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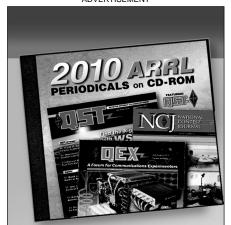
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Author: Billy Lunt, KR1R

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1996 ARRL November Sweepstakes Phone Results

By Randall A. Thompson, K5ZD

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> Billy Lunt, KR1R Contest Manager

lan's body ached and his movements had become almost automatic. His blurry eyes were focused intently on the computer screen sitting above the radio. Information flowed without hesitation from the headphones directly to his fingers. After nearly 24 hours in the operating chair, he no longer had to think about the mechanics of logging each OSO.

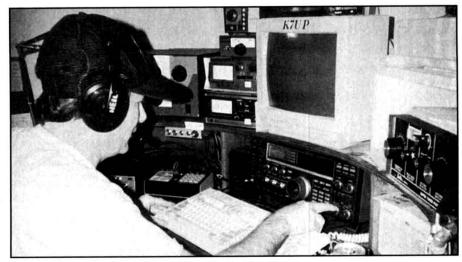
It was the third weekend of November and Alan was nearing completion of the 1996 version of his annual love affair with the ARRL November Sweepstakes. The long exchange of number, precedence, call, check, and section was not only a challenge to copy, but to say as well. He wondered which hurt more—his throat, his ears or his back.

Despite the minor discomforts, Alan was having a blast. He was nearing a personal-best QSO total. He needed only one more section to have the Clean Sweep and earn a coffee mug. The challenge of competing against himself, other competitors, propagation, equipment failures, and a long tradition kept him coming back year after year.

With only a short time left to go, Alan began tuning for the missing section. He passed across the big signals of the high power entrants with their amazingly high numbers. With all the new vanity call signs it was hard to tell who was who. He stopped and listened to N7TR in Nevada. "That sure sounds like KI3V," he thought. A few kilohertz later he found N2IC in Colorado. He stopped for a moment to listen with N7TR in one VFO and N2IC in the other. They were in a close race and begging for every last QSO. It was like watching two thoroughbreds pounding down the stretch. Alan also heard K9RS giving out big numbers. While you could never tell exactly where everyone stood until the end of the contest, having the QSO number in the exchange made it easy to follow the progress of the leaders—as well as the competition across town.

Thinking of his competition, Alan refocused on finding the last multiplier to improve his score. "Should I call CQ and hope it comes to me, or tune and try to find it?" Alan considered. It was a strategy decision he was constantly evaluating. There were always new stations that showed up just for the fun of being fresh meat during the final hours. Some of them call CQ and let the big scorers find them, while others are content to tune up the band and answer. Alan decided to tune quickly and keep an ear out for a clear frequency where he could call CQ.

As the minutes ticked down, Alan's ex-



Mike, W5FX, at the helm of the K7UP effort in New Mexico.

citement level kept rising. With each QSO added to the log he raised his personal-best for *contacts*, but still needed that last multiplier to accomplish a personal-best *score*. His eyes narrowed and the minor aches and pains were completely forgotten. Alan really wanted to add to his set of Clean Sweep coffee mugs and he was trying everything he could think of to entice that last section into his log. "This," thought Alan, "is fun!"

High Power Category

Yes, Alan, N7TR is the new call sign of Rich, KI3V, perennial top-ten ace and former SS phone champion (1993). Rich initiated his new call sign in a big way with a narrow victory in the high power category. Rich started off with 173 QSOs in the first hour of the contest and his first six hours were each over 100 – that's some fast talking!

Right on his tail the entire way was another prior SS phone winner Steve, N2IC. Steve had a personal-best 175 QSOs in the first hour and was never more than 25 QSOs behind Rich throughout the contest. After finishing second last year, Steve had high hopes

to move into the top spot this time. Perhaps not having a new call sign to debut was the difference.

Third place went to Steve's WRTC-96 operating partner, Dave, K6LL. Every year Dave makes incredible scores from his Arizona home using just a tribander and wire antennas. Over the last 10 years, he has national finishes of third, third, fourth, fourth, third, fourth, second, second, sixth and third. This amazing record of performance deserves a first-place finish—maybe next year.

Jon, N5JA (ex-AA5BL), put a shine on his new call sign by fighting through a series of broken antennas and unheard alarm clocks to repeat his fourth-place finish of a year ago. He had over 1000 QSOs on both 20 and 40 meters, which is probably the first time this double has ever occurred in the SS.

Gary, VE7NTT, piloted VE7SZ to fifth place and the first appearance of a Canadian entry to the top ten in over 10 years! Todd, WDØT, operated WØSD to the exact same score as last year and moved up a place to sixth. George, WB5VZL, introduced his new K5TR call to finish seventh.

Top Ten Single Operator, QRP		Single Operator,		Single Operator,			
		Low Power		High Power	Multioperator		
W7YAQ	104.720	WP2Z (K8MJZ.op)	243.320	N7TR	354,276	K9RS	355,524
K5ED	85,500	VE4GV	231,770	N2IC	352,092	W5WMU	326,664
N7MZW	69.864	K7FR	225.888	K6LL	338,364	KW8N	325,728
K7MM	62.928	K7QQ	225,264	N5JA	330,564	K6RCC	323,388
K5IID	56,672	NA5S (KE5CV.op)	221,052	VE7SZ (VE7NTT.op)	325,260	W3GH	319,176
K5OT	55,328	KK9A	216.528	WØSD (WDØT.op)	321,048	W4WA	303,108
AA7VY	52.052	W7ZRC	215,748	K5TR (at W5KFT)	319,550	N4ZZ	292,344
WIVT	51,208	NØAT	213.096	K5RX	309,192	W7GG	282,828
KD2TT	50,100	N5DX	207.792	N5KA (at N3BB)	306,228	KØTQ	278,148
KX9X	48,706	WA4ZXA	191,568	K4VX (K9PG,op)	297,492	K5MR	268,320

Top Five-Phone

Boxes list call sign, score and class (Q = QRP, A= Low Power, B = High Power, M = Multieoperator).

Northeast Re (New England Atlantic Division and Quebec	d, Hudson a sions; Marif		Southeast Re (Delta, Roand Southeastern	ke and		Central Regi (Central and Divisions; Or	Great Lake		Midwest Regi (Dakota, Midw Mountain and Divisions; Ma Saskatchewa	vest, Rocky West Gulf Initoba and		West Coast I (Pacific, Nor Southwester Alberta, Briti NWT/Yukon	thwestern a n Divisions sh Columb	;
W1VT	51,208	Q	K5IID	56,672	Q	KX9X	48,706	Q	K5ED	85,500	Q	W7YAQ	104,720	Q
KD2TT	50.100	ã	KT4LD	39,936	ã	WA8RJF	31,950	Q	N7MZW	69,864	Q	K7MM	62,928	Q
W2CE	32,412	ã	KS4DU	12,036	ã	K8LJQ	19,440	ã	K5OT	55,328	Q	AA7VY	52,052	Q
WZ2T	25.172	ă	N34D0	12,000	· ·	N8JM	12,600	õ	AB5WB	45,440	Q	W6CN	35,520	Q
N3IGA	23,048	ã				W9DZ	12,400	ã	WOCO	42,624	Q	K7RAT (N6TR,op)	34,272	Q
K1RA	174.096	Α	WP2Z	243.320	Α	KK9A	216,528	Α	VE4GV	231,770	Α	K7FR	225,888	A
KZ1M	171,444	A	(K8MJZ,op)	245,520		W8MJ	190,632	A	NA5S	221,052	A	K7QQ	225,264	Α
N5OKR/3	120,900	A	N5DX	207.792	Α	K8JZ	175,656	A	(KE5CV,op)			W7ZRC	215,748	Α
W2EQ	119.016	A	WA4ZXA	191.568	A	WAØAVL	133,848	A	NOAT	213.096	A	VA6JO	180,180	A
WASHAE	115,284	Â	AB5SE	144,760	Â	WA1UJU	131,516	A	WAØX	181,272	Α	K6RO	170,352	A
WASTIAL	110,204	~	WO40	123,864	A	WATOOO	101,010		K7CF	168,636	Α			
			W040	125,004					100.00	MACCONT.				
WB2K	280.332	В	K4AB	282.828	В	WE9V	292.344	В	N2IC	352.092	В	N7TR	354,276	В
K3MM	256,308	В	K4VUD	274.092	В	(at KS9K)	202,011		N5JA	330.564	В	K6LL	338.364	В
WB1GQR	250,068	В	N4UK	265,696	В	KBCC	272.064	В	WØSD	321,048	В	VE7SZ	325,260	В
(W1SJ.op)	250,000		K4ZA	259,428	В	(K9TM,op)	2,2,001	_	(WDØT.op)		355	(VE7NTT,o	p)	
AB2E	226,200	В	W4MYA	255,528	В	AABU	247,572	В	K5TR	319,550	В	WC6H	292,138	В
KQ2M	204,000	В	AA-HINI I W	200,020	D	K9BGL	234,780	В	(at W5KFT)		177	W7RM	291,564	В
NGZW	204,000	U				K8MZ	223.860	В	K5RX	309,192	В	(K7ST.op)		
						KOWIZ	220,000	U	1101111	0001.00	-	1		
W3GH	319,176	M	W5WMU	326.664	M	KW8N	325,728	M	K9RS	355,524	M	K6RCC	323,388	M
K3CR	261,612	M	W4WA	303,108	M	NU8Z	246,480	M	KOTO	278,148	M	W7GG	282,828	M
KE3Q	254,592	M	N4ZZ	292,344	M	KG8CW	233.064	M	K5MR	268,320	M	N6KI	265,512	M
K1NG	240.396	M	N4CM	238,524	M	W8JJ	200.460	M	K5DU	242,112	M	K7IR	254,592	M
K1BQ	230,880	M	K1GG	222,456	M	N9QX	195,624	M	WØGG	204,516	M	W6UE	245,856	M
111111111		(3.53.)		,,,,,		ranand.		117.55	40000000000	Determination:	340400	115 MI-16		

The notable scores from "back east" were WE9V, who finished 12th, and WB2K in 18th place. Without the short skip of the past two years and the long skip on 75 meters after dark, the East Coast had none of the tools it needed to keep up with the south and west.

Low Power Category

Victory in the low power competition was a classic battle between warm tropical breezes and frigid blowing snow. Stan, K8MJZ, headed south from his Michigan home to operate WP2Z in the Virgin Islands. This was the same station that K8HVT used to win the CW low power category just two weeks earlier. Stan made most of his contacts on 15 meters, where he enjoyed a significant propagation advantage and low QRM. Too bad he missed nearby KP4 for the Sweep!

Meanwhile, last year's low power champion Rob, VE4GV, was just trying to keep his antennas pointing the correct direction in a snowstorm and 60 mph winds. He blames missing KH6 on not being able to get the beam to turn past north because of the wind. Rob made all but 12 of his contacts on 20 and 40 meters, to finish in second place.

The race for third was an exciting photo finish between Gary, K7FR, in Eastern Washington and Rex, K7QQ, in Western Washington. After 24 hours of intense operating, they ended up only four contacts apart! Gary achieved a personal-best score and beat one of his contesting heroes. As he put it, "This was absolutely the best SS ever!" Rex won the low power category back in 1993 and is sure to request a rematch. Competition is what contesting is all about.

Fifth place went to Mike, KE5CV, operating NA5S in North Texas. KK9A submitted the best score from the "black hole" of the Midwest and earned the number six spot. Special recognition is due to Jim, WA4ZXA,



Jean, AA8KI, and Peg, KB8NPA, (I-r, standing) look on as Judy, KC8BOM; Byrness, W8LE(hidden); and Carol, KB8VYB (seated, foreground); operate the Buckeye Belles station, W8MBI.

who finished in tenth place. Not only did he have the best score from the eastern half of the country, but did it while operating under the influence of medication to fight the pain of a kidney stone. Ouch!

QRP Category

The QRP category went to the guy who wanted it the most. Bob, W7YAQ, operated the full 24 hours allowed by the rules to earn the victory. Bob is an experienced SS QRP entrant who moved up from finishing third last year. Even though he missed Maritime for the Sweep, a healthy QSO advantage allowed him to cruise in for a clear victory. K5ED operated only 18 hours and missed two sections, but still captured enough QSOs to finish second. Charles, N7MZW, took advantage of being in the relatively rare Wyoming Section to finish third, just ahead of K7MM in Eastern Washington. Best score from the Northeast was Zack, W1VT, who finished in eighth, a bit ahead of KD2TT. No one in the QRP top ten managed to capture a Clean Sweep of all sections.

Multi-Operator Category

The multi-operator champion was again the team at K9RS—for the third year in a row! With their dynasty ended on CW (where they use the call sign AA5B), the New Mexico boys are now the ones to beat on phone. Second place belongs to W5WMU in Louisiana, who moved into the multi-op category for the first time after many years of high power single op success. The KW8N gang in Ohio takes third, just ahead of the River City Contesters at K6RCC.

Regional Competition

In the Northeast region, K1RA dominated the low power category. WB2K operated from K2WK to win high power with a personal-best score. W3GH took the region's multi-op honors for the fourth time in a row.

Down in the Southeast, WP2Z got by newcomer N5DX for low power. K4AB won high power over a super-competitive pack of ops. W4WA and N4ZZ gave chase to W5WMU in the multi-op category.

The Central region featured KK9A's nice low power score, with W8MJ not far behind. WE9V operating at KS9K and K9TM at K8CC duplicated their one-two finish of a year ago. KW8N continued to dominate multi-op for the region.

In the Midwest, all five members of the high power box also made the national top ten! NØAT, KØHB, and NØIJ had a friendly competition and all finished within a few QSOs. NØAT gets the moral victory and bragging rights, since he was running only low power. This region had the best collection of ORP scores.

Out West there were some real shootouts! K7FR took low power honors. N7TR led the high power race over Arizona "sharpshooter"

ARRL November Sweepstakes Plaque Winners

Listed below are all of the plaque category winners. Only plaques with sponsors will be awarded. If you have won a plaque category without a sponsor, you may purchase your own plaque. The cost is \$50 per plaque. If you, your club, or business is interested in sponsoring any of the unsponsored plaques call Billy Lunt, KR1R, at ARRL HQ.

