

# 1999 ARRL November Sweepstakes Phone Results

There are few things as elegant as a thoroughbred horse race. Whether it's the Kentucky Derby in Louisville, the Travers Stakes at Saratoga or another race at one of the many tracks around the country, we come to appreciate the beauty of the champion. Tradition says all champion horses trace their heritage back to the great sire Eclipse. The names of the great horses are learned by schoolchildren across our land: Man O'War, Whirlaway, Secretariat, Seattle Slew, Alydar, War Admiral; a few more could be added. The legendary are a small, select group of extraordinary competitors.

Not too long ago the ARRL November Sweepstakes was described to me as "the closest thing to a horse race we have in Amateur Radio." Over the years we have witnessed our own "photo finishes" where a few additional QSOs or a busted multiplier meant the difference between winning and finishing back in the pack. And time and again the great ones rise to the occasion. Their calls are legendary. But while American thoroughbred racehorses can trace their heritage to a common ancestor, contesters become thoroughbreds by many paths.

Most of the icons of the sport have been around for quite a while. Most will have a wide variety of contests in their background. You will usually find in their backgrounds a stint at one of the big-gun contest multi-op stations. Their call signs will be associated with some of the high profile DXpeditions. But what ever their path to the "Top of the Box" you will find one common "gene" in their genetic make-up: the desire to push themselves to the limit and challenge their skills.

Whether an operator is striving to take overall honors, improve previous standings, or get on-the-air to make enough QSOs to qualify for the November SS pin or Clean Sweep cup, they all rise to the challenge. At this time in the sunspot cycle, special challenges arise because so many operators participate. In fact, the mean number of QSOs in the 1999 ARRL November Sweepstakes Phone logs was 406.4—the first time that the average has been above 400. After log checking, a total of 413 entries—28.5%—had worked a Clean Sweep. This is the highest percentage of sweeps in the past six years of the Phone SS contest.

Everyone has a system when looking to wager on a winner. It is hard to pick against a horse that has a strong track record. You also look at the entire field. Sometimes the finishes are almost too close to call—a couple of QSOs dictate the outcome. Occasionally a champion will clearly outdistance the field. That's the fun of contesting (and horse racing.) Conditions, propagation, planning, and Murphy can make or break your chances.

Many look to the Single Op High Power



**Brennan, KU4WJ, isn't serving as an on-the-air referee of the Phone Sweeps. He had just arrived at the W4AQL multi-op station after officiating a local football game and was put to work spotting multipliers on packet!**

category as the "Kentucky Derby" of SS. Win it, and you make a name for yourself. In 1999 we have a "horse" who not only dominated an excellent field, but also scored the "daily double," as Rich, KE3Q, operating at WP3R posted victories in this category in both the 1999 Phone and CW November Sweepstakes. Rich finished ahead of another veteran and seasoned champion Mike, KH6ND, who manned the KH7R station. To hit the trifecta in this category, you should have placed your money on Dan, W7WA, to finish a respectable third. While several ops came close, there were no overall or division records set in this category this year.

If they are looking for a "sure thing" the handicappers would be hard pressed to overlook Bob, VE4GV, in the Single Op Low Power entry division. After finishing second in 1996 and 1997, Bob broke through with a category record setting effort in 1998. How did he fair in 1999? He simply took the category to yet another level, breaking his year-old record with a score of 277,606 (also a new Canadian record). It was the only overall scoring record set during the Phone SS contest. Finishing a few lengths behind in the category were Bill, K4XS, and Stan, K8MJZ (operator at WP2Z), in a photo

## Phone Top Ten

### Single Operator, QRP

N7VY	139,620
VE4VV	128,928
N6MU	104,280
(at N6NB)	
KX9X	100,330
NØUR	78,600
KD2TT	72,996
N5XJ	65,412
KIØMB	64,622
WE9V	64,148
N9NE	62,216

### Single Operator, Low Power

VE4GV	277,606
K4XS	240,552
WP2Z	239,212
(K8MJZ,op)	
K4WX	234,156
K5KA	218,988
K7QQ	217,724
VE5SF	214,248
NØKK	211,692
(at NØAT)	
KØUK	210,614
KZ1M	192,602

### Single Operator, High Power

WP3R	407,956
(KE3Q,op)	
KH7R	342,702
(KH6ND,op)	
W7WA	321,846
K6LL	319,792
VE6JY	315,052
(VE5MX,op)	
WØSD	312,840
(WDØT,op)	
K5TR	308,258
(at W5KFT)	
WC4E	289,930
(K9PG,op)	
W6AX	273,656
(at W6GO, N6IG,op)	
A16V	271,602

### Single Operator, Unlimited

K7BV	269,706
W4MYA	236,526
NR5M	234,630
K6AW	232,892
(atN6RO)	
K6NO	221,832
AA8U	213,300
K6RIM	186,914
K6ANP	186,282
K5KG	184,860
KE3DX	179,868

### Multioperator

KL7Y	325,322
K9NS	288,824
K7IR	276,026
KTØR	263,070
W6YX	262,122
W6UE	252,326
W4MR	248,376
(at AA4NC)	
NA5B	243,636
ABØS	243,478
K5MR	241,424

### School Club Winners:

College / University Division	
W7ASU	141,094
Arizona State University	

Technical School Division	
WB4TOP	25,350
Wake (NC) Technical College	

Secondary/Other Schools Division	
KC7KFF	82,852
Carl Hayden Community High School	

## Region Boxes

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

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			Southeast Region (Delta, Roanoke and Southeastern Divisions)			Central Region (Central and Great Lakes Divisions; Ontario Section)			Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)			West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT/Yukon Sections)		
KD2TT	72,996	Q	W2CS	60,988	Q	KX9X	100,330	Q	VE4VV	128,928	Q	N7VY	139,620	Q
W2AZK	39,672	Q	NA4CW	60,216	Q	WE9V	64,148	Q	NØUR	78,600	Q	N6MU (at N6NB)	104,280	Q
AA2VK	33,880	Q	W9WI	49,608	Q	N9NE	62,216	Q	N5XJ	65,412	Q	W6TKV	54,208	Q
WZ2T	31,382	Q	KC3N	29,920	Q	WA8RJF	50,560	Q	KIØMB	64,622	Q	KO6CX	31,666	Q
			KW4E	29,252	Q	WA8RCN	43,200	Q	WA8ZBT	58,500	Q	W6CN	27,334	Q
KZ1M	192,602	A	K4XS	240,552	A	KU8E	184,228	A	VE4GV	277,606	A	K7QQ	217,724	A
K1SD	169,534	A	WP2Z (K8MJZ,op)	239,212	A	W8MJ	176,486	A	K5KA	218,988	A	K6RO	182,806	A
K1VUT	157,210	A	K4WX	234,156	A	KK9A	174,590	A	VE5SF	214,248	A	VE7NF	166,848	A
K1EP	144,570	A	W4OC	174,116	A	N4OKX	163,688	A	NØKK (at NØAT)	211,692	A	N7LOX	163,688	A
N1DD	141,410	A	K5OY	165,110	A	W8DD	152,154	A	KØUK	210,614	A	VE7IN	159,900	A
WB1GQR (W1SJ,op)	262,122	B	WP3R (KE3Q,op)	407,956	B	WB9Z	237,948	B	WØSD (WDØT,op)	312,840	B	KH7R (KH6ND,op)	342,702	B
K3CR (KB3AFT,op)	257,382	B	WC4E (K9PG,op)	289,930	B	K8DX	237,790	B	K5TR (at W5KFT)	308,258	B	W7WA	321,846	B
K3MM	251,852	B	W5WMMU	244,110	B	K9LU	205,452	B	K2EI	250,746	B	K6LL	319,792	B
W1WEF	240,160	B	K4VUD	227,678	B	K9BGL	204,610	B	KGØZI	228,536	B	VE6JY	315,052	B
W2GG	233,998	B	N4BP	226,414	B	K8CC	201,924	B	NØIJ	216,618	B	(VE5MX,op)		
									W6AX	273,656	B	(at W6GO, N6IG,op)		
K5KG	184,860	U	W4MYA	236,526	U	AA8U	213,300	U	NR5M	234,630	U	K7BV	269,706	U
KE2DX	179,868	U	N2QT	165,426	U	N8SNM	154,596	U	W5GN	169,692	U	K6AW (atN6RO)	232,892	U
N1XS (atKB1H)	161,950	U	W4RM	118,184	U	WE9A	77,736	U	N5QQ	112,180	U	K6NO	221,832	U
W2PS	156,736	U	WQ5L	57,986	U	ND5S	67,466	U	N5TY	104,754	U	K6RIM	186,914	U
K3WW	155,156	U	N6SLX	42,818	U	KB9MDL	57,750	U	WAØSXV	98,750	U	K6ANP	186,282	U
W3GH	238,422	M	W4MR (at AA4NC)	248,376	M	K9NS	288,824	M	KTØR	263,070	M	KL7Y	325,322	M
K1G	237,000	M	W4WA	214,090	M	KE9I	199,396	M	NA5B	243,636	M	K7IR	276,026	M
KY2J	227,678	M	W4ATC	185,016	M	WB9JBF	183,912	M	ABØS	243,478	M	W6YX	262,122	M
K2NNY	208,402	M	W4AQL	179,488	M	WZ8P	169,218	M	K5MR	241,424	M	W6UE	252,326	M
K2KV	200,502	M	W5DDX	162,708	M	W8SH	158,652	M	W7CT	232,418	M	N6KI	234,788	M

## Plaque Winners

Only plaques which show a sponsor will be awarded. If you have won an unsponsored plaque, you may purchase it for \$60. If you, your club or business is interested in sponsoring any of the unsponsored categories, call Dan Henderson N1ND at ARRL HQ. Winners denoted with an asterisk (\*) are second place Division finishers have been awarded the Division plaque where the Division winner have won their overall category in the contest.

