

Results, 2003 ARRL November Phone Sweepstakes

If you think contests aren't fun until you have multiple towers and more aluminum than Alcoa, you haven't tried the ARRL Phone Sweepstakes. This contest is the great equalizer among North American-run contests, where operating skill is rewarded more than investment in hardware.

"SS phone is the greatest. It is the true measure of an operator," says Mitch, W1SJ, op at WB1GQR, which placed No. 8 in Unlimited and No. 2 in the Northeast division. "With a tribander and dipoles at 50 feet, I compete head to head with guys running stacked Yagis at two to three times that height and I can do well against them. That will not happen in a DX contest."

Ty, K3MM, agrees. "I prefer domestic contests because they accentuate good operating skills over dominant hardware," he writes in an e-mail. "I love operating from the W3LPL multi-multi or one of the Caribbean hot spots in the big DX contests, but my station with relatively modest antennas works better for domestic contests and I can stay home and sleep (at least a little) in my own bed!"

For the rest of North America, this is all a delicious bit of comeuppance for the Northeast, since northeast stations dominate DX contests but haven't seen one of their own win Phone SS since the 1970s. Even stations in propagationally challenged North Dakota and Manitoba break into the Top 10, or win the thing altogether. The breakdown of categories, high-power, barefoot, QRP, multiop, school and unlimited, gives many stations a shot at making Top 10. But the beauty of SS is that regional battles, Northeast vs Northeast, Midwest vs Midwest, provide the basis for competition, even for operators who can't or won't come out on top.

"Since it is impossible to win High Power from the East (last time done was in the '70s) regional battles are the only way to keep sane in the SS," said Mitch, W1SJ. The last time a W1 has won SS Phone was 1978, when K1GZL took the multioperator class. A W1 has never won in high-power or in QRP and the last low-power win was 1971 (K1EUF).



Mike, KH6ND, busy preparing the antennas for the contest at WP2Z.

High Power

Still, there are some advantages too great to overcome. Rich, KE3Q, continued his dominance operating from WA3FET's station WP3R at Arecibo, Puerto Rico. It's enough that there's been chatter on contesting e-mail reflectors urging Rich to let someone else run WP3R for a change. But he's got the station booked for ARRL SS, both weekends, for the foreseeable future. So it looks like the way to topple him is to go down there and do it the hard way—the right way, some would say—by actually beating him.

He's game for the challenge, and Mike, KH6ND, tried, accepting an invitation from K8MJZ to take over WP2Z on St Thomas, but the battle of the Caribbean never quite shaped up as Mike hoped. Murphy, and a quite low solar flux index, had other ideas.

"The SFI was predicted to be 140 for the SSB weekend, but turned out to be just barely over 100," Mike writes. "This was a disaster to the game plan we had in mind."

Propagation turned against him, and even though the hardware at WP3R isn't in superstation category, it's quite a bit better than at WP2Z. Plus, the op at WP3R has several years' experience with

Top Ten

PHONE	Single Operator, QRP	Single Operator, Unlimited
N7VY	80,660	KP2A (KW8N, op)
K9ZO	67,640	351,392
N8IE	66,882	K6LL 308,000
WA8ZBT	60,192	K7RL 256,800
K5MJE	56,316	W4NF 244,800
W7YAQ	49,284	KD4D 232,892
K7MM	48,840	N2BJ 225,280
W6AQ	47,002	W7RN 223,412
N8NM	46,920	(WX5S, op)
WR6WR	44,988	WB1GQR 221,052
(N6WR)		(W1SJ)
Single Operator, Low Power		WE9V 219,360
K5WA	227,520	K6YT 206,560
K4WX	208,876	(W0YK, op)
K0UK	187,680	Multioperator
KK9A	185,952	K9NS 298,880
N8II	185,018	NJ4M 277,120
W5AJ	184,080	N5DO 257,920
W0AH	183,912	N4FCG 256,152
N4RZ	182,248	K0DU 253,280
W8MJ	178,640	K8CC 244,584
N5TW	175,252	K70R 243,794
(KC5YKX, op)		N8HR 233,220
Single Operator, High Power		K4JNY 231,360
WP3R	408,640	W6XK 230,560
(KE3Q, op)		
K4XS	347,840	School Club
K5TR	342,228	K5UTD 172,852
K5TA	317,600	K7UAZ 104,258
W5WMU	287,360	W6PRB 85,644
W7WA	286,400	W2CXM 83,622
WP2Z	285,636	W9NAA 64,526
(KH6ND, op)		W0EEE 60,882
K6GA	282,978	W7UQ 48,604
K3MM	280,160	WF4DD 31,200
K4PV	265,914	(KG4CZU, op)
		W2SZ 30,056
		W1YK 18,270

propagation from the Caribbean.

"We got hammered brutally by Mr. Murphy, but his presence was a distant second place compared to the damage done to our plan by the poor conditions," Mike continues. "Ten meters died after the first hour, and 20 died shortly after dark. Not what we needed with the antenna disadvantage that we knew we were facing." WP2Z finished seventh overall.

Bob, KW8N, went to KP2A and took second place overall, but chose to operate in Unlimited class so didn't really pose a threat to Rich's B-class supremacy.

Instead, the nearest rival to WP3R was Bill, K4XS, who last year was the No. 1 op in the continental US east of the Mississippi, but this year beat out all lower-48 stations to take No. 2 in high-power and No. 3 overall. George, K5TR, was third. Both George and Bill agreed that it was 40 meters that made the difference for K4XS. "Twenty dropped out by 0000 so there I was on 40, which actually turned out to be a good thing. Forty really turned out to be one of the two money bands for me," Bill writes.

For his part, George said 40 and 80 are keys to guys like Bill, who can work many nearby stations on Saturday night, and he expects 40 will become more important to him as sunspots wane. "He did great—he has a huge station on 40 and 20 meters," George writes of Bill, adding, "I need to work on my 40 meter antennas."

Unlimited

If location defines the B category, it's shaping up as the defining factor in U, as well. KP2A, piloted by KW8N, mounted the most serious challenge yet to B-class supremacy, taking Unlimited honors and placing No. 2 overall behind WP3R. Dave, K6LL, came in second.

Mitch, W1SJ, op at WB1GQR, explains the attraction of U this way: "I operated in 'B' for 25+ years. I moved to 'U' to get a shot at the title," he writes. "I have a couple of 2nd place national finishes in this category, but I'm sure the competition will start to realize this and spread out. This year, I was happy to settle for 10th or 11th in 'U' with the lousy conditions. Operating in 'U' leaves a little room for the other guys in Vermont to battle it out for 'B.'"

And now that the Caribbean has discovered the relatively new Unlimited class, what had been a refuge for stations who were either geographically disadvantaged or up against much bigger stations is slowly losing that appeal.

Low Power

Bob, K5WA, would be in tough competition as a Texan in high-power, what with No. 3 K5TR a short drive away. So,



A photo of Single Operator Low Power champion Bob, K5WA's, station after the battle was over.

Sponsored Plaque Winners

Plaque Category	Winner	Sponsor
Overall Single Operator High Power	WP3R (KE3Q, op)	Carl Cook, AI6V
Overall Single Operator Low Power	K5WA	Ken Adams, K5KA
Overall Single Operator QRP	N7VY	OQP Amateur Radio Club International
Overall School Club College Division	K5UTD	Mark Smith KD4JLC Memorial
Overall Multioperator	K9NS	Central Texas DX & Contest Club
Atlantic Single Operator High Power	K3MM	North Coast Contesters
Atlantic Single Operator Low Power	K1HTV	Potomac Valley Radio Club
Atlantic Multioperator	N3OC	Mark Sickmeyer, KB3GJ Memorial
Central Single Operator High Power	WB9Z	Society of Midwest Contesters
Central Single Operator Low Power	KK9A	Society of Midwest Contesters
Central Single Operator QRP	K9ZO	Don Haney, W9WW
Central Single Operator Unlimited	N2BJ	Society of Midwest Contesters
Central Multioperator	K9NS	Don Haney, W9WW
Dakota Single Operator High Power Phone	W0SD (WD0T, op)	Minnesota Wireless Association
Dakota Single Operator Low Power Phone	AC0W	Minnesota Wireless Association
Dakota Single Operator QRP Phone	WA0VBW	Minnesota Wireless Association
Dakota Single Operator Unlimited Phone	K0HW	Minnesota Wireless Association
Dakota Multioperator Phone	KT0R	In Memory of Jim Dokmo, K0FVF, Minnesota Wireless Association
Great Lakes Single Operator High Power	K1OU	North Coast Contesters
Great Lakes Single Operator Low Power	N4RZ	Mad River Radio Club
Great Lakes Single Operator QRP	N8IE	Mad River Radio Club
Midwest Single Operator High Power	KW0A (KA0GGI, op)	Kirk Pengelly, N0KK
Midwest Single Operator Low Power	N0AC	Society of Midwest Contesters
New England Single Operator Low Power	K1EP	Ed Parish, K1EP
New England Single Operator QRP	N1SW	QRP Club of New England
Roanoke Single Operator High Power	K4JA (N4GG, op)	Potomac Valley Radio Club
Roanoke Single Operator Low Power	N8II	Raleigh Amateur Radio Society - W4DW
Roanoke Single Operator QRP	N4ZAK	No Va QRP Group
Rocky Mountain Single Operator Low Power	K0UK	Grand Mesa Contesters of Colorado
Southwestern Single Operator QRP	N7VY	Ray and Donna Day, N6HE and N6HTH
West Gulf Single Operator High Power	K5TR	Ken Adams, K5KA
West Gulf Single Operator Low Power	K5WA	Ralph "Gator" Bowen, NSRZ
Canada Single Operator QRP	VE6EX	Frank Merceret, NA4CW

instead, he's happy to slip in under the bedlam and walk away with the low-power title. "Most of the extremely competitive guys around here are B stations, so I don't mind letting them clear the ether while I slip in behind them," he said.

For Bob, it's part strategy, part TVI: "I can't really run an amp on 80 through 10 the whole weekend without upsetting the neighbors."

The Phone weekend was marked by really lousy conditions north of, say, St Louis, a point even K5TR noticed. Summed up nicely by Kirk, N0KK: "Yep, El Stinko!"