Category	Winner	Donor	Category	Winner	Donor
Overall QRP Phone Low Power Phone High Power Phone Multioperator Phone	W7YAQ WP2Z (K8MJZ,op) N7TR K9RS	ARRL ARRL Carl Cook, Al6V Central Texas DX & Contest Club	Northwestern Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	K7MM K7FR N9ITX/7 W7GG	Steve Morris, K7LXC, and Tower Tech
Atlantic Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	W2CE K1RA K3MM W3GH	Potomac Valley Radio Club North Coast Contesters Mark Sickmeyer, KB3GJ, Memorial	Pacific Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	WB6FZH/KH6 W6PYX WC6H K6RCC	Jim Hollenback, WA6SDM Richard Hallman, N7TR
Central Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	KX9X KK9A WE9V (at KS9K) N9QX	Society of Midwest Contesters	Roanoke Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	K5IID WA4ZXA N4UK K1GG	Jim Stevens, K4MA Potomac Valley Radio Club Shenandoah Valley ARC
Dakota Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	WØYHE NØAT WØSD (WDØT,op) KRØB	Tod Olson, KØTO Twin City FM Club Minnesota Wireless Assn, WØAA Minnesota Wireless Assn, WØAA	Rocky Mountain Divis QRP Phone Low Power Phone High Power Phone Multioperator Phone	ion N7MZW K7CF N2IC WØGG	
Delta Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	N5DX WA5OYU W5WMU	Pat Sonnier, W5WMU	Southeastern Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	KD3GC K4AB W4WA	
Great Lakes Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	WA8RJF W8MJ K8CC (K9TM,op) KW8N	Mad River Radio Club North Coast Contesters	Southwestern Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	n AA7VY K6RO K6LL N6KI	Ray Day, N6HE, and Donna Day, N6HTH
Hudson Division QRP Phone Low Power Phone High Power Phone Multioperator Phone	KD2TT W2EQ WB2K KY2J	Troy ARA John Hults, K2WJ Hudson Valley Contesters and DXers	West Gulf Division QRP Phone Low Power Phone High Power Phone	K5ED NA5S N5JA	D. Craig Boyer, AH9B Leo E. Oyler Jr, W0GOW—W5RO Memorial
Midwest Division QRP Phone	NØEID		Multioperator Phone	K5MR	Oklahoma DX Assn
Low Power Phone High Power Phone Multioperator Phone	WAØX K4VX (K9PG,op) KØTQ		Canada QRP Phone Low Power Phone High Power Phone	VE6GK VE4GV VE7SC	Sam Ferris, VE5SF D. Craig Boyer, AH9B
New England Division QRP Phone	W1VT		Multioperator Phone	VAGJY	
Low Power Phone High Power Phone Multioperator Phone	K1VUT WB1GQR (W1SJ.op) K1NG	Ed Parsons, K1TR			

Third Annual Collegiate Championship

The 1996 Collegiate Championships was again held during the ARRL Sweepstakes. This year's event saw two new champions take top billing, with Penn State University, K3CR, taking the Phone and Combined categories, while Caltech, W6UE, was tops on CW.

School participation was up dramatically from last year, with 19 entries on CW and 25 on phone. If you would like to see the Collegiate Championship become an official category of the November Sweepstakes, contact your Contest Advisory Committee representative. For more information and complete results contact Robert Barron, Box 180703, Austin, TX 78718; e-mail barron@liant.com.

Top CW Scores							
Call Sign W6UE	School Caltech	Score 118,872	Conferenc	e			
N4YDU	North Carolina-Charlotte	113,616	ConfUSA				
K3CR	Penn State	112,200	Big10				
W5EHM	Univ of Texas	103,500	Biğ12				
W4ATC	North Carolina State U	91,200	AČC				
W8EDU	Case Western Reserve U	88,242					
Top Pho	ne Scores						
Call Sign	School	Score	Conference	e			
K3CR T	Penn State	261,612	Big10				
W6UE	Caltech	245.856					
W5EHM	Univ of Texas	194,688	Big12				
W5YM	Univ of Arkansas	145,704	SEC				
W1YK	Worcester Poly	139,152	DielMont				
W6BHZ	California Poly	137,060	BigWest				
Top Con	nbined Scores						
Call Sign	School	CW	Phone	Total			
K3CR	Penn State	944	1000	1944			
W6UE	Caltech	1000	940	1940			
W5EHM	Univ of Texas	871	744	1615			
W4ATC	North Carolina State	767	431	1198			
W3EAX	Univ of Maryland	618	322	940			
W6BHZ	California Poly	236	524	760			
Other schools ranked in the combined scores included Baylor University, KC50JY; University of Idaho, W7UQ; University of Chicago. W09S; University of Wisconsin–Milwaukee, WB9JBF; University of Arkansas, W5YM; Harvard, W1AF; Purdue, W9YB; University of Missouri–Rolla. W0EEE; and University of Delaware, WA3GAY.							

K6LL. It's nice to see W7RM's call sign appear in the results, this time with "hired gun" K7ST. Multi-op was a showdown between K6RCC (W6GO in disguise) and W7GG (the new call for A17B).

Club Competition

The Potomac Valley Radio Club turned out an incredible 117 entries to win the Unlimited category of the Affiliated Club Competition. They broke the four-year winning streak of the Northern California Contest Club, which finished second. The rejuvenated Yankee Clipper Contest Club was a strong third. In the Medium club category, the Society of Midwest Contesters bested the North Texas Contest Club in a close race. In the Local category, perennial winner River City Contesters took top honors. Look out for the Central Texas DXers and Contesters, who achieved second place in their first Sweepstakes club entry.

Final Notes

ARRL HQ received 1481 phone entries, consisting of 1162 single operators, 305 multiops, and 14 checklogs. Of the single ops, we had 57 QRP, 796 "A power" (<150 W), and 309 "B power" logs. Special congratulations to all that earned a Participation in No-

Committed Category	Affiliated Club Compet	ition		<u> </u>	· · · · · · · · · · · · · · · · · · ·					
	n an amanda an da am da ana an a	Score	Entries	CW Winner	Phone Winner					
Patient Valley Radio Club						Schenectady ARA	265,008			
Norther California Contest Club					(45500000)	Roanoke Valley ARC	264,914			
Vankec Cipper Contest Club						Fon du Lac ARC				
Mad Herr Fadio Club						Southwest Ohio DX Assn				
Medium Category Medium Category Assession Name of Science of Michael Contesters 4,819,536 43 W®SD (WDDT,op) WSD (WDDT,op) MSSD (WDDT,op)	Yankee Clipper Contest Club					Eastern Iowa DX Assn				
Medium Category	Mad River Radio Club	4,893,534	52	K8CC	K8CC (K9TM,op)	Southern California DX Club	215,608			
Society Midwest Contest Club 3.918,956 43 WSD (WD0T.op) WSD (WD0T.op) MSD (WD0T.										
North Texas Contest Club	200 TO 100 TO 10					Western New York DX Assn				
Southern California Contest Club 3,032,874 23 KBLL KBBPB KBLL KBBPB KBLL KBBPB KBBL KBB						Highland ARA				
Frankforf Andio Club						Ozaukee Radio Club				K9CAN
Minnesola Wireless Assn 2,633,264 25 KOJL NOAT MoAT						Colorado QRP Club				-
Texas DX Society										WW6I
North-Coast Contesters 2,131,830										
Northern New York Contest Club										
Floridad Contest Group										
Rochester (INY) DX Assn										
Western Washington DX Club										
Mile High DX Assn										
Hudson Valley Contesters										
And DXer	Mile High DX Assn									
Woodbridge Wireless	Hudson Valley Contesters	1,230,672	11	NA2N	N2NFG					
Weekend Warriors 1,072,356 10 WA3HAE WA3HAE WA3HAE Wichita ARC 61,112 3 KF0M NIOS Willamette Valley DX Club 1,007,916 8 W7RM (AA7NX,op) K9F Green Valley ARC 22,510 3 — W7ZT Tennessee Contest Group 887,736 NAZZ NAZZ Local Category L	and DXer					Outlaw Wireless League				
Willamette Valley DX Club	Woodbridge Wireless	1,119,530	18	WB4RDV		Lynchburg ARC	69,018			
Tennessee Contest Group	Weekend Warriors	1,072,356	10	WA3HAE						
New Mexico Big River Contest Club	Willamette Valley DX Club	1,007,916		W7RM (AA7NX,op)	K9JF	Green Valley ARC	22,510	3	_	W7ZT
Salt City DX Assn 551,364 11				N4ZZ	_	Land Catanani				
Southeastern DX Club 739,336 9 W4BTZ NaUK Central Texas DX and Contest Club 1,063,546 7 KY7M W7ZMD Nathona DX Assn 690,098 9 K5YAA K5KA Central Arizona DX Assn 953,486 7 KY7M W7ZMD Nashville ARC 655,174 4 WA6KUI W040 Federation of Amateur Radio Operators 737,782 7 K9BGL W9BGL All Murphy's Marauders 625,940 15 K1RM NQ1K Carolina DX Assn 565,754 4 — K4ZA Great Falls Area ARC 317,080 3 AA7BG KJ7VP Northwest ARS 615,334 16 N5BA K5NZ Great Falls Area ARC 317,080 3 AA7BG KJ7VP Vicksburg ARC 239,424 5 W5XX NSODE W5XX N	New Mexico Big River Contest Cli	ub 853,326	3					4.0		
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vember Sweepstakes (PINS) pin! All PINS awards were mailed in January, so you should have received yours by now.

Special thanks to Administrative Assistant Sharon Taratula for her help in preparing the results. Mark your calendar now for the 1997 ARRL November Sweepstakes: CW is November 1 to 3 and Phone is November 15 to 17.

SOAPBOX

On 20 meters, I couldn't get through pileups when calling stations that were S9 + 20 dB-I had better luck with S7 signals on clear frequencies. On 40 meters, I was thrilled with Ohio and Virginia contacts QRP. Thanks to those who turned their beams to bring me through (WB6FZH/KH6). I usually don't do SSB, but I got caught up in the activity (KJ5WX). The bad news is my computer crashed 18 hours into the contest; the good news is that it was three contacts after my Clean Sweep and that it later recovered the log (K9CC). This was my first contest with the new call sign, and it sure was nice. I could even finish the exchange without gasping for breath (W4NF). My first SS and I had a blast. VY2LI). Fifteen meters was in fantastic shape Sunday afternoon, Even without 20 meters, I worked 62 sections in eight hours (AA9RB). I need a new call sign; no one gets this one right (AC4OC). Had to use a standby rig with hand mike. The ice storm froze the Yagi to NW and raised the SWR on all my antennas; when it melted, the power blips reset the computer for a while. Is that enough excuses? (KØBJ). The "honey do" list included getting my wife's car inspected, handling the storm windows, and going to the doctor. Still I squeezed in 12+hours. What a contest! (KD3VX). My first-ever Sweep...and it felt good (N1NQD). Finally-a



Is this picture before or after the contest? Bob, W7LRD, still looks refreshed and ready to go.

Clean Sweep (K9QYC). I woke up on Sunday morning with a kidney stone. Went to the ER and came back and finished the contest. It cost me two hours operating time and stopped me from breaking 200k. I feel I deserve the Ironman Award at least for this test (WA4ZXA). Once again, I missed the sweep by one section; this time it was North Dakota. Special thanks to the neighbors for letting me "string" the 40 and 80 meter wires across their yards (WA3SES). As it is each year, SS was a lot of fun. This year was even more special, as I have a new vanity call sign (K1GG). An incredible luxury to have a short call sign! What a difference from CW-I could find Wyoming. More Wyoming than Montana this time, as a matter of fact (N4AF). The closest I have been to a Clean Sweep. I hope that, next year, I can qualify for that Clean Sweep coffee mug (VE6DBH). We drove over 500 miles to ND,

survived and operated a portable station through a blizzard, and had a very good time. We want to thank the ARRL for running this contest (KIØBZ). Once again foiled by Alaska, Quebec and the Yukon (AD4DG). Being a little gun is still fun. The big stations are looking for you. But by Sunday night, the contacts were extremely hard to come by (AA9RK). First contest with my new call sign. Many fewer requests to repeat my section than when I was K8JLF. I also learned what other call signs K1HT can be confused with (K1HT). Where were Northern New York, Quebec and Delaware? I was those three short of a Clean Sweep...but not bad, considering this was the first time I really attempted to win the coveted coffee mug. I was wishing for that mug to be delivered at 1300Z, full of double-caffeinated coffee (KC6VVT). First time running two radios simultaneously. Some confusing moments, but it's the way to go (K2UF). A great time was had by all. The first contact after getting up on Sunday was NP4A for the Clean Sweep. My eyes were still half closed (NU8Z). Nothing like having to check into the club net to work one's own section for a multiplier. QRP on 160, etc., was nice for laughs; in SS, it is a lesson in frustration (W2CE). Using my new call sign on the air for the first time took some getting used to. The conditions were definitely not as good from the Northwest as they were in the CW SS (K7NT). New call sign worked FB (K5ZO). Drat! I missed VY1/ VE8. I was trying to do 78 sections with 78 contacts, as I couldn't spend a lot of time contesting this weekend (VE9AA). Lots of fun with my 1×2 call sign (N9CO). If I'm going to start working phone contests, I will have to get another mike. Push-to-talk with a hand mike makes computer logging a real challenge (KK4R). Halfway through the run on 40 meters Sunday, my throat became very sore. Habit got the better of me, as I hit the foot switch while making an emergency call to my wife using the shack phone. So the folks on my fre-

quency heard "CQ contest from KS4XG. Bring me a can of soda quick. I'm dying!" (KS4XG). Just searched and pounced, with limited time to operate (W8FN), I'm amazed at the number of QSOs made with poor antennas at the bottom of the cycle. Really looking forward to the operating next year, with aluminum instead of wire antennas (KQ2M). First-ever single op all-out effort for SS. After a marathon week of station/antenna rebuilding/ improvements...and it all paid off (KJ4VG). Four-teen new states! Please return QSLs, gang (KT4OC). Being an older ham and a computer "illiterate" with an old XT computer, I could use lotsa practice. I hope all the attachments are the correct ones (KC3LV). Thunderstorms kept me from getting on the air until Sunday morning. Then big trouble caused me to miss QSOs Sunday afternoon (KC5OZT). After 34 years, my first SS. Great fun; I'm waiting for next year (WA5DJU). I worked three more telephones, two TVs, and one VCR toward my "RFICC." (W9UR). First serious phone SS for me in 10 years. Forty meters was very poor here in VE7, but 20 was really, really fantastic (VE7SC). Operating portable at Mount Peavine, near Reno, Nevada, at 7800 feet. In and out via four-wheel drive, which was also the operating shack. Experienced snow, freezing rain, and 50 mph winds. It was cold. It was worth it (W6IXP/7). Made a couple of tactical errors but won't ever make them again. Lots of comments about being

the last for the Sweep. Didn't think South Carolina was all that rare (N4UK). My first November SS, and I had a ball! Special thanks to N5FG in Mississippi for his patience while I battled QRM for his multiplier (KE4JZY). Achieved my goal of 100 QSOs. Enjoyed every minute of it (WA3RBK). Fifteen and 20 meters were good during the day-light hours, but nothing could be heard on 10 meters. However, the contest was still fun (VE6ATT). The goal for next year will be to increase my QSO rate by 20% (AA8R). My amplifier started arcing within the first hour. I fixed it, then it started arcing again later. Murphy was here this year (KFØGV). Was anyone operating from the Virgin Islands? (ACØE). I'm not cutthroat enough to pile in or belly up yet. But I was excited by all the adrenaline flowing and the good attitudes displayed by the contesters. I was amazed by someone who had a "flying saucer sound effect" trying to clean out a frequency (WB9YSM). It took me several dozen contacts to get used to saying my new vanity call sign (K9ARF). I worked Montana, Wyoming, Manitoba and then the Yukon within my first five QSOs of the contest. What a bummer. Now I had no excuse to miss the Sweep (N3RR). By far and away, the Sweep was a real thrill and a moment I will always remember. Thanks to Jay, VY1JA, for the Magic Moment (KK5GT). Had a blast...literally—80+ mph winds three hours into

the contest (NY5B). The extra section this year made it that much harder to get a Sweep (KB4GID). Puerto Rico must have went on strike-we never heard them (NJ5S). Five watts is a whole lot easier when you're sitting in Wyoming (N7MZW). The flu sure cuts down on operating time (NA2Q). The good news-I worked 77 sections. The bad newsthis year there were 78. Where was Quebec? (KG8QL). Thank goodness for Beverage antennas; they certainly helped on 75 meters (W8MJ). Wow! What happened to 40 meters on Saturday night? (KG8CW). Unfortunately, many didn't hear me calling, with my 100 W from Northern New York. I did my best to get everyone in my log (K2NNY). It sure is sweet to work a Clean Sweep. Thanks to all! (VE3VET). This is still a fun contest, even with low sunspots (KK9A). I finally got my 16-year-old son to operate in a contest. His involvement meant more to me than the score (W4DC). A real treat for my first contact to be VYIJA (WØGG). It's amazing how stuff works until you really need it. My home-brew headset-to-radio adapter went intermittent in the second hour. Fortunately, I had a backup adapter-but who knows how many QSOs I missed before I discovered the problem? (KE4OAR). Great couple of hours on 15 meters. My local noise temporarily gone and good conditions yielded about 100 QSOs per hour for a few hours (W7ZMD).

