

“Float Like a Butterfly, Sting Like a Bee”: The 2000 ARRL November Phone Sweepstakes

It may be hard for our family and friends to believe, but almost every ham has at least one other hobby that helps occupy their time. Sports, music, art, astronomy—the list can go on and on.

Here at the ARRL, we have developed our own special collection. We aren't quite sure what to call it, but it probably is a subset of entomology. Each year we gather the most outstanding collection of insects, which in laymen's terms are those that have developed into outstanding examples of “contest bugs.” We identify those who have climbed to the top of their various species, survived against their natural hazards, adapted to fight the man-made enemies and end up as the very elite of their species.

A lot of hard work has gone into studying those who migrate each November to the annual exhibit known as the ARRL November Phone Sweepstakes. Hatched from hard work and developing special traits to survive and excel, the metamorphosis from casual contesteer to section champion to division winner to Top Ten achiever is special.

The 2000 ARRL November Phone Sweepstakes once again was a showcase of the outstanding achievers in our special contest bug exhibition. A total of 1609 species submitted logs for the contest, representing over 2000 involved operators. This is an increase in logs submitted of 11% over 1999 and represents over 650,000 QSOs during the contest period. A total of 406 “Clean Sweeps” were claimed, which was almost identical with last year's 413, even with the addition of the new West Central Florida section this year.

The monarch butterfly may be the most majestic of any species, and can easily be equated to the Single Operator High Power category. Spreading his wings as the undisputed category champion for the third consecutive year is Rich, KE3Q, operating from WP3R. Rich continues his recent domination of the November Sweepstakes in posting a new overall category record of 425,280. Two other strong guest opera-

Top Ten

Single Operator, QRP

K5RX	140,640
KØFRP	113,100
VE4VV	110,418
NØUR	87,516
K1NU	70,840
WØETT	66,728
W7YAQ	64,938
NA4CW	62,568
K9ZO	61,304
WA8ZBT	61,280

Single Operator, Low Power

VE4GV	308,160
KL7Y	270,400
(WA2GO, op)	
K3CR	229,440
(KB3AFT, op)	
VE5SF	219,680
K6LA	216,000
KK9A	215,040
K5KA	214,720
K7QQ	211,200
NØKK	208,480
K4XU	208,402

Single Operator, High Power

WP3R	425,280
(KE3Q, op)	
KH7R	354,720
(KH6ND, op)	
WP2Z	353,440
(K8MJZ, op)	
W7WA	342,720
W5KFT	340,640
(K5TR, op)	
WBØO	332,160
K6LL	330,560
WØSD	326,400
(WDØT, op)	
K4XS	324,160
VE6JY	320,480
(VE5MX, op)	

Single Operator, Unlimited

K7BV	312,160
W4MR	239,680
(AA4NC, op)	
W2RE	228,784
W4MYA	227,680
N2MM	223,040
K6RIM	205,600
W4NF	203,040
W9BS	199,360
K6XX	196,800
N5ZC	194,080

Multi-Operator

K7IR	315,520
K9NS	294,080
W1AW	290,400
W6EEN	287,360
W6YX	283,680
W5TM	273,920
WØAIH	272,160
N6KI	251,360
K6NO	249,920
K1TTT	248,480
KR6RF	248,480

School Club (all classifications)

W9PU	180,480
W7ASU	174,560
W4AQL	145,280
W5YM	143,840
K4KDJ	115,182
W7UQ	107,744
(KL9A, op)	
KØRHS	89,096
W6ISQ	80,000
WA5BU	76,692
N9UC	64,144
(WØ9S, op)	

tor efforts took the runner-up slots in the category, with Mike, KH6ND, finishing second from KH7R and Stan, K8MJZ, taking third place from WP2Z. Rich's score was the only category division record (Southeastern) rewritten during this year's event.

Just as dominant in the Single Operator Low Power category was Rob, VE4GV, who took flight like a swarm of locusts and “devoured” his competition for a three-peat title with an overall record setting category score of 308,160. Finishing in the second place slot was Dan, WA2GO, operator at KL7Y. Finishing third, while setting a new Atlantic Division category record, was Jim,

KB3AFT, operating from the K3CR club station. WA1LJD also set a New England division category record in 2000.