Category	Winner	Sponsor	Category	Winner	Sponsor
Overall High Power	WP3R (KE3Q,op)	Carl Cook AI6V	New England Div Low Power	KZ1M	
Overall Low Power	VE4GV	Ken Adams K5KA	New England Div QRP	W1XV	QRP Club of New England
Overall QRP	N7VY	QRP Amateur Radio Club International	New England Div Single Unlimited	N1XS (at KB1H)	
Overall Single Unlimited	K7BV	ARRL Contest Branch	New England Div Multi-Operator	K1G	
Overall School Club College Div	W7ASU	Mark Smith KD4JLC Memorial	Northwestern Div High Power	W7WA	
Overall Multi-Op	KL7Y	Central Texas DX & Contest Club	Northwestern Div Low Power	K7QQ	
Atlantic Div High Power	K3CR (KB3AFT,op)	North Coast Contesters	Northwestern Div QRP	K7ED (WAØRJY,op)	
Atlantic Div Low Power	K1HTV		Northwestern Div Single Unlimited	KL1V	
Atlantic Div QRP	WZ2T		Northwestern Div Multi-Operator	K7IR	
Atlantic Div Single Unlimited	K3WW		Pacific Div High Power	KH7R (KH6ND,op)	
Atlantic Div Multi-Op	W3GH	Mark Sickmeyer, KB3GJ, Memorial	Pacific Div Low Power	N6CY	Jim Hollenback, NK6L
Central Div High Power	WB9Z	Society of Midwest Contesters	Pacific Div QRP	N6MU (at N6NB)	
Central Div Low Power	KK9A	Society of Midwest Contesters	Pacific Div Single Unlimited	K6AW (at N6RO)	
Central Div QRP	KX9X	Don Haney, W9WW	Pacific Div Multi-Operator	W6YX	
Central Div Single Unlimited	WE9A		Roanoke Div High Power	K1GG	
Central Div Multi-Op	K9NS	Don Haney, W9WW	Roanoke Div Low Power	W4OC	Jim Stevens, K4MA
Dakota Div High Power	WØSD (WDØT,op)	Minnesota Wireless Association	Roanoke Div QRP	W2CS	
Dakota Div Low Power	NØKK (at NØAT)	Minnesota Wireless Association	Roanoke Div Single Unlimited	W4MYA	
Dakota Div QRP	NØUR	Tod Olson, KØTO	Roanoke Div Multi-Operator	W4MR	Shenandoah Valley ARC (at AA4NC)
Dakota Div Single Unlimited	KØCOM	Minnesota Wireless Association	Rocky Mountain Div High Power	K2EI	
Dakota Div Multi-Operator	KTØR	Minnesota Wireless Association	Rocky Mountain Div Low Power	KØUK	
Delta Div High Power	W5WMMU		Rocky Mountain Div QRP	KIØII	
Delta Div Low Power	K4WX		Rocky Mountain Div Single Unlimited	K8EI	
Delta Div QRP	W9WI		Rocky Mountain Div Multi-Operator	W7CT	
Delta Div Single Unlimited	WQ5L		Southeastern Div High Power	WC4E (K9PG,op)	
Delta Div Multi-Operator	W5DDX		Southeastern Div Low Power	K4XS	
Great Lakes Div High Power	K8DX	North Coast Contesters	Southeastern Div QRP	NA4CW	
Great Lakes Div Low Power	KU8E		Southeastern Div Single Unlimited	W4WZ	
Great Lakes Div QRP	WA8RJF		Southeastern Div Multi-Operator	W4WA	
Great Lakes Div Single Unlimited	AA8U		Southwestern Div High Power	K6LL	
Great Lakes Div Multi-Operator	WZ8P		Southwestern Div Low Power	K6RO	
Hudson Div High Power	W2RE		Southwestern Div QRP	W6TKX	Ray & Donna Day, N6HE & N6HTH
Hudson Div Low Power	W2ENY	Troy ARA, N2TY	Southwestern Div Single Unlimited	no winner	
Hudson Div QRP	KD2TT		Southwestern Div Multi-Operator	W6UE	
Hudson Div Single Unlimited	K5KG		West Gulf Div High Power	K5TR (at W5KFT)	
Hudson Div Multi-Operator	KY2J		West Gulf Div Low Power	K5KA	
Midwest Div High Power	KØOU		West Gulf Div QRP	N5XJ	
Midwest Div Low Power	WØMW		West Gulf Div Single Unlimited	NR5M	
Midwest Div QRP	KIØMB		West Gulf Div Multi-Operator	NA5B	Oklahoma DX Association
Midwest Div Single Unlimited	WAØSXV		Canada High Power	VE6JY (VE5MX,op)	
Midwest Div Multi-Operator	ABØS		Canada Low Power	VE5SF	
New England Div High Power	WB1GQR (W1SJ,op)	Ed Parsons K1TR	Canada QRP	VE4VV	
			Canada Single Unlimited	no winner	
			Canada Multi-Operator	VE6AO	

finishes for the place and show slots in the category. No new division records were set in ARRL divisions in this category.

Breaking out of the pack in the home-stretch of the Single Op QRP category was Gordon, N7VY, who finished in front of Derrick, VE4VV and John, N6MU (guest jockey at N6NB). The 139,629 points posted by Gordon provided a comfortable margin of victory over Derrick's new Canadian record of 128,928. Again, no new ARRL division records were set for this category.

All of the division winners in the new Single Op Unlimited category established division records in this first-year category. Emerging as the first-time champion in the category is Dennis, K7BV, with 269,706 points. The place horse in the category was Bob, W4MYA, with George, NR5M, finishing a close third by about a neck. The experts predict some good competition in this race in years to come.

It's hard to compare a multiop entry to a single thoroughbred. Perhaps a better analogy might be to compare it to the Pony Express. Taking turns and riding their horse to victory in this category were the ops at KL7Y. Their score of 325,322 brings them home a couple of lengths ahead of the team at K9NS (who set a new Central Division record in this category, the only multi-op records set this year.) The win by KL7Y and WA2GO is the first time that an Alaska station has won any category of SS, and beats the old AK record of AL7CQ by nearly 100,000 points! Finishing hard on the rail were the ops at K7IR for a strong third place showing.

Thirteen schools participated in the School Club category. Winning the Mark Smith, KD4JLC, Memorial as the top scoring School Club, College Division entry, were the ops at W7ASU at the Arizona State University. (The plaque will be awarded annually to the top scoring School Club College Division entry.) The Technical School Division category was won by WB4TOP from the Wake (North Carolina) Technical College. The top-scoring Secondary/Other School Division were the ops at KC7KFF at the Carl Hayden Community High School. The School Club category ARRL Sweepstakes is for stations that are operated exclusively by the students and faculty/staff at the institution. Congratulations to these outstanding students and their faculty and staff.

No winning thoroughbred achieves its stature in isolation. We have heard of Calumet Farms, Darby Dan Farms and other championship stables in Kentucky. In Sweepstakes, we look to the championship "stables" of operators—the contesting clubs. The champion Unlimited Category stable in the 1999 November Sweepstakes is the outstanding Northern California Contest Club. They edged out the Potomac Valley Radio Club by a combined CW and Phone score of 11,713,328 to 11, 611,242. Every log can

## Affiliated Club Competition

	Score	Entries
<b>Unlimited Category</b>		
Northern California Contest Club	11,713,328	119
Potomac Valley Radio Club	11,611,242	139
Yankee Clipper Contest Club	6,421,482	79
Minnesota Wireless Assn	5,052,038	63
Frankford Radio Club	2,756,184	34
<b>Medium Category</b>		
Society of Midwest Contesters	5,093,584	48
Southern California Contest Club	4,916,236	38
North Texas Contest Club	3,730,958	36
Tennessee Contest Group	3,411,670	42
Mad River Radio Club	2,652,394	33
Florida Contest Group	2,508,672	21
Western Washington DX Club	2,243,162	25
South East Contest Club	1,897,096	20
River City Contesters	1,895,792	11
Texas DX Society	1,843,204	15
North Coast Contesters	1,626,914	20
Oklahoma DX Assn	1,254,742	12
Motor City Radio Club	1,138,378	36
Rochester (NY) DX Assn	1,080,128	18
Central Texas DX and Contest Club	1,018,996	7
Kentucky Contest Group	759,904	9
Rip Van Winkle ARS	713,944	17
Willamette Valley DX Club	693,274	7
Eastern Iowa DX Assn	647,826	9
Grand Mesa Contesters	583,512	7
Mile High DX Assn	566,216	8
Central Arizona DX Assn	529,482	8
Order of Boiled Owls of New York	509,674	5
Lincoln ARC	507,042	7
Kansas City DX Club	489,590	3
Salt City DX Assn	462,566	4
Radio Amateurs of Northern Vermont	461,866	4
South Jersey Radio Assn	452,524	12
Woodbridge Wireless	414,534	10
AK-SAR-BEN	411,096	8
Kankakee Area Radio Society	377,408	4
Hazel Park ARC	377,032	17
Schenectady ARA	372,468	7
Western New York DX Assn	315,840	6
Northern Arizona DX Assn	301,094	7
Central Michigan ARC	228,622	8
Twin City Ham Club	204,498	4
Murgas ARC	182,474	6
Radio Club of Tacoma	125,542	5
Carolina DX Assn	116,492	6
Mother Lode DX/Contest Club	115,586	4
Franklin County ARC	66,808	3
<b>Local Category</b>		
Hudson Valley Contesters and DXers	1,144,978	8
Federation of Amateur Radio	696,626	9
Utah Contest Club	607,868	4
Ozark Contest Club	555,364	9
Southwest Idaho Contest Club	488,586	5
Central Oregon DX Club	305,934	3
Eastern Connecticut ARA	292,926	3
Great Falls Area ARC	288,140	3
Bergen ARA	283,834	6
Magnolia DX Assn	246,976	3
Vicksburg ARC	220,734	3
Green River Valley ARS	209,160	5
Hamfesters Radio Club	183,890	10
West Park Radiops	163,228	6
Northern New York Contest Club	153,834	5
Loudoun ARG	150,352	3
Sussex County ARC	127,616	3
Baton Rouge ARC	127,396	4
West Essex ARC	126,002	3
Meriden ARC	112,498	4
Williamsburg Area ARC	112,178	3
Great South Bay ARC	111,236	4
Sterling Park ARC	37,920	3