K2NNY (+KA2IYB.N2PEB.ops)

Scores

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

66 700 307 70 04 A NOMET (LOST)

USA	K1TH (+net)	N1RJF 55,728 387 72 24 A	N2MFZ (+net) 45.150 301 75 18 A	K2NNY (+KA2IYB,N2PEB,ops) 74,724 479 78 24 A
1	59,736 393 76 10 B N1RR (+K9NW)	W1SA 28,680 239 60 7 A N1MR (KB1BMO, op)	45,150 301 75 18 A WB2KDD (+net)	WN2R (+net)
•	34,840 260 67 5 B	24,552 198 62 23 A	34,200 228 75 10 B	10,200 102 50 7 A
Connecticut	W1AF (KO10, KC5DJM, N1s EXQ, XDB,	WA1ITZ 9,324 111 42 6 A	W2WC (+net)	NYC-Long Island
W1VT 51,208 346 74 24 Q	ops) 27,136 212 64 24 A	WD400D (W401)	22,776 146 78 24 A KB2KDY (+KB2s JZJ,SRC)	KD2TT 50,100 334 75 16 Q
AB11 18,880 160 59 11 Q N1KLB 6,240 80 39 24 Q	WT10 (+KA1ZAK,KV1X,N1KRT) 24,190 205 59 24 A	WB1GQR (W1SJ,op) 250,068 1603 78 24 B	22,750 175 65 19 A	AA2VK 13,056 136 48 19 Q
N1KLB 6,240 80 39 24 Q	AE1M (+net)	250,000 1000 10 24 2	KB2USV (K2s PC,POF,ops)	N2KPY 11.016 108 51 9 Q
W1XF 57,760 380 76 14 A	23,088 148 78 14 B	W1US (+K1LOM)	7,622 103 37 24 A	W2HLI 300 15 10 1 Q
NX1Q 43,200 300 72 10 A	W1BP (+W1BJ)	111,264 732 76 20 B	Northern New Jersey	KS2G 57,600 400 72 13 A
W1ECH 36,062 247 73 9 A	9,000 100 45 12 A K9NW/1 (+N1RR)	WX1O (+WE3Z) 56,160 360 78 21 A	KF2HC 8,140 110 37 8 Q	WB2AYQ 29,346 201 73 19 A
N2BQA 34,164 234 73 17 A W3EP 32,550 217 75 9 A	5,400 75 36 2 B		WA2ASQ 4,050 75 27 6 Q	WA2CNV 26,928 204 66 15 A
AB1U 19,154 157 61 8 A	-,	Western Massachusetts		W2BZH 24,522 183 67 13 A
KE1AU 15,360 128 60 8 A	Maine	KZ1M 171,444 1099 78 24 A	K5KG 87,096 573 76 22 A	KA2D 20.480 160 64 9 A N2PAE 11,400 114 50 15 A
W1JN 8,640 108 40 6 A	KD1O 37,752 286 66 24 A W1LEE 28,544 223 64 19 A	K5ZD 77.818 533 73 8 B	K2WA 43,260 309 70 21 A WB2RQX 31,668 203 78 24 A	N2KYP 9,460 110 43 7 A
KD1XS 8,364 102 41 5 A K1KAV 4,810 65 37 7 A	N1MHB 10.648 121 44 10 A	K5ZD 77,818 533 73 8 B	N2ULW 21,452 173 62 24 A	N2TO 8,976 102 44 8 A
K1KAV 4,810 65 37 7 A K1DII 2,240 40 28 2 A	N1LGN 7,600 100 38 4 A	W1YK (KA1s WIG,YTR,N1s TLE.RRS.	N3RB 12,000 125 48 10 A	WB2ZTH 6,762 69 49 18 A
(10)		WHI,N3VUN,W1NT,ops)	W2YWC 11,130 105 53 6 A	K2HVN 2,756 53 26 2 A W2TNI 2,300 50 23 24 A
KQ2M 204,000 1360 75 21 B	K1JB 30,820 230 67 6 B	139,152 892 78 24 B	N2NYR 11,000 110 50 5 A K2BOG 10,920 105 52 7 A	W2TNI 2,300 50 23 24 A
W1QK 75,696 498 76 24 B	K1RQ (+KB1W.NJ1F)	K1TTT (+net) 42,504 276 77 7 B	N2ELW 9,360 104 45 9 A	K2AU 42,000 280 75 13 B
NQ1K 68,096 448 76 14 B N8RA 57,684 418 69 9 B	230,880 1480 78 24 B	42,504 270 77 7 5	N2XSE 7,134 87 41 8 A	
KINYK 45,240 348 65 9 B	KS9Z/1 (+net)	2	WA2FVL 3,400 50 34 24 A	WA2SYN (+WM2V)
N1JW 16,464 147 56 5 B	58,812 377 78 12 B		W2LRO 1,886 41 23 2 A	158,808 1018 78 22 B AD2S (+KA2UYI)
KC1OH 11,280 120 47 6 B	W1EJ (+N1s JRO,KHU,YAP,XMQ, NQ1L,WA1ERJ)	Eastern New York	WB2K 280,332 1797 78 24 B	74.000 500 74 14 B
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KE1FK,N1HRA,ops)	•	KD2IX 6,240 78 40 24 Q	NN2T 31 200 200 78 24 B	40,896 288 71 19 A
110,604 709 78 24 B	New Hampshire	W2EQ 119,016 783 76 24 A	W2HCA 21,248 166 64 8 B	K2QMF (+net) 22.946 149 77 10 B
N1NQD (+net)	KT1H 15,748 127 62 9 Q	K2UF 87,360 560 78 23 A	N2BIM 12,168 78 78 8 B	N2LSK (+KA2GWM)
54,600 350 78 20 B	WA1S 74,460 510 73 9 A	WB2LBF 55,950 373 75 24 A	KB2POP (+net)	22.784 178 64 13 A
W1NG (+net)		WD2K 28,000 200 70 21 A	(IDEI OI (IIIO)	HARL I KROVENO
40.716 261 78 24 B	WB1GEX 41.172 282 73 19 A		124,800 800 78 15 A	K2DL (+KB2YDV)
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N1MM (+net) 37.268 242 77 24 8 N1MD (+net) 23,8556 168 71 24 B K1DW (+net) 15,504 152 51 5 A WA1PMA (+net) 12,324 79 78 8 B WS1F (+ops) 12,168 78 78 10 B Eastern Massachusetts K1VUT 106,580 730 73 24 A K1EP 52,592 346 76 23 A W1EM 30,380 217 70 15 A K1HT 27,648 216 64 8 A W1TH 28,600 200 64 8 A W1TH 28,600 200 64 8 A W1TH 28,600 200 64 8 A W1TH 28,601 200 64 8 A W1TH 28,601 65 61 81 37 5 5 A KC1SQ 15,618 137 5 5 A	W1SZ 30,192 204 74 24 A K1CX (KC1F,op) 196,716 1261 78 14 B K1HI 155,694 1011 77 20 B K1OZ 8,282 101 41 4 B (at K1RX) WA1LJD (+WA1LNP) 141,804 909 78 22 B WS1U (+net) 19,032 122 78 10 A Rhode Island KD1IA 10,200 102 50 24 Q K1VSJ 50,544 324 78 15 A AA1PQ 10,848 113 48 24 A WA1HYN 10,800 108 50 4 A WA1BY 10,800 108 50 4 A K1DS 9,072 108 42 5 A K1AM 171,288 1098 78 24 B K1SD 10,646 699 77 18 B W1OP (K1PLX.op)	KF2SC 22,110 165 67 21 A K2GS 21,700 175 62 4 A K2RI 19,032 156 61 10 A K2IK 14,3520 130 52 14 A K2IK 13,520 130 52 14 A K2HLB 11,904 124 48 11 A K2LIL 11,904 12 49 8 A K2CJJ 11,236 106 53 9 A K6ZGP 10,976 112 49 8 A K8ZYR 6,750 75 45 4 A WEZYN 1,482 39 19 3 A WEZON 1,286 794 78 24 B N1CC 82,680 530 78 12 B WA1KKM 70,004 473 74 15 B	N2KJM (+net) 56,240 370 76 13 A N2KJM (+net) 56,240 370 76 13 A AJ2U (+N2KJM) 56,004 359 78 20 B N2CFD (+net) 39,156 251 78 24 B W2YR (+net) 36,750 245 75 22 A N2TTT (+N2NHN) 35,624 73 23 A NN2V (+NOZX) 29,172 187 78 13 B WAZZGO (+net) 20,592 32 78 15 A W2KD (+net) 15,132 97 78 15 A K2ZA (+net) 15,132 97 78 5 A K2MFF (KF2TM, N2SMS, ops) 9,030 105 43 15 O	10,080 105 48 7 A
N1MM (+net) 37.268 242 77 24 B N1MD (+net) 23.856 168 71 24 B K1DW (+net) 15.504 152 51 5 A WA1PMA (+net) 12.324 79 78 8 B WS1F (+ops) 12.168 78 78 10 B Eastern Massachusetts K1VUT 106,580 730 73 24 A K1EP 52.592 346 76 23 A K1EP 52.592 346 76 23 A W1EM 30.380 217 70 15 A K1HT 27.648 216 64 8 A W1EM 30.380 217 70 15 A K1HT 27.648 216 64 8 A W1TM 25.600 200 64 8 A W1TM 25.600 200 64 9 A WZ1K 23.844 184 63 15 A KC1SO 15.618 137 57 5 A WA1OLV 14,418 136 53 6 A AIGE 13.720 140 93 3 A AIGE 14.720 140 93 93 6 A W10CR 2.500 50 25 2 A AIGUCA 3.822 49 39 6 A W1SR 2.500 50 25 2 A	M1SZ 30,192 204 74 24 A K1CX (KC1F,op) 198,716 1261 78 14 B K1HI 155,694 1011 77 20 B K1OZ 8,282 101 41 4 B (at K1FX) WA1LJD (+WA1LNP) 141,804 909 78 22 B WS1U (+net) 19,032 122 78 10 A Rhode Island KD1IA 10,200 102 50 24 Q K1VSJ 50,544 324 78 15 A AAIPQ 10,848 113 48 24 A WA1HYN 10,804 103 48 24 A WA1HYN 10,804 103 48 25 A K1AM 17,1288 1098 78 24 B K1SD 107,646 699 77 18 B W1OP (K1FLX.op) 75,600 504 75 17 B K1MO 31,108 202 77 11 B KA1WIU 14,410 131 55 11 B	KF2SC 22,110 165 67 21 A K2GS 21,700 175 62 4 K2GS 21,700 175 62 4 K2IK 14,336 128 56 10 A KF2WA 13,520 130 52 14 A NZHTG 12,928 134 46 13 A KA2HLB 11,994 124 48 11 A NCG2JJ 11,236 106 53 9 A KB2SSZ 8,554 91 47 11 48 8 A K2YR 6,750 75 45 4 A WBZTCV 1,482 39 19 3 A KF2LW 123,864 794 78 24 B N1CC 82,680 530 78 12 B W2DGJ 72,980 480 76 77 18 B W2DN <td> RZKJM (+net)</td> <td> 10,080 105 48 7 A </td>	RZKJM (+net)	10,080 105 48 7 A
N1MM (+net) 37.268 242 77 24 B N1MD (+net) 23,856 168 71 24 B K1DW (+net) 15,504 152 51 5 A WA1PMA (+net) 12,224 79 78 8 B WS1F (+ops) 12,168 78 78 10 B Eastern Massachusetts K1VUT 106,580 730 73 24 A K1EP 52,592 346 76 23 A W1EM 30,380 217 70 15 A W1HM 30,380 217 70 15 A K1HT 27,648 216 64 8 A W1HT 27,648 116 64 8 A W1H 23,184 1184 63 15 A KC1SO 15,618 137 57 5 A M10EP 11,280 120 47 16 A M10EF 11,280 120 47 16 A M10EF 11,280 120 47 16 A K1HTN 9,870 105 47 7 A M10EV 8,200 82 50 4 A K1HTN 9,870 105 47 7 A M1CEV 8,200 82 50 4 A K1HCO 3,322 49 39 6 A W1SR 2,500 50 25 2 A	M1SZ 30,192 204 74 24 A K1CX (KC1F,op)	KF2ESC 22,110 165 67 21 A K2GS 21,700 175 62 4 A K2HL 1,3520 130 52 14 A A K2HL 11,904 124 48 11 A A A A A A A A	RZKJM (+net)	10,080 105 48 7 A
N1MM (+net) 37.268 242 77 24 B N1MD (+net) 23,856 168 71 24 B K1DW (+net) 15,504 152 51 5 A WA1PMA (+net) 12,324 79 78 B B WS1F (+ops) 12,168 78 78 10 B Eastern Massachusetts K1VUT 106,580 730 73 24 A K1EP 52,592 346 76 23 A W1EM 30,380 217 70 15 A K1HT 27,648 216 64 8 A W1TH 25,600 200 64 9 A WZ1K 23,184 184 63 15 A K01SO 15,618 137 57 5 A WA1OLV 14,416 136 53 6 A AIBE 13,720 140 49 A M10EF 11,280 120 47 16 A K1HTN 9,870 105 47 7 A M10EF 11,280 120 47 16 A K1HTN 9,870 105 47 7 A M10EF 8,200 82 50 4 A K1UCA 3,822 49 39 6 A K1UCA 3,822 49 39 6 A K1UCA 3,822 49 39 6 A M1SR 2,500 50 25 2 4 N1AU 74,314 509 73 16 B	M1SZ 30,192 204 74 24 A K1CX (KC1F,op) 196,716 1261 78 14 B K1HI 155,694 1011 77 20 B K1D 155,694 1011 77 20 B K1D 155,694 1011 77 20 B K1D 2 101 41 4 B MA1LJD (+WA1LNP) 141,804 909 78 22 B WS1U (+net) 19,032 122 78 10 A Rhode Island KDIIA 10,200 102 50 24 Q KIVSJ 50,544 324 78 15 A AAIPO 10,848 113 48 24 A MA1HYN 10,800 108 50 4 A K1DS 9,072 108 42 5 A K1AM 171,288 1098 78 24 B K1SD 107,646 699 77 18 B W1OP (KIPLX,op) 75,600 504 75 17 B K1MO 31,108 202 77 11 B KAIWIU 14,410 131 55 11 B KING (+KISD,KIIG) 240,396 1541 78 24 B	KF2ESC 22,110 165 67 21 A K2GS 21,700 175 62 4 A K2RI 19,032 156 61 10 A K2IK 14,362 130 52 14 A K2IK 13,520 130 52 14 A NZMTG 12,328 134 46 13 A NZAJH 11,904 124 48 11 A NZCJJ 11,236 106 53 9 A B 8 A KB2SS 8.554 91 47 11 A A KB2YR 6,750 75 45 4 A WB2YR 4,782 39 19 3 A K72LW 1,482 39 19 3 A WBT 4 48 11 18 3 A K72LW 1,23,864 794 78 24 B M	RZKJM (+net)	10,080 105 48 7 A
N1MM (+net) 37.268 242 77 24 B N1MD (+net) 23,856 168 71 24 B K1DW (+net) 15,504 152 51 5 A WA1PMA (+net) 12,224 79 78 8 B WS1F (+ops) 12,168 78 78 10 B Eastern Massachusetts K1VUT 106,580 730 73 24 A K1EP 52,592 346 76 23 A W1EM 30,380 217 70 15 A W1HM 30,380 217 70 15 A W1HM 27,648 216 64 8 A W1TI 25,600 200 64 9 A W1TI 25,600 200 64 9 A W1TI 25,618 137 57 5 A W11EM 30,380 217 70 15 A KC1SO 15,618 137 57 5 A M16E 13,720 140 49 3 A M10EF 11,280 120 47 16 A K1HTN 9,870 105 47 7 A K1UCA 3,822 49 39 6 A K1UCA 3,822 49 39 6 A W1SR 2,500 50 25 2 A N1AU 74,314 509 73 16 B NZ1Q 41,138 307 67 7 B NZ1Q 41,138 307 67 7 B NZ1Q 41,138 307 67 7 B K1AJ 21,460 185 58 2 B	M1SZ 30,192 204 74 24 A K1CX (KC1F,op)	KF2ESC 22,110 165 67 21 A	RZKJM (+net)	10,080 105 48 7 A
N1MM (+net) 37.268 242 77 24 B N1MD (+net) 23,856 168 71 24 B K1DW (+net) 15,504 152 51 5 A WA1PMA (+net) 12,324 79 78 B B WS1F (+ops) 12,168 78 78 10 B Eastern Massachusetts K1VUT 106,580 730 73 24 A K1EP 52,592 346 76 23 A W1EM 30,380 217 70 15 A K1HT 27,648 216 64 8 A W1TH 25,600 200 64 9 A WZ1K 23,184 184 63 15 A K01SO 15,618 137 57 5 A WA1OLV 14,416 136 53 6 A AIBE 13,720 140 49 A M10EF 11,280 120 47 16 A K1HTN 9,870 105 47 7 A M10EF 11,280 120 47 16 A K1HTN 9,870 105 47 7 A M10EF 8,200 82 50 4 A K1UCA 3,822 49 39 6 A K1UCA 3,822 49 39 6 A K1UCA 3,822 49 39 6 A M1SR 2,500 50 25 2 4 N1AU 74,314 509 73 16 B	W1SZ 30,192 204 74 24 A	KF2EW 123,864 794 78 124 129 129 130	RZKJM (+net)	10,080 105 48 7 A
N1MM (+net) 37.268 242 77 24 B N1MD (+net) 23.856 168 71 24 B K1DW (+net) 15.504 152 51 5 A WA1PMA (+net) 12.324 79 78 8 8 WS1F (+ops) 12.168 78 78 10 B Eastern Massachusetts K1VUT 106,580 730 73 24 A K1EP 52.592 346 76 23 A W1EM 30,380 217 70 15 A K1HT 27,648 216 64 8 A W1TI 25,600 200 64 9 A W21K 23,184 184 63 15 A W1TI 25,600 200 64 9 A W21K 23,184 184 63 15 A K1SQ 15,618 137 57 5 A K1HT 27,648 216 64 8 A W1TI 25,600 200 64 9 A W21K 23,184 184 63 15 A K1HT 27,648 216 64 8 A W1TI 25,600 200 64 9 A W21K 23,184 184 63 15 A K1HT 9,870 110 49 3 A W10EF 11,280 120 47 16 A K1HTN 9,870 105 47 7 6 A K1HTN 9,870 105 47 7 6 A K1HTN 9,870 105 47 7 6 A K1HTN 9,870 105 47 7 7 B K1HTN 9,870 105 47 7 8 B K1UV 8,034 103 39 2 B W1HP (K1s,KP,OA,KE1BG,N1s,BB,	W1SZ 30,192 204 74 24 A	KF2ESC 22,110 165 67 21 A	RZKJM (+net)	10,080 105 48 7 A
N1MM (+net) 37.268 242 77 24 B N1MD (+net) 23,856 168 71 24 B K1DW (+net) 15,504 152 51 5 A WA1PMA (+net) 12,224 79 78 8 B WS1F (+ops) 12,168 78 78 10 B Eastern Massachusetts K1VUT 106,580 730 73 24 A K1EP 52,592 346 76 23 A W1EM 30,380 217 70 15 A K1HT 27,648 216 64 8 A W1TI 25,600 200 64 9 A W2TIK 23,184 184 63 15 A KC1SQ 15,618 137 57 5 A W1ADU 14,416 136 53 6 A M10EF 11,280 120 47 16 A K1HTN 9,870 105 47 7 B K1HTN 9,870 105 47 8 B K1HTN 9,870 105 47	W1SZ 30,192 204 74 24 A	KF2ESC 22,110 165	RZKJM (+net)	10,080 105 48 7 A

