

1999 ARRL November Sweepstakes CW Results

With apologies to Edgar Allan Poe...
*"Once upon a midnight dreary, while I
pounded (brass), weak and weary,
High above my noise threshold crashing,
came the sound of multipliers rapping,
Just like sounds of some one tapping, tap-
ping at my ham shack's door,
Only this, and nothing more..."*

Just like Poe's poetry, the November CW Sweepstakes is a cacophony of sound to some, a symphony to others. It also invokes a wide range of images with generous helpings of various emotions to inspire, sometimes frustrate, but always challenge the participant.

Sweepstakes 1999 saw the addition of a new operating category that brought about a change in the contest exchange. A station's entry category is now reflected by the precedence they send. Single-operator stations now identify as Q, A, B or U (for unlimited/packet assisted) while multi-operator stations now all send the precedence of M during their transmission. Also, you will hear the precedence S being sent by schools that choose to participate in the newly defined School Club competition.

Participation continued to hold in the same range as the past 5 years. It is exciting to note that the mean average number of QSOs per log topped over 400—a first for CW Sweepstakes. Once again over 1000 stations qualified for the 1999 SS CW pin for attaining over 100 QSOs for the contest. CW Sweepstakes continues to be a vibrant, exciting and challenging operating event.

*"Ah, distinctly I remember, searching
through November's splendor,
Trying for the clean sweep venture. Scouring
airwaves with my Bencher.
In hope of adding my name to the distin-
guished Sweepstakes lore,
Wanting this, and nothing more..."*

The elusive "clean sweep" was even more elusive in 1999, as activity was down in the Caribbean, due in part to Mother Nature taking her frustrations out in the forms of several late-summer and fall hur-

ricanes. Many hams owe a tip of the "clean sweep mug" to the hard work of KP2N—the only Virgin Islands station that submitted a log. Only 72 clean sweeps remained after log checking.

Seventy-five percent of the logs received came in electronic format—a record high. Many thanks go to these participants. Their efforts made the work of the log checkers easier. This also allowed the contest team the time to more accurately deal with the hand-written paper logs. These entries are essential to our contests and hand-written logs will always be accepted. Remember: if you use a computer to log, send in your log file as required by the rules.

The Single Op-QRP category led the way in 1999 with the tightest finish. A total of 191 QRP entries were received—up about 10% from last year. Our 1998 win-

ner Scott, W4PA, held off a stiff challenge from Ed, K1TR, to hold on to his title. Ed logged 24 more QSOs but Scott worked the clean sweep to win. Scott's score of 125,768 also is a Delta division record for the QRP category. Third place finisher, Ward, NØAX, also recorded a new record for the category in the Northwestern division.

Many people claim you can't win Sweepstakes with only a triband antenna and you can't win from New England. Dave, NT1N, stood up to both challenges and won the Single Op-Low Power category from his new home in Connecticut, setting a New England division mark of 178,620 points in the process. Dave edged out Randy, KØEU, by 19 QSOs after the log checking was finished. Also in the category, K9TM tied the existing Great Lakes division record.

The Caribbean wasn't completely silent during the contest as Rich, KE3Q, operating WP3R, continued his string of outstanding contest finishes winning the Single Op-High Power category with 222,780 points. Rich's strongest challenge was from Tree, N6TR, operating at W5WMU, who finished 49 QSOs behind. No division records were set during this year's contest in this category.

All of the division leaders in the new Single-Operator Unlimited category established records for this new entry class in 1999. Chas, K3WW, holds the distinction of being the first overall record-holder with his score of 166,216 followed closely by Larry, AAØBY, operating at WØGJ, and Bob, W4MYA. Look for hot competition as this new category grows in the upcoming years.

The operators at K2TW led the charge in the multi-operator category, setting the only new division record (Hudson) of 187,704 points. The crew at N6VR held on for second place against the challenges from W3PP and K4OJ.

Finally, there was good competition in the new School Radio Club Collegiate category. The University of Arkansas and North Carolina State University battled it out for the Mark Smith, KD4JLC, Memo-

Top Ten

Single Operator, QRP

W4PA	125,768
K1TR	124,740
NØAX	116,220
W2CS	105,924
NØUR	104,104
N6MU	99,560
(at N6NB)	
W6JTI	97,636
N7OU	94,800
K9AY	93,756
W8RU	91,504

Single Operator, Low Power

NT1N	178,620
KØEU	175,656
K4WX	173,010
WQ5L	168,902
KY7M	168,270
VA3UZ	165,110
K9TM	162,740
K5WA	162,640
W4OC	161,460
NØAT	160,468
(NØKK, op)	

School Club Competition (top two)

W5YM	149,688
W4ATC	102,256

Single Operator, High Power

WP3R	222,780
(KE3Q, op)	
W5WMU	215,038
(N6TR, op)	

N2IC	212,668
W4AN	209,976
(K4BAI, op)	
WXØB	206,348
(K5GA, op)	
K6LL	205,400
WØSD	204,666
(WDØT, op)	
N5KO	204,204
N5RZ	203,736
K4VX	201,450
(AG9A, op)	

Single Operator, Unlimited

K3WW	166,216
WØGJ	163,488
(AAØBY, op)	
W4MYA	160,370
WØCG	144,924
AA8U	142,200
K6ZM	140,600
(WA6O, op)	
K6ANP	127,680
K6ZH	122,928
K6RIM	117,040
K5HP	116,280