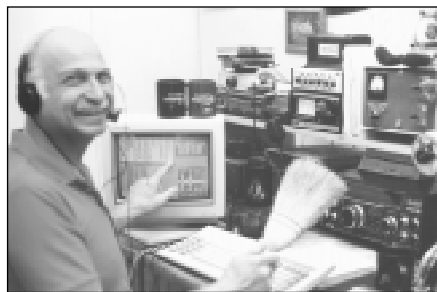
make a difference in the club competition. The 139 logs credited to the PVRC were the most submitted for club competition credit and contributed to the close finish. In an equally close finish, the fabled Society of Midwest Contesters edged out the Southern California Contest Club in the Medium Club category by a score of 5,093,584 to 4,916,236. The Hudson Valley Contesters and DXers continued their streak of fine finishes by winning the Local Category Competition with a combined score of 1,144,978. Congratulations to the 70 clubs—totaling 1120 log submissions!

If you would like to receive a copy of your log checking summary, send an e-mail to [N6TR@arrrl.org](mailto:N6TR@arrrl.org). Be sure to include in the subject line your call sign and "1999 SS Phone report request." Many thanks to the log checkers for all of their hard work.

The 2000 ARRL November Sweepstakes will be as challenging as ever. Already the big-gun stations are planning and prepping while the smaller pistols explore new ways to improve their skills and standings. One thing is certain: Horses train year round and so do contesters. One new wrinkle this November will be that the Cabrillo file format will be required for all electronically generated logs. Don't wait until the last minute to upgrade and explore your logging software. Make certain your software will output the Cabrillo file format. This format is designed to allow electronic entries to be entered into the contest database by machine, instead of by hand. It will reduce the number of errors caused by manual data entry and help improve the Contest Branch's service to the participants.

Clinching a Clean Sweep becomes a bit more difficult this fall. The new West Central Florida ARRL section, created this past January, becomes the 80th section required for the Clean Sweep. Make certain your logging software has the most up-to-date section lists. If you are still logging in paper, remember to obtain the most recent official entry summary sheets. One of the biggest problems in processing logs for our contests are hand-written entries that are illegible or do not include all of the required information on the summary sheet. Help us give you the most accurate results possible by using current forms. You can obtain complete up-to-date forms either by downloading them from the Contest Branch Web page at <http://www.arrrl.org/contests/forms>, or by sending an SASE with a note requesting the forms to the Contest Branch at ARRL Headquarters. (Send the request for forms before the contest date. If you wait until afterward, your request may be delayed because of the large number of paper entries received after the contest.)

The flags are set to go on the starting gates for the 2000 ARRL November Sweepstakes Phone Sweepstakes. The "Call to the Post" will sound on November 18-20. The complete rules will appear in the October issue of *QST*. Get your station prepared for our version of the annual "run for the roses."



Can we guess from the big smile and the broom what Dick, K6HRT, is celebrating?

# SOAPBOX

How about a new precedence "J" next year for "I'll only use packet to find Jay, VY1JA, after panic sets in?" (K5VG)... Saturday morning I was still assembling the new beam so I started 2 hours late and the amp died 6 hours into the contest, but I still managed to get my first sweep! (K6EP)... Wow! What a difference a few sunspots make! (K6TSG)... First SS and had a ball. Found out that a Clean Sweep is not all that easy to come by. Could have made more contacts and points but was looking for the last two sections to get the coffee mug. Oh well, already looking forward to next year. (K7SAM)... Weird conditions—would work a west coast section and then the next contact would be with a contiguous state (K8KFJ)... First time we have swept 'em... and Alaska called us! (KE0BX)... Great fun, even though I missed a Sweeps "hat trick" (three sweeps in a row) by one multiplier (KE4OAR)... Wow! What an experience for my first contest. Only single band, 10 meters, but I had a blast (KF4MFQ)... This is the first time I spent this much time in a SSB contest. Thanks to all who waited while I tried to figure out how to type and talk at the same time. Now I know what a voice keyer is for (KU7Y)... While I was calling VY1BE for the last section to make a Clean

Sweep, my foot pedal came apart and made the transmitter stick. I jumped out of the chair and picked it up to find that one of the screws disengaged and the spring popped out. I was able to key the transmitter using my finger stuck inside the pedal. I was VY1BE's last contact for NWT and a Clean Sweep! (KW4DA)... Endless runs. Awesome! (N0AH)... First year in many on phone. First year ever for QRP. Enjoyed both immensely. Great to hear the voices of so many old friends who are still operating in the sweepstakes. Good operators this year (N0SS)... New QTH + New computer + New logging program = confused operator. Just wait 'til I get this all sorted out (N2NFG)... Great fun! Used search and pounce to my best showing in SS SSB! Loved 80m on a dipole (N4EL)... Conditions were good but penetrating the continental US on 10 meters with a dipole was very difficult, especially when DX stations in Europe were calling to work me in KP4 land (N6VUY)... The CW SS was "CATs" only, W4 and K0. However, in the SSB weekend, immediately after signing off with K0CAT, I was called by K9ARF (N6ZFO)... My 14-year-old daughter Crystal, W9IOU, and I had a great time contesting together. 78 out of 79 sections. Next year we will be using packet spots (N9IO)... We've been doing this contest since 1992, and this was the fastest we ever worked the Clean

Sweep (10 1/2 hours)! The band conditions were excellent this year (N02X)... Good contest! Sure miss my beam (W0EBA)... Operated from the W3LPL super-station. It's nice to have friends with aluminum in high places! (W2GG)... Very hard for stations to hear my 3 W from inside the Grand Canyon, but it was fun anyway (W4IM)... This contest was the first operation of W7ASU since its recent reorganization. Our goal for the contest was to reach 1000 QSOs. With a lot of effort, (and perhaps all that caffeine), we were able to achieve our goal just before our time expired. (KC7EFP)... A very fun event for the budding contesters. There was a minor riot in the shack when SC section went into the log for a sweep. The boys are all looking forward to their Clean Sweep mugs (W7DX)... We had a blast; it was our first contest ever as a club! The goal was to get on the air and have fun and we did (W8DYY)... There was a Saturday night thunderstorm—a rare thing in November. This caused enough discharge to melt the ladder line to the dipole (WB1GQR)... My first contest after having my ticket for 26 years! A whole new adventure in ham radio (WB5TVI)... Finally a sweep (WD2K)... As seen in November QST, I used N3FJP's free SS logging program and will never use a pencil again (WI9B)... Was better than ever (WI9M)...

# Scores

CW scores are listed first, followed by phone. Within each Section, scores are listed in descending order by entry category, with single ops followed by multi-operators. 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).