So, many a log arrived without a sweep and many complained of missing VE4, not to mention VY1. Conspicuous by his absence was Rob, VE4GV, and a repeat winner of this category. Like the author,

Affiliated Club Competition

	Score	Entries		Score	Entries		Northern Arizona DX Assn	188,932	6
	Score	Entries		Score	Entries			Score	Entries
Unlimited Category									
Northern California Contest Club	21,943,202	299	Kentucky Contest Group	880,670	19	Southwest Ohio DX Assn	184,476	4	
Society of Midwest Contesters	16,397,484	294	CT RI Contest Group	778,440	11	Bergen ARA	124,282	6	
Potomac Valley Radio Club	10,684,780	145	Spokane DX Association	772,088	11	Franklin County ARC	121,816	4	
Yankee Clipper Contest Club	5,296,026	80	Willamette Valley DX Club	727,918	10	Woodbridge Wireless	90,522	7	
Minnesota Wireless Assn	5,198,134	99	Oklahoma DX Assn	716,674	7	Central Michigan ARC	64,468	4	
Florida Contest Group	4,227,042	52	Radio Amateurs of Northern VT	710,412	4	Wyoming DX Contest Club	28,770	3	
Medium Category									
Mad River Radio Club	3,961,860	45	Central Arizona DX Assn	649,308	6				
Southern California Contest Club	3,478,684	33	Texas DX Society	644,178	6				
Tennessee Contest Group	3,344,164	49	North Coast Contesters	630,734	10				
North Texas Contest Club	2,214,650	20	Magnolia DX Assn	399,282	4				
Central Texas DX and Contest Club	1,979,344	20	Rochester (NY) DX Assn	356,816	6				
Frankford Radio Club	1,970,266	27	Florida Contest Group - Panhandle	340,112	3				
South East Contest Club	1,933,932	25	Loudoun ARG	339,674	11				
Grand Mesa Contesters of Colorado	1,719,404	19	Eastern Iowa DX Assn	338,182	6				
Hudson Valley Contesters and DXers	1,348,758	20	BC DX Club	300,234	4				
Contest Club Ontario	1,216,390	22	Ozark Contest Club	288,320	3				
Kansas City DX Club	1,195,226	12	Order of Boiled Owls of New York	282,062	8				
Western Washington DX Club	1,149,498	15	West Park Radios	259,876	13				
Motor City Radio Club	953,746	32	Carolina DX Assn	217,892	4				
			Western New York DX Assn	207,004	4				
			South Jersey Radio Assn	205,148	9				
			Rip Van Winkle ARS	191,504	3				

Regional Listings

Tables list call sign, score and class (Q = QRP, A = Low Power, B = High Power, M = Multioperator, U = Unlimited)

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			Southeast Region (Delta, Roanoke and Southeastern Divisions)			Central Region (Central and Great Lakes Divisions; Ontario Section)			Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)			West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT Sections)		
K3MM	280,160	B	WP3R	408,640	B	WB9Z	254,880	B	K5TR	342,228	B	W7WA	286,400	B
W1VE	236,210	B	(KE3Q, op)			K9BGL	204,926	B	K5TA	317,600	B	N6BV	254,240	B
K3CR	221,208	B	K4XS	347,840	B	K1OU	169,554	B	K5GA	282,978	B	(@ N6RO)		
(LZ4AX, op)			W5WMU	287,360	B	K9NW	161,950	B	W5WW	260,320	B	K6LA	245,690	B
K2PLF	214,968	B	WP2Z	285,636	B	N9RV	160,992	B	W0SD	255,840	B	K7XZ	223,680	B
K1XX	207,636	B	(KH6ND, op)						(WD0T, op)			(K1MY, op)		
			K4PV	265,914	B							K7ZSD	223,236	B
K1HTV	134,560	A	K4WX	208,876	A	KK9A	185,952	A	K5WA	227,520	A	K6AM	159,900	A
K1EP	97,050	A	N8II	185,018	A	N4RZ	182,248	A	K0UK	187,680	A	AA6PW	153,892	A
K2UF	90,132	A	N4LR	170,640	A	W8MJ	178,640	A	W5AJ	184,080	A	WN6K	129,792	A
W3LL	87,400	A	W4ATL	164,794	A	N0FW	171,200	A	W0AH	183,912	A	WA0KDS	114,550	A
W2ENY	81,472	A	W4IX	156,618	A	AJ9C	154,208	A	N5TW	175,252	A	N6HC	86,550	A
									(KC5YKX, op)					
N3UR	31,098	Q	W5JAY	32,208	Q	K9ZO	67,640	Q	WA8ZBT	60,192	Q	N7VY	80,660	Q
AA2VK	26,928	Q	KN4QS	28,470	Q	N8IE	66,882	Q	K5MJE	56,316	Q	W7YAQ	49,284	Q
W2CE	26,664	Q	WB6BWZ	20,520	Q	N8NM	46,920	Q	WA0VBW	40,736	Q	K7MM	48,840	Q
N1SW	24,924	Q	N4ZAK	14,664	Q	K8IR	41,344	Q	N0UR	37,422	Q	W6AQ	47,002	Q
KR2Q	21,090	Q	KT0P	12,960	Q	W9DZ	30,366	Q	KJ5RM	34,584	Q	WR6WR	44,988	Q
KD4D	232,892	U	KP2A	351,392	U	N2BJ	225,280	U	AA5NT	181,600	U	K6LL	308,000	U
WB1GQR	221,052	U	(W1SJ, op)			WE9V	219,360	U	W5GN	179,646	U	K7RL	256,800	U
			W4NF	244,800	U	NA9D	192,320	U	W7UT	169,060	U	W7RN	223,412	U
K3DNE	156,156	U	WD4K	120,536	U	W9IU	156,624	U	K8FC	136,752	U	(WX5S, op)		
K1G	124,820	U	(K0EJ, op)			KI9A	147,888	U	K5NZ	132,000	U	K6YT	206,560	U
WE2F	122,460	U	N6ZO	92,708	U							W1SRD	200,960	U
			KE5K	45,892	U									
N3OC	228,942	M	NJ4M	277,120	M	K9NS	298,880	M	N5DO	257,920	M	W6XK	230,560	M
NA2NA	176,480	M	N4FCG	256,152	M	K8CC	244,584	M	K0DU	253,280	M	W6OAT	181,440	M
KE2DX	148,456	M	K4JNY	231,360	M	N8HR	233,220	M	KT0R	243,794	M	N6KI	179,804	M
W1QK	137,748	M	KA1ARB	221,832	M	VE3RM	175,538	M	W0NO	225,624	M	W6YX	177,118	M
N1FOJ	127,140	M	N4DD	199,360	M	W0AIH	175,520	M	W5LCC	173,920	M	K0BEE	173,958	M

VE4GV shouted at the radio for an hour before calling it quits. Many times, we'd call loud stations on clear frequencies with no pileups and get no response.

But that opened the door for K4WX, K0UK and a host of others to join the Top 10, albeit with reduced scores, thanks in no small part to conditions. Indeed, of all the stations entered, only 76 scored Sweeps, compared to 448 in 2002.

Multioperator

Club station K9NS in Illinois took

multioperator honors, ahead of stations in areas more favored geographically, beating West Central Florida's NJ4M and West Texas's N5DO. Not surprisingly, given their location—too central to capitalize on high-band openings (and, this year, too far north, perhaps) 40 meters was the money band with 931 QSOs, compared to 373 on 20 and less than 60 on 15 and 10 combined.

For many multioperator stations, this class is about giving beginners a leg up into contesting. For others, it's about the camaraderie of coming together as a team.

At KSOP, the Boulder (Colorado) Amateur Radio Club, it's about the future of contesting. All operators were between 12 and 16 years of age and competed under the watchful eye of Elmers—Mike, KC0EFR, and Dan, N0HF. "KSOP, K0DE and KC0INX are BARC Jr Elmers who helped teach the younger operators the ropes of contesting...copying all exchange information correctly, watching out for the band edges and holding a run frequency," writes Dan, N0HF. "The kids operated 2 hour shifts with one operating, one log-

ging. All had prior contesting experience with the exception of two new kids who watched and learned Saturday and then operated on Sunday."

Dave, N5DO, commenting on the regional battle in the Midwest region and multioperator, pointed out how greatly band selection strategy varied among Midwest multioperator stations; Midwest stretches from Manitoba and Saskatchewan down the North American Trade Corridor to Texas. "One interesting result from the Multioperator section in the Midwest Region is the pattern of contacts as a function of latitude," he writes.

Stations in the north found their money bands to be 40 and 80, while in Texas high bands were the breadwinners. N5DO had almost 38 per cent of contacts on 15 while WØNO, No. 4 multioperator in the Midwest region, only had 1.2% of its contacts on 15.

It's an observation that applies to all categories, and gives a strong indication of how poor conditions were in the north-central area of the continent and, no doubt, explains the paucity of sweeps.

QRP

Lousy band conditions took their greatest toll in this class, with the winner, N7VY, more than 50,000 points off the previous winning score, but this category continues to attract those operators who don't think phone SS alone is hard enough.

"QRP generally requires some stubbornness and lots of magazines to read during the contest," understates No. 2 QRP entrant Ralph, K9ZO, who operates QRP when some part of his normally high-power station is out of action. With 445 QSOs and 76 sections, Ralph admits: "Obviously there was a lot broken for the last SS."

But it's a tight race all the same. In behind K9ZO was N8IE, who logged more QSOs (471) but fewer mults to come up less than a thousand points behind Ralph. In normal years, when more people sweep, 1000 points are less than a seven-QSO gap. That's tight.

With little ability to run for long stretches at a time, the search-and-pounce technique is a great way to practice. N7VY finished with 545 QSOs and 74 sections.

Gordon, N7VY, says he started QRP at his old QTH owing to neighbors' complaints about RFI. It just kinda stuck with him when he moved. "Yes, I have caught the QRP bug, at least as far as contesting is concerned. For me it is the only way to be competitive with the big boys," he writes.

He said this year was exceptionally tough. "You could really hear that the bands are changing." He missed many

close-in stations but credits non-QRP operators for having the patience to work him. "These guys work really hard to copy me. Thanks."

As Ralph, K9ZO, dryly points out: "QRP is not an efficient way to turn alternating current into RF. You generally need hundreds of watts of ac to generate 5 W output," he writes, pointing to room lighting, computing power, coffeepot and refrigerator and rotators.