The Single Operator QRP category may carry only a small sting, but pound for pound is always a potent force in any contest. The small hornet with the biggest sting this year was Jim, K5RX, who lead the way with a score of 140,640. Al, KØFRP and Derrick, VE4VV, finished second and third, respectively. No Overall or Division records fell in this category this year.

Dangerous as a tsetse fly, Dennis, K7BV, set a new overall (and Pacific Division) record in the Single Operator Unlimited category with a score of 312,160, bettering the 300 K mark for the first time in the category and repeating his 1999 victory. Dennis' margin of victory was the largest in any of the entry categories. Will, AA4NC, op at W4MR, finished second. With a new Hudson Division record, Ray, W2RE, was able to hang on for a third-place finish. In addition, new division records were set by K1UQ (New England), W7OM (Northwestern), WAØSXV (Rocky Mountain) and AK6R (Southwestern).

Multioperator stations were as common as lightning bugs on a warm summer night and great efforts were seen in each Division in 2000. The K7IR station had the most consistent light of them all and pulled out victory with a score of 315,520, though they fell shy of the category and division records. While finishing second and third, the ops at K9NS and W1AW did set new division records (Central and New England, respectively).

Perhaps inspired by their biology instructors, the number of entries among school clubs almost doubled in 2000. Congratulations to the W9PU Indiana University-Purdue University at Indianapolis for winning the second annual Mark Smith, KD4JLC, Memorial plaque awarded to the top scoring overall college or university School Club entry. IU-PUI edged out W7ASU, the competitors at Arizona State University in a close category battle—180,480 to 174,560.

Two traditional November Sweep-

stakes powerhouse clubs—the Northern California Contest Club and the Potomac Valley Radio Club—staged a great head-to-head battle in the Unlimited Affiliated

Club Competition. However, a revitalized Society of Midwest Contesters brought out participants in record numbers for their club, and won the Unlimited cat-

egory. Congratulations are in order for the Southern California Contest Club who edged out the Mad River Radio Club in the Medium Club category. In the Local Club division, the River City Contesters tallied a strong victory over the Hudson Valley Contesters and DXers. A total of 74 clubs submitted the minimum of three logs required for participation in this exciting component of Sweepstakes.

Collecting call signs from those with the contest bug has long been one of the great parts of our hobby. Annually, the November Phone Sweepstakes is one of the most popular on-the-air events sponsored by the ARRL. Instead of butterfly nets and jars to catch the prime species, now is the time to start working on antennas and strategies to help you snare those rare species while working your way to the coveted sweep. The 2001 ARRL November Phone Sweepstakes will take place on November 17-19. Good luck as you start to build your collection of these fascinating “insects.”

SOAPBOX

I had a great time doing this contest. I ran a relatively small station, but got a good score anyway. I exceeded all my goals. I hope to upgrade my station and beat my score by far next year (AA1UZ)... Beam got stuck at 90 degrees. Not too many sections this time. Wait till next year (AD4IE)... It is hard to believe what I achieved with only a simple wire antenna (AE5Q)... This my first sweep! Learned that I need to work on my low band antennas (AK4ST)... Don't remember ever getting a sweep within 6 hours (K1AM)... A hearty welcome to VY1MB (K1HT)... This was a great training event for two new, young contesters. My son, Sander (KB1FPU) is 10 years old, and his friend, Chris (KB1ELV) is 12 (K1IR)... N1YHO, age 11, in his first contest did remarkably well with the computer logging program and often had the contacts on the screen before the senior op figured out who was calling! It must be nice to have ears that work like that! He eventually took over the radio and did a lot of the searching and gave us a sweep (K1LU)... My first experience with QRP. It had its good times and bad. Had fun with 80 meters late Saturday night and early Sunday morning. The fun ran out when I got swallowed up in the rush during the last few hours of the contest (K4OOO)... It is sobering to think of how much fun millions more people could have if they knew about Sweepstakes weekends (K5VG)... The contest bug bit new ham Mark, KD7KUN, big time, thanks to SS. He's blaming the rest of us for having to upgrade now (K7PAR)... Having an 11 year old as a partner sure makes you feel old (K9IG)... XYL sees me in a whole new light after watching my Sweep Dance (KB7PKC)... First I went deer hunting, got my deer, then I went multiplier hunting. Got a 9-point buck and missed some multipliers. Hope I can do as well next year (KB9KEG)... Life's too short for QRP (KC5R)... Oh, the agony of coming up just short of a clean sweep (KE0Z)... NWT was easier to bag than the NFL (KE4OAR)...