PHONE	Score	QSOs	Mult	Hours	Class
<b>1</b>					
<b>Connecticut</b>					
N1TM	16,390	149	55	24	Q
W1CTN	141,252	884	79	24	A
W1RPG	76,214	493	79	20	A
WA1LJD	65,570	415	79	13	A
KA1MWX	65,364	419	78	19	A
NX1Q	57,828	366	79	10	A
N1VM	32,400	225	72	15	A
WA1ZEK	30,888	198	78	17	A
WB8IMY	23,868	153	79	9	A
W1SAM	19,468	157	62	7	A
KE1AU	17,080	122	70	24	A
W1XF	16,986	149	57	15	A
W1ECH	16,368	124	66	2	A
K1RO	97	7	11	1	U
N1KLB	3,816	53	36	24	A
N1GNV	3,528	49	36	4	A
WB1CXZ	800	25	16	4	A
W1WEF	240,160	1520	79	24	B
N1XS (atKB1H)					
W1QK	161,950	1025	79	24	U
N1NQD	87,690	555	79	23	U
K1JN	52,772	334	79	15	U
W1AW (W1VT,op)					
KE1IH	39,578	257	77	9	U
W1NRG	38,376	246	76	22	M
K1LEE (+KB1DN)	39,760	255	76	22	M
WS1F (+WA1PMA)	29,240	215	68	15	M
	20,850	139	75	11	M
<b>Eastern Massachusetts</b>					
N1YDT	157,210	995	79	24	A
K1EP	147,822	914	79	11	U
K1VUD	141,410	895	79	24	A
K1HT	78,624	504	78	10	A
KC1SQ	51,012	327	78	11	A
K1GU	48,640	320	76	14	A
W1MA	38,106	261	73	7	A
W1TI	15,498	123	63	9	A
WA1OLV	14,592	90	57	5	A
W1SR	7,480	85	44	3	A
W1TUM/MM	3,200	50	32	2	A
WA1WFH	2,106	39	27	5	A
K1UCA	128	8	8	1	A
KA1UQ	149,626	947	79	21	B
W1OHM	63,080	415	76	14	B
K5MA	46,644	338	69	5	B
K1TH	42,980	307	70	11	B
K1SM	16,740	155	54	24	B
K1JE	50,244	318	79	14	B
AE1M	44,928	288	78	22	U
K1NU	29,704	188	79	12	U
K1QA	12,482	79	79	24	U
K1FY	1,020	30	17	2	U
W1MX (KT1D,KB1CGZ,W1GSL,ops)					
W1AF (K1XQ,N1EXG,N1QZY,ops)					
N1OEF (+logger)	22,400	175	64	14	M
<b>Maine</b>					
NY1S	54,444	349	78	18	A
KY1CS	39,300	262	75	8	A
W1LIC	28,400	200	71	10	A
N1MHB	21,780	165	66	9	A
KB1CQK	18,380	135	68	24	A
KD1Q	15,344	137	56	24	A
KA1QK	12,500	125	50	5	A
KD1OG	6,800	85	40	11	B
W1AO	125,136	792	79	11	B
KT4NT (+KF4HS)	52,704	366	72	24	M
N1NUA (+W1DLC)	51,282	333	77	19	M
<b>New Hampshire</b>					
W1XV	26,554	187	71	12	Q
WB1GEX	105,070	665	79	23	A
KZ1O	68,248	449	76	24	A
W1VL	46,956	301	78	24	A
AE1T	41,184	264	78	7	A
WB1EDI	41,040	270	76	22	A
WA1T	12,482	79	79	12	A
N1HKO	147,576	946	78	14	B
K1DG	75,366	477	79	5	B
NM1W	49,454	313	79	24	U
KC1F	48,664	308	79	4	U
WA1ZYX	24,150	175	69	6	U
KD1LZ	16,324	106	77	24	U
AF1T (+WA1VKO)					
WK1P (+WA1ZYX, WA1NWE, N1KWF)	152,470	965	79	19	M
	92,246	599	77	18	M
<b>Rhode Island</b>					
K1SD	169,534	1073	79	22	A
K1VJSJ	98,098	637	77	18	A
K2MM	46,800	312	75	13	A
AA1RJ	10,400	104	50	16	A
W1OP (K1PLX,op)					
	89,680	590	76	24	B
KI1G (+WF1B,NB1U)					
	237,000	1500	79	22	M
AA1II (+KE1JA,N11VB,N1KRJ)	77,688	498	78	21	M
<b>Vermont</b>					
N0ICI	115,972	734	79	23	A
AA1SU	110,916	702	79	21	A
W1ZN	19,734	143	69	8	A
WX1O	15,132	97	78	24	A
K1GAP (W1SA,op)					
	14,734	139	53	3	A
N1BCL	6,396	82	39	12	A
WB1GQR (W1SJ,op)					
	262,122	1659	79	24	B
KK1L	204,768	1296	79	24	B
K1HD	133,536	856	78	19	B
W1US (+K1LOM)					
	93,694	593	79	24	M
<b>Western Massachusetts</b>					
KZ1M	192,602	1219	79	24	A
KX1X	78,936	506	78	18	A
K5ZD	41,192	271	76	4	A
W1TO	39,150	261	75	10	A
K1DNX	27,132	173	67	24	A
K1KBU	17,160	130	66	13	A
N1BFV	16,432	104	79	10	A
W1JK	55,142	349	79	8	B
W1YK					
(K1GRS,N1PFC,N2YHK,N3VUN,N8YXR,ops)	80,264	508	79	15	M
NC11 (+W1QA,N1DPM)	74,328	489	76	7	M
W1MBT (+K1TS, N1ZXL)					
	2	1	1	24	M
<b>2</b>					
<b>Eastern New York</b>					
WV2N	20,160	160	63	24	Q
KG2H	2,752	43	32	4	Q
W2ENY	123,556	782	79	23	A
K2UF	84,056	532	79	21	A
AA2QR	83,296	548	76	16	A
N2SA	77,736	492	79	19	A
KA2VBI	66,672	463	72	24	A
KF2SC	44,506	289	77	24	A
N2KN	42,000	280	75	24	A
N2MTG	38,340	270	71	12	A
WB2SPN	36,210	255	71	13	A
WD2K	32,760	210	78	24	A
WB2BTJ	31,416	204	77	24	A
K2RI	29,394	213	69	10	A
KB2SSZ	27,060	205	66	19	A
WT2JG	26,270	185	71	13	A
WB2KHE	18,998	161	59	11	A
W2WC	13,776	123	56	24	A
WK2S	11,766	111	53	6	A
KE2WO	10,400	100	52	4	A
W2YK	8,696	88	46	3	A
KC2AGM	7,392	84	44	11	A
WA2FTI	7,200	80	45	10	A
W1NXB	3,654	63	29	16	A
N2XPW	2,430	45	27	3	A
W2NRD	1,856	32	29	4	A
KC2CRO	1,428	34	21	2	A
W2WHO	782	23	17	4	A
W2RE	225,624	1428	79	24	B
N2LH	141,252	894	79	22	B
W2GDJ	31,512	202	78	24	B
KM2E	22,862	161	71	24	B
KE2DX	179,868	1153	78	24	U
W2PS	156,736	997	79	22	U
N2VJQ	125,664	812	77	24	U
K2WZ	120,720	235	76	18	U
KY2J (+WA2JJK)	227,678	1441	79	24	M
N2POS (+N2PEN,WB2FO,KC2DZB)	145,992	924	79	24	M
N2SQW (+KC2DMI)	78,078	507	77	22	M
NO2X (+NN2V)	72,048	456	79	15	M
KB2KDY (+KB2SRC)	29,536	208	71	19	M
WB2TCV (+ops)					
	26,130	195	67	24	M
WA2UMX (KG2H,K2PS,ops)					
	3,264	48	34	2	M
<b>Northern New Jersey</b>					
W2AZK	39,672	261	76	19	Q
K2WA	61,620	395	78	20	A
NA2AA	52,416	336	78	14	A
WB3CRB	49,200	328	75	12	A
WA2LXE	47,804	323	74	21	A
KB2D	34,040	230	74	14	A
W2FMB	30,800	200	77	24	A
K2BOG	28,282	179	79	11	A
N2LQ	27,604	206	67	13	A
N2XR	12,600	100	63	6	A
W2UO	12,420	110	60	10	A
WB2IDV	9,592	109	44	10	A
W2ASQ	5,800	100	29	2	A
WB2AZE	4,810	65	37	5	A
W2VU	4,480	64	35	3	A
WA2QHL	4,012	59	34	14	A
N2NYP	3,348	54	31	8	A
W2QM	166,840	1056	79	24	B
W2HCA	62,884	398			

W3DAD	15,748	127	62	7	A
W3EE	14,514	123	59	24	A
N3ZPL	122	45	12	A	
WB4FDT	10,170	113	45	5	A
KA3UIH	7,878	101	39	7	A
N3WVZ	4,032	63	32	10	A
W3FQE	3,300	50	33	15	A
K3M	251,852	1594	79	24	B
W2GG	233,998	1481	79	24	B
K3ZQ	231,200	1463	75	24	B
K2PLF	202,502	1262	79	24	B
N3HBX	149,400	996	75	24	B
K3SA	115,340	730	79	24	B
KF3BE	77,420	490	79	24	B
N3AM	44,548	301	74	6	B
W3ZK	32,100	214	75	6	B
W31NK	31,222	233	67	9	B
W3GN	2,100	42	25	3	B
K3DI	105,860	670	79	24	B
AJ3M	76,788	486	79	24	B
N3HUV	59,724	378	79	24	B
W3YD	50,232	322	78	13	B
K3KJ	39,000	260	75	11	B
W3RL (+K3FT, AA3SS, N3JA)	15,840	980	79	20	M
W3LJ (+K3NCO)	50,820	330	77	18	M
N3FJP (+KA3SEQ)	25,754	163	79	24	M

W3ASHAE	111,232	704	77	17	A
W3ASES	83,314	541	77	15	A
W7LPF/3	58,982	383	77	17	A
AA3LX	43,608	276	79	18	A
W3AVD	28,408	212	67	12	A
KE3KD	21,912	166	66	24	A
AA3II	15,564	129	79	9	A
K3TG	13,664	112	61	6	A
N3KJE	10,578	123	43	13	A
N3ZGT	2,600	50	26	5	A
K3CR (KB3AFT, op)	257,382	1629	79	24	B
K3MD	48,048	312	77	10	B
W3JWIK	15,140	103	77	6	B
W3WS	11,400	75	76	6	B
W3GH (+N3PUR, K3MD, W3XR)	238,422	1509	79	24	M
W3KWH (W3JM, N3ZEN, W3SDV, K3AJS, ops)	29,240	215	68	14	M

W4DEC	25,024	184	68	13	Q
W4NTI	96,252	617	78	19	Q
KC4TEO	61,908	402	77	14	Q
W4DWS	51,792	332	77	15	A
K4OE	25,800	172	75	16	A
W5DLM	15,840	120	66	9	A
KQZPP/4	286	13	11	3	A
K4WV	219,836	1339	79	23	B
KA4BL (+KF4BEE, KF4HFF)	18,886	133	71	15	M

