVWG 4,323 101 33 \$ BD KFØGX 3,836 108 28 \$ ABCD	MPD,TDR,TRN,ops) 1,539 66 19 L ABCD	NK5F 1,969 148 49 R ABCD 6 WB7REL 372 46 18 R BD 3 KB7TJM 207 23 7 R B 3
K9IOG 156 39 4 S B	NØKBD 3,796 146 26 \$ B	Ontario	Southeastern
K9ENZ 136 42 7 S AB	KØJO 3,504 90 24 \$ ABCDE	VE3ASO 103,224 489 132 S ABCD9EFGI	
N9GCF 120 30 4 S B	NØBSG (EN34) 3,164 110 28 S BD	VE3BFM 14,235 120 73 S ABCD9EF	*KS4IS 5,228 140 89 R ABCD9EFG 5
N9VQO 108 36 3 S B	WØPHD 2,356 49 31 S BDE	VE3WCB 11,184 138 48 S ABDEF	AD4DY (+KD4OQW)
N9VQP 72 24 3 S B	NØSRQ 2,240 55 32 \$ BD	VE3RM 7,007 126 49 \$ ABCD	3,088 124 34 R AB 2
WD9GAU 69 23 3 S B	NØVUQ 2,166 102 19 \$ BC	VE3RDH 7,434 177 42 \$ B	WA5PSH 556 33 32 R ABCD 3
N9VYC 60 20 3 S B	KE4KE 1,712 94 16 S BC	VE3GBA 5,530 158 35 S B	KB4PBM 190 19 10 R B 4
K9DKI 42 21 2 S B	WFØH 1,700 61 25 S ABD	VE3FHU 5,330 107 41 S ABCD	WB4WXE 85 14 5 R ABC 2
KB9FKO 10 5 2 S B	KØFQA 1,672 48 22 S ABEF	VE3TMG 4,608 122 36 S ABC	Southwestern
*N8KWX 2,700 160 12 Q BCD	KCØP 1,659 57 21 S ABCDE	VE3SCP 4,173 89 39 S BD	
*K9HMB (+K9PW,WB9TIY,WV9T)	NØVUR 1,530 93 15 \$ BC	VESSUE 4,140 104 36 S ABD	KEGILX 13,561 389 219 R ABD 9
142,552 632 173 L ABCD	NØSPE 1,504 80 16 \$ ABD	VESOJN 2,820 84 30 S ABD	KD6DYK 4,020 87 30 R BCD 4
N2BJ (+N2CIX)	NØNAS 1,480 119 10 \$ ABD	VE3VHB 1,029 49 21 S B	KD6YOB 1,781 228 130 R ABCE 7
9,652 195 38 L ABCD	WSØH 1,368 36 19 \$ ABCDE	VE3FVW 770 34 14 S ABDE	KD6NHK (+KE6HGV)
N9KJE (N9s LAG,RBE,ops)	NØMWE 1,188 108 11 S AB	VE3NPB (+VE3NPB)	1,499 128 35 R BCD 5
3,120 82 30 L ABCD	KCØZC 1,152 129 8 S BD	2,675 82 25 M ABCDL	N7QJP (+N7SKT)
N9WQI (+N9s ROR,SXF,ZBS,ZOK)	WØOHU 1,118 67 13 \$ BD	VE3GRQ (+VE3s EPB,FFK)	1,093 87 56 R ABD 6
903 129 7 L B	KGØBG 1,040 52 20 \$ B	230 23 10 L AB	N6NB 7 14 5 R B 2
Indiana	WBØHOX 1,000 115 8 \$ BD	Manitoba	West Gulf
N3AJX 16,698 180 69 S B DE	WBØSOK 948 72 12 \$ BD		KB5UBE 3,146 75 23 R ABCDEFGHIJP 2
KC9RT 9,240 149 55 S ABD	KAØNAN 936 64 12 S ABD	VE4ZK 3,472 119 16 S ABD	WB5LUA 2,474 103 53 R ABDEFGHJP 6
K9DZE 9,168 153 48 S ABD	WØ/G4JEC 936 49 12 S BDE	VE4KQ 3,393 65 29 S ABCDEFG	
KB9FZQ 6,858 102 54 S ABD	NØOYQ 828 33 18 \$ ABCD	VE4AQ 1.175 47 25 S AB	Q5T-
WB8YFE 5,040 84 48 S ABD	WGØD 820 54 10 \$ BDE	VE4AOJ 630 37 14 S BD	