Plaque Winners

Division	Category	Winner	Sponsor
Overall	Single Operator High Power	WP3R (KE3Q, op)	Carl Cook, A16V
Overall	Single Operator Low Power	VE4GV	Ken Adams, K5KA
Overall	Single Operator QRP	K5RX	QRP Amateur Radio Club International
Overall	Single Operator Unlimited	K7BV	
Overall	School Club College Division	W9PU	Mark Smith, KD4JLC, Memorial
Overall	Multioperator	K7IR	Central Texas DX & Contest Club
Atlantic	Single Operator High Power	K3MM	North Coast Contesters
Atlantic	Single Operator Low Power	K3CR (KB3AFT, op)	
Atlantic	Single Operator QRP	N3UR	
Atlantic	Single Operator Unlimited	N2MM	
Atlantic	Multioperator	WY3T	Mark Sickmeyer, KB3GJ, Memorial
Central	Single Operator High Power	K9XD (K9PG, op)	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	W9BS	Society of Midwest Contesters
Central	Multioperator	K9NS	Don Haney, W9WW
Dakota	Single Operator High Power	WB0O	Minnesota Wireless Association
Dakota	Single Operator Low Power	N0KK	Minnesota Wireless Association
Dakota	Single Operator QRP	N0UR	Tod Olson, K0TO
Dakota	Single Operator Unlimited	K0AD	Minnesota Wireless Association
Dakota	Multioperator	KR0B	In Memory of Jim Dokmo, K0FVF, Minnesota Wireless Association
Delta	Single Operator High Power	W5WMU	
Delta	Single Operator Low Power	NA4K	
Delta	Single Operator QRP	K4OOO	
Delta	Single Operator Unlimited	WQ5L	
Delta	Multioperator	W4CAT	
Great Lakes	Single Operator High Power	K8DX	North Coast Contesters
Great Lakes	Single Operator Low Power	W8MJ	Mad River Radio Club
Great Lakes	Single Operator QRP	N8IE	
Great Lakes	Single Operator Unlimited	N8SNM	
Great Lakes	Multioperator	N8HR	
Hudson	Single Operator High Power	K2UG	
Hudson	Single Operator Low Power	W2ENY	
Hudson	Single Operator QRP	K2DW	
Hudson	Single Operator Unlimited	W2RE	
Hudson	Multioperator	KY2J	
Midwest	Single Operator High Power	N0AC	
Midwest	Single Operator Low Power	W0MW	
Midwest	Single Operator QRP		
Midwest	Single Operator Unlimited	K0INR	Kirk Pengelly, N0KK
Midwest	Multioperator	W0NO	
New England	Single Operator High Power	WB1GQR (W1SJ, op)	Ed Parsons, K1TR
New England	Single Operator Low Power	WA1LJD	
New England	Single Operator QRP	K1NU	QRP Club of New England
New England	Single Operator Unlimited	K1UQ	
New England	Multioperator	W1AW	
Northwestern	Single Operator High Power	W7WA	
Northwestern	Single Operator Low Power	KL7Y (WA2GO, op)	
Northwestern	Single Operator QRP	W7YAQ	
Northwestern	Single Operator Unlimited	W7OM	
Northwestern	Multioperator	W7GG*	
Pacific	Single Operator High Power	KH7R (KH6ND, op)	
Pacific	Single Operator Low Power	KS6H	Jim Hollenback, NK6L
Pacific	Single Operator QRP	W6LPW	
Pacific	Single Operator Unlimited	K6RIM*	
Pacific	Multioperator	W9YX	
Roanoke	Single Operator High Power	W2CS	
Roanoke	Single Operator Low Power	W4OC	
Roanoke	Single Operator QRP	KO4PY	NoVa QRP Group
Roanoke	Single Operator Unlimited	W4MYA	
Roanoke	Multioperator	W4MR	Shenandoah Valley ARC
Rocky Mountain	Single Operator High Power	K7UP (AA5B, op)	
Rocky Mountain	Single Operator Low Power	K0UK	
Rocky Mountain	Single Operator QRP	K0FRP	
Rocky Mountain	Single Operator Unlimited	WA0SXV	
Rocky Mountain	Multioperator	K7TD	
Southeastern	Single Operator High Power	WP2Z (K8MJZ, op)*	
Southeastern	Single Operator Low Power	W4WA	
Southeastern	Single Operator QRP	NA4CW	
Southeastern	Single Operator Unlimited	N4DL	
Southeastern	Multioperator	K4WCF	
Southwestern	Single Operator High Power	K6LL	
Southwestern	Single Operator Low Power	K6LA	
Southwestern	Single Operator QRP	N7VY	Ray and Donna Day, N6HE and N6HTH
Southwestern	Single Operator Unlimited	AK6R	
Southwestern	Multioperator	W6EEN	
West Gulf	Single Operator High Power	W5KFT (K5TR, op)	
West Gulf	Single Operator Low Power	K5KA	Gator Bowen, N5RZ
West Gulf	Single Operator QRP	WA8ZBT*	
West Gulf	Single Operator Unlimited	N5ZC	
West Gulf	Multioperator	W5TM	Oklahoma DX Association
Canada	Single Operator High Power	VE6JY (VE5MX, op)	
Canada	Single Operator Low Power	VE5SF*	
Canada	Single Operator QRP	VE4VV	
Canada	Single Operator Unlimited	VE3VSM	
Canada	Multioperator	VE6AO	