KWAE	29,252	206	71	12	Q
KU4OH	25,866	175	79	24	Q
K4OQG	61,570	415	79	24	Q
N4NFI	51,744	336	77	18	A
K4PK	51,636	331	78	15	A
WX9B	46,332	297	78	18	A
EA4SS	39,024	271	72	10	A
AA4LR	33,696	234	72	7	A
WB4AYN	25,564	166	77	9	A
K9AY	19,520	160	61	5	A
N4MVD	11,232	104	54	24	A
K4BAI	163,530	1035	79	20	B
N4MNA	39,888	277	72	15	B
W4WA (+K4IDX)	214,090	1355	79	24	M
W4AQL (KE4QLI, N3NGG, WJ2RM, KU4WJ, W4ATL, ops)	179,488	1136	79	24	M
K0HT (K4BEK, N0JTX, ops)	14,000	100	70	16	M

N4OKY	163,688	1036	79	24	A
AC4PY	71,100	450	79	22	A
W4LC	46,332	297	78	11	A
EA4GH	36,036	234	77	18	A
KF8VS	26,364	169	78	20	A
W4AYJB	25,718	167	77	24	A
K4PXW	19,080	159	60	14	A
K4PVR	15,240	141	62	14	A
K6ZIIA/4	4,964	33	31	8	A
K4CJW	242	11	11	1	A
K4AO	139,062	903	77	24	B
K4IU	18,542	127	73	24	B
N4XM	9,506	97	49	3	B
KT4SD	53,262	339	79	22	U
KT4ZX (+WB4OSS, KG4IG, KG4QM)	126,558	801	79	24	M
KF4BAR (+ops)	10,608	104	51	24	M

W2CS	60,988	386	79	14	Q
KQ4PY	10,272	107	48	2	Q
N4ZAK	5,440	85	32	12	Q
N2NFG	119,606	757	79	24	Q
KW4DA	92,272	584	79	24	Q
K4OPL	76,472	484	79	16	A
N4MO	74,024	487	76	12	A
W4QA	47,574	303	77	12	A
KZ2I	15,240	115	62	24	A
AD4IE	40,200	268	75	11	A
N2BT	23,892	181	66	5	A
KF4OD	23,288	164	71	14	A
K4WES	16,352	146	56	11	A
EA4EC	15,200	152	50	10	A
KT4EM	14,514	123	59	10	A
N7ADY	14,260	105	62	24	A
WS4I	10,656	111	48	5	A
KS4S	6,240	78	40	5	A
W2VMX	6,160	70	44	3	A
N4VHK	4,760	85	28	1	A
KV4CN	2,968	53	28	6	A
K4MA	192,502	1219	79	24	B
N4AF	165,470	1049	79	24	B
AA4S	133,984	848	79	18	B
K3KO	40,404	273	74	5	B
K2AV	39,130	301	65	24	B
W4YDY	23,530	181	65	7	B
W4FPJ	10,290	105	49	24	B
NT4D	42,818	271	79	9	B

W4MR (atAA4NC) (K17WX, AA4NC, K4HA, NX9TP, KS4XG, ops)	248,376	1572	79	24	M
W4ATC (N3QVE, KF4ARS, ops)	185,016	1186	78	24	M
W4WS (at N4VHK) (+KU4BO)	12,482	79	79	11	M
WB4TOP (W4FNM, KB4VTJ, WD4BMA, KG4DPW, ops)	25,350	195	65	19	S

<b>Northern Florida</b>	240,552	1542	78	24	A
K4XS	150,100	950	79	24	A
WB4OMA	76,000	500	76	16	A
WBEBA	38,250	255	75	12	A
KA4HHM	33,900	240	70	9	A
WB4HI	20,160	140	72	9	A
WA8NAZ	16,132	109	74	9	A
WV4DM	14,012	113	62	12	A
WC4E (K9PG, op)	289,930	1835	79	24	B
K4VUD	227,678	1441	79	20	B

<b>Puerto Rico</b>	3,696	56	33	24	A
KP4N6UVJ	3,696	56	33	24	A
WP3R (KE3QQ, op)	407,956	2582	79	24	B

<b>South Carolina</b>	174,116	1102	79	20	A
N1CC	49,704	327	76	8	A
WA8OJR	17,810	137	65	5	A
W8PC	12,482	79	79	11	A
K0COP/4	12,480	120	52	12	B
N3KK	12,482	79	79	7	B

<b>Northern Florida</b>	60,216	386	78	16	Q
N4ACW	18,720	144	65	14	Q
N3OIE	30,912	224	69	17	A
N9TMU	29,550	197	75	18	A
KR4ZA	16,696	128	66	23	A
WA2COP	16,470	135	61	6	A
N4GQ	15,372	122	63	8	A
N2EU	11,500	115	50	7	A
K4RFK	11,200	112	50	24	A
WX0G	9,792	96	51	7	A
W8RTU	9,546	111	43	24	A
K1TO	226,414	1433	79	16	B
N4BP	45,240	290	78	14	B
K2OY	40,800	300	68	24	B
W4ZW	21,600	144	75	11	U

<b>Tennessee</b>	49,608	318	78	24	Q
W9WT	128	8	1	Q	
N5NW	234,156	1482	79	24	A
K4WX	119,496	766	78	24	A
NY4T	115,340	730	79	13	A
NA4K	80,896	512	79	24	A
W04O	57,876	371	78	24	A
KE4OAR	46,916	317	74	14	A
AK4ST	35,496	261	68	4	A
W4TDB	27,690	213	65	10	A
W4DAN	23,660	169	70	6	A
W4NZ	23,048	172	67	8	A
W4NI	12,320	110	56	5	A
KT4OR	10,710	119	45	8	A
KA4MRR	10,062	117	43	6	A
K4JNY	7,600	76	50	10	A
W4YGE	70,482	1079	79	16	B
K0EJ	102,180	655	78	21	B
WD4K	94,848	608	78	16	B
K4LTA	58,188	373	78	24	B
N4PQV	57,368	404	71	24	B
K4JNY	35,496	261	68	4	B
K4AMC	29,944	197	76	24	B
K4RO	23,310	185	63	24	B
W4PA	23,040	180	64	24	B
W4OQG	3,000	50	30	2	B
N6SLX	42,818	271	79	24	B
W4CAT (K1KY, K06ID, KG4ENY, K3CQ, ops)	149,310	945	79	24	M
N4DW (+loggr)	45,448	299	76	7	M
KA4OTB (+KF4BBH)	40,194	261	77	24	M
WB4PHW (+op)	15,264	144	53	24	M

<b>Virgin Islands</b>	239,212	1514	79	24	A
KP2D (KP2N, KP2CM, NP2E, NP2M, NP2W, NP2DJ, ops+loggr)	140,088	898	78	24	M

<b>Virginia</b>	1,620	30	27	24	A
W3MGL	72,996	462	79	14	A
W4YE	55,902	363	77	17	A
W4VG	54,352	344	79	24	A
K4YT	52,614	333	79	19	A
N4MM	48,248	326	74	14	A
AD4DG	40,132	254	79	10	A
K4FPF	36,176	238	76	24	A
KU4FP	35,926	253	71	17	A
K4RET	31,828	218	73	10	A
N4EL	30,816	214	72	24	A
K4EMIL	29,862	189	79	17	A
WA4TMJ	22,732	172	69	24	A
W6IHG	18,492	134	69	24	A
N4MA	15,768	146	54	10	A
AF4MO	12,636	117	54	9	A
KC1YC	11,660	106	55	7	A
W60DYJ	11,200	112	50	9	A
AA4KD	11,100	75	74	19	A
W4SD	10,908	101	71	4	A
W4ZYT	9,592	109	44	3	A
W4XP	6,720	80	42	5	A
KR4KF	6,560	80	41	6	A
WB4BLJ	3,886	67	29	10	A
N3BOR	3,120	52	30	24	A
KS4JB	2,494	43	29	3	A
K4ORD	1,720	41	21	4	A
K1GG	198,290	1255	79	24	B
K4IJ	140,462	889	79	15	B
N4GU	105,860	670	79	13	B
W4NYW	74,382	483	77	24	B
W4YDC	68,256	432	79	16	B
KE4VA	62,308	421	74	18	B
K4RSD	46,611	295	79	9	B
W4YCC	37,128	238	78	9	B
K4HR	19,650	131	75	24	B
N6MW	11,704	77	76	8	B

KF4MFQ	7,410	95	39	24	B
W4MYA	236,526	1497	79	24	B
NZ0T	165,422	1047	79	24	B
W4RM	118,176	743	79	16	B
N3RC	39,812	269	74	24	B
N4SR	34,386	217	79	9	B</

N61J (AE0M,N0BBS,ops) 162,266 1027 79 20 M
N6XI (+W6CT) 86,136 582 74 9 M
7 Alaska
KLFZAP 72,072 468 77 13 A
KLTWP 35,400 236 75 24 A
KLVV 152,154 963 79 13 U
KLVY (+WAZGO) 325,322 2059 79 24 M
AL7R (+KLTJ,K7LVIC) 29,328 188 78 24 M