School

Still the smallest category, School is drawing an enthusiastic following among repeat entrants. K5UTD won again, posting a respectable 172,852 points, which once again would have been just out of Top 10 in A class. Like most stations, K5UTD's score was kicked down by bad conditions. They won in 2002 with just more than 200,000 points and a sweep. This year, they missed one section.



Trevor, KC0OJH (left) and Zoe, KC0PEK, operating the Boulder Amateur Radio Club Jr. of Boulder, Colorado station—KSOP.

As Multioperator is to many stations, School is often a great training ground for young, enthusiastic contesters-to-be. Even when Murphy strikes. (If you have to learn about Murphy, it might as well be in School, right?) Just ask Ken, KC9UMR, one of the ops at No. 6 WØEEE: "Our 847 died 2 hours into the contest, and my IC-706 did not have an amplifier cable (until 7 AM Sunday morning when I finally got around to building it!). And bad propagation—we had a really rough time. We missed Manitoba and Northwest Territories for sure. I think Montana was another one that eluded us."

"Everyone who participated had a lot of fun, though, which is our main goal in operating the contests!"

Affiliated Club Competition

Affiliated Club Competition is a great way to generate activity in a popular contest like SS, particularly if your club has

a good rivalry with another. It evokes that competitive spirit that urges members to fire up their radios, even if for only a short time. If your club members seem to be missing their daily-recommended allowance of RF, this is one way to get things going. And if it seems like the way to win is to get the most people on the air, well, that's kind of the whole point.

After a three-year reign, Society of Midwest Contesters gave up the Unlimited gavel to the Northern California Contest Club. Though both clubs had similar numbers of logs (299 for NCCC and 294 for SMC), Sunshine State north pulled ahead by more than five million points. SMC is threatening to be back with a vengeance this year, so we'll see.

Potomac Valley Radio Club was third with 145 logs and 10.6 million points, followed by Yankee Clipper Contest Club, Minnesota Wireless Association and Florida Contest Group (rest in peace, OJ).

In the Medium Category, Mad River Radio Club moved from Unlimited, where they finished last in 2002, to take the Medium title. Southern California Contest Club came in a close second despite having 12 fewer logs, followed by Tennessee Contest Group, which had the most logs. With 40 clubs, Medium is the most popular category.

Local title goes to the Northern Rockies DX Association with the Medina 2 Meter Group taking second place.

The swing from the high to low bands will continue as we race toward the end of the current sunspot cycle. Get ready for the challenge of the 2004 ARRL November Phone Sweepstakes set for November 20-22.



NEW PRODUCTS

ECHOMAC V1.13 FROM DOGPARK SOFTWARE

Dog Park Software has announced the release of version 1.13 of N9YTY's *EchoMac* for Macintosh computers. It can now be downloaded from www.dogparksoftware.com/EchoMac.html. See their Web site for details and the complete features list. *EchoMac* is a program written for Mac OS X, based on the *echoLinux* (www.cqinet.sf.net) program by Jeff Pierce, WD4NMQ, that gives licensed Amateur Radio operators the ability to access the Echolink system (www.echolink.org). New features of V1.13 include additional bug fixes related to the Portaudio library and system volume settings. For more information, contact Steve Palm, N9YTY, at n9yty@n9yty.com.

Scores

Within each Section, scores are listed in descending order by entry category, with single ops followed by multioperator. Line scores list call sign, score QSOs, multipliers, hours, class (Q = QRP, A = Low Power, B = High Power, U - Single Unlimited, M = Multioperator, S = School Club).

1 Connecticut	NB1U 2,100 42 25 B	WB2IDV 11,750 125 47 A	W2CXM (KB9YER, N2YYZ, KB2ZWZ, KC2IAW, WO9S, N2TQ, KC2KCF, N2VR, +loggers)
W1WEF 117,552 744 79 B	K1VSJ 44,872 316 71 A	N3RB 11,040 115 48 A	83,622 543 77 S
K1KI 16,432 158 52 B	KD1IA 36,720 270 68 A	W2WJO 10,672 92 58 A	
W1JQ 63,510 435 73 A	KS1J 16,402 139 59 A	WA1ALY 9,200 100 46 A	
W1CTN 42,642 309 69 A	WI1I 11,408 124 46 A	KB2UTD 8,652 103 42 A	
W1RPG 28,416 222 64 A	AA1PV 10,300 103 50 A	N2NYR 8,188 89 46 A	
W1AAD 26,640 185 72 A	KB1IAR 8,800 100 44 A	W2LRO 6,384 84 38 A	
NX1Q 20,496 183 56 A	KB1LN 4,836 62 39 A	WB2AZE 3,990 57 35 A	
W2JU 18,592 166 56 A	N1SW 24,924 201 62 Q	KR2Q 21,090 185 57 Q	
N1SSM 14,388 109 66 A	K1G 124,820 790 79 U	W2JEK 2,132 41 26 Q	
W1SAM 12,870 117 55 A	KB1JCT 874 23 19 U	N2ED 24,644 202 61 U	
K3EIN 5,832 81 36 A	N1HRA (+N3KCJ)		
N1ZN 5,304 68 39 A	112,320 702 80 M		
W1DMM 3,828 58 33 A	AB2DE (N2KPB, op)		
K1KAV 2,940 49 30 A	89,166 579 77 M		
N4QX 2 1 1 A	N2WM (+N2IEL)		
W1NK 17,664 128 69 U	36,036 234 77 M		
W1QK (+KA1SYG) 137,748 883 78 M	NJ2YL (+NJ2OM)		
W1AW (K1RKD, N1KB, KB1KKB, K0BOG, K2KKH, WA8SME, WV1X, KB1EYZ, ops) 124,172 839 74 M	32,604 209 78 M		
NZ1U (N1XS, KB1H, ops) 115,064 757 76 M	W2DEN (+N2RDX)		
W1NRG (N1KGY, N1GNV, N1ZN, KB1CIW, ops) 36,600 244 75 M	15,478 109 71 M		
Vermont	Eastern Pennsylvania		
K1XX 207,636 1331 78 B	WE1H 52,966 373 71 B	K3MD 107,172 687 78 B	
KK1L 192,504 1234 78 B	W1ECH 34,790 245 71 A	W3IZ 62,622 441 71 B	
K1KD 166,440 1108 76 B	KA1LDS 18,600 150 62 A	N3NR 46,620 315 74 B	
N1BCL 57,450 383 75 B	WB1GQR (W1SJ, op) 221,052 1417 78 U	K3XR 40,108 271 74 B	
WE1H 52,966 373 71 B	WA1FXK 22,774 193 59 A	NY3A 30,996 287 54 B	
W1ECH 34,790 245 71 A	NS2P 21,576 186 58 A	WB3IZF 24,024 182 66 B	
KA1LDS 18,600 150 62 A	NN2L 15,600 100 78 A	K3SV 20,904 156 67 B	
WB1GQR (W1SJ, op) 221,052 1417 78 U	NG2C 11,440 110 52 A	K3ISH 10,944 114 48 B	
W1US (+K6ND) 99,224 628 79 M	W3TB 9,676 118 41 A	W3EFH (K3EGE, op) 47,886 347 69 A	
W1NRG (N1KGY, N1GNV, N1ZN, KB1CIW, ops) 36,600 244 75 M	W2IB 9,500 95 50 A	WA2GBF 22,560 188 60 A	
Western Massachusetts	K2NNY (K2DB, N1OKL, AF2K, N2OPW, KA2IYB, K2CS, N2TWI, op) 111,496 724 77 M	K1DS 15,390 135 57 A	
W1VE 236,210 1495 79 B	WE2A 30,284 226 67 A	W3RT 13,132 134 49 A	
KX1X 48,714 353 69 A	WA1FXK 22,774 193 59 A	AJ3J 11,440 110 52 A	
W1BYH 28,160 220 64 A	NS2P 21,576 186 58 A	KE3TC 8,610 105 41 A	
K5ZD 24,066 191 63 A	NN2L 15,600 100 78 A	K3UV 3,000 50 30 A	
W1AU 23,584 176 67 A	NG2C 11,440 110 52 A	AG3G 60 6 5 A	
W1TO 25,058 187 67 U	W3TB 9,676 118 41 A	K3WW 95,680 598 80 U	
W1YK (N3SX, KB1JLW, KB1JLY, KB1JMA, KB1KKU, ops) 18,270 145 63 S	W2IB 9,500 95 50 A	N3RM 34,808 229 76 U	
K2MUN 32,430 235 69 A	K2NNY (K2DB, N1OKL, AF2K, N2OPW, KA2IYB, K2CS, N2TWI, op) 47,886 347 69 A	WA3AAN 19,008 144 66 U	
N2F 30,600 255 60 A	WE2TPS 21,106 173 61 A	KD3TB (KB3JUZ, N3GNW, ops) 60,006 411 73 M	
N2FF 30,600 255 60 A	WB2TPS 21,106 173 61 A		
W1TL 20,618 169 61 A	NP3D 18,910 155 61 A		
K1VU 18,666 153 61 A	N2AMC 15,656 103 76 A		
N1DD 15,950 145 55 A	WB2LOS 11,600 100 58 A		
K1QK 13,300 133 50 A	WB2OQQ 11,016 81 68 A		
KD1XX 10,058 107 47 A	WB2BXO 9,680 110 44 A		
K1WCC 8,170 95 43 A	WB2RXS 8,282 101 41 A		
KB1HDO 5,772 78 37 A	WB2TWS 7,802 83 47 A		
K1SM 4,554 69 33 A	WB2KHE 12,342 121 51 A		
KY1B 4,284 51 42 A	K2DO 7,700 110 35 A		
W1OH 1,320 30 22 A	WB2KS 10,980 122 45 A		
W1MJ 576 18 16 A	W2WC 10,608 136 39 A		
W1CRK 108 9 6 A	K2XA 7,990 85 47 A		
K1NU 36,024 228 79 U	WA2JQK 6,992 76 46 A		
N1AU 16,790 115 73 U	WB2TWS 57,600 384 75 M		
K1RSO 6,642 81 41 U	WB2TWS 57,600 384 75 M		
KD1EA 4,800 60 40 U	NJ1F 2,304 48 24 A		
AG1C (+K1RDD) 69,150 461 75 M	K2DL 2,150 43 25 A		
N1OEF (+logger) 10,848 113 48 M	WE2F 122,460 785 78 U		
Maine	K2E2D (+WA2JQK) 39,480 329 60 B		
W1AO 161,476 1022 79 B	K2QPN 7,954 97 41 B		
KV1J 9,776 104 47 B	KV2M 41,884 283 74 A		
N1FQ 25,704 204 63 A	W2ORA 13,152 137 48 A		
KD1O 11,368 116 49 A	K2BL 5,112 71 36 A		
N1LW 9,600 100 48 A	KA2BXH 676 26 13 A		
KX1E 6,478 79 41 A	W5K1 510 17 15 A		
W1MAT 4 1 2 A	W2CE 26,664 202 66 Q		
N1HMB 2,300 50 23 Q	N2OO 12,342 121 51 Q		
K1JB 118,580 770 77 U	W2MC 7,254 93 39 Q		
New Hampshire	AD3Y 864 24 18 Q		
WV1G 15,070 137 55 B	W2RDS 61,292 398 77 U		
K1NQ 21,712 184 59 A	KE2SD (+N2SA) 34,970 269 65 M		
K1TR 18,900 175 54 A	WA2UMX (N2FEP, KH2H, KA2DHZ, N2EKQ, ops) 39,480 329 60 B		
W1PS 14,640 120 61 A	K2E2D (+WA2JQK) 39,480 329 60 B		
NE1B 1,998 37 27 A	WB2TWS 57,600 384 75 M		
N1DDF 98 7 7 A	N2RDS 61,292 398 77 U		
NM1W 33,984 236 72 U	Northern New Jersey		
N1FOJ (+W1YVM, WA1VKO) 127,140 815 78 M	WA2QNM (N2FEP, KH2H, KA2DHZ, N2EKQ, ops) 39,480 329 60 B		
W1MKY (+AF1T, WA1VKO) 82,212 527 78 M	WB2TWS 57,600 384 75 M		
KC1F (+packet) 63,516 402 79 M	WB2TWS 57,600 384 75 M		
Rhode Island			
W1WIU 19,200 150 64 B	K2YH 17,556 154 57 A		
	K2DBK 14,800 148 50 A		