Western New York	N3FSC (+net)	W5SS 33,384 214 78 11 B	KC4MVZ (+KE4s MHO,NNS,YUL) 25,420 205 62 24 B	W4IM (+KC4DCL) 44,488 332 67 18 A
WB2VUO 18,544 152 61 15 Q K2FR 15,960 140 57 5 Q	13,208 127 52 9 A Maryland-DC	WB5RYB 14,190 129 55 7 B W4WA (+AA4GA,N9HZQ)	Southern Florida	WA4QDM (+net) 36,344 236 77 24 A
KB2NU 10,000 100 50 5 Q W2TZ 113,344 736 77 14 A	W2EOS 20,904 156 67 12 Q	303,108 1943 78 24 B W4AQL (KC5PPV,KE4s IWN,TFV, N2NSZ,N4CXF,N7FYT,W4RU,	KN4T 105,144 674 78 18 A WD4AHZ 55,500 370 75 18 A AE4MH 34,320 264 65 18 A	N1KC (+net) 29,484 189 78 17 A
NA2Q 67,932 459 74 14 A WB2WPM 47,268 303 78 24 A	K1RA 174,096 1116 78 24 A N5OKR/3 120,900 775 78 24 A W3KN 100,100 650 77 22 A	WA4KXY,ops) 128,388 823 78 23 B	KR4ZA 16,756 142 59 18 A N4DL 16,588 143 58 9 A	5 Arkansas
KG2AU 45,880 310 74 24 A AE2T 42,090 305 69 24 A KC1ZN 29,118 211 69 24 A	N3UN 59.280 380 78 18 A W3GHR 43,310 305 71 15 A	W4PYM (+KC4GCK,KE4IXE) 35,840 256 70 13 A AE4XO (+KE4WIO)	N1RT 14,896 133 56 24 A W4MK 12,700 127 50 6 A W3DHN 11,770 107 55 8 A	N5DX 207,792 1332 78 24 A AB5SE 144,760 940 77 24 A
W2KA 26,334 209 63 6 A W2IMO 23,100 175 66 10 A	KA3TGY 27,300 195 70 16 A N3HUV 25,620 210 61 13 A	25,568 188 68 10 A Kentucky	K7UPJ 11,424 112 51 5 A WB4BBH 10,608 104 51 6 A	KK5GT 85,176 546 78 22 A N3UQE 20,160 144 70 19 A
N2RMZ 20,096 157 64 10 A KE2UV 18,408 118 78 10 A WF2V 17,554 131 67 8 A	K3HH 21,120 160 66 7 A WD3A 18,560 145 64 8 A N3NT 17,856 144 62 16 A	KD4LHA 97,800 652 75 17 A N4UL 80,100 534 75 20 A	W4EF 8,400 84 50 24 A WW1N 1,728 32 27 2 A	KG5NE 13,130 101 65 10 A KK5XF 11,880 110 54 19 A
N2LQQ 17,442 153 57 13 A KF2EY 13,104 126 52 12 A	W3EE 17,696 158 56 11 A N3MNT 17,632 152 58 7 A	KB4SRE 64,676 437 74 21 A WA4VOC 60,800 400 76 21 A	KD4ZKX/T 16 8 1 6 A N4BP 202,800 1300 78 19 B	KA5QOF 10,300 103 50 11 A KJ5WX 9,000 100 45 9 A K5YRZ 6,768 72 47 7 A
WB2JMX 11,628 114 51 10 A WS2U 11,424 112 51 8 A	WA3YSW 16,240 145 56 8 A W3CP 16,008 138 58 10 A NV3V 12,936 132 49 24 A	AE4GH 45,406 311 73 20 A KQ4MG 44,304 312 71 13 A	K1FIR 11,024 104 53 5 B	WV3B/5 23,546 193 61 7 B
WD2F 11,270 115 49 15 A KF2VX 11,186 119 47 17 A KN2Q 8,256 96 43 4 A	AA3NB 9,870 105 47 24 A WB2DNE 8,610 105 41 24 A	KM4FD 21,000 150 70 13 A KQ4JQ 15,400 154 50 11 A KF8VS 13,824 128 54 9 A	K4OJ (+K1KNQ,KR4YL) 125,424 804 78 20 A WB2QLP (+KE4RGH)	W5YM (AH2AK,K5GOE,KC5s EQJ, LDC,TTQ,KK5PO,N5UWY,ops)
NA2X 2,464 44 28 1 A N2XPP 442 17 13 3 A	WA3WJD 5,846 79 37 4 A	K4AT 13,158 129 51 6 A	61,174 419 73 20 B AD4TR (+net) 44,100 294 75 24 A	145,704 934 78 24 B NSAT (AB5s LE,TR,KC5s CNO,DCI, NLD,N5XAY,ops)
W6XR 203,580 1305 78 15 B K8FC 158,652 1017 78 23 B	K3MM 256,308 1643 78 24 B K3ZO 171,094 1111 77 13 B W3HVQ 106,392 682 78 20 B	KC4DWT 89,376 588 76 18 B AE4RG 58,058 377 77 20 B AE4EY 57,600 400 72 16 B	Tennessee	124,020 795 78 23 B AB5RQ (+KJ5YK,KD5ZM,NO5W)
W2FU 98,592 632 78 10 B AA2IX 91,050 607 75 24 B AJ3K 89,474 581 77 12 B	KØDEQ 80,700 538 75 10 B W9VL 75,184 508 74 13 B	N4XM 11,024 104 53 4 B W4CN (K4AT,KI4DC,KT4GC,	WO4O 123,864 794 78 24 A KE4OAR 59,052 399 74 21 A WD4K 16,740 135 62 24 A	106,548 683 78 24 A Louisiana
K2WN 38,304 252 76 19 B W2EZ 30,814 217 71 16 B	K3IXD 39,576 291 68 11 B	NK4P,ops) 145,080 930 78 24 B	KE4GYR 13,392 124 54 10 A KE4TLY 11,368 116 49 7 A KC4URW 8,400 100 42 8 A	NZ5O 100,562 653 77 20 A N5SMQ 71,700 478 75 24 A KC5ZZ 53,400 356 75 24 A
NA2A 27,720 210 66 8 B WR2V 26,784 216 62 16 B	KE3Q (+net) 254,592 1632 78 21 B W3HR (+net)	WD8JAW (+KC4ZSV,KC8CWK, KE4HQB) 11,440 110 52 24 A	AD4XP 3,640 52 35 4 A KA4MRR 2,050 41 25 4 A	N5MYH 44,696 302 74 17 A N5NA 13,804 119 58 5 A
KG2BW 19,824 168 59 12 B AA2LW 11,210 95 59 5 B	117,000 750 78 18 B K3DI (+WD4IEH)	North Carolina KT4LD 39,936 256 78 13 Q	KA4OTB 35,108 262 67 15 B W4OGG 10,082 71 71 10 B	W5WMU (+KZ5D) 326,664 2094 78 24 B
W2RA (+K2RDT.KB2ZFE,W0VU, WA2s IRC.KAE) 106,704 684 78 24 B	N3RR (+N3KTV) 106,860 685 78 21 B	WA4ZXA 191,568 1228 78 22 A	N4ZZ (+K0EJ) 292,344 1874 78 24 B	AE5T (+KS5L,KA5M,KB5ZRD,KC5s FLN, NBC,KJ5SU) 210,444 1349 78 24 B
AF2K (+net) 78,156 501 78 19 B	ND3F (+N3s OPM,SLN) 103,642 673 77 18 B W3EAX (+NF3I,N3NKI)	N2NFG 117,450 783 75 20 A KS4XG 77.816 548 71 24 A KQ4AV 63,336 406 78 24 A	N4CM (+KD4HIK,KQ4HC) 238,524 1529 78 24 B	K5MC (+K5ELM,KK5CF,W5EW, WA5SXU)
KB2UJG (AB2AA,K2DN,KA1EIX, KB2s AED,FAF,HSX,LUV,N2s MRE, ZPT,WB2OSM,ops)	84,150 561 75 24 A K3KY (+net) 42,560 280 76 24 B	KO4MM 59,598 387 77 21 A KS4RP 52,736 412 64 24 A K4RZ 52,728 338 78 24 A	N4DW (+net) 31,602 229 69 9 A	100,100 650 77 24 B W5GAD (KB4OGM,KC5KWZ, N5s OGW,TEK,UXT,VVB,W5s LMR,
50,100 334 75 24 B AA2MU (+ops) 49,452 317 78 21 B	KB3BLK (KA8YPY,KD3ZS,N3s LDY, LFL,MJA,TZA,W3s DAD,LM,YD,	KZ2I 47,652 361 66 12 A KA4IKH 40,170 309 65 12 A	Virgin Islands WP2Z (K8MJZ,op) 243,320 1580 77 23 A	RMS,WA9TMC,WB9VTN,ops) 78,156 501 78 21 B KI5EE (+KJ5NS)
NG2P (+net) 46,800 300 78 14 B	WI3N,WV3D,ops) 27,792 193 72 15 B KA3TCC (+N3VBG)	KE4JZY 21,868 154 71 20 A N9TMU 20,292 178 57 21 A	KP2N (+NP2s DJ,DZ,IY,WY,WP2s K,X)	26,000 200 65 10 A
WA2ISC (+K2BJ,KB2SWB,N2OMY) 42,700 305 70 17 A W2RW (+WB2KAO)	13,888 124 56 13 A W3UR (+net) 896 32 14 1 A	W2VMX 11,322 111 51 7 A N4UOH 9,492 113 42 24 A AF4D 9,248 68 68 10 A	125,424 804 78 24 B Virginia	Mississippi N5QDE 56,092 379 74 19 A KB5FET 26,928 204 66 17 A
40,950 325 63 8 B K2MP (+net) 31,356 201 78 9 B	Western Pennsylvania KA1NDY 3,584 56 32 24 Q	W4LN 7,208 106 34 9 A KS4S 6,936 102 34 12 A	K4RG 78,936 506 78 23 A KD4HYT 76,368 516 74 12 A K4MW 72,352 476 76 11 A	KJ5RC 19,008 132 72 16 A KB5SQX 8,300 83 50 7 A KB5ZKX/T 24 6 2 3 A
AA2XP (+N2UIO) 28,944 216 67 24 A	WA3HAE 115,284 739 78 24 A ADBJ 111,540 715 78 19 A	W4YE 3,132 54 29 2 A	K4PK 60,750 405 75 21 A KU3M 57,218 427 67 14 A	WA5OYU 159,276 1021 78 21 B
W2SEX (AA2s OT,YW,KA2WCM, KB2s SCN,URI,UZM,ZHR,N2s RZW, WUU,W2OP,WA2WZX,ops)	WASSES 109,032 708 77 23 A N3IXR 87,780 570 77 22 A AA3CE 40,950 273 75 19 A	K4ZA 259,428 1663 78 24 B N4AF 234,156 1501 78 24 B K4MA 221,988 1423 78 24 B	N4MM 55,068 353 78 19 A AD4DG 45,750 305 75 17 A WY2V 43,168 304 71 24 A	N5FG (+KR4QQ,WQ5L) 131,976 846 78 24 A