*The plaque was awarded to the second-place division score because the division winner also won the overall competition. Un-sponsored plaques may be purchased for \$60 each by contacting the ARRL Contest Branch Manager.

It was a good way to sharpen my operating skills and a good chance to listen closer for those weak stations out (K06RM/5)... A terrible roller coaster ride that eventually took me past my goals for this contest. Whew! (KS4XG)... I knew it was going to be a good day when I heard two VE9s working each other on 10-meters. The boys are really getting the hang of Sweepstakes (N0AX)... Close multi-op scores between us and K0DE—a fine pair of contest operators at 12 and 13 years old! Thanks to Steve, N2IC, Rip, NV0M, and Ellie, N0QCX for helping get young people interested in the hobby (N0HF)... Lots of considerate operators this

year helping newcomers to be a part of contest (N0ND)... First SS since the mid-50s. Made an unexpected sweep. The last section was North Florida (N4IG)... Only my second SS, but what a blast! I'll definitely be back. Didn't have the nerve to call CQ so it was "search and pounce" the entire time. Most of the stations were very courteous (N4VYW)... W1AW was contact #1 and a clean sweep, what a thrill for an upgraded tech plus (N8KIE)... A surprise snow shower made Sunday good to stay home and contest (NI4S)... I can't operate HF effectively from my apartment in the city, so for this contest I drove up north to my mother's house. The

comfortable accommodations, relatively noise-free RF environment and home cooked meals make Mom's place the best contest ranch in the world (VE3VSM)... This was my first SS. Look out, VY1JA, here I come! (VY1MB)... I worked all summer long installing stacked beams on the tower and the 80-meter dipole I put up an hour before the contest outperformed them all. Sweep in 10 hours (W4NF)... We heard more schools in the 'S' category this year. I'm glad to see that our competition is growing (W7ASU)... How I could S&P for 20 hours and never hear a "CQ Contest" from my own section is a mystery to me! It certainly has never happened before (WK5K).