AJ3M	28,674	243	59	U	K8SCH (K4BRI, WD8NMV, N8ASV, KG8AP, WB8JHT, KA3MTT, AC4XS, WA6EZV, WB4SUV. ops)	38,700	258	75	M	K4FAU (N3HV, W1UY, KG4PVX, AB4RL, WD4V, KG4IMT, N4YQU, ops)	10,058	107	47	M	WF1L	16,416	144	57	A
N3HUV	15,860	122	65	U						N4CU (+KE4NNF, KI4CQG, KE4MVG, N4IEW)	8,712	99	44	M	NA4MA	16,300	163	50	A
K3GV	6,612	87	38	U						KG4MLC (+K4BVL, N4CU)	6,314	77	41	M	W4BNO	16,166	137	59	A
N3OC (+K3FT, WR3Z)	228,942	1449	79	M	North Carolina					N2VA	15,840	144	55	A					
W3JX (+W3WC)	124,020	795	78	M	NX9T	143,306	907	79	B	WA0DYJ	15,250	125	61	A					
K3DI (+W3UL, W3UL)	121,760	761	80	M	N4CW	86,702	563	77	B	KJ4HZ	15,120	140	54	A					
K3ASK (+KB3EEJ, K3TH, K3BAY, KB3KAQ, K3RLR)	25,472	199	64	M	KG4NEP	77,250	515	75	B	N4DWK	14,256	132	54	A					
KI3DS (KB3JCN, AA3RR, + ops)	22,360	172	65	M	N0KTY	37,050	247	75	B	K4PZC	11,988	111	54	A					
KB3JJY	12	3	2	S	WB4MSG	35,880	276	65	B	KE4MIL	11,590	95	61	A					
					W4UFO	15,158	143	53	B	N8GM	11,220	110	51	A					
Western Pennsylvania					K4SV	10,340	110	47	B	K1SO	11,040	120	46	A					
K3CR (LZ4AX, op)	221,208	1418	78	B	N4TL	6,764	89	38	B	KF4TJJ	10,700	107	50	A					
W3SO (W3YOZ, op)	95,810	715	67	B	KZ2I	151,996	962	79	A	N3MA	10,560	120	44	A					
N3EMF	9,152	104	44	B	W2DZO	84,208	554	76	A	K4GM	10,290	105	49	A					
KE3KD	25,900	185	70	A	NI4S	48,988	331	74	A	K4EU	10,028	109	46	A					
KA3UOL	12,596	134	47	A	WB2RHM	33,264	231	72	A	Tennessee									
WB3AVD	10,464	109	48	A	KK4RV	24,012	174	69	A	W4NZ	53,280	360	74	B					
WB3LKO	8,096	88	46	A	N4JAH	21,838	179	61	A	KE4KMG	50,666	329	77	B					
N3LL	7,980	95	42	A	N4HXI	19,468	157	62	A	K4BP	27,720	210	66	B					
W4ZE	5,168	76	34	A	W4TME	15,120	135	56	A	W4RK	19,176	188	51	B					
KN3A	14,504	148	49	Q	K4HA	11,660	106	55	A	K4WX	208,876	1322	79	A					
WB0IWG	60	6	5	Q	AE4NR	2,912	52	28	A	NA4K	129,792	832	78	A					
AD8J	69,108	443	78	U	N4NTO	2,820	47	30	A	W0A0	98,276	622	79	A					
					AE4EC	2,666	43	31	A	AB4GG	72,600	484	75	A					
Alabama					N4ZAK	14,664	141	52	Q	W4DAN	63,788	431	74	A					
KY5R	187,200	1200	78	B	WB4MS	3,120	52	30	Q	NY4N	62,196	426	73	A					
K4WI	95,940	615	78	B	KA4R	14,466	141	53	M	K4LTA	56,056	364	77	A					
K0YR	74,880	480	78	A	WB4TOP (KB4VTJ, W4FMN, KD4UYE, KQ4MS, ops)	3,168	44	36	S	K4BEV	53,428	361	74	A					
W4NTI	69,160	455	76	A	WB4OMM	76,320	477	80	A	WA4OSD	27,090	215	63	A					
AB4MT	66,272	436	76	A	N4KW	43,654	299	73	A	K4AMC	24,832	194	64	A					
AB4EJ	48,720	348	70	A	N1BBN, WB4KIJ, K4KQJ, ops)	14,946	141	53	M	W4TDB	18,644	158	59	A					
K4ZGB	45,276	343	66	A	W4YK (KG4BNB, KO4JN, K2SST, N1BBN, WB4KIJ, K4KQJ, ops)	31,200	260	60	S	AD4EB	17,928	166	54	A					
K4EQH	24,424	172	71	A	WB4EBA	21,672	172	63	A	W4MEA	14,364	133	54	A					
K4OE	17,050	155	55	A	WB4OMM	76,320	477	80	A	WN4M	13,500	135	50	A					
KM4JA	11,960	115	52	A	N4KJN	43,188	231	74	A	K4MRR	12,152	124	49	A					
KC4VJB	9,672	78	62	A	WB2GRX	13,000	130	50	A	K0EJ	11,970	105	57	A					
					WB4EBA	21,672	172	63	A	WD4PTJ	11,970	105	57	A					
Georgia					N4PA	19,950	533	75	A	W4NI	10,580	115	46	A					
K4SSU (NA4BW, op)	247,572	1587	78	B	KC4R	19,950	533	75	A	N4VM	9,996	102	49	A					
K4BAI	199,368	1278	78	B	WB4OMM	76,320	477	80	A	NN5A	9,888	103	48	A					
W4BD	97,820	670	73	B	N4KJN	120,536	793	76	U	K3CQ	9,374	109	43	A					
WY4Y (NE4IL, op)	67,744	464	73	B	WB2GRX	13,000	130	50	A	WA4AJA	9,016	98	46	A					
N4LR	170,640	1080	79	U	WB4OMM	76,320	477	80	A	W9WI	7,980	95	42	A					
W4ATL	164,794	1043	79	A	N4KJN	199,360	1246	80	M	AD4F	7,400	100	37	A					
AA4LR	112,632	722	78	A	WB4OMM	76,320	477	80	A	NA4IT	7,176	92	39	A					
K4SB	52,896	348	76	A	N4KJN	199,360	1246	80	M	W4MEA	7,040	88	40	A					
KN6RO	39,274	269	73	A	WB4OMM	76,320	477	80	A	WN4M	5,822	71	41	A					
WB4QDX	24,192	192	63	A	N4KJN	120,536	793	76	U	WD4K (K0EJ, op)	26,928	204	66	U					
KU8E	18,696	164	57	A	WB4OMM	76,320	477	80	A	W4GHD	37,668	258	73	M					
AE4Y	17,172	159	54	A	N4KJN	199,360	1246	80	M	NP2DJ	26,928	204	66	U					
K4STT	14,850	135	55	A	WB4OMM	76,320	477	80	A										
KI4ASK	13,530	123	55	A	N4KJN	199,360	1246	80	M	Virgin Islands									
K4TNP	12,720	120	53	A	WB4OMM	76,320	477	80	A	WP2Z (KH6ND, op)	285,636	1831	78	B					
KE4ZVF	10,504	101	52	A	N6VUY	21,460	185	58	A	KG4GJ	28,380	215	66	A					
KK4Z	5,712	68	42	A	WB4OMM	76,320	477	80	A	KP2A (KW8N, op)	351,392	2224	79	U					
KG4VTY	2	1	1	A	WB4OMM	76,320	477	80	A	NP2DJ	26,928	204	66	U					
WB6BWZ	20,520	171	60	Q	N2IXX	11,960	115	52	A										
KK4DF	11,186	119	47	Q	WB4OMM	21,948	186	59	A	N4TO	28,776	218	66	B					
KT4Q (+K3FZ)	89,744	568	79	M	N2IXX	11,960	115	52	A	N4GI	15,496	149	52	B					
					WB4OMM	21,948	186	59	A	WB9UJS	14,740	134	55	B					
Kentucky					WB4OMM	21,948	186	59	A	K4GKD	67,760	440	77	A					
N4GN	48,106	359	67	B	N2IXX	2,000	40	25	A	N2EGO	18,880	160	59	A					
N4XM	11,200	112	50	B	WB4OMM	2,000	40	25	A	N9TMU	14,190	129	55	A					
N4RZ	182,248	1199	76	A	WB4OMM	2,000	40	25	A	KJ8F	14,152	122	58	A					
K3UD	66,272	436	76	A	WB4OMM	2,000	40	25	A	K8OSF	12,648	124	51	A					
KB4AMA	59,700	398	75	A	WB4OMM	2,000	40	25	A	WN4DX	9,064	103	44	A					
AC4PY	47,250	315	75	A	WB4OMM	2,000	40	25	A	K4JHK	1,092	26	21	A					
K3VIN	32,430	235	69	A	WB4OMM	2,000	40	25	A	N2UM	5,200	65	40	Q					
K4IE	32,128	251	64	A	WB4OMM	2,000	40	25	A	W4ZW	22,914	171	67	U					
KG4NNK	23,058	183	63	A	WB4OMM	2,000	40	25	A	NJ4M (K1TO, K4LOG, K8NZ, WD4AHZ, ops)	277,120	1732	80	M					
WX4ME	18,526	157	59	A	WB4OMM	2,000	40	25	A	K4FCG (K4OJ, K4LW, ops)	25,132	206	61	M					
KO4OL	14,040	135	52	A	WB4OMM	2,000	40	25	A										
KG4OJC	13,804	119	58	A	WB4OMM	2,000	40	25	A										
WE4Q	13,640	110	62	A	WB4OMM	2,000	40	25	A										
WB4QNG	9,000	100	45	A	WB4OMM	2,000	40	25	A										
KD4PYR	2,744	49	28	A	WB4OMM	2,000	40	25	A										
W4KBR (KC4WQ, op)	14,036	121	58	Q	WB4OMM	2,000	40	25	A										
KD4SN	73,008	468	78	U	WB4OMM	2,000	40	25	A										
K4WW	70,148	494	71	U	WB4OMM	2,000	40	25	A										
					WB4OMM (+AJ2U, K2WR, K4PG, N4BP, W4OV)	256,152	1642	78	M	WA4FXX	16,470	135	61	A					
										N5II	14,734	139	53	A					
										Louisiana									
										W5WMU	287,360	1796	80	B					
										AF5P	24,924	201	62	B					
										KG5VK	133,536	856	78	A					
										N5CRO	69,160	494	70	A					
										K5ER	46,664	307	76	A					
										N5YE	45,504	316	72	A					
										W5EKF	36,820	263	70	A					
										N5II	14,734	139	53	A					