27,832 196 71 14 A KV2W (+KG2BW) 11,152 136 41 15 A	W3TWI 40,150 275 73 21 A NI3I 27,612 177 78 9 A	N4BNO 76,066 521 73 14 B WF2G 65,660 490 67 9 B N4CW 62,720 448 70 8 B	W4VG 39,200 280 70 14 A KT4CB 33,040 236 70 24 A KC4ZRH 30,100 215 70 24 A	N5KKG (+AC5BN,KB5s IXI, RQL, VLA, KC5KPP) 66,300 425 78 16 A
3	KD3VX 21,774 191 57 13 A W3KWH (K3RYA.op) 11,340 135 42 3 A	AA4S 60,976 412 74 11 B KC4YM 55,160 394 70 19 B	KD4IBI 29,212 218 67 17 A W4VC 28,290 205 69 11 A	New Mexico
Delaware W3DA 60,952 401 76 12 A	KA3UOL 10,406 121 43 10 A WA3RBK 9,064 103 44 12 A KC3LV 3,536 52 34 5 A	KE4RHU 11,760 120 49 7 B W4UW 5,022 81 31 24 B	KS4UW 21,692 187 58 15 A AA4KD 20,740 170 61 13 A	KJSEY 23,436 186 63 11 A
NY3C 12,008 158 38 5 A N9GG 10,622 113 47 5 A	K3UA 15,072 157 48 2 B W3GH (+W9XR) 319,176 2046 78 24 B	W4ATC (AA4NC,AD4RC,KD4SKW, KF4s HQT,MOK,KO4PY,N3QYE.ops) 112,728 732 77 24 B	AE4QS 19,932 151 66 24 A KO4SO 19,840 155 64 12 A WB4ZPF 19,458 141 69 12 A	K7UP (W5FX,op) 283,206 1839 77 24 B K2EI 282,048 1808 78 24 B
W3TT (NY3C,op)	K3CR (KB3AFT,N3OET,NW3Z, WA3FET.ops)	WB8BMV (+net) 104,520 670 78 19 B AC4ZO (+AD4ZE,KE4s DRJ,FCJ,	W4RM 16,800 200 42 4 A K4RDU 15,008 134 56 18 A KE4UVO 13,130 101 65 10 A	K5AM 173,316 1111 78 14 B KB6SS 53,400 356 75 19 B WB5TGL 28,424 209 68 18 B
46,760 334 70 7 B Eastern Pennsylvania	261,612 1677 78 24 B K3MD (+N3PUR) 178,932 1147 78 24 B	N4YTO) 65,208 429 76 24 A W4BFB (KE4LZE,WN4BBJ,WO4G,ops)	K4FPF 12,750 125 51 24 A KT4SC 12,696 138 46 10 A	K9RS (+AA5B,K5TA,AI9X)
N3IGA 23,048 172 67 12 Q K2LNS 74,022 507 73 20 A	W3IQ (+KA3SMF,KE3ED,N3s AZZ, OJL) 50,544 324 78 24 B	39,600 300 66 12 B KQ4K (+KE4s EUH,RRX,YSB,YSC, PTQ,KF4s LIA,LJV,KR4RR,KS4PX)	KE4MIL 11,400 114 50 11 A KK4R 11,280 120 47 8 A W2MG 10,486 107 49 6 A	355,524 2279 78 24 B N5AV (+KN5H) 38,736 269 72 10 B
WA3KWU 66,640 476 70 18 A K3PP 60,528 388 78 18 A	WW3S (+net) 45,240 290 78 15 A	30,810 237 65 24 A KF4HFS (AE4SH,KE4MOY, KF4FUS,ops)	KQ4XJ 10,028 109 46 13 A W4YCZ 9,912 118 42 5 A W4TMN 9,280 116 40 7 A	KC5KKY (+KC5KKX) 15,950 145 55 11 A
NY3Y 47,268 303 78 10 A KE3MX 38,458 287 67 10 A	KE3XS (+KB3A,KE3XZ) 7,920 110 36 24 A	11,336 109 52 24 B Northern Florida	WA@DYJ 9,240 105 44 11 A KS4JB 8,160 102 40 11 A	North Texas K5OT 55,328 364 76 20 Q W0CO 42,624 288 74 21 Q
N3RM 31,200 200 78 11 A KB3AGZ 28,050 187 75 14 A W3DZH 28,000 200 70 12 A	4 Alabama	WB4OMM 99,684 639 78 18 A AB4KL 50,410 355 71 24 A	AE4EW 5,244 69 38 5 A KE4WFO 5,208 62 42 10 A	K3ETS 37,444 253 74 20 Q
K3SV 27,600 200 69 24 A WB3AAK 26,660 215 62 15 A	KR4QI 30,940 238 65 12 A K2RUE 29,736 252 59 24 A	N4EEB 44,460 342 65 5 A WB4ZAY 39,858 273 73 17 A AC4OC 16,016 143 56 24 A	W6IHG 2,520 42 30 12 A N3TG 540 18 15 1 A KO4MR 84 7 6 1 A	NA5S (KE5CV.op) 221,052 1417 78 24 A WD5K 165,048 1058 78 24 A
N3TA 16,060 146 55 11 A N3RN 14,750 125 59 4 A	K1B\$ 10,094 103 49 5 A K4AB 282,828 1813 78 24 B	K2DF 11,130 105 53 24 A WC4E 10,200 100 51 3 A	W2HD 50 5 5 1 A W4MYA 255,528 1638 78 24 B	NT5V 100,152 642 78 13 A NY5B 96,720 620 78 20 A
N3TKK 14,400 144 50 10 A WB3IZF 13,600 136 50 12 A W3RJ 11,514 101 57 24 A	K4JYO 158,808 1018 78 19 B K4NO 109,648 712 77 13 B	N2MJZ 7,568 86 44 12 A K4VUD 274,092 1757 78 24 B	KJ4VG 165,680 1090 76 24 B AA4EL 103,584 664 78 17 B	W5MYA 88,038 603 73 10 A WK5K 43,946 301 73 24 A
KA3TUG 11,232 108 52 10 A WA3HGW 9,976 116 43 6 A	K4NA 26,928 204 66 6 B	W4UEA 14,986 127 59 11 B KA4HHM 9,996 102 49 12 B	K4IQ 93,900 626 75 12 B N3JT 73,000 500 73 8 B K4SO 66,924 429 78 11 B	N5WD 37,200 248 75 18 A N5MTS 36,400 260 70 12 A AB5C 28,392 182 78 12 A
KE3OA 9,360 104 45 6 A N3SIN 7,070 101 35 6 A	KX4M (KA2DRH,N4YO.ops) 199,368 1278 78 24 B W4RJ (+K4ZGB)	AC4QM (+KE4KUH,KO4YX,KS4EL, WD4GDZ)	WA4DAI 47,880 342 70 12 B W2YE 32,982 239 69 10 B	W5ST 24,420 165 74 14 A W5WB 22,464 156 72 15 A
N3KKM 5,688 79 36 4 A AG3G 5,472 72 38 11 A W3RT 3,162 51 31 5 A	165,672 1062 78 19 B AE4WP (+KE4RLL)	138,840 890 78 24 A Puerto Rico	W4ZYT 30,284 226 67 6 B KC4B 27,060 205 66 13 B	NEOP 5,056 79 32 7 A KB5KTY 4,200 60 35 4 A
W3EFY 1,152 32 18 1 A W8IJ 8 2 2 1 A	AD4DA (+AD4DB,KD4WAC,KE4s BEE, FRZ,HBB,HJQ,KF4s HBA,HFF)	WP4LNY 40,128 304 66 24 A NP3CC 29,862 237 63 15 A	W4MPJ 16,500 150 55 16 B N1MHV 15,400 154 50 24 B WA4FRH 9,180 102 45 10 B	KC5OZT 442 17 13 8 A K5AX 309,192 1982 78 24 B
WB3FAA 134,472 862 78 19 B NE3F 101,400 676 75 24 B	30,150 201 75 24 B K4RY (KE4s TNK,USO,KR4Y,ops) 13,230 135 49 24 A	KP4YB 20,500 205 50 24 B South Carolina	K1GG (+net) 222,456 1426 78 24 B	K5ZO 204,828 1313 78 23 B N5KM 204,672 1312 78 21 B W5PLN 115,500 750 77 24 B
WB3EMG 78,128 514 76 20 B K3AR 72,852 467 78 14 B WT3H 10,810 115 47 3 B	Georgia KD3GC 112,650 751 75 19 A	KS4DU 12,036 102 59 7 Q	KF4AGR (KA4RRU,N8NEV,ops) 189,852 1217 78 24 B	W5FO 110,760 710 78 14 B AC5CT 102,054 699 73 22 B
WY3T (+KA3PVA,N3KGL,WR3H) 142,296 924 77 24 B	K4BAI 62,308 421 74 16 A AA4LR 61,716 417 74 16 A	W8PC 82,800 552 75 24 A KB4GYT 76,500 510 75 24 A K4DB 61,028 418 73 13 A	W4DC (+KC4SZT) 187,200 1200 78 24 B N4SR (+net)	W3UA 50,410 355 71 24 B K5LP 34,500 250 69 12 B K6AZA/5 21,576 186 58 24 B
NK8Q (+KA2BIQ,N2FAM,ops) 62,244 399 78 22 B	K4OGG 57,888 402 72 24 A K3TD 39,600 264 75 15 A N4NFI 32,706 237 69 17 A	N2FY 44,100 315 70 19 A K4ADI 12,376 119 52 5 A	147,264 944 78 22 B W4NF (+net) 84,084 546 77 15 B	K5MR (+W5WW) 268,320 1720 78 24 B
AA3JU (+net) 48,488 319 76 9 B K3WW (+net)	KT4NT 31,666 223 71 13 A KT4WM 14,960 136 55 17 A N4IBO 11,970 105 57 7 A	KR4PB 7,740 90 43 7 A AA3II 4,440 60 37 11 A N4EE 2 1 1 1 A	W4DF (+WA4RTS) 70,200 450 78 23 A	N5TJ (+net) 66,768 428 78 24 A
39,936 256 78 8 B NE3H (+net) 39,672 261 76 6 B	KB4GID 54,756 351 78 9 B	N4UK 265,696 1748 76 24 B	K4UK (+KF4LBD) 50,764 343 74 24 A	KB5YIA (+KC5QLQ) 37,000 250 74 22 A
	N4XQN 44,304 284 78 17 B			