Azirona
N7VY 139,620 895 78 24 Q
N07X 23,904 166 72 21 Q
N7VYH 19,398 159 61 9 Q
N7JXS 11,040 115 40 10 Q
N7XJW 10,400 100 52 24 Q
W4M17 8 2 2 24 Q
WA0KDS 126,400 800 79 22 A
NF7E 82,056 526 78 21 A
W7ZMD 72,900 486 75 17 A
KT7R 59,760 415 72 24 A
N7RAF 42,772 289 74 21 A
W7VYS 35,190 255 69 11 A
K7HP 32,494 211 77 19 A
K6KIF 27,440 196 70 24 A
W7ZT 22,984 169 68 15 A
K5SAC 21,600 150 72 12 A
AA0MX 10,094 103 49 7 A
N7VBN 7,340 73 48 8 A
K6LW 3,197 202 74 24 B
W7WW 218,040 1380 79 24 B
K7LY 104,988 673 78 21 B
K6T1M 20,540 130 79 16 B
K7L5 5,628 67 42 14 B
N7LR (+K7FWM,W9CF) 56,160 360 78 12 M
K7MPM (+K7RFM) 38,250 255 75 22 M
W7ON (+N7NF) 22,680 162 70 10 M
K7X (+Hogger) 14,700 147 50 5 M
W7ASU (K7CFEP, K7MOC, K7CWE, K7CRZ,ops) 893 79 24 S
K7KFF (N7UJ, +ops) 82,852 538 77 21 S

Eastern Washington
W5TV 139,464 894 78 24 A
W5T1 44,714 283 79 24 A
W7WMO 38,036 267 74 24 A
W7WKB 35,424 246 72 24 A
W7AVA 24,156 183 66 24 A
K7WUE 7,832 89 44 24 A
K7IAO 53,348 347 77 23 B
K7R (+K7XH,K7XS,W7AG) 276,026 79 24 A
W3AS (+ops) 75,306 489 77 9 M

Ildaho
KZZO 93,016 604 77 13 A
N7UVH 74,740 505 74 12 A
W0Y7 68,530 445 77 24 A
K7WN 67,488 444 76 22 A
K7TA 32,706 237 69 24 A
K7HT 25,292 202 63 17 A
W7ZRC 196,552 1244 79 24 B
K0IP 34,632 222 78 12 B
K6YH 30,338 197 77 11 B
AB7Y (+K7DID,K17R) 86,426 547 79 23 M
W7ISU (N7LQ,N7LB,KD7FH,K7DTCM,KD7DZO,W7H,ops) 74,734 473 79 17 S

Montana
K7SAM 49,896 324 77 23 A
K7VQ 49,876 337 74 23 A
K7CUE 41,496 364 57 14 A
K7CNY 31,878 263 63 12 A
K7MT 25,452 202 63 17 A
K7CN 21,070 152 65 11 A
K5T 145,834 923 79 21 B
W7WK 83,266 527 79 24 B
W7CWD 52,114 367 71 3 B
K7WCM (AB7CE,WA7FBJ,AA7LJ,ops) 37,872 263 72 19 M

Nevada
AL1VE 77,088 528 73 20 A
K7NV 61,776 396 78 24 A
N7WL 5,180 70 37 9 A
KUTY 4,872 58 42 24 A
K7BV 269,706 1707 79 24 U
K6GNX 105,070 665 79 9 U
WA7UM 20,482 133 77 24 U
W7UNR (K7CRL,K7CH,K7Y, W7PW,ops) 27,202 203 67 23 S

Oregon
K7KJ 159,264 1008 79 24 A
N7OU 107,700 718 75 12 A
W7YAQ 64,584 414 78 7 A
K7C 35,266 229 77 21 A
K7NS 21,118 171 11 A
K6BKTL 24,168 228 53 24 A
K1A 22,110 165 67 5 A
N7TL 20,400 150 68 18 A
N7EMC 15,080 130 58 19 A
K7CFZP 10,780 110 49 17 A
K7CY 9,900 110 45 5 A
K4X 18 488 13 11 A
W7MT 210,140 1330 79 24 B
K7V1 26,718 183 73 8 B
W7IMP 12,168 78 18 8 B
K5ZM (at K7ZUM) 97,482 633 77 24 U
W7IS 15,914 109 73 16 U
W7SIR (+W7PAT) 40,964 266 77 20 M
N7SG (+K7FD) 19,750 125 70 10 M
KA7AGH (+KA7IUG) 19,456 152 64 12 M
W7BJB (+K7D5NS) 14,190 129 55 8 M
N7XP (KD7EYL, KD7EYL, K7CSDX, N7XC,ops) 24,684 187 66 24 S

Utah
W7HS 25,530 185 69 20 A

K7UB (AA7TR,ops) 17,520 146 60 16 A
K7BPN 12,096 108 56 9 A
AL7CC 10,000 100 50 15 A
W7X 9,310 95 49 6 A
K7CNA 2,200 100 11 6 A
K0TX 76,946 487 79 24 B
K7KA 33,580 230 73 24 B
K8E1 91,322 593 77 17 U
W7CT (+NG7M) 232,418 1471 79 24 M
W0YSE (+Hogger) 3,762 57 33 8 M

Western Washington
K7ED (WA0RJY,op) 7,252 74 49 12 Q
N7RVD 2,688 48 28 16 Q
W7JR1NKN 1,200 30 20 10 Q
K7QK 217,724 1378 79 24 A
N7LOX 163,688 1036 79 23 A
W7QN 123,046 799 77 18 A
N6HR 51,800 350 74 10 A
W7AVM (AD7U,ops) 41,292 279 74 24 A
K1LKR 39,732 258 77 16 A
K7PKC 35,234 223 79 20 A
K7FQZ 35,234 223 79 24 A
AA7VT 30,096 209 72 17 A
N7OZN 27,200 200 68 9 A
N7ZC 25,320 211 66 9 A
K7EYS 23,256 153 76 18 A
NR7RR 22,932 147 78 21 A
N7UX 22,356 162 69 24 A
NA7R 19,592 158 62 24 A
KD7LJ 18,408 156 59 8 A
KA7DNK 16,402 139 59 7 A
K7WDL 15,344 137 56 9 A
W7LKG 12,768 114 56 4 A
N7WA 10,088 97 52 24 A
AA2DL 6,300 70 45 15 A
AE7EE 836 22 19 1 A
W7WA 321,846 2037 79 24 B
K7R1 (K7ST,ops) 259,594 1643 79 24 B
W7RM (K1TA,ops) 233,208 1476 79 24 B
K6KR 57,038 361 79 11 B
N7DOE 16,120 155 52 2 B
N7VGO 10,192 98 52 24 A
W7FM 12,190 805 79 24 U
N7PP (W7UBN,KA2YMZ,N7DOE, K7U7FY,ops) 181,542 1149 79 24 M
W7DX (N0AX, KD7BUQ, KD7DOQ, KD7FWQ, KD7FYX,ops) 79,948 506 79 24 M
K7PAR (KD7E,N7UK,N7VQF,KJ7BP,ops) 47,586 309 77 24 M
W7NWA (AJ7R,K7KUZ,K7BD, KB7ZDR,K7C7CBN,KB7QOP,ops) 34,800 240 71 21 M
AB7RW (+K7KQI) 26,572 182 73 17 M

Wyoming
W5T0CZ 43,384 319 68 12 A
N7QAX 42,632 292 73 24 A
N0AH 177,118 1121 79 24 B
K7J7M 101,910 645 79 23 B
N7JT 40,448 256 79 16 B
KK7UG 12,138 119 51 12 B

Michigan
K8LJQ 40,584 267 76 22 Q
W8RP (K1ND,op) 19,032 183 52 8 Q
AA8SN 11,544 111 52 4 Q
W8M 176,486 1117 79 24 A
K8S 123,556 782 79 24 A
K8RDJ 100,804 638 79 22 A
K8KAK 90,090 585 77 21 A
K8IR 73,476 471 78 18 A
WA8FRD 53,196 341 78 17 A
K8GT 47,874 303 79 18 A
N8NX 46,816 304 77 24 A
K8KAM 46,208 304 76 24 A
AB8C 42,292 299 74 7 A
N8XK 42,912 298 72 23 A
AA8YC 38,100 254 75 16 A
W8B8GUS 37,444 253 74 20 A
WA8YPY 35,550 237 75 16 A
K8VC 34,160 244 70 24 A
W8B2M 33,142 227 73 24 A
K8G 32,976 229 72 16 A
K8EUM 30,968 196 79 19 A
K8GA 29,212 218 67 11 A
W8EG1 29,200 200 73 10 A
AA8KR 25,134 177 71 9 A
K8EO 24,332 158 77 12 A
K8RWG 24,236 166 73 24 A
W8BAFO 23,660 182 65 13 A
N8PKN 23,226 147 79 15 A
W8TJQ 23,184 168 69 9 A
K8BNDY 22,192 146 76 10 A
K8SIA 21,754 149 73 7 A
W8EO 21,672 172 63 4 A
N8WZG 21,174 174 63 4 A
K8JN 20,002 137 73 20 A
W8IMP 19,936 178 56 18 A
N8VEN 18,990 153 65 11 A
K8EFO 18,290 155 59 11 A
W8WQ 18,096 156 58 13 A
W8PDJ 17,290 133 65 24 A
K8K 16,964 110 62 10 A
AA8UU 12,272 118 52 9 A
N8UUS 11,236 106 53 7 A
W8UE 10,752 112 48 3 Q
W8BL 10,200 102 50 10 A
N8EN 9,306 99 47 5 A
K8K8GW 8,880 111 40 12 A
K8GMT 8,534 91 47 5 A
K8BTX 8,132 107 38 24 A
W8DOT 6,408 89 36 5 A
WA8OLD 4,800 60 40 5 A
K8REN 3,600 50 36 2 A
K8BLT 3,136 56 28 2 A
W8RU 3,008 47 32 24 A
WA8YLZ 900 25 18 3 A
AA8LB 532 19 14 2 A
K8B8DL 162 9 9 3 A
W8RFB 2 1 1 24 A
K8CC (W8S,op) 201,924 1278 79 24 B
181,226 1147 79 24 B