WA5TWL	8,008	91	44	A	W5KFT (WM5R, op)	251,062	1589	79	B	K6AUC	35,400	300	59	U	K0BEE (+AI6V)	173,958	1101	79	M
W5DDX (K1DW, op)	6,724	82	41	A	W5ASP	170,240	1064	80	B	WA6MHW	34,452	261	66	U	K6KM (+AD6TF)	142,042	899	79	M
W5WZ	360	15	12	A	W5RQ	155,386	1009	77	B	N6AJR	14,098	133	53	U	N6RER (+logger)	136,828	866	79	M
W5GAD (KD5BPR, N5OGW, N5UXT, N5AXA, WA5RT, AF4AN, KD5EWD, AC5TM, W5KB, W9ULR, ops)	55,626	381	73	M	W5TTX	24,480	170	72	B	AI6YL (+WA6VEF)	158,400	990	80	M	K6ST (+K16IV)	39,128	292	67	M
					W5XD	9,844	107	46	B	W6JZH (+WA6VEF)	132,088	869	76	M					
					K5MLC	2,176	34	32	B	K6TTX (+K7GT, AE6IQ)	8,372	91	46	M					
					K5WA	227,520	1422	80	A										
					N5TW (KC5YKX, op)	175,252	1138	77	A										
Mississippi										Los Angeles					San Diego				
N5PA	208,000	1300	80	B	KD5LNO	48,180	330	73	A	K6LA	245,690	1555	79	B	W6YOO	21,900	146	75	B
WA5OYU	178,794	1161	77	B	W5JEN	26,164	211	62	A	W6UE	101,470	695	73	B	WN6K	129,792	832	78	A
N5PU	13,104	117	56	B	K5KW	24,924	201	62	A	W4EF	15,496	149	52	B	AA6EE	16,874	143	59	A
KJ5RC	21,164	143	74	A	N5RLQ	21,594	183	59	A	WA6HXF	19,890	153	65	A	KB6VME	7,830	87	45	A
NI5F	10,622	113	47	A	KC5RPF	20,900	190	55	A	KO6YN	15,232	136	56	A	W6MVW	780	26	15	A
KN4QS	28,470	219	65	Q	ND5Q	19,712	154	64	A	K6ZCL	13,720	140	49	A	K6ZH	69,204	438	79	U
KE5K	45,892	298	77	U	K5EJL	12,096	126	48	A	KO6YO	8,730	97	45	A	N6VH	30,912	224	69	U
					WB5IZD	10,368	108	48	A	WA6BIL	5,112	71	36	A	N6K1 (+KB5MU, NN6X, AD5FS, KG6STX)	179,804	1138	79	M
New Mexico					N5AF	8,658	111	39	A	WA6BOB	1,584	33	24	A					
K5TA	317,600	1989	80	B	NX5M	1,080	30	18	A	AD6IZ	1,020	30	17	A					
WA7LNW	160,000	1000	80	B	KG5U	20,570	187	55	Q	WA6ITF	2	1	1	A					
N6ZZ	24,168	228	53	B	K5NZ	132,000	825	80	U	W6AQ	47,002	331	71	Q					
W5JOV	10,812	106	51	B	KK5LO	72,048	456	79	U	W6RCL	33,040	236	70	Q					
N2IC	47,748	346	69	A	WA5AA	65,440	409	80	U	K6IPV	22,044	167	66	Q					
W5GZ	43,878	309	71	A	K5IX	23,858	151	79	U	W6SW	55,440	360	77	U					
AB5JR	11,520	120	48	A	KS5V (+N5RL, W5JLR)	66,836	434	77	M	K6AA (KB6WKT, K1SL, KB6ATT, W6HB, N6UB, W7IXL, K6NT, ops)									
K5PAX	9,936	92	54	A	N5XU (K5PI, K5TWJ, KM5TY, ops)	63,040	394	80	M										
AD5GE	1,288	28	23	A															
K5MJE	56,316	361	78	Q	N5OW (+KK5XM)	40,040	286	70	M	Orange									
WA0SXV	29,484	189	78	U						K6NR	168,000	1050	80	B					
KK5OV (+KB5ZSK)	20,832	168	62	M	K5DU (+K5NA)	26,228	166	79	M	N6ER	48,618	333	73	B					
									WA6BFW	30,624	232	66	B						
North Texas					N5KAE (+KD5CXD)	23,712	152	78	M	KB7V	21,172	158	67	B					
W5WW	260,320	1627	80	B	N5RBC (+N5QVS)	23,184	161	72	M	K6HRT	19,760	190	52	B					
K5ZO	219,360	1371	80	B	N5VHO (+KD5CAA)	2,508	38	33	M	K6AM	159,900	1025	78	A					
K1NT	127,360	796	80	B					AA6PW	153,892	974	79	A						
WD5K	166,080	1038	80	A					N6HC	86,550	577	75	A						
W5BL	53,746	349	77	A					WA6GFR	13,750	125	55	A						
W5WB	44,530	305	73	A	West Texas					W6RTW	9,912	118	42	A					
N5LFE	43,808	296	74	A						W6NT	9,240	105	44	A					
K5EEN	30,030	231	65	A	W5AJ	184,080	1180	78	A	N6VNI	8,648	92	47	A					
N0RQ	19,890	153	65	A	N5RZ	43,260	309	70	A	KA6GMA	3,366	51	33	A					
N1CC	18,260	166	55	A	KU5S	39,424	256	77	A	WA6OGO	3,100	50	31	A					
WB5BYO	17,710	161	55	A	NZ5M	476	17	14	A	N6ISY	1,900	38	25	A	KO6BB	26,240	205	64	A
W5WRE	14,632	118	62	A	N5DO (K5FD, KE5OG)	257,920	1612	80	M	KE6CC	23,296	182	64	Q	WL7NN	15,544	134	58	A
N5KR	13,952	109	64	A	W5LCC (KC5OBX, KB5UOP, KC5MVZ, KE5BL, KC5RWK, KC5QKV, KB5KYJ, ops)	173,920	1087	80	M	W6HT	25,986	213	61	U	KI6PG	13,932	129	54	A
KA5TXL	13,624	131	52	A					W6EEN (+K6XC, W6ORD)	172,852	1094	79	M	K6CSL	9,588	102	47	A	
AA5ZZ	13,176	108	61	A										KF6FIR	836	22	19	A	
WB5VGI	11,696	136	43	A	N5ZMP (+N5XXD)	36,806	239	77	M	N6IV	1,050	25	21	Q					
KM5OL	9,900	110	45	A						K6MI	2	1	1	Q					
W5LL	9,292	101	46	A						N6NZ	175,064	1108	79	U					
KC5OZT	9,152	104	44	A						WK6L	133,760	836	80	U					
W5NOS	8,342	97	43	A						W6ML (W6KC, op)	107,124	678	79	U					
					6 East Bay					WF6C (KU6J, op)	69,300	450	49	U					
KD5YIL	7,470	83	45	A						WA6OEC	44,104	298	74	U					
N5NJ	5,822	71	41	A						K6OQ	25,560	180	71	U					
NB5Z	2,160	40	27	A						W17F	23,400	195	60	U					
WA8ZBT	60,192	418	72	Q						W6XK (+NR6N)	230,560	1441	80	M					
KJ5RM	34,584	262	66	Q						N6EE (+NLK)	92,430	585	79	M					
WK5K	8,346	107	39	Q															
AA5NT	181,600	1135	80	U															
W5GN	179,646	1137	79	U															
K5QX	24,160	151	80	U															
N3JI (+K5VPO)	36,806	239	77	M															
K5DM (KC5KDM, WD5FEE, ops)	22,044	167	66	M															
					WB5FTF	6,888	82	42	B										
KD5KRB (KD5KRB, ops)	172,852	1094	79	S	W6KRI	2,688	42	32	B										
WA5BU (KC5CGH, KD5PHB, ops)	4	2	2	S	KF6ZSN	312	13	12	B										
					KE6QR	38,352	282	68	A										
					K6XV	36,828	279	66	A										
					AE6C	19,864	191	52	A										
					KG6NDO	19,536	148	66	A										
					K6SV	11,500	125	46	A										
					K2KW	16,500	165	50	B										
					K6BIR	10,976	112	49	A										
					KC6QLV	9,900	99	50	A										
					N1GF	6,400	100	32	A										
					W6OA	6,004	79	38	A										
					KQ6TW	2,376	44	27	A										
					N6DA	1,672	44	19	A										
					NN6E	598	23	13	A										
					K7GT	442	17	13	A										
					N9SR	110	11	5	A										
					W6EU	198,240	1239	80	U										
					WZ6Z	195,200	1220	80	U										
					N6RO	148,204	938	79	U										
					K6DGW	70,224	456	77	U										
					NT6K	56,016	389	72	U										
					KI6T	50,172	339	74	U		</								