KC5OJY (KC5CGH,KB2RVB,KK5KN,	W6BSY 156,312 1002 78 20 B	WA6YOO 36,816 354 52 8 B WA6UFY 24,240 202 60 7 B	Arizona	WB2UFO (+KB9BAL) 14,580 135 54 24 B
N5VHO,ops) 29,376 216 68 24 A N5MUJ (KC5s VPY,VPZ,WUG,WUH,	W6RJ 67,080 430 78 6 B K6ZM (AC6CI,op) 66,640 490 68 8 B	WA6UFY 24,240 202 60 7 B KD6QK 19,440 162 60 5 B	AA7VY 52,052 338 77 24 Q N7JXS 26,532 201 66 19 Q	Western Washington
NQ5X,ops) 9,976 116 43 15 A	WW6I 22,560 188 60 24 B N6ZM (NH7A,op)	N6KI (+K6AM,KC6WEO,KM6WF, N6UWW,WB6NBU)	W7ZMD 89,072 586 76 16 A NF7E 63,504 504 63 18 A	N7DM 6,480 81 40 6 Q
Oklahoma	3,286 53 31 24 B	265,512 1702 78 24 B KC6VVT (+KC6ZEC,N2LWL) 39,150 261 75 24 A	KD4HXT 44,588 314 71 18 A KK6IF 34,704 241 72 24 A	K7QQ 225,264 1444 78 24 A K9JF 110,136 706 78 12 A N7ETC 82,460 589 70 18 A
K5KA 116,270 755 77 13 A W5TZN 33,540 215 78 21 A	W6DI (N6UUG,WX6M, ops) 209,820 1345 78 24 B	39,150 261 75 24 A San Francisco	W7YS 25,200 200 63 11 A W7ZT 20,930 161 65 14 A	W7QN 69,058 473 73 14 A K7CW 67,860 435 78 18 A
KC5ASD 29,900 230 65 12 A KB5ENP 26,390 203 65 15 A KK5XI 18,904 139 68 22 A	Los Angeles K6RO 170,352 1092 78 24 A	K6UM 76,152 501 76 16 A N6ZFO 69,412 469 74 16 A	W7EYG 15,480 129 60 18 A KJ7BS 13,000 125 52 19 A K6ZCL 11,270 115 49 8 A	K7LXC 46,512 342 68 10 A AB7PX 37,296 259 72 22 A
KB5IRL 18,212 157 58 11 A K5PX 12,838 131 49 5 A	KC6X 139,620 895 78 22 A W6KC 85,932 558 77 20 A	W6ESJ 50,768 334 76 18 A AC6AH 12,528 116 54 8 A	KA7AKJ 11,074 113 49 9 A KJ7OF 10,152 108 47 10 A	N7OYR 35,500 250 71 22 A AA7VT 34,362 249 69 18 A
KC5KUG 9,660 105 46 16 A AA5HV 2,700 45 30 3 A	WA7BNM 82,368 528 78 13 A WB6NFO 71,568 504 71 18 A	WA6QCL 12,480 120 52 7 A K6LRN 3.712 58 32 24 A	N7WAQ 9,116 106 43 12 A KJ7JT 3,990 57 35 10 A	KY7K 33,750 225 75 20 A AB7RW 30,774 223 69 18 A KA7KUZ 28,980 230 63 12 A
KB5BOB 94,402 613 77 14 B	KQ6ES 48,240 335 72 24 A W6LX 38,304 266 72 19 A	W6BD 40 5 4 1 A WB2CHO 28,896 258 56 24 B	KI7LS 2,240 40 28 5 A W6SYM 1,440 30 24 2 A	KN7T 25,350 195 65 24 A W7LRD 24,192 216 56 16 A
AB5I 54,756 351 78 12 B K5CM 45,640 326 70 10 B KB5ZUD 41,400 300 69 12 B	N6TW 31,720 244 65 24 A WE6E 26,460 210 63 14 A NA2D 24,156 198 61 13 A	WA6CTA 5,780 85 34 2 B	KB7WQV 140 10 7 1 A K6LL 338,364 2169 78 24 B	W7DON 20,800 160 65 24 A KE7SW 20,590 145 71 24 A
KB5ZUD 41,400 300 69 12 B K5YAA 24,970 227 55 2 B	N7KFL 21,204 186 57 13 A NM6X 20,174 131 77 17 A	W6PW (KD6s VWD,YDY,KN6SY, KO6GF,N6BWS,NN6D,W6s BD,	K6LL 338,364 2169 78 24 B WAØKDS 122,360 805 76 20 B W7WW 121,296 798 76 24 B	N7AME 19,604 169 58 24 A K7GDN 15,738 129 61 12 A
NJ5S (+KA7GLA,KAØRNY,KBØGBD, KC5s GUD,TEZ,KM5DH,N1UOC,	KE6VWV 19,040 170 56 24 A WB6CGZ 18,126 159 57 22 A	VV.ops) 45,752 301 76 24 A	K6TIM 30,816 214 72 10 B NQ7X 13,888 124 56 11 A	WA7UVJ (N7WA,op) 11,374 121 47 24 A N7OZN 11,270 115 49 12 A
WB5OQX) 112,420 730 77 24 B	KE6JLF 3,000 50 30 7 A KN6DQ 504 18 14 24 A	KE6SLS (+KF6AAR) 35,904 272 66 18 A	N7LR (+KC7FWM,W9CF)	KD7LJ 7,740 90 43 5 A KJ7BN 3,392 53 32 24 A
WDØGTY (+WBØZWW) 51,696 359 72 22 A KB5RBX (+N5SAM)	K6LA 262,080 1680 78 24 B K0DI 164,780 1070 77 24 B	San Joaquin Valley K6MI 4,104 57 36 4 Q	45,360 324 70 22 B KB7TLE (+KB7YHT) 11,270 115 49 6 A	W7RM (K7ST,op)
37,076 299 62 24 A	W6UE (KA6SAR,KF6EHD,N7UE,	KG6OB 32,982 239 69 17 A	Eastern Washington	291,564 1869 78 24 B WA7FOE 215,904 1384 78 19 B W7OM 105,924 679 78 16 B
South Texas KG5U 23,660 182 65 7 Q	N9YS,ops) 245,856 1576 78 23 B	KO6RW 24,656 184 67 14 A KI6PG 15,048 132 57 17 A	K7MM 62,928 437 72 23 Q	W7OM 105,924 679 78 16 B N7DOE 98,280 702 70 9 B N7FL 23,790 183 65 13 B
N5BA 1,320 30 22 2 Q	K6VR (+net) 25,102 163 77 14 A	W6DPD 13,250 125 53 9 A KE6JTH 12,882 113 57 16 A W6WM 12,192 127 48 24 A	K7FR 225,888 1448 78 24 A WS7V 60,496 398 76 24 A	KB7THX 10,500 105 50 9 B
WA5IYX 64,600 425 76 20 A WA5TOS 62,900 425 74 17 A AB5SS 56,502 387 73 16 A	KE6WEH (KD6s NMR,QWU,ZHU, KE6s GHX,RJE,ZTK,KF6s DFI,GMG, GYY,N6s WZR,XAC,ops)	W6WM 12,192 127 48 24 A KE6GTR 10,192 104 49 24 A W6UOX 9,720 108 45 12 A	K7IOO 51,830 355 73 14 A W7WMO 16,356 141 58 5 A W7OVJ 15,288 147 52 14 A	W7DK (AJ7R,KB7s QOP,STJ,UXP, QWH,N7s EPD,QHW,VGO,
AB5SS 56,502 387 73 16 A AC5FW 40,752 283 72 20 A N5XUS 40,470 285 71 13 A	23,684 191 62 23 B W6VPZ (KC6TWP,N6YPJ,ops)	WC6H 292,138 1897 77 24 B	W7OVJ 15,288 147 52 14 A KG7YU 11,662 119 49 24 A	W7RFM,ops) 64,368 447 72 24 A
NJ1V 30,096 209 72 10 A WD5GNI 29,040 220 66 16 A	4,248 59 36 6 A	WA6YEE 37,240 245 76 15 B WB6QVI 11,220 110 51 7 B	K7IR (+K7XS,N7CID) 254,592 1632 78 24 B	W7TI (+net) 49,920 320 78 15 B ND7P (+WA7TTD)
KK5CA 28,566 207 69 10 A WA5WZA 25,344 198 64 6 A	Orange KC6CNV 145,160 955 76 24 A WM7D 28.116 213 66 24 A	N6MU (+N6MI) 204,204 1326 77 24 B	W3AS (+ops) 120,744 774 78 18 B	18,126 159 57 16 A K7NWS (KB7KYA,N7GVQ,
KØBCN 24,830 191 65 11 A K5ZTY 24,708 174 71 B A K5WA 18,492 138 67 6 A	WM7D 28,116 213 66 24 A WA6JZQ 19,936 178 56 23 A KO6XB 14,080 128 55 10 A	KT6RA (+KD6KKP) 171,132 1097 78 24 B	Idaho W7ZRC 215,748 1383 78 24 A	WB7AEI,ops) 12,826 121 53 11 A
N5RLQ 16,500 150 55 15 A W5PDW 12,880 115 56 2 A	K6BVE 13,920 120 58 13 A W6NT 12,500 125 50 13 A	NT6K (+KA6BIM) 138,840 890 78 24 B	KK7A 87,600 584 75 9 A K7ZO 54,908 371 74 15 A	Wyoming N7MZW 69.864 492 71 24 Q
KK5DO 12,528 108 58 24 A KK5KX 11,466 117 49 8 A	WA6GFR 7,392 88 42 7 A N6RT 6,900 75 46 4 A	WB6YIK (+KC6HJJ) 109,032 708 77 22 B	W7II 47,286 333 71 24 A K7NHA 34,776 252 69 9 A	N7MZW 69,864 492 71 24 Q NQ7Q 9,130 83 55 7 A
WA5SAJ 10,788 93 58 9 A WA5DJU 10,682 109 49 18 A W5VHN 10,600 100 53 24 A	N6HC 218,400 1400 78 23 B W6TKV 88,920 585 76 15 B	N6TNX (+N6TNW) 100,320 660 76 19 B W6XK (+NR6N,W6PS)	KE7RT 18,290 155 59 12 A KJ7FE 17,664 138 64 16 A WB7CYO 15,660 135 58 8 A	WS7W 103,950 693 75 14 B
W5VHN 10,600 100 53 24 A K5WNO 10,404 102 51 24 A WB9LAU 10,120 110 46 11 A	K6NR 18,232 172 53 5 B W6HT 9,374 109 43 7 B	94,240 620 76 20 B KM6AE (+AC6WP,K6ALE,KE6TII.	WB7CYO 15,660 135 58 8 A WB7ECB 12,544 112 56 24 A	KB7M 54,760 370 74 19 B
N5RBC 10,058 107 47 11 A N5NMX 9,116 106 43 3 A	W6EEN (+K6XC)	KK6KE) 27,090 215 63 17 A N6EE (+NET) 18,560 145 64 6 A	KJ7TH 41,964 269 78 24 B AA7UN 16,536 106 78 14 B	KC7EMR (+KC7FLX) 43,344 344 63 24 A WB7S (+N7YGN)
W5OYH 5,472 72 38 9 A K5GQ 3,192 57 28 4 A KM5CF 2,838 43 33 24 A	197,184 1264 78 17 B K6HRT (+N6s XSS,YZT) 180,492 1157 78 23 B	18,560 145 64 6 A Santa Barbara	WA0DYU 14,508 117 62 24 B	31,390 215 73 15 A N7PLJ (+KC7FIM)
N8ECG 1,550 31 25 3 A	KM6HB (+ops) 80,234 521 77 19 B	WA6FGV 91,260 585 78 19 A W6GL 58,064 382 76 21 A	W7UQ (KB7LFO,KI7RO,ops) 73,852 499 74 23 A N7NQO (+KC7NAV,KI7KF)	13,356 126 53 11 A
N5JA 330,564 2119 78 24 B K5TR (at W5KFT)	KE6SWV (K6TOS,KE6WUE,W6KAT, WA6SNG,WB6JBL,ops)	W6BKY 16,530 145 57 11 A W3KT 10,700 107 50 8 A W6HYK 9,916 74 67 12 A	29,664 206 72 24 A	Michigan
319,550 2075 77 24 B N5KA (at N3BB) 306,228 1963 78 24 B	52,414 359 73 24 A W6JBT (+KE6LTT,KF6CR,N6CMF, W6HAL,)	W6HYK 9,916 74 67 12 A N6PMO 8,118 99 41 11 A KE6UUP 4,736 74 32 11 A	Montana K7BG 66,600 444 75 11 A	K8LJQ 19,440 162 60 18 Q N8JM 12,600 105 60 7 Q
W5ASP 195,156 1251 78 19 B K5NZ 142,576 938 76 24 B	25,956 206 63 14 A AC6YB (+AC6XK,KE6NIB)	KC6GRY 120 10 6 2 A	N9ITX/7 236,028 1513 78 24 B KS7T 133,380 855 78 19 B	KB8VVY 22 11 1 9 Q
AB5EA 138,216 886 78 24 B K5DX 121,680 780 78 24 B	14,098 133 53 11 A K6RUB (+WB6BMR)	W6NK 154,752 992 78 19 B W6TKF 138,684 889 78 16 B KO6NE 1,450 29 25 24 B	KJ7VP 76,440 490 78 16 B	W8MJ 190,632 1222 78 24 A WZ8T 72,288 502 72 19 A K8CV 50,662 347 73 24 A
K5RC 87,672 562 78 8 B WD5DXL 87,600 600 73 19 B NA4M 50,516 346 73 24 B	13,340 115 58 7 A Pacific	KO6NE 1,450 29 25 24 B W6BHZ (KC6WOT,KD6CVS,KE6SYA,	W7FO (AA7LU,AB7CE,WA7FBJ,ops) 26,004 197 66 13 A	KC8CY 46,080 320 72 22 A K8RDJ 45,968 338 68 15 A
KK5GJ 44,850 325 69 8 B K8CSG 37,444 253 74 13 B	WB6FZH/KH6 4,760 68 35 24 Q	N6s DE, ED,ops) 137,060 890 77 24 B	Nevada NC7K 82,212 527 78 12 A	K8SB 45,792 318 72 16 A WA8RRR 44,988 326 69 6 A
KB5RUG 31,668 203 78 16 B W5XD 12,512 136 46 8 B	WH6DY 71,208 516 69 13 A	Santa Clara Valley N6NF 141,834 921 77 17 A	N7TR 354,276 2271 78 24 B	WA8FRD 44,928 312 72 19 A WA8QAF 41,464 284 73 12 A K8GVK 40,200 300 67 11 A
W5NR 4,800 60 40 4 B K5DU (+K5NA,WB2Q)	KH6FKG 108,770 745 73 23 B	N6NF 141,834 921 77 17 A AD6E 92,862 603 77 19 A AE6Y 81,774 531 77 11 A	W6IXP/7 60,620 433 70 21 B	KB8QDI 38,184 258 74 17 A WD8S 37,884 246 77 17 A
242,112 1552 78 24 B W5EHM (N1PVB,AA5BT,KA5WSS,	Sacramento Valley W6PYX 148,512 952 78 24 A	N6ZB 55,008 382 72 16 A W6PLJ 31,944 242 66 21 A	AAØCY (+net) 15,568 139 56 6 B	W8KZM 37,592 254 74 11 A N8KR 36,972 237 78 5 A