Affiliated Club Competition

Unlimited Category			Medium Category			Local Category		
	Score	Entries		Score	Entries		Score	Entries
Society of Midwest Contesters	14,552,734	211	Central Arizona DX Assn	589,194	8	Six Meter Club of Chicago	93,486	5
Northern California Contest Club	14,152,580	123	Central Oregon DX Club	574,052	3	Carolina DX Assn	89,646	3
Potomac Valley Radio Club	12,213,356	146	Woodbridge Wireless	564,440	8	Poughkeepsie ARC	62,748	3
Yankee Clipper Contest Club	6,672,154	90	Kansas City DX Club	550,226	6	Fresno ARC	59,742	3
Minnesota Wireless Assn	5,832,208	69	Salt City DX Assn	414,824	4	L'anse Creuse ARC	55,076	3
			South Jersey Radio Assn	381,176	15	Southern California DX Club	41,622	4
			Schenectady ARA	362,224	6	Radio Club of Tacoma	34,180	3
			Northern Arizona DX Assn	345,872	6			
			Rip Van Winkle ARS	335,784	7			
			AK-SAR-BEN	331,900	9			
			Hazel Park ARC	328,276	16			
			Eastern Iowa DX Assn	313,152	6			
			Western New York DX Assn	310,496	4			
			Ozark Contest Club	304,652	6			
			Magnolia DX Assn	287,108	4			
			Colorado QRP Club	271,864	4			
			Bergen ARA	269,438	14			
			West Park Radiops	239,898	7			
			Twin City Ham Club	236,124	4			
			Central Michigan ARC	181,444	8			
			Motorola ARC	165,642	6			
			Mile High DX Assn	162,032	3			
			Green River Valley ARS	159,462	4			
			Northrop Grumman Radio Club	134,308	4			
			Murgas ARC	118,306	6			
			Mother Lode DX/Contest Club	110,716	5			

Top Five

Boxes list call sign, score and class (Q = QRP, A = Low Power, B = High Power, M = Multioperator, U = Single op 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/Yukon Sections)		
WB1GQR (W1SJ, op)	261,920	B	WP3R (KE3Q, op)	425,280	B	K8DX K9XD	252,000	B	W5KFT (K5TR, op)	340,640	B	KH7R (KH6ND, op)	354,720	B
K3MM	260,000	B	WP2Z (K8MJZ, op)	353,440	B	(K9PG, op)	243,040	B	WB0O	332,160	B	W7WA	342,720	B
W2GG	251,040	B	K4XS	324,160	B	K8ND	237,440	B	W0SD	326,400	B	K6LL	330,560	B
KK1L	242,880	B	WC4E	253,920	B	N2BJ	237,120	B	(WD0T, op)			VE6JY	320,480	B
N2MF	242,400	B	W5WU	252,800	B	WB9Z	236,480	B	K7UP (AA5B, op)	310,400	B	(VE5MX, op)		
									W0GU (K9TM, op)	307,360	B	N6BV	306,240	B
K3CR (KB3AFT, op)	229,440	A	W4OC	183,200	A	KK9A	215,040	A	VE4GV	308,160	A	KL7Y (WA2GO, op)	270,400	A
WA1LJD	201,120	A	W4WA	178,880	A	W8MJ	195,040	A	VE5SF	219,680	A	(WA2GO, op)		
K1HTV	183,122	A	NA4K	118,720	A	ND8DX	170,080	A	K5KA	214,720	A	K6LA	216,000	A
KZ1M	164,800	A	NQ4U	113,444	A	WX9U	148,160	A	N0KK	208,480	A	K7QQ	211,200	A
K1VUT	145,548	A	WA8WV	110,080	A	W8DD	144,160	A	WQ5W	185,760	A	K4XU	208,402	A
											K6RO	200,480	A	
K1NU	70,840	Q	NA4CW	62,568	Q	K9ZO	61,304	Q	K5RX	140,640	Q	W7YAQ	64,938	Q
K2DW	53,746	Q	K4OOO	36,120	Q	N8IE	52,480	Q	K0FRP	113,100	Q	N7VY	40,170	Q
WG1Z	48,980	Q	K04YY	19,520	Q	WA8RCN	34,080	Q	VE4VV	110,418	Q	N7JXS	35,856	Q
N3UR	48,184	Q	N5IB	13,050	Q	AF9J	27,406	Q	N0UR	87,516	Q	W6LPW	34,992	Q
AA2VK	42,924	Q	KO4PY	12,540	Q	NS8O	19,458	Q	W0ETT	66,728	Q	W6MOT (WB6OIL, op)	30,076	Q
W2RE	228,784	U	W4MR	239,680	U	W9BS	199,360	U	N5ZC	194,080	U	K7BV	312,160	U
N2MM	223,040	U	(AA4NC, op)			K9LU	184,960	U	WA0SXV	140,000	U	K6RIM	205,600	U
K1UQ	187,360	U	W4MYA	227,680	U	N8SNM	150,880	U	K0AD	106,018	U	K6XX	196,800	U
N1XS	158,400	U	W4NF	203,040	U	N8SZ	140,640	U	K8EI	99,698	U	K6AUC	185,920	U
AF1G (N1HKO, op)	148,046	U	N2QT	174,720	U	W9IU	133,760	U	W7CT	97,328	U	AK6R	183,122	U
			KV3R	145,760	U									
W1AW	290,400	M	W4DC	229,760	M	K9NS	294,080	M	W5TM	273,920	M	K7IR	315,520	M
K1TTT	248,480	M	K4WCF	223,040	M	W0AIH	272,160	M	W0NO	241,440	M	W6EEN	287,360	M
KY2J	244,800	M	N4PK	222,080	M	W9YV	242,080	M	K7TD	223,040	M	W6YX	283,680	M
K2XR	221,600	M	W4CAT	186,880	M	KE9I	239,840	M	N5XU	218,720	M	N6KI	251,360	M
WM2V	219,520	M	W4AN	183,200	M	N8HR	180,594	M	KR0B	218,400	M	K6NO	249,920	M