W6PRI	18,564	182	51	A	KG9JP	27,040	208	65	A	N7XB	9,568	104	46	A	WA8YPY	12,300	123	50	A
N6BCT	11,368	116	49	A	N3AIU	24,120	201	60	A	KK7LU	7,740	86	45	A	W8PDI	11,856	114	52	A
N6YD	7,904	104	38	A	KE7YF	19,360	176	55	A	N7VS	6,880	86	40	A	N8KZG	11,224	122	46	A
W1MVY	7,708	82	47	A	NN7D	17,064	158	54	A	KD7RZA	4,312	49	44	A	W8KZP	10,486	107	49	A
WA6JIQ	4,624	68	34	A	NN7A	11,832	116	51	A	KC6MZY	2,976	48	31	A	K8GVK	10,388	106	49	A
K6YT (W0YK, op)					AA9MX	11,448	108	53	A	W7SST	920	23	20	A	W8EGI	9,200	100	46	A
	206,560	1291	80	U	KE2GG	4,620	55	42	A	K7GX	874	23	19	A	KC8RQV	9,116	106	43	A
K6XX	197,280	1233	80	U	KK7AC	2,000	40	25	A	N5ZR	816	24	17	A	KA8VPF	9,030	105	43	A
W6RQ (N7MH @ W6YX, op)					W7LDT	1,488	31	24	A	W7YAQ	49,284	333	74	Q	WQ8X	7,392	88	42	A
	150,720	942	80	U	N7VY	80,660	545	74	Q	W7SIR (+N7HA, W7PAT)					WA8AEN	7,128	99	36	A
AB6WM	128,700	825	78	U	NN7XS	14,204	134	53	Q		52,560	365	72	M	W8UE	6,912	108	32	A
K6WW (AE6Y @ N6XI)					W0YHE	6,320	79	40	Q	N7TL (+WB7UFJ, KC7Q)					N8QP	6,384	84	38	A
	126,400	790	80	U	K6LL	308,000	1925	80	U		44,446	313	71	M	W8ISC	6,348	69	46	A
W6NL	120,080	760	79	U	W7AH	32,340	210	77	U	KK6WF (+KC7UWS)	31,536	216	73	M	WB8RFB	5,472	76	36	A
K6III	112,480	703	80	U	KT7AZ (+K6RFA, W6BBL, W6KAT)									K8SB	5,400	75	36	A	
N7MH	111,900	746	75	U		67,800	452	75	M					K8RWG	4,536	63	36	A	
WA6KBL (N16T, op)					N7VF (+KC7ILX)									N8DY	1,632	34	24	A	
	110,080	688	80	U		51,750	375	69	M					N8SR (@N8JJ)					
AE6Y	103,026	669	77	U	K7RDG (WB6OTS, KD7OED, KD7PEH,										1,044	29	18	A	
AK6L (@K6XX)					KD7HAB, KD7YSW, KD7TDL,									AB8OA	600	20	15	A	
	99,698	631	79	U	KD7SSN, WD8DOM, ops)									N8NM	46,920	340	69	Q	
W6IOS (N6DE @ K6GT, op)						34,840	268	65	M	W7UT	169,060	1070	79	U	K8IR	41,344	304	68	Q
	98,592	624	79	U	K7UAZ	104,258	677	77	S	WI7J (+N7KEC)					NZ8O (K8CC, op)				
WA6O (@N6XG)					KA7SKY	10,028	109	46	S		4,760	68	35	M		28,914	237	61	Q
	97,328	632	77	U										NA8M	20,160	168	60	Q	
ND2T	96,750	645	75	U	Eastern Washington					Western Washington					K1ND	6,080	76	40	Q
W6BAZ (K6KLY, op)					WA7LT	172,480	1120	77	B	W7WA	286,400	1790	80	B	N8SNM	112,050	747	75	U
	90,012	577	78	U	KD7OY	22,800	190	60	B	K7QQ	175,840	1099	80	B	K8EO	20,368	152	67	U
NI6T	89,474	581	77	U	W6AEA	3,894	59	33	B	K7VI	29,812	257	58	B	WB0WAO	16,280	148	55	U
AD6E	79,092	507	78	U	WS7V	59,422	407	73	A	WG7X	26,624	208	64	B	K8CC (+N8OS, WX3M)				
N6DE	78,128	514	76	U	K7AWB	46,150	325	71	A	W9PL	25,376	208	61	B	244,584	1548	79	M	
N3ZZ	75,816	486	78	U	W7WMO	15,232	136	56	A	W7CO	20,272	181	56	B	NT8V (+ AC8W, K8DD, K8WMW, W8XI)				
NW6P	71,890	455	79	U	K7VAL	10,904	116	47	A	KG7P	18,908	163	58	B	110,572	718	77	M	
N6XG	70,650	471	75	U	WR7K	8,366	89	47	A	N7DOE	11,520	120	48	B	N8MR (+KC8NAH)				
K6KLY	70,300	475	74	U	K7EKM	8,342	97	43	A	W7LKG	3,840	60	32	B	48,300	350	69	M	
K6RB	69,708	471	74	U	K7MM	48,840	330	74	Q	AJ7Y	59,360	424	70	A	N8QGC (+VA3IDJ)				
K6EP	68,484	439	78	U	K7OX	189,384	1214	78	U	W7QN	42,904	346	62	A	43,800	300	73	M	
K6GT	67,784	458	74	U	WX7P (+KL7LL)					WA6AWD	30,208	236	64	A	K8AE (+WB8AFO)				
K6ZM (K6GT, op)						62,920	484	65	M	KJ7WN	14,880	155	48	A	41,210	317	65	M	
	57,900	386	75	U	Idaho					K7T7G	11,984	107	56	A	K8GER (+N8KV, K8DT)				
W6ISO	57,876	371	78	U	K0TO	170,786	1109	77	B	W7CEG	11,790	131	45	A	34,190	263	65	M	
K6UFO	56,392	371	76	U	K7ZO	8,858	103	43	B	K7DLJ	8,184	93	44	A	W8ZHO (KC8TBX, AB8QH, KC8PLL, KC8UWK, ops)				
N6TU	53,850	359	75	U	WA7DX	67,184	442	76	A	N7MI	8,160	102	40	A	24,830	191	65	M	
W7SW	50,512	328	77	U	KE7RT	48,280	340	71	A	N7WA	8,036	98	41	A	AB8NY (+AB8NZ)				
KE6FI	49,136	332	74	U	WB7CYO	14,580	135	54	A	W7MCK	7,708	94	41	A	24,240	202	60	M	
W6ISQ	48,000	300	80	U	K7DSQ	14,178	139	51	A	AA7VT	6,560	82	40	A	KC8OBH (+KC8PKY)				
N6EM	47,736	306	78	U	KK7X	12,700	127	50	A	KK7UZ	5,256	73	36	A	24,034	197	61	M	
NR6S	42,632	292	73	U	KW7N	11,286	99	57	A	W7RGL	2,200	50	22	A	N8UZE (+KB8BSG)				
WA4FIB	38,778	281	69	U	KL7FDQ	9,450	105	45	Q	KB7N	2,072	37	28	A	15,640	115	68	M	
K6RFM	32,640	240	68	U	WN7Y	1,040	26	20	Q	WR5J	728	26	14	A	AB8PW (+KC8TDN)				
W4NJK	22,272	174	64	U	KJ7TH (+KD7VWX)					K7ABL	144	9	8	A	11,960	115	52	M	
W6ZZZ	20,400	204	50	U		84,214	533	79	M	N9ADG	7,392	88	42	Q	KC8ELY (N8NJE, N8MMF, N8MPO, ops)				
K6BL	18,900	175	54	U	KI7RO (+KB7LFO, KD7PKH)					N7RVD	2,704	52	26	Q	9,328	106	44	M	
W6AMM (ND2T @ AC6JT, op)						18,924	166	57	M	K7RL	256,800	1605	80	U	KI8GR (+W8ISS, N8PV)				
	13,440	140	48	U	W7UQ (KL9A, KC7RSO, KD7YBZ, ops)									W7DK (WA7IVO, AE7RW, AD7AB, KD7TRC, KD7TRA, KD7UBI, KD7SXZ, KC0WE (+KC8WJR))					
K3KOA	12,296	116	53	U		48,604	419	58	S						2,744	49	28	M	
K6GFJ	8,648	92	47	U	Montana						34,146	271	63	M	Ohio				
KI6L	7,568	88	43	U	KS7T	61,568	416	74	B		W7VMI (N0AX, KD7FWQ, ops)				K1OU	169,554	1101	77	B
W6SC	3,180	53	30	U	NB7V	39,200	350	56	B		32,248	278	58	M	K8MR	114,036	731	78	B
W6OAT (+WA1QQK)					K7BG	51,992	388	67	A					K8CI	33,552	233	72	B	
	181,440	1134	80	M	AA7YA	49,200	328	75	A					W8GG	26,702	169	79	B	
W6YX (K6UFO, W6RQ, W6FEL, ops)					KI0BJ	34,524	274	63	A					AC8E	24,840	207	60	B	
	177,118	1121	79	M	K7SAM	26,196	177	74	A					K5ZG	8,400	100	42	B	
K6IF (@W6YX) (+W6LD)					N7VMR	22,420	190	59	A					W8CWG	3,968	64	31	B	
	132,878	841	79	M	KD7II	2,542	41	31	A					K3GP	1,080	27	20	B	
N6RC (+W6ZZZ, N6RCE)					KL7FDQ	9,450	105	45	Q					N8BQJ	616	22	14	B	
	89,984	592	76	M	WN7Y	1,040	26	20	Q					N0FW	171,200	1070	80	A	
N6CQP (K2RD, W1NN ops)					K7ABV	30,360	220	69	U					W8DD	152,256	97	78	A	
	24,024	182	66	M										K8BL	128,856	826	78	A	
W6MLP (N2RHV, KG6NFG, ops)														ND8DX	122,928	788	78	A	
	11,468	122	47	M	Nevada														
AA6W (+NU6P)					K7NV	102,180	655	78	B										
	7,068	93	38	M	WX7M (K7NV, op)														
						83,400	556	75	B										
7					KI7GN	5,762	67	43	B										
Alaska					N7ON	43,654	299	73	A										
KL7J	41,316	313	66	B	WB7QBO	20,212	163	62	A										
AL1G	14,520	165	44	B	KQ6MU	17,850	175	51	A										
KL7D	7,440	93	40	B	KC7NUP	12,768	133	48											