West Virginia
K8BVC 148,362 939 79 24 B
AA8PA 82,160 520 79 24 B
N8KR 64,148 406 79 7 B
K8MM 63,910 415 77 11 B
K8GOU 45,804 287 17 11 B
W8BCLX 43,992 282 78 9 B
K7X 10,160 127 40 2 B
AA8U 213,300 1350 79 22 U
N8NSM 154,596 991 78 22 U
N8XS 67,466 427 13 U
W8X3M 34,958 427 77 13 U
K8DFS 30,336 192 79 13 U
K8ZU 15,958 101 79 24 U
W8SH (KB8LUV, KB8ZGL, KB8RW,ops) 158,552 1017 78 23 M
K8MAS, KB8ZQZ,ops) 30,192 204 74 18 A
W9HSC 30,178 191 74 18 A
W9V9 29,614 221 67 24 A
W9BZP 23,800 170 70 20 A
W9LQK 23,700 150 79 8 A
W9GQ 21,760 180 68 24 A
W9LW 21,528 156 68 24 A
N9JF 21,360 178 60 5 A
K9MS 20,916 166 63 8 A
K9GPP 20,130 165 61 8 A
K9MMS 19,968 128 78 15 A
W9HED 16,632 108 77 22 A
W9DEJK 15,444 117 66 6 A
W9HL 13,580 108 68 24 A
N9JZ 11,988 162 37 24 A
N9BK 11,960 115 52 8 A
K9KJ 10,584 108 49 24 A
W9MY 9,476 103 46 10 A
K9NA 6,240 78 40 4 A
N9ALC 3,200 50 32 4 A
W9HJ 2,880 48 30 4 A
K9QRA 32 4 4 1 A
W9BZ 237,948 1506 79 24 B
K9LU 205,452 1317 78 24 B
K9BGL 204,610 1295 79 24 B
WA9TPQ 198,132 1254 79 24 B
W9SFG 53,778 341 79 19 B
AA9Y 41,020 249 74 24 B
WA9RE 33,872 232 73 24 B
N9YCT 19,564 146 67 19 B
K9UQN 10,560 110 48 3 B
WE9A 77,736 492 79 24 U
K9BMDL 57,750 377 19 U
K9SN 20,636 134 77 24 U
K9NS (K9PW,W9RM,W9ST,ops) 288,824 1828 79 24 M
K9NR (+K9F1F) 152,628 966 79 24 M
N9PD (W9YK,KF9ZZ,K9GML,ops) 144,412 914 79 24 M
N9STL (+K9HUH) 135,564 858 79 24 M
K9MOT (K9SGR,N9MUC,NASIZ,K9RR, K9QI,N9KNS,K9RJ,AA9EA,N9EP, N9NA,ops) 115,182 729 79 24 M
W9GKA (+K9ZA) 65,676 421 78 21 M
W9EM (+K9LPM,AA9QT,W9RRR) 65,360 430 76 24 M
N9IO (+W9IOU) 63,602 413 77 23 M
N9GH (+N9WJ,N9YFL,K9BJW, N9LJY) 47,336 306 78 19 M
N5UWY (+K5BTFX) 35,700 238 75 18 M
W9DA (K5COE,W9YO,ops) 18,240 152 60 9 M
W9UQH (W0TPO, op) 37,814 259 73 17 S

Illinois
K8X9 100,330 635 79 24 Q

Indiana
N99M 19,530 155 63 8 Q
AA9KH 11,448 106 54 12 Q
N9HJ 11,130 106 53 3 Q
K9KA 174,590 1105 79 24 A
W9DCIR 96,096 616 78 19 A
WA9Z 78,078 507 77 24 A
K9JE 73,628 466 79 15 A
K9MS 63,180 405 78 24 A
N9SG 60,236 407 74 19 A
K9NAV 60,152 447 78 24 A
N9BT 41,964 286 78 24 A
K9CS 41,184 269 72 10 A
K9MZ 41,118 267 77 17 A
K9GJP 34,222 241 71 24 A
W9FQG 33,592 221 76 16 A
WA9CQ 31,360 224 70 24 A
W9HL 30,784 204 74 18 A
W9HBC 30,192 204 74 18 A
W9V9 30,178 191 74 18 A
K9CYL 29,614 221 67 24 A
W9BZP 23,800 170 70 20 A
W9LQK 23,700 150 79 8 A
N9J 21,760 180 68 24 A
K9GK 21,528 156 68 24 A
N9JF 21,360 178 60 5 A
K9MS 20,916 166 63 8 A
K9GPP 20,130 165 61 8 A
K9MMS 19,968 128 78 15 A
W9HED 16,632 108 77 22 A
W9DEJK 15,444 117 66 6 A
W9HL 13,580 108 68 24 A
N9JZ 11,988 162 37 24 A
N9BK 11,960 115 52 8 A
K9KJ 10,584 108 49 24 A
W9MY 9,476 103 46 10 A
K9NA 6,240 78 40 4 A
N9ALC 3,200 50 32 4 A
W9HJ 2,880 48 30 4 A
K9QRA 32 4 4 1 A
W9BZ 237,948 1506 79 24 B
K9LU 205,452 1317 78 24 B
K9BGL 204,610 1295 79 24 B
WA9TPQ 198,132 1254 79 24 B
W9SFG 53,778 341 79 19 B
AA9Y 41,020 249 74 24 B
WA9RE 33,872 232 73 24 B
N9YCT 19,564 146 67 19 B
K9UQN 10,560 110 48 3 B
WE9A 77,736 492 79 24 U
K9BMDL 57,750 377 19 U
K9SN 20,636 134 77 24 U
K9NS (K9PW,W9RM,W9ST,ops) 288,824 1828 79 24 M
K9NR (+K9F1F) 152,628 966 79 24 M
N9PD (W9YK,KF9ZZ,K9GML,ops) 144,412 914 79 24 M
N9STL (+K9HUH) 135,564 858 79 24 M
K9MOT (K9SGR,N9MUC,NASIZ,K9RR, K9QI,N9KNS,K9RJ,AA9EA,N9EP, N9NA,ops) 115,182 729 79 24 M
W9GKA (+K9ZA) 65,676 421 78 21 M
W9EM (+K9LPM,AA9QT,W9RRR) 65,360 430 76 24 M
N9IO (+W9IOU) 63,602 413 77 23 M
N9GH (+N9WJ,N9YFL,K9BJW, N9LJY) 47,336 306 78 19 M
N5UWY (+K5BTFX) 35,700 238 75 18 M
W9DA (K5COE,W9YO,ops) 18,240 152 60 9 M
W9UQH (W0TPO, op) 37,814 259 73 17 S

Ohio
WA8RJF 50,560 320 79 12 Q
WA8RCN 43,200 300 72 15 Q
N8IE 40,588 278 73 24 Q
K8OUA 7,210 103 35 4 Q
W8JL 54,228 316 75 17 A
W8DD 152,154 963 79 23 A
N8DBD 142,990 905 79 22 A
N8PCN 101,556 651 78 24 A
W8UPH 74,880 480 78 18 A
N8FW 62,726 397 79 24 A
W8BMP 58,930 415 71 24 A
AF8C 47,880 316 75 17 A
K8CI 47,880 316 75 17 A
K8SHE 43,650 291 75 24 A
W8TTS 36,600 244 75 24 A
N8ATT 35,234 223 79 12 A
K8JF 33,592 227 74 7 A
K8BYE 32,390 205 79 14 A
W8JL 32,992 213 77 17 A
WA8TWM 18,744 142 66 14 A
K8KR 18,724 151 62 4 A
N8NHO 18,666 183 51 17 A
AA8HH 18,328 116 79 15 A
AA8QJ 17,854 113 79 18 A
N8JLP 17,408 136 64 10 A
K8GOL 17,380 110 79 5 A
K8IG 17,250 125 69 8 A
W8IDM 16,560 115 72 9 A
AF8A 15,950 145 55 4 A
AA8BV 14,946 141 53 4 A
N8RV 14,040 130 54 13 A
W8DYF 13,545 107 61 6 A
W8VE 12,654 111 57 16 A
NS8O 11,716 101 58 24 A
K8BWD 10,528 112 47 7 A
N8RPA 9,718 113 43 9 A
W8IT 9,180 85 54 24 A
K8JNC 8,778 133 33 24 A
W8JK 8,526 87 49 24 A
K8JUC 5,768 63 24 A
K8BQM/M 4,776 17 14 4 A
K8CMS 4,776 17 14 4 A
K8DX 237,790 1505 79 24 B
N8BJQ 136,670 865 79 18 B
K1O1 125,452 794 79 15 B
W8KEN 67,606 439 77 24 B
N8HSL 57,320 362 78 24 B
K8NIA 23,384 148 79 24 B
W9OBQ 22,176 154 72 18 B
N2DPF 14,100 150 47 12 B
N8ET 56,406 357 79 24 U
N8BC (K8BL,op) 47,580 305 78 7 U
W8TC 34,592 226 76 8 U
K8BL 12,482 79 75 5 U
N8TR 11,552 76 76 7 U
W8ZP (+K8EY,N8OFK,W8BC,N8WCU, K8CZC,K8BEM,W8XJ) 169,218 1071 79 24 M
K8EE (+K8BCQ,K8BIO,N8JR) 109,336 892 79 24 M
W8NP (K8C8H,K8FUB,K8C8LY,ops) 47,586 309 77 23 M
K8SCH 41,496 266 78 15 M
W8FT (N8ET, AA8KJ, AA8V, N8RMT, ops) 29,488 194 76 24 M
W8DY (K8BL,N8IP,N8DNG, W8BRX,N8SSE,AA8QJ,ops) 11,590 95 61 24 M
K8BIFC (+K8A8H) 4,524 58 39 24 M