KG5KI,ops) 194,688 1248 78 24 B	KE6QNJ 57,936 408 71 21 A KD6WP 20,276 137 74 11 A	K6EP 31,920 228 70 24 A K7JJ 29,882 223 67 10 A KE6EFO 23,058 183 63 14 A	Oregon W7YAQ 104,720 680 77 24 Q	KBBIBS 33,696 216 78 20 A KTBX 33,288 228 73 8 A W8TJQ 29,110 205 71 16 A
N5TU (+KC5VHI,KM5DX,W2YX,W5MJ) 156,936 1006 78 24 B W5NC (K1OJ,K5s NZ,ZTY,KA5AKG,	KO6IS 16,790 115 73 9 A W6QEU 12,168 78 78 15 A KO6RU 9,996 102 49 24 A	KE6EFO 23,058 183 63 14 A AC6UR 9,632 112 43 24 A N6NM 3,360 56 30 2 A	K7RAT (N6TR,op) 34,272 252 68 24 Q	AABVG 28,512 198 72 19 A NBQVP 27,336 201 68 12 A
KC5QDX,KJ5X,KK5LD,N5KEU, WA5s DWX,MLJ,SAJ.ops)	KG6LF 257,244 1649 78 24 B	W6/XE1RGL 2,400 48 25 12 A N2ALE 32 4 4 1 A	AA7KF 56,942 401 71 7 A KI7Y 32,830 245 67 12 A	KBSAK 23,010 177 65 8 A WABOLD 22,692 183 62 15 A
156,000 1000 78 21 B W5OO (+K5MV,KC5WCN,N5AF)	K6PU 136,032 872 78 13 B AC6DQ 126,048 808 78 15 B	N6NT 258,960 1660 78 24 B N6TV 191,412 1227 78 16 B	KU7K 29,252 206 71 11 A KR7X 25,216 197 64 24 A	WD8NFX 21,900 150 73 9 A W8EO 21,480 179 60 24 A N8LIQ 20,988 198 53 13 A
109,356 701 78 15 B KK5MH (+KC5NRA) 54,040 386 70 22 B	KD6RHM 40,016 328 61 13 B W6REC 12,878 137 47 2 B	N6TV 191,412 1227 78 16 B K6HNZ 159,276 1021 78 21 B NI6T 154,596 991 78 24 B	K7VIT 19,116 162 59 10 A AB7NV 10,080 105 48 8 A K7NT 8,200 100 41 24 A	WB8BUQ 20,460 165 62 5 A WB8AFO 20,412 162 63 14 A
KI5ME (+net) 29,252 206 71 19 A	K6RCC (AA6WJ,N6IG,NB6G,ops) 323,388 2073 78 24 B	K6GT 104,192 704 74 21 B W6ISO 99,684 639 78 21 B	K7NT 8,200 100 41 24 A AI7W 222,612 1427 78 22 B	W8KC 19,630 151 65 5 A WA8YPY 19,096 154 62 15 A
KB5ZXO (+KC5UTN) 1,632 34 24 3 A	N6ZS (+N6SNO)	N7TN 89,528 589 76 7 B	KA7ZUM 168,872 1111 76 24 B	NX8K 17,732 143 62 15 A K8EN 16,986 149 57 22 A AAAJN 16,254 129 63 24 A
	220,740 1415 78 24 B	K6XX 42,772 289 74 24 B	K7GWK 65,360 430 76 20 B	
West Texas	KV6H (+net) 206,076 1321 78 23 B	K6KR 36,864 288 64 4 B K6III 35,500 250 71 14 B	W7GG (+KH8AL.N2WEW)	WD8R 15,250 125 61 10 A WB8HBJ 14,934 131 57 8 A
West Texas K5ED 85,500 570 75 18 Q AB5WB 45,440 320 71 14 Q	KV6H (+net) 206,076 1321 78 23 B Al6V (+KQ6IT) 196,992 1296 76 16 B N6KE (+K6GV,KJ6YC,KN6OX)	K6KR 36,864 288 64 4 B K6III 35,500 250 71 14 B W6CF 7.918 107 37 2 B		WD8R 15,250 125 61 10 A WB8HBJ 14,934 131 57 8 A KB8HGM 14,190 129 55 15 A KG8XN 12,430 113 55 12 A
K5ED 85,500 570 75 18 Q	KV6H (+net) 206,076 1321 78 23 B AI6V (+KQ6IT) 76 16 B N6KE (+K6GV,KJ6YC,KN6OX) 180,336 1156 78 24 B K6SG (+K3EST)	K6KH 36,864 288 64 4 B K6HI 35,500 250 71 14 B W6CF 7,918 107 37 2 B W6OAT (+net) 156,936 1006 78 15 B AB6EQ (+K06MOS)	W7GG (+KH8AL,N2WEW) 282,828 1813 78 24 B KE7CR (+KA7MZZ)	WDBR 15,250 125 61 10 A WBBHBJ 14,934 131 57 8 A KBBHGM 14,190 129 55 15 A KG6XN 12,430 113 55 15 A KBGG 12,430 113 55 15 A WBEGI 11,664 108 54 8 A
K5ED 85,500 570 75 18 Q AB5WB 45,440 320 71 14 Q WB5M 101,384 667 76 16 A KB5LMB 10,800 120 45 21 A WB5AAR (N5RZ,op)	KV6H (+net) 206,076 1321 78 23 B AI6V (+KQ6IT) 196,992 1296 76 16 B N6KE (+K6GV,KJ6YC,KN6OX) 180,336 1156 78 24 B K6SG (+K3EST) 146,016 936 78 19 B KQ6IT (+ops)	K6KH 36,864 288 64 4 B K6III 35,500 250 71 14 B W6CF 7,918 107 37 2 B W6OAT (+net) 156,936 1006 78 15 B AB6EQ (+KD6NOS) 113,344 736 77 24 B AE0M (+N0BBS) 63,024 404 78 18 B	W7GG (+KH8AL.N2WEW) 282.828 1813 78 24 B KE7CR (+KA7MZZ) 40,260 305 66 15 A WA7IIM (+KC7HSZ) 22,302 189 59 11 A Utah	WDBR 15/250 125 61 10 A WBBHBJ 14/934 131 57 8 A KBBHGM 14/190 129 55 15 A KBGN 12/430 113 55 12 A KBGO 12/430 113 55 12 A WBEGI 11,664 108 54 8 A N8ZFH 10,900 109 50 17 A NBTDE 10,528 112 47 10 A KETUA 10,296 117 44 5 A
K5ED AB5WB 85,500 45,440 570 320 75 71 18 14 Q WB5M KB5LMB 101,384 10,800 667 120 76 45 16 21 A	KV6H (+net) 206,076 1321 78 23 B A16V (+KQ6IT) 196,992 1296 76 16 B N6KE (+K6GV,KJ6YC,KN6OX) 180,336 1156 78 24 B K6SG (+K3EST) 146,016 936 78 19 B	K6KH 36,864 288 64 4 B K6HI 35,500 250 71 14 B W6CF 7,918 107 37 2 B W6OAT (+net) 156,936 1006 78 15 B ABEGU (+N0BBS) 63,024 404 78 18 B N6SF (+net) 18,648 126 74 16 B	W7GG (+KH8AL.N2WEW) 282.828 1813 78 24 B KE7CR (+KA7MZZ) 40.260 305 66 15 A WA7IIM (+KC7H5Z) 22.302 189 59 11 A Utah KB7SLK 5,382 69 39 8 Q	WDBR 15/250 125 61 10 A WBBHBJ 14,934 131 57 8 A KBBHGM 14,190 129 55 15 A KBGO 12,430 113 55 12 A KBGO 12,430 113 55 15 A WBEGI 11,684 108 54 8 A N8ZFH 10,900 109 50 17 A NBTDE 10,528 112 47 10 A KETUA 10,296 117 44 5 A NBMK 10,200 100 51 5 A NBVEN 10,080 100 54 8 9 A
K5ED 85,500 570 75 18 Q AB5WB 45,440 320 71 14 Q WB5M 101,384 667 76 16 A KB5LMB 10,800 120 45 21 A WB5AAR (N5RZ,op) 257,244 1649 78 18 B	KV6H (+net) 206,076 1321 78 23 B A16V (+KQ6IT) 196,992 1296 76 16 B N6KE (+K6GV,KJ6YC,KN5OX) 196,0336 1155 78 24 B K6SG (+K3EST) 146,016 936 78 19 B KQ6IT (+ops) 67,800 452 75 13 B W6YM (+KE6FEE)	K6KH 36,864 288 64 4 8 8 64 4 8 8 64 64 8 9 64 8 9 64 8 9 64 64 8 9	W7GG (+KH8AL.N2WEW) 282.828 1813 78 24 B KE7CR (+KA7MZZ) 40,260 305 66 15 A WA7IIM (+KC7HSZ) 22,302 189 59 11 A Utah	WDBR 15,250 125 61 10 A WBBHBJ 14,934 131 57 8 A KBBHGM 14,190 129 55 15 A KGBXN 12,430 113 55 12 A WBEGI 11,664 108 54 8 A NBZFH 10,528 112 47 10 A KETUA 10,296 117 44 5 A NBMEN 10,200 100 51 5 A NBWEN 10,080 105 48 9 A WDBKZP 8,400 105 40 8 A WBPGW (WBUE,0p)
K5ED 85,500 570 75 18 Q ABSWB 45,440 320 71 14 Q WB5M 101,384 667 76 16 A KB5LMB 10,800 120 45 21 A WB5AAR (N5RZ,op) 257,244 1649 78 18 B KJ5BX (+KB5KYJ,KC5s HNI,KQF,MVT. OBX,QZM)	KV6H (+net) 206,076 1321 78 23 B AI6V (+KQ6IT) 196,992 1296 76 16 B N6KE (+K6GV,KJ6YC,KN6OX) 180,336 1156 78 24 B K6SG (+K3EST) 146,016 936 78 19 B KQ6IT (+ops) 67,800 452 75 13 B W6YM (+KE6FEE) 34,160 244 70 13 B K6JJ (+net) 21,248 166 64 17 A San Diego	K6KR 36,864 288 64 4 8 8 64 8 8 64 8 9 60 7 1 14 8 6 9 7 9 18 107 37 2 8 8 64 9 18 6 18 6 18 6 18 6 18 6 18 6 18 6 18	W7GG (+KH8AL N2WEW) 282,822 1813 78 24 B KE7CR (+KA7MZ) 40,260 305 66 15 A WA7IIM (+KC7H5Z) 22,302 189 59 11 A Utah KB7SLK 5,382 69 39 8 Q K7CF 168,636 1081 78 24 A W7HS 17,464 148 59 15 A KC7CNA 12,246 157 39 24 A	WIDER
K5ED	KV6H (+net) 206,076 1321 78 23 B Al6V (+KQ6IT) 196,992 1296 76 16 B N6KE (+K6GV,KJ6YC,KN5CX) 180,336 1156 78 24 B K6SG (+K3EST) 146,016 936 78 19 B KQ6IT (+ops) 67,800 452 75 13 B W6YM (-KE6FEE) 34,160 244 70 13 B K6JJ (+net) 21,248 166 64 17 A San Dlego W6CN 35,520 240 74 23 Q N6SMW 25,012 169 74 24 A	K6KR 36,864 288 64 4 8 K6H1 35,500 25 71 14 8 W6CF 7,918 107 37 2 8 W6CAT (+net) 156,936 1006 78 15 8 AB6EQ (+KD6NOS) 63,024 404 78 18 B N6SF (+net) 18,648 126 74 16 8 KE6CCJ (+KF6BKK) 11,092 118 47 10 A	W7GG (+KH8AL,N2WEW) 282,828 1813 78 24 B KE7CR (+KA7MZ) 40,260 305 66 15 A WA7IIM (+KC7HSZ) 22,302 189 59 11 A Utah KB7SLK 5,382 69 39 8 Q K7CF 168,636 1081 78 24 A W7HS 17,464 148 59 15 A KC7CNA 12,246 157 39 24 A KO7X (KI7WX.op) 210,756 1351 78 24 B AF7O 61,600 400 77 24 B	WIDER
K5ED	KV6H (+net) 206,076 1321 78 23 B Al6V (+KQ6IT) 196,992 1296 76 16 B N6KE (+K6GV,KJ6YC,KN6OX) 180,336 1156 78 24 B K6SG (+K3EST) 146,016 936 78 19 B KQ6IT (+ops) 67,800 452 75 13 B W6YM (+KE6FEE) 34,160 244 70 13 B K6JJ (+net) 21,248 166 64 17 A San Diego W6CN 35,520 240 74 23 Q N6SMW 25,012 169 74 24 A W6MVW 13,920 120 58 24 A W6MVW 13,920 120 58 24 A K6CT 10,200 100 51 24 A	K6KR 36,864 288 64 4 8 K6H 35,500 250 71 14 8 K6H 35,500 250 71 14 8 K6H 37,918 107 37 2 8 8 K6CF 7,918 107 37 2 8 8 K6CF 113,344 736 77 24 8 K6CF (+net) 18,648 126 74 16 8 K6CCJ (+KF6BKK) 11,092 118 47 10 A 7 4 16 8 K6CCJ (+KF6BKK) 11,092 118 47 10 A 7 4 16 8 K6CCJ (+KF6BKK) 11,092 118 47 10 A 7 4 16 8 K6CCJ (+KF6BKK) 11,092 118 47 10 A 7 4 16 8 K6CCJ (+KF6BKK) 11,092 118 47 10 A 7 4 16 8 K6CCJ (+KF6BKK) 11,092 118 47 10 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W7GG (+KH8AL N2WEW) 282,828 1813 78 24 B KE7CR (+KA7MZZ) 40,260 305 66 15 A WA7IIM (+KC7HSZ) 22,302 189 59 11 A Utah KB7SLK 5,382 69 39 8 Q K7OF 188,638 1081 78 24 A W7HS 17,464 148 59 15 A KC7CNA 12,246 157 39 24 A KO7X (KI7WX.op) 210,756 1351 78 24 B AF7O 61,600 400 77 24 B	WIDER
K5ED	KV6H (+net) 206,076 1321 78 23 B Al6V (+KQ6IT) 196,992 1296 76 16 B N6KE (+K6GV,KJ6YC,KN6OX) 180,336 1156 78 24 B K6SG (+K3EST) 146,016 936 78 19 B KQ6IT (+ops) 67,800 452 75 13 B W6YM (+K6FFEE) 34,160 244 70 13 B K6JJ (+net) 21,248 166 64 17 A San Dlego W6CN 35,520 240 74 23 Q N6SMW 25,012 169 74 24 A W6MWW 13,920 120 58 24 A	KKRH 36,864 288 64 4 B K6BIII 35,500 250 71 14 B W6CF 7,918 107 37 2 B W6OAT (+net) 156,936 1006 78 15 B ABGEQ (+KD6NCS) 113,344 736 77 24 B AEGM (+NOBES) 63,024 404 78 18 B N6SF (+net) 118,648 126 74 16 B KE6CCJ (+KF6BKK) 11,092 118 47 10 A 7 Alaska KENTWP 48,024 348 69 13 A	W7GG (+KH8AL.N2WEW) 282.828 1813 78 24 B KE7CR (+KA7MZZ) 40,260 305 66 15 A WA7IIM (+KC7H5Z) 22,302 189 59 11 A Utah KB7SLK 5,382 69 39 8 Q K7OF 168,636 1081 78 24 A W7HS 17,484 148 59 15 A KC7CNA 12,246 157 39 24 A KO7X (KI7WX.op) 210,756 1351 78 24 B AF7O 61,600 400 77 24 B NG7M 51,888 376 69 24 B K8EI 29,078 217 67 8 B	WIDER