	W8NHO	10,350	115	45	A	W9CEO	14,400	144	50	A	W9UIH (W0TPO, op)	11,336	109	52	S	0	Colorado			
N8YF	10,032	88	57	57	A	W9LYA	13,728	132	52	A	K9NW	161,950	1025	79	B	K0GAS	93,024	612	76	B
W8DYF	9,000	100	45	45	A	W9SZ	12,672	132	48	A	N9RV	160,992	1032	78	B	W0ZU	20,944	154	68	B
W8CAR	7,680	96	40	40	A	N9KDJ	11,760	120	49	A	WT9U	116,886	759	77	B	KE4RHU	2,070	45	23	B
W8IDM	5,658	69	41	41	A	N9BT	11,500	115	50	A	KJ9C	104,364	669	78	B	K0UK	187,680	1173	80	A
WD8NVN	3,060	51	30	30	A	WD9EJK	11,232	104	54	A	W9RE	126,400	800	79	B	W0AH	183,912	1164	79	A
N8IE	66,882	471	71	71	Q	AB9DO	10,716	94	57	A	N9QX	37,248	291	64	B	NN0G	41,942	313	67	A
N8XA	11,544	111	52	52	Q	W9DLS	10,302	101	51	A	N9HZ	35,658	283	63	B	W0LSD	32,976	229	72	A
N8TR	109,760	686	80	80	U	WR9N	9,800	98	50	A	K9IG	33,320	245	68	B	KC0IGY	17,596	166	53	A
N8OH	84,360	555	76	76	U	AB9AX	9,600	100	48	A	AJ9C	154,208	976	79	A	K0SSE	12,672	132	48	A
WT8C	51,350	325	79	79	U	W9IB	9,540	106	45	A	W9SN	133,304	877	76	A	AC7FY	9,682	103	47	A
AF8C	31,392	218	72	72	U	N9NA	9,116	106	43	A	K9BG	65,520	455	72	A	KC0PBP	9,540	106	45	A
W8TAH	10,300	103	50	50	U	W9JTT	9,000	100	45	A	WA1MKE	60,300	402	75	A	K10II	29,078	217	67	Q
N8HR (WZ8P, KE8YP, WX8J, W8FHF, N0KYN, KC8BEW, KC8TDS, N8OFK, ops)	233,220	1495	78	78	M	KB9WQJ	7,568	86	44	A	WE4YL (KE9R, op)	54,000	375	72	A	WV0H	20,984	172	61	Q
K8CBS (+KC8VCY)	105,150	701	75	75	M	K9GK	7,548	102	37	a	K9AF	40,896	288	71	A	K10RB	10,098	99	51	Q
W8FT (WD8PTB, N8RMF, N8RMT, KC8TZR, ops)	43,960	314	70	70	M	W9IB	6,636	79	42	A	W9DR	43,070	295	73	A	K8FC	136,752	888	77	U
WC8VOA (KB8ZYE, W8CDA, W8ND, KC8PTP, W8FEJ, ops)	38,352	282	68	68	M	AG9A	4,160	52	40	A	K0DU (+K0CL, KC0DKX)	253,280	1583	80	M	K0COM	43,928	289	76	U
AA8KJ (+KA8ZMY)	29,808	207	72	72	M	N9EP	4,032	63	32	A	W9DEW	32,004	254	63	A	KS0P (+KC0INX, KC0PEK, KC0EFR, N0HF, KC0OJH, KC0NDS, KC0OJG, AB0TD, AB0YL, KC0FST)	162,932	1058	77	M
N8IVE (+KA8WMF, KA8YTS)	28,860	222	65	65	M	K9DXR	2,728	31	44	A	WZ9A	18,104	146	62	A	K0ZV (+W0CP)	93,220	590	79	M
K8PI (W8EH, W8LKL, WA8DTU, N8GGE, N8HP, KC8URF, KC8TXA, N8DHW, W8ULCm AB8LA, KF8PD, ops)	25,584	164	78	78	M	AA9NF	672	21	16	A	W9HLY	16,500	110	60	A	W0KCF (+W0DSF, N0TOH)	19,398	159	61	M
W8ID (K8ARL, WB8REI, KB8SOU, ops +logger)	17,520	120	73	73	M	KG9Z	176	11	8	A	KB9ORH	13,920	116	60	A	Iowa				
KF8UN (+KC8WTP)	14,416	106	68	68	M	K9KM	84	7	6	A	K9V	13,860	126	55	A	W0PPF	31,464	228	69	B
W8YX (KC8KHL, N9WIV, ops)	4,012	59	34	34	S	KB9YOZ	67,640	445	76	Q	K9EFP	10,464	109	48	A	KB0ENE	23,808	186	64	B
W8ZA	225,280	1408	80	80	U	N9VON	60	6	5	A	W9AU	4,752	72	33	A	N0AC	149,448	958	78	A
N8NIO	192,320	1202	80	80	U	N9AD	192,320	1202	80	U	WN9O	2,600	50	26	A	WN0G	81,760	560	73	A
W9IUI	104,258	677	77	77	U	K9A	147,888	948	78	U	KC9BBA	578	17	17	A	KB0BUV	33,740	241	70	A
W9JF	99,330	645	77	77	U	K9G	145,280	908	80	U	N9NDS	98	7	7	A	K0VM	26,352	216	61	A
W9IWI	156,624	1004	78	78	U	K9IJ	139,040	869	80	U	W9DZ	30,366	241	63	Q	N9OE	21,780	198	55	A
K9FJ	145,040	869	80	80	U	K9IO	104,258	677	77	U	K9FOH	192	12	8	Q	N0SPP	13,090	119	55	A
W9IY	98,714	641	77	77	U	K9JF	99,330	645	77	U	W9IUL	156,624	1004	78	U	AG0M	2,646	49	27	A
W9IY	90,480	580	78	78	U	K9K	146,176	312	74	U	N9KT (+KB9AX)	152,100	975	78	M	KB0VVK	234	13	9	A
W9IY	80	U				K9L	40,896	306	66	U	K9DA (+ logger)	62,776	413	76	M	K0VS	26,880	210	64	Q
W9IY	33,408	232	72	72	U	K9M	40,068	318	63	U	K8IAT (KB9YTT +ops)	26,800	200	67	M	K9UA	780	26	15	Q
W9IY	30,030	231	65	65	U	K9O	40,066	299	67	U	W9NAA (AG4ZP, KC9FAB, AB9IG, ops)	64,526	419	77	S	NU0Q	33,696	234	72	U
W9IY	14,762	121	61	61	U	K9UQN	298,880	1868	80	M	K8IAT (KB9YTT +ops)	81,004	526	77	M	W0CXX (N0LNO, WE0F, AA0KW, ops)				
W9IY	14,022	123	57	57	U	W9MBR	27,064	199	68	U	W9RNN	47,428	334	71	A	K0RHO	171,746	1087	79	B
W9IY	10,800	108	50	50	U	W9HRL	26,740	191	70	U	K9OSH	42,704	314	68	A	W0MW	30,360	230	66	B
W9IY	6,622	77	43	43	U	K9PG	26,260	202	65	U	K9KRA	45,920	340	69	B	K0JJM	110,448	708	78	A
W9IY	3,844	62	31	31	U	KB9YSI	21,942	207	53	U	K9AY	41,124	298	69	B	W0ZC	40,260	305	66	A
W9IY	2,856	42	34	34	U	N9RUX	20,520	171	60	U	KB9KEG	15,618	137	57	B	WB0YJT	32,208	244	66	A
W9IY	1,440	48	15	15	U	KB9VHA	15,960	133	60	U	WW9R	6,080	95	32	B	KC0GL	25,792	208	62	A
W9IY	1,116	31	18	18	U	W9AWE (NG9R, op)	14,762	121	61	U	K0PJ	87,780	570	77	A	KC0HUU	8,944	104	43	A
W9IY	11,610	129	45	45	A	W9RNM	14,022	123	57	U	WA1UJU	71,856	499	72	A	KA0EIC	8,544	89	48	A
W9IY	11,610	129	45	45	A	W9L	10,800	108	50	U	W9RNL	47,428	334	71	A	W0IE	8,132	107	38	A
W9IY	31,740	241	70	70	A	W9WUU	21,942	191	70	U	K9KRA	45,920	340	69	B	K0VBU	4,650	75	31	A
W9IY	27,572	226	61	61	A	N9TTX	20,520	171	60	U	W9RNL	23,072	206	56	A	W0NO (+K0WA, K0BJ, AB0S, K0FJ)	225,624	1428	79	M
W9IY	21,112	182	58	58	A	W9L	14,022	123	57	U	K0RHH (+N0NB)	117,780	755	78	M	K0RH				
W9IY	14,784	132	56	56	A	W9O	10,800	108	50	U	W0MI (KA0RID, KG0MT, N0KQX, ops)	41,550	277	75	M	W0VRP (+N0ZGO)				
W9IY	14,784	132	56	56	A	W9WUU	13,824	128	54	A	KA0BHO (+KA0BAT)	17,346	147	59	M	KA0BHO	9,030	105	43	M
W9IY	13,824	128	54	54	A	W9RNL	13,824	128	54	A	Minnesotta									
W9IY	11,224	122	46	46	A	W9RNL	11,224	122	46	A	KF0GV	184,960	1156	80	B	K0HB	115,972	734	79	B
W9IY	11,224	122	46	46	A	W9RNL	11,224	122	46	A	K0BUD	60,456	458	66	B	K0GU	24,888	204	61	B
W9IY	9,718	623	78	78	U	W9RNL	11,224	122	46	A	WB0N	14,784	132	56	A	WB0N	14,784	132	56	B
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	K0VG	13,674	129	53	B	K0VG	13,674	129	53	B
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	K0UH	8,360	95	44	B	K0UH	8,360	95	44	B
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	KB0NES	7,104	96	37	B	KB0NES	7,104	96	37	B
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	AC0W	133,826	869	77	A	AC0W	133,826	869	77	A
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	N0KK	132,444	849	78	A	N0KK	132,444	849	78	A
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	WR0DK	87,400	575	76	A	WR0DK	87,400	575	76	A
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	K0EKL	50,694	357	71	A	K0EKL	50,694	357	71	A
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	W0ZQ	43,248	318	68	A	W0ZQ	43,248	318	68	A
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	K0TG	36,960	264	70	A	K0TG	36,960	264	70	A
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	K3WT	34,020	270	63	A	K3WT	34,020	270	63	A
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	AD0W	33,048	243	68	A	AD0W	33,048	243	68	A
W9IY	9,718	623	78	78	U	W9RNL	9,718	623	78	U	KM0O	31,476	258	61	A	KM0O	31,476	258	61	A
W9IY	9,718	623	78</td																	