Scores

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

Table containing contest scores for various states including Connecticut, Western Massachusetts, Eastern Massachusetts, Maine, New Hampshire, Rhode Island, Vermont, Maryland-DC, Southern New Jersey, Western New York, Western Massachusetts, New Jersey, Delaware, Pennsylvania, Georgia, Kentucky, North Carolina, Puerto Rico, South Carolina, and Tennessee. Each entry includes call sign, score, QSOs, multipliers, hours, class, and operator name.

Virgin Islands

Table with columns for call sign, frequency, power, and other details for Virgin Islands stations.

Virginia

Table with columns for call sign, frequency, power, and other details for Virginia stations.

Table with columns for call sign, frequency, power, and other details for stations in West Virginia.

New Mexico

Table with columns for call sign, frequency, power, and other details for New Mexico stations.

North Texas

Table with columns for call sign, frequency, power, and other details for North Texas stations.

Table with columns for call sign, frequency, power, and other details for stations in Kansas.

East Bay

Table with columns for call sign, frequency, power, and other details for East Bay stations.

Los Angeles

Table with columns for call sign, frequency, power, and other details for Los Angeles stations.

Orange

Table with columns for call sign, frequency, power, and other details for Orange stations.

Pacific

Table with columns for call sign, frequency, power, and other details for Pacific stations.

Sacramento Valley

Table with columns for call sign, frequency, power, and other details for Sacramento Valley stations.

Alaska

Table with columns for call sign, frequency, power, and other details for Alaska stations.

Arizona

Table with columns for call sign, frequency, power, and other details for Arizona stations.

San Diego

Table with columns for call sign, frequency, power, and other details for San Diego stations.

San Francisco

Table with columns for call sign, frequency, power, and other details for San Francisco stations.

San Joaquin Valley

Table with columns for call sign, frequency, power, and other details for San Joaquin Valley stations.

Table with columns for call sign, frequency, power, and other details for stations in California.

Santa Barbara

Table with columns for call sign, frequency, power, and other details for Santa Barbara stations.

Santa Clara Valley

Table with columns for call sign, frequency, power, and other details for Santa Clara Valley stations.

Utah

Table with columns for call sign, frequency, power, and other details for Utah stations.

Washington

Table with columns for call sign, frequency, power, and other details for Washington stations.

Wyoming

Table with columns for call sign, frequency, power, and other details for Wyoming stations.

Table with columns for call sign, frequency, power, and other details for stations in Montana.

Nevada

Table with columns for call sign, frequency, power, and other details for Nevada stations.

Oregon

Table with columns for call sign, frequency, power, and other details for Oregon stations.

Idaho

Table with columns for call sign, frequency, power, and other details for Idaho stations.

Michigan

Table with columns for call sign, frequency, power, and other details for Michigan stations.

Montana

Table with columns for call sign, frequency, power, and other details for Montana stations.

Nebraska

Table with columns for call sign, frequency, power, and other details for Nebraska stations.

North Dakota

Table with columns for call sign, frequency, power, and other details for North Dakota stations.

South Dakota

Table with columns for call sign, frequency, power, and other details for South Dakota stations.

Wisconsin

Table with columns for call sign, frequency, power, and other details for Wisconsin stations.