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W8QIY 1,302 31 21 3 A WD8KZO 792 22 18 1 A KB8JPD 32 4 4 2 A KB8SLD 4 2 1 1 A	W8MBI (AA8RZ,KB8s NPA,VYB, KC8s BOM,BXH,KC4IYD,KD8SC, W8LE,ops) 30,498 221 69 21 A	N9PGO (+NW9V) 48.100 325 74 23 A N9LJY (+KA9BZY,KB9OEX,N9s NPP, UIZ,VZA,WJJ)	NØIXY 9,450 105 45 9 A KØEVC 6,840 90 38 10 A KGØWU 6,536 76 43 24 A WBØB 4,800 60 40 4 A	KØUSA (AJØA,KGØEJ,WJØZ,ops) 32,604 209 78 23 A NØHPP (+NOTRK) 19,380 190 51 17 A
R8CC (K9TM,op) 272,064 1744 78 24 B 247,572 1587 78 24 B KEBKG 147,108 943 78 23 B AA8R 140,244 899 78 19 B AA8PA 113,724 729 78 20 B N8KSO 80,784 661 72 15 B	KBSCH (AABKK,KBBJVK,KD4PYP, N8s KOJ,UYZ/CL,NUBU,WABEZY, WABLOJ,WB4SUV,WBBOYT,ops) 28,576 188 76 21 A W8VM/200 (AFBC,K8VUS,W8IDM, WB8ORV,ops) 28,032 192 73 15 A N8HTT (+net)	18,326 119 77 21 A KC9IL (+N9GHP) 16,800 150 56 6 B WB9GKA (+WB9ZAJ) 13,356 126 53 24 A Indiana KX9X 48,706 343 71 20 Q	NONI (AG94-op) K0FG 87,828 563 78 19 8 WB0VFO 27,104 176 77 16 B W0PPF 22,932 182 63 19 B Kansas	North Dakota WDØEWJ 30,240 240 63 18 A WOØJ 28,810 215 67 17 A KBØIXX 23,312 188 62 16 A WØHSC (KBØIHM.op) 16,536 15 53 5 A KIØDW 11,960 115 52 24 A
WBSMT 63,190 445 71 7 B KGBOU 31,500 210 75 19 B KGBHZ 18,224 134 68 10 B MSSMI 10,656 111 48 12 B NU8Z (AA8HZ,K8AOM,KG8EF,ops)	27.756 178 78 11 A N8CPA (+KB8SFR,N8s VJA,VQJ. WDBLOM 17,400 150 58 20 A NDBL (+net) 12,480 120 52 4 B WABZTC (+net)	W9DZ 12,400 124 50 8 Q W9AU 95,760 630 76 21 A K9HD 78,156 501 78 21 A WA1MKE 52,824 372 71 18 A N9OBL 47,304 324 73 21 A KF9WX 35,466 257 69 18 A	W00NX 51,900 346 75 24 A N0WFN 37,440 240 78 18 A KC0GL 34,416 239 72 18 A K0BJ 33,810 245 69 6 A WB0YJT 25,344 198 64 11 A N0ZHA 25,172 203 62 18 A KF0MJ 15,504 136 57 5 A	WB00 59,540 458 65 4 B KI0BZ (+KB0s RGU, SAA, KF0UK) 91,542 627 73 23 A NY0C (+N0FbJ, 65,408 448 73 17 B
246,480 1580 78 24 B KG8CW (AABE,KBKG,KG8CO,ops) 233,064 1494 78 24 B WBJJ (+K8MM,NABG) 200,460 1285 78 24 B WBTNO (K8S NWD,ZZU,KEBUY, NSSMM,WBBZOM,WD8PLE,ops)	12,324 79 78 14 A West Virginia KSIID 56,672 368 77 22 Q WA8WV 46,350 309 75 13 A WASMV 46,350 309 75 13 A	KE9I 31,044 199 78 11 A KB9KID 24,676 199 62 19 A WB9LRK 20,374 167 61 9 A KB9NMU 19,920 166 60 24 A WD9EJK 15,180 110 69 12 A K9DIY 14,672 131 56 11 A KOSY 13,144 124 53 24 A N9XDS 12,878 137 47 14 A	NOZCU 14,080 128 55 11 A KG0VA 12,852 119 54 10 A WABZNC 12,750 125 51 6 A NOJJO 9,240 105 44 4 A KAØEIC 5,376 64 42 7 A WØBH 79,092 507 78 12 B NIØS 35,280 252 70 12 B	South Dakota KEØZ 630 21 15 2 A WØSD (WDØT.op) 321,048 2058 78 24 B NØUCR (+WØKXZ)
184,954 1201 77 24 B NTBV (ACSW KRBD, NBCOA, WBXL, ops) 150,072 962 78 24 B KBET (+KFBLA) 100,152 642 78 18 B WA1LRL (+net) 96,720 620 76 21 A	W8WV 17,732 143 62 13 A K8UC 3,000 60 25 3 A K3JT 148,356 951 78 22 B W82ZA 44,020 310 71 24 B W8PT 22,294 157 71 16 B W9LT (+K8OQL)	NBXDS 12,878 137 47 14 A W4WOD 12,212 142 43 9 A KF9NP 10,340 110 47 7 A KB0C 117,312 752 78 19 B K9RU 71,760 460 78 12 B KJ9C 38,360 274 70 8 B K9EY 23,552 184 64 6 6 6	K0TQ (+AB0S,K0WA,W0CEM) 278,148 1783 78 24 B W0AQ (+KB0S NUC,PKR,RWI,SOM, VHI,KE4F0P,KI0EJ,N0S LOT,MRZ) 58,520 418 70 24 A AC0E (+net)	162,792 1071 76 20 B Canada Maritime-Newfoundland VE9ZL 7,828 103 38 24 A
KB2VCK (+ops) 55,650 371 75 23 B ND5S (+net) 39,150 261 75 16 B K8FT (+KC8EDL,N8OEO) 38,624 272 71 20 A KF8YC (+ops) 37,740 255 74 15 B	196,404 1259 78 24 B KFBUM (+NBVCF, KVBS) KBRAT (+KBBUJX, WVBE) 60,450 403 75 22 A AABUL (+WA8KAN) 18,792 162 58 16 A	N9QX (+KE9I,WD9GGY) 195,624 1254 78 24 B W9UR (+ops) 104,550 697 75 16 B N9FD (+KE4BAN,KD4DIJ,N9JRZ, N8KFO)	\$6,848 374 76 23 A KA0BAT (+KA0BHO) 14,820 130 57 10 B Minnesota W0YHE 32,004 254 63 18 Q NOUR 10,290 105 49 4 Q	VY2LI 146,730 1005 73 19 B VE9AA 11,858 77 77 24 B Quebec CI2AWR 49,956 362 69 19 A VE2TSM 18,620 190 49 24 A VE2BAI 12,800 128 50 18 A VE2HLW 12,760 116 55 19 A
XD8FS (+net) 29,260 190 77 15 B KC8ELY (N88 MMF,NJE,YXP,ops) 24,684 187 66 20 A N8OSL (+N8XTP) 20,764 179 58 21 B AABKR (+N8WIC)	WA8ZDL (+net) 14,238 113 63 10 B 9 Illinois K9ZO 2,800 50 28 1 0	35,640 270 66 12 A W9YB (+A04OS,KE4USA.ops) 13,764 111 62 24 B Wisconsin WD9IAB 9,682 103 47 15 Q WA1UJU 131,516 854 77 24 A	NØAT 213,096 1366 78 24 A ACØW 150,852 967 78 24 A KØMX 136,032 872 78 24 A KØOB 135,096 666 78 24 A WØWDW 46,480 332 70 6 A WØZQ 43,200 300 72 12 A NØAXL 43,200 300 72 12 A	VE2KRZ 7,200 100 36 10 A VA2GL 25,200 210 60 10 B VA2MRX (+net) 7,744 102 36 12 A VE2MAB (VE2s BRT,DWT,ESP,HAX,
18,816 147 64 11 A KGBQT (+KC8EMO) 14,732 127 58 10 A Ohio WABRJF 31,950 225 71 12 Q W3AW 10,080 90 56 6 Q N8AXA 5,840 73 40 24 Q	K9BG 2,480 40 31 3 Q KK9A 216,528 1388 78 23 A WA6AVL 133,848 858 78 23 A N9VVV 112,728 732 77 22 A K9MY 104,988 673 78 24 A WD9CIR 86,240 560 77 21 A N2CKZ 81,432 522 78 24 A	KE9QT 68.600 490 70 21 A AA9BJ 42.366 307 69 24 A K9CAN 39.000 250 78 15 A K9XJ 38.304 266 72 14 A AA9TB 35.328 256 69 18 A AA9BB 31.244 214 73 13 A AA9BB 28.024 226 62 8 A	KBQUPC 25,984 203 64 18 A WBOMWG 22,168 18 68 15 A K0MPH 19,952 172 58 8 A W0LO 15,312 132 58 2 A W0MN 14,522 137 53 9 A NSGNB 10,918 103 3 12 A WAGWOV 9,030 105 43 6 A	HRP,MJM,MPD,NHK,SJA,SMW,ops) 2,220 222 5 18 A Ontario VE3RM 66,750 445 75 19 A VA3NR 40,256 272 74 9 A VE3STT 40,194 261 77 14 A VE3VET 29,328 188 78 10 A
K8JZ 175,656 1126 78 24 A K8BL 124,800 800 78 19 A WBBAPJ 105,120 720 73 22 A WBUPH 55,238 399 71 16 A WABVINS 53,818 379 71 13 A WABKIN 50,024 338 74 18 A	W9RM 77,000 500 77 9 A KF9YL 60,066 423 71 19 A WX9U 59,200 400 74 12 A N9MSG 53,424 371 72 17 A K9SB 50,400 360 70 16 A N9STL 37,520 268 70 20 A N9STL 35,840 256 70 24 A	NSNE 27.600 230 60 6 A KSARF 25.760 184 70 15 A NSWAR 20.856 158 66 10 A NSCIO 19.286 144 67 7 A KSOYC 18.720 120 78 9 A WSGIL 12.168 78 78 24 A KSBMSZ 11.236 106 53 8 A	WAGAAM 9,020 110 41 12 A KOHB 212,316 1361 78 23 B W9RXJ 1350 1361 77 24 B W9RXJ 11,550 105 55 5 B KROB (-AF9T KDRWCA KJOB, KSOT,	VE3FMC 15,070 137 55 4 A VE3OQZ 13,104 117 56 15 A VE3WZ 12,138 119 51 11 A VE3WIB 8,970 115 39 6 A VA3TEE 4,288 67 32 6 A VA3WTO 3,420 57 30 2 A
NBAA 46,800 300 78 8 A W8XY 45,942 403 57 10 A NBOH 45,980 322 70 11 A NBWL 44,550 297 75 15 A NBFSP 36,635 258 71 21 A WZBA 33,600 240 70 17 A NBPCN 31,390 215 73 24 A	AK9Y 30,378 249 61 11 A KG9CD 29,346 201 73 24 A WA9CCQ 25,704 204 63 11 A W9VA 24,800 200 62 5 A W9UH (W0TPC.op) W9UH (W0TPC.op) W9UH 19942 189 62 13 A K9ZM 19,942 189 67 10 A	W9LO 10,300 103 50 5 A AA9RK 9,000 100 45 8 A W9RZW 7,752 102 38 7 A W89HBR 7,488 104 36 10 A WE9V (at KS9K) 292,344 1874 78 24 B ND9O 71,000 500 71 24 B	NOBKL) 203,550 1357 75 24 B KF0GV (+N0LIW) 151,320 970 78 23 B W0EF (AA0S EF,U,K0s AD,BUD,EF, FC,KGDK,M0s KBD,MGG,MPR, NFU,NYH,WEI,WG0M,ops) 102,150 681 75 23 B W0GJ (+het)	VE3VSM (+VA3CW, VE3IJM) 65,564 443 74 24 A VE3SAR (VE3S DBF, JGR, VA3DEN.ops) 62,224 399 78 24 A VE3ZTA (+net) 23,550 157 75 13 B
WDBAJF 24,832 194 64 8 A KG8OL 22,792 148 77 24 A NBFSQ 21,672 172 63 13 A WTBP 21,504 168 64 13 A WBBORV 20,608 161 64 24 A WABLOW 16,648 126 74 12 A NBKOJ 16,565 138 60 14 A NBKVD 16,008 138 58 19 A	W9MYY 18,924 166 57 18 A KE9YR 18,688 146 64 5 A K9MMS 16,936 116 73 10 A N6NRH 16,588 143 58 8 A N9DJ 16,188 142 57 24 A KB9CYL 15,510 141 55 8 A WISB 15,038 103 73 22 A KG9GK 14,278 121 59 16 A	AA9FW 14.850 135 55 11 B N9WNU 9,792 102 48 24 B KD9YY 3,000 50 30 8 B K9BZ (+N9THK) 115,128 738 78 24 B KC9GG (+KE\$NJ)	66,300 425 78 11 B K0JA (+K0JE) 43,808 296 74 24 B WT0N (+KB08 NIJ.SMN) 12,648 124 51 10 A W0SW (KB0HMS, N'ZMW, W0AB.WD0HXW,ops)	VE3ZTH (+net) 23,550 157 75 13 B Manitoba VE4GV 231,770 1505 77 23 A Saskatchewan VESSF 163,176 1046 78 22 A
AABXU 15,290 139 55 12 A NBMEY 12,500 125 50 5 A WJ8Y 12,168 78 78 14 A NSBO 11,872 112 53 6 A W8FDV 11,660 106 55 16 A KBBSHE 11,616 121 48 13 A NBATT 10,716 114 47 6 A	AA9F 13,680 120 57 7 A KA9HUH 13,542 111 61 13 A N9KCS 13,530 123 55 8 A N9CYI 12,954 127 51 24 A N9CO 10,584 126 42 3 A N9CO 10,584 126 42 3 A AA9NF 10,080 105 48 5 A	69,750 465 75 23 B Ø Colorado KAØWWT 74,228 482 77 21 A N4VI 63,504 441 72 24 A KBØIJGF 37,248 291 64 20 A	9,450 105 45 9 A Missouri NOEID 30,084 218 69 24 Q WARX 181,272 1162 78 24 A WARMU 38,190 285 67 18 A KK2G 35,332 242 73 11 A	VESGC 61,344 432 71 15 A VESCMA 46,240 340 68 24 A VESCPU 17,160 143 60 24 A Alberta VE6GK 26,928 198 68 6 Q VA6JO 180,180 1155 78 20 A
KBOUA 10,492 122 43 7 A WBDYF 9,568 104 46 9 A KDBUC 8,004 87 46 12 A KBNZ 5,520 69 40 2 A AFBA 4,620 66 35 3 A WABRCN 1,496 34 22 2 A KE8XK/200 864 27 16 2 A	NSNJX 9,408 112 42 10 A K9KJ 9,360 104 45 9 A K9NA 5,934 69 43 9 A WBSYSM 3,196 47 34 24 A NBTUQ 2,760 60 23 7 A NSZNF 8 2 2 1 A K9BGL 234,780 1505 78 24 B	KBOUGE 37,248 291 64 20 A W0ZA 27,860 199 70 10 A KG0ZI 27,830 253 55 6 A W0AS 23,688 188 63 10 A W6NIZ 20,400 136 75 24 A W80ZTI 20,292 178 57 17 A WB0HZL 20,164 142 71 15 A KB0QAK 18,600 150 62 24 A	WABGQLY 33,000 250 66 21 A WBBOLU 32,558 26 69 15 A KB0PTE 27,392 214 64 10 A AAØRT 24,444 194 63 7 A KB0RLO 20,286 147 69 20 A KØYR 18,034 127 71 24 A	VE6EX 102,096 709 72 12 A VE6ATT 85,536 648 66 12 A VE6DBH 73,438 503 73 24 A VE6NN 28,860 185 78 18 B VA6JY (VE6s DGG,JY,LCB,LDX, MK,ops)
K8MZ 223,860 1435 78 24 B ACRE 110,448 708 78 17 B KG8GO 70,376 463 76 13 B KF8GE 63,656 436 73 24 B KJ8I 61,650 411 75 24 B NG8D 60,800 400 76 8 B	WASTPQ 157.716 1011 78 22 8 K9LUW 157.404 1009 78 21 B K9CC 149.760 960 78 18 B KDST 136.598 887 77 23 B WD9HTC 126.672 812 78 24 B WE9A 107.700 718 75 15 B NSNCX 79.032 534 74 15 B	NSZR 13,566 119 57 5 A KØYBX 12,636 117 54 11 A NZIC 352,092 2257 78 24 B KØKE 268,008 1718 78 24 B W7WM 187,668 1203 78 21 B WØOSK 127,376 838 76 18 B NZDR 28,080 260 54 3 B	KG0YJ 13,750 125 55 19 A AA0VE 11,336 109 52 8 A WB9YTG 5,896 67 44 4 A K4VX (K9PG.op) 297,492 1907 78 24 B KM0L 176,124 1129 78 24 B KM0R 61,256 494 62 7 B	212,472 1362 78 24 B British Columbia VE7TLK 101,550 877 75 21 A VE7XT 26,532 198 67 10 A VE6XD/7 7,614 81 47 8 A
N8TR 50,076 321 78 12 8 K8MR 44,928 351 64 4 8 K8CX 42,432 272 78 7 8 W8FN 42,180 285 74 8 8 KJBF 37,200 250 75 14 B W6EZV 25,740 165 78 9 B KGBAP 18,352 148 62 12 B W8PN 17,280 135 64 8 8	WA9GNG 37,752 242 78 19 B WA9QNU 16,500 150 55 3 B KSUQN 15,680 140 56 6 B WA9DRE 12,600 126 50 6 B KSPW 11,904 124 48 4 B N9YCT 9,090 101 45 24 B WA9SMY 6,250 125 26 24 B KG9N 4,738 103 23 1 B	W0GG (+WB7HVR) 204,516 1311 78 21 B K0GAS (+KJ0G) 139,986 909 77 24 B N0ZA (+K0S CL_UK) 114,848 776 74 24 B	W3DW 26,230 215 61 14 8 AD9P 14,224 127 56 7 8 K8JPL 10,082 71 71 9 B NS0B 5,642 91 31 24 B W6EEE (KB0s LY1,QOF,VLG, KC5WJN,N9YYE,N0S RRS,ZSE,ops)	VE7CYT 4,704 49 48 5 A VE7SZ (VE7NTT,op) 325,260 2085 78 24 B VE7NA (VE7s FCO,GDE,GPG,JLO, NEW,TWO,VFM,ops) 29,678 209 71 23 A
KW8N (+K8LR,KU8E,KF8TY) 325,728 2088 78 24 B WZ8P (+KB8WFU,KE8YP,KF8NZ, N88 OFK,WCU) 101,400 550 78 21 B W8FT (AABKJ,KA8ZMY,KB8LKG,	WA5ZZG 1,974 47 21 24 8 WO9S (+AB4RL,N9DC,WB9JNZ) 117,468 753 78 22 B K0HMO (+N9KLI) 77,616 504 77 18 B N9LCR (+AA9GG,KB9LIL.N9S RUC,	NØRAB (+net) 112,632 722 78 15 B KFØLA (+net) 15,756 101 78 14 A lowa WNØG 129,500 875 74 20 A NØAC 31,382 221 71 10 A	52,682 371 71 24 A Nebraska KOIL 44,530 305 73 24 A N9ARX 43,344 301 72 16 A N0LAQ 18,760 140 67 10 A N0SYY 16,872 148 57 17 A	VE7UBC (VE7Ss CDL,TTO,WRA,ops) 17,880 149 60 10 B Northwest Territories VE8EV 22,320 180 62 19 A Yukon VY1JA 116,116 754 77 24 B
N8s PMT,FTP,ops) 64,896 416 78 24 B W8OS (+net) 46,800 300 78 9 B KF8UN (+net) 32,760 210 78 23 A	YSE) 61.464 394 78 24 B WSEM (-AAQOT,KB9LPM,NZ9Y, WD8HCR) 55.480 380 73 24 A K9MOT (AASAE,K9s JR,PW,RR, UQN,KASNAOG,KB9MPV,N9s KNS, MUC,ops)	W0OF 30,290 233 65 18 A AA0XY 23,714 167 71 22 A KE0PT 20,944 154 68 16 A AA0A1 18,392 121 76 12 A WASLKD 16,060 146 55 9 A KOXD 13,804 119 56 24 A KØRX 12,800 128 50 2 A	K9RZ 107,856 749 72 11 B WA6POZ 36,570 265 69 14 B K0GND (+K0SCM,KG0XA,WA6WRI, WB0WSL) 161,928 1038 78 24 A KB0JSU (+N0JJT)	Checklogs AA90V, AD4IE, K6SC, K8YRN, KB8RQU, KC5LZY, KC5PDY, KE3TE, KFØCK, KGØUA, KIØBJ, KR3O, N4CSF, VE7BOY.
	53,700 358 75 21 A	KBØNZR 11,328 118 48 20 A	143,836 934 77 24 A	Q57-