WB0TRA	19,038	167	57	A	W0YC (K8GU, N0YNT, AG0I, KC0OIH, ops) 18,468 171 54 M	N0GF (KB1BYP, KC0JPP, KE0A, KI0LS, ops) 55,296 432 64 M	VE3BHI 5,328 74 36 A
K0MPH	18,908	163	58	A	Missouri	N0UD (KC0HXF, WB0OAJ, KC0PNO, N0LVW, ops) 29,862 237 63 M	VA3HUN 2,808 52 27 A VE3RM (+VE3WIB, VE3WRL) 175,538 1111 79 M
K0KX	18,392	121	76	A	KW0A (KA0GGI, op)		VE3AA (VE3XLG, VE3BFE, ops) 16,390 149 55 M
K0VH	18,172	154	59	A			
AA0AW	17,808	159	56	A			
N0BUI	17,388	161	54	A	K0OU 172,378 1091 79 B		
K0TK	16,128	144	56	A	K0DEQ 141,094 893 79 B		
N2DUP	12,512	136	46	A	KF0OH 23,364 198 59 B	South Dakota	
WA0WOW	10,812	106	51	A	K0JPL 10,082 71 71 B	W0SD (WD0T, op) 255,840 1640 78 B	VE4YU 15,688 148 53 A
KA0ZPP	10,530	117	45	A	AA0A 3,492 97 18 B	K7RE 108,750 725 75 A	VE4HAZ 4,756 58 41 A
WA2HFI	10,032	114	44	A	WA0IYY 2,242 59 19 B	WB0ULX 11,220 110 51 A	VE4VID 3,520 55 32 A
K0QJ	9,936	108	46	A	W0VD 70,224 462 76 A	K0EWS 7,708 94 41 A	VE4VV 29,640 260 57 Q
WA0OTO	9,072	108	42	A	W0SLW 47,872 352 68 A	K0HW 97,976 662 74 U	VE4MM 23,932 193 62 Q
KF0Q	8,736	91	48	A	KG0KP 36,180 270 67 A	W0KXZ (+N0UCR) 101,752 644 79 M	
W0AMT	7,812	93	42	A	KB0NHW 27,404 221 62 A	K0HS (K0OR, W7VOK, N0IQS, ops) 39,304 289 68 M	Saskatchewan
KC0RCN	6,150	75	41	A	AE0N 21,504 192 56 A	VE5CPU 72,372 489 74 B	
N0BM	4,416	69	32	A	K0DAT 13,500 125 54 A	VE5SF 129,718 821 79 A	
K0NY	3,264	51	32	A	K0LWV 8,556 93 46 A	VE5AAD 16,900 130 65 A	
N0HJZ	2,856	51	28	A	KC0LUX 8,460 94 45 A	VE5HF 10,824 123 44 A	
KI0DI	714	21	17	A	KJ0C 2,184 52 21 Q	VE5JL 9,072 108 42 A	
WA0MHJ	286	13	11	A	AE9B 74,100 494 75 U		
K0MY	2	1	1	A	KB0VVT (+KG0UT, KG0US) 143,840 899 80 M	Alberta	
WA0VBW	40,736	304	67	Q	W0TT 117,868 746 79 U	VE6JY (VE5MX, op) 155,232 1008 77 B	
N0UR	37,422	297	63	Q	VO1AU 17,172 162 53 B	VE6RFM 720 24 15 A	
K0CD	7,524	99	38	Q	VO1TA 44,574 391 57 A	VE6EX 33,394 283 59 Q	
N0IM	64,650	431	75	U	W0EEE (KD9ARC, KC9UMR, KD5AMX, K10PX, K10QB, N4LO, KC0JEO, ops) 60,882 417 73 S	VE6AO (VE6KC, VE6TC, VE6RRB, VE6JAZ, VE6TN, VE6VPD, VE6WSI, VE6OBS, ops) 139,932 897 78 M	
K0AD	37,128	273	68	U	W0UVC 10,720 80 67 Q		
K4IU	30,624	232	66	U	NE0DX 9,694 131 37 Q	Newfoundland-Labrador	
WG0M	17,380	158	55	U	KI0OV 792 22 18 Q	VE2AWR 38,090 293 65 A	
KC0LBT	12,852	119	54	U	K0GND (+WD0EGK, KG0GY, K0NC, K0NEB) 163,688 1036 79 M	VE2FAB 18,700 187 50 A	
N0PO	9,100	70	65	U	N0GVK (+KE0BZ, KC0PUW) 88,322 559 79 M	VE2TSM 13,622 139 49 A	
KT0R (+K0AD, K0OB, K0MX, N0HJZ)	243,794	1543	79	M	VE2DC 10,304 112 46 A	VE2DC 10,304 112 46 A	
					VE2OWL 7,470 83 45 A	VE7NGR 640 20 16 A	
K0EF (WB0N, K0BUD, N0MGQ,						VE7FO (+logger) 59,040 410 72 M	
W0AMT, WC0V, KC0LBT, KB0PJY,						VE7NA (VA7NO, VA7RS, VA7PLH, VE7BGP, VE7GDE, VE7RLH, ops) 16,500 165 50 M	
KN0F, WA1GWE, N0NYH, KOHLA, ops) 52,496 386 68 M						VE7AQS (+VE7SFV, VA7TDS) 6,764 89 38 M	
K0SV (+KC0IRY)							
43,500 290 75 M							
K0JE (+K0JA)							
42,624 296 72 M							
N0WE (+KE0S, KF0Q, K0NY)							
25,740 195 66 M							
KA0DAQ (+N0MY)							
22,388 193 58 M							
N0RPM (+KC0IY, KD5EMB)							
19,716 159 62 M							
Nebraska							
N0WY	36,432	264	69	A	Quebec		
WW0H	21,280	190	56	A	VE2AWR 38,090 293 65 A	British Columbia	
N4OWG	19,234	163	59	A	VE2FAB 18,700 187 50 A	VE7IN 85,768 604 71 A	
K0IL	16,092	149	54	A	VE2TSM 13,622 139 49 A	VE7NS 9,546 111 43 A	
KB0ARZ	11,880	110	54	A	VE2DC 10,304 112 46 A	VA7MJR 6,336 72 44 A	
W0UVC	10,720	80	67	Q	VE2OWL 7,470 83 45 A	VE7NGR 640 20 16 A	
NE0DX	9,694	131	37	Q		VE7FO (+logger) 59,040 410 72 M	
KI0OV	792	22	18	Q	Ontario		
K0GND (+WD0EGK, KG0GY, K0NC, K0NEB) 163,688 1036 79 M					VA3NR 54,300 362 75 B	VE7NA (VA7NO, VA7RS, VA7PLH, VE7BGP, VE7GDE, VE7RLH, ops) 16,500 165 50 M	
N0GVK (+KE0BZ, KC0PUW) 88,322 559 79 M					VE3AGC 97,736 643 76 A	VE7AQS (+VE7SFV, VA7TDS) 6,764 89 38 M	
VE3CR 46,282 317 73 A					VE3MGY 66,672 463 72 A		
VE3RCN 37,092 281 66 A					VE3CR 46,282 317 73 A		
VE3GLO 25,916 209 62 A					VE3RCN 37,092 281 66 A		
VA3SWG 25,344 198 64 A					VE3GLO 25,916 209 62 A		
VE3TW 16,688 149 56 A					VA3NR 54,300 362 75 B	VE7NA (VA7NO, VA7RS, VA7PLH, VE7BGP, VE7GDE, VE7RLH, ops) 16,500 165 50 M	
VA3IX 11,712 122 48 A					VE3AGC 97,736 643 76 A	VE7AQS (+VE7SFV, VA7TDS) 6,764 89 38 M	
VE3XD 10,952 74 74 A					VE3MGY 66,672 463 72 A		
VE3TPZ 7,176 78 46 A					VE3CR 46,282 317 73 A		
North Dakota					VE3RCN 37,092 281 66 A		
N0SJ	16,874	143	59	A	VE3GLO 25,916 209 62 A		
K0UD	9,240	105	44	A	VA3SWG 25,344 198 64 A		
K0VX	5,110	73	35	A	VE3TW 16,688 149 56 A		
N7IV	13,872	136	51	Q	VA3IX 11,712 122 48 A		
					VE3XD 10,952 74 74 A		
					VE3TPZ 7,176 78 46 A		
Northern Territories							
VY1JA	18,232	212	43	B			
VY1MB (+VY1CQ, VY1YT, VY1BD)							
22,914	201	57	M				