West Virginia
K8SID 92,588 586 79 16 A
WA8WV 57,320 390 74 8 B
N8II 132,128 1216 79 19 B
K3JT 160,054 1013 79 19 B
W8ZA (K3DNE,op) 152,154 963 79 24 B
N4ZR 62,752 424 74 24 B
K2LUP 61,446 398 24 B
W8SL 43,928 389 76 19 B
K8KJF 18,880 160 59 6 B
WA8ZDL 22,120 140 79 20 U

Wisconsin
W9SV 64,148 406 79 24 Q
N8NE 62,216 404 77 19 Q
AF9J 24,304 196 62 16 Q
WA1UJU 149,136 956 78 24 A
K9AFOX 53,196 341 78 5 A
W9XT 34,648 244 71 24 A
K9ARF 32,760 210 78 17 A
W8MY 30,418 227 67 24 A
K8OSH 27,600 200 67 24 A
K8BKEG 16,560 115 52 6 A
W8BWP 16,048 136 59 6 A
W9FBC 8,232 84 49 9 A
K9YR 41,238 261 79 24 B
K9R 23,998 169 71 24 B
K9R 8,372 91 46 18 B
N9PQU 16,274 103 79 24 U
W8BUB (N9FH, W8UBJ, KA9WXN, N9SD, N9VA, ops) 183,912 1164 79 24 M
K9CGG (+K9ENJ) 128,454 813 79 23 M
NE9U (+K9BTTO) 76,314 483 79 13 M

Colorado
K0II 40,176 279 72 17 Q
W0HEP 35,568 228 78 18 Q
W8HZL 11,220 110 51 6 Q
K0UK 210,614 1333 79 23 A
K0RI 84,708 543 78 13 A
W0ZA 60,532 409 74 24 A

NZ9M 19,530 155 63 8 Q
AA9KH 11,448 106 54 12 Q
N9HJ 11,130 106 53 3 Q
K9KA 174,590 1105 79 24 A
W9DCIR 96,096 616 78 19 A
WA9Z 78,078 507 77 24 A
K9JE 73,628 466 79 15 A
K9MS 63,180 405 78 24 A
N9SG 60,236 407 74 19 A
K9NAV 60,152 447 78 24 A
N9BT 41,964 286 78 24 A
K9CS 41,184 269 72 10 A
K9MZ 41,118 267 77 17 A
K9GJP 34,222 241 71 24 A
W9FQG 33,592 221 76 16 A
WA9CQ 31,360 224 70 24 A
W9HL 30,784 204 74 18 A
W9HBC 30,192 204 74 18 A
W9V9 30,178 191 74 18 A
K9CYL 29,614 221 67 24 A
W9BZP 23,800 170 70 20 A
W9LQK 23,700 150 79 8 A
N9J 21,760 180 68 24 A
K9GK 21,528 156 68 24 A
N9JF 21,360 178 60 5 A
K9MS 20,916 166 63 8 A
K9GPP 20,130 165 61 8 A
K9MMS 19,968 128 78 15 A
W9HED 16,632 108 77 22 A
W9DEJK 15,444 117 66 6 A
W9HL 13,580 108 68 24 A
N9JZ 11,988 162 37 24 A
N9BK 11,960 115 52 8 A
K9KJ 10,584 108 49 24 A
W9MY 9,476 103 46 10 A
K9NA 6,240 78 40 4 A
N9ALC 3,200 50 32 4 A
W9HJ 2,880 48 30 4 A
K9QRA 32 4 4 1 A
W9BZ 237,948 1506 79 24 B
K9LU 205,452 1317 78 24 B
K9BGL 204,610 1295 79 24 B
WA9TPQ 198,132 1254 79 24 B
W9SFG 53,778 341 79 19 B
AA9Y 41,020 249 74 24 B
WA9RE 33,872 232 73 24 B
N9YCT 19,564 146 67 19 B
K9UQN 10,560 110 48 3 B
WE9A 77,736 492 79 24 U
K9BMDL 57,750 377 19 U
K9SN 20,636 134 77 24 U
K9NS (K9PW,W9RM,W9ST,ops) 288,824 1828 79 24 M
K9NR (+K9F1F) 152,628 966 79 24 M
N9PD (W9YK,KF9ZZ,K9GML,ops) 144,412 914 79

W0EEE (KB0QQF, K10MI, KB0VLG, KC9UMR, K10QB, K10PX, KA0MEK, op)	173,328	1097	79	24	M
KC0CWU (+KC0CZG, KC0CZH)	47,424	304	78	21	M
W5CBC (KB1AHR, KC0DKL, KB9NIQ, ops)	9,408	96	49	7	S
<b>Nebraska</b>					
W0DB	110,136	706	78	19	A
K0IL	92,114	583	79	18	A
KK0DX	80,264	508	79	16	A
K0PFV	65,052	417	78	20	A
KA0T	38,982	267	73	17	A
KB0WHY	38,500	275	70	15	A
W0UVC	15,756	101	78	17	A
KC0FUD	15,750	125	63	11	A
N0OFR	13,356	159	42	11	A
KA0TKU	10,952	74	74	11	A
K0DI	2,132	41	26	2	B
K0GND					
(+WD0EGK, KC0FYT, K0NC, WA0WR1)	145,676	922	79	24	M
N0GVK (+KE0BZ, KC0CDQ)	140,936	892	79	24	M
<b>North Dakota</b>					
AF9T/0	116,604	738	79	19	A
KB0XX	40,612	286	71	20	A
KC0FDK	13,260	130	51	15	A
W00J	7,738	73	53	6	A
ND0DX	41,700	278	75	24	U
N0FW (+KE0A, KC0BUD, KC0CRU)	228,942	1449	79	24	M
<b>South Dakota</b>					
WB0ULX	14,734	139	53	16	A
KC0DKA	9,660	105	46	24	A
KA0VME	9,288	108	43	8	A
KE0Z	580	20	17	1	A
W0SD (WD0T, op)	312,840	1980	79	24	B
<b>CANADA</b>					
<b>Maritime-Newfoundland</b>					
VE9WH	27,832	196	71	24	A
VE9MY	75,848	499	76	16	B
VE9FX	43,650	291	75	24	B
<b>Newfoundland-Labrador</b>					
VO1HE	58,934	373	79	9	A
VO1GO	58,302	369	79	17	A
VO1MP	167,322	1059	79	15	B
VO1WET	60,736	416	73	24	B
<b>Quebec</b>					
VE2AWR	99,060	635	78	24	A
VE2GWL	25,594	191	67	23	A
VE2HLW	25,476	193	66	19	A
VE2LHP	2,220	37	30	6	A
VE2PU	1,334	29	23	9	A
VE2MAB (VE2ESP, VE2BRT, VE2MPD, VE2SHW, VE2HAX, ops)	24,080	280	43	23	M
<b>Ontario</b>					
VE3WMB	672	21	16	24	Q
VE3XN	150,416	952	79	20	A
VA3UZ	79,248	508	78	16	A
VE3BUC	68,796	441	78	24	A
VA3SWG	68,250	455	75	16	A
VE3STT	66,300	425	78	14	A
VE3GD	36,408	246	74	17	A
VE3UZ	24,480	180	68	6	A
VA3GGF	14,364	126	57	10	A
VE3SYB	13,020	105	62	24	A
VA3TPV	8,742	93	47	24	A
VE3MQW	8,680	124	35	6	A
VE3WZ	5,600	70	40	3	A
VE3IC	128,296	812	79	19	B
<b>Manitoba</b>					
VE4VV	128,928	816	79	19	Q
VE4GV	277,606	1757	79	24	A
VE4YU	22,302	177	63	6	A
VE4HAZ	11,264	128	44	8	A
<b>Saskatchewan</b>					
VE5SF	214,248	1356	79	24	A
VE5GC	37,814	259	73	11	A
VE5CPU	169,104	1084	78	22	B
<b>Alberta</b>					
VE6BF	364	14	13	1	Q
VE6EX	117,810	765	77	15	A
VE6FU	34,780	235	74	24	A
VE6JY (VE5MX, op)					
VE6AO (+ops)	315,052	1994	79	24	B
VE6II (+VE6NN)	226,730	1435	79	24	M
	30,732	197	78	15	M
<b>British Columbia</b>					
VE7NF	166,648	1056	79	21	A
VE7IN	159,900	1025	78	24	A
VE7RCN (VE7CYT, op)	131,456	832	79	23	A
VE7DUG	73,150	475	77	24	A
VE7XB	40,128	264	76	9	A
VE6BIR/7	12,482	79	79	13	A
VE7NA (VE7GDE, VE7NEW, VE7BGP, VE7JLO, VE7LVD, VE7FCO, ops)	36,500	250	73	23	M
<b>Northwest Territories</b>					
VE8JR (KL7JR, op)	93,294	657	71	19	A
VE8JR	205,400	1300	79	24	B

**QST**

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