Multioperator

K2TW	187,704
N6VR	177,060
W3PP	175,222
K4OJ	175,032
W3GH	172,378
K6NO	168,902
KØWA	167,388
K7IR	166,012
N5YA	165,426
KO7X	165,048

Top Five

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

Northeast Region			Southeast Region			Central Region			Midwest Region			West Coast Region		
(New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			(Delta, Roanoke and Southeastern Divisions)			(Central and Great Lakes Divisions; Ontario Section)			(Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)			(Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT/Yukon Sections)		
K1TR	124,740	Q	W4PA	125,768	Q	W8RU	91,504	Q	NØUR	104,104	Q	NØAX	116,220	Q
N1RL	84,700	Q	W2CS	105,924	Q	N9NE	85,932	Q	KG5U	89,700	Q	N6MU (at N6NB)	99,560	Q
W1EAT	84,208	Q	K9AY	93,756	Q	K9OM	85,800	Q	NØSS	86,140	Q	W6JTI	97,636	Q
K1NU (at K1OA)	83,622	Q	NA4CW	75,922	Q	WA8RJF	84,300	Q	KEØZ	83,354	Q	N7OU	94,800	Q
K3WWP	78,292	Q	N4IR	73,320	Q	N8BC (K8BL, op)	76,284	Q	AF5Z	83,160	Q	N7IR	90,440	Q
NT1N	178,620	A	K4WX	173,010	A	VA3UZ	165,110	A	KØEU	175,656	A	KY7M	168,270	A
K1VUT	145,684	A	WQ5L	168,902	A	K9TM	162,740	A	K5WA	162,640	A	K7BG	152,760	A
W2TZ	144,924	A	W4OC	161,460	A	W8MJ	154,440	A	NØAT	160,468	A	VE7CC	149,760	A
KM1X	140,756	A	NA4K	156,312	A	N9CK	143,464	A	(NØKK, op)			K7QQ	143,528	A
NY3A	137,368	A	W4ZW	150,890	A	K9IG	133,194	A	KØDI (at KØGND)	158,158	A	W7ZRC	141,180	A
									NØNR	156,000	A			
K5ZD	198,290	B	WP3R	222,780	B	N4GN	165,204	B	N2IC	212,668	B	K6LL	205,400	B
K1ZZ	192,760	B	(KE3Q, op)			K9DX	160,468	B	WXØB	206,348	B	K5RC	197,340	B
K3CR	172,068	B	W5WMU (N6TR, op)	215,038	B	K4AO	158,384	B	(K5GA, op)			K6LA	193,866	B
(KB3AFT, op)			W4AN	209,976	B	KE9I	157,092	B	WØSD	204,666	B	W6EEN	192,128	B
K3ZO	168,784	B	(K4BAI, op)			W19WI	154,462	B	(WØØT, op)			(N6RT, op)		
N2CU	164,010	B	N4BP	189,072	B				N5KO	204,204	B	W6AX	190,232	B
			N4AO	178,224	B				N5RZ	203,736	B	(N6IG, op at W6GO)		
			(WC4E, op)											
K3WW	166,216	U	W4MYA	160,370	U	WØCG	144,924	U	WØGJ	163,488	U	K6ZM	140,600	U
K3DI	109,178	U	NT4D	81,158	U	AA8U	142,200	U	(AAØBY, op)			(WA6O, op)		
K5KG	101,868	U	WA4QDM	51,898	U	K9NR	103,428	U	K5HP	116,280	U	K6ANP	127,680	U
W2HCA	101,868	U	K4PB	44,496	U	AA9RR	34,128	U	W5ER	104,676	U	K6ZH	122,928	U
K2QMF	94,168	U	N5UE	20,088	U	K9OSH	23,546	U	WAØSXV	103,174	U	K6RIM	117,040	U
									N5ZC	95,480	U	N6RO	104,874	U
K2TW	187,704	M	K4OJ	175,032	M	K8CC	164,636	M	KØWA	167,388	M	N6VR	177,060	M
W3PP	175,222	M	W4RM	145,548	M	W8AV	159,738	M	N5YA	165,426	M	K6NO	168,902	M
W3GH	172,378	M	NR4M	111,034	M	KU8E	155,220	M	KØ7X	165,048	M	K7IR	166,012	M
K2UG	124,020	M	W4ZYT	87,780	M	K9ZO	137,280	M	KØOU	163,332	M	N6KI	158,948	M
WR3L	121,976	M	W4AQL	67,452	M	W8EDU	135,722	M	NA5B	161,854	M	W6YX	158,948	M

rial Plaque, which will be awarded annually to the top scoring school that enters in the School Club category. This special plaque has been sponsored in memory of Mark Smith, KD4JLC, by his dad to promote activity among college and university student Amateur Radio clubs. Congratulations to the W5YM crew at the University of Arkansas for winning the inaugural competition in this category.

The 2000 ARRL November CW Sweepstakes will be held November 4-6, 2000. Participants are reminded, as they begin to make their preparations, that *all* electronic logs must use the Cabrillo file format starting November 1, 2000. Hand-written paper logs are eligible, but any computer-generated log users (i.e. a log that was created using one of the commercial logging programs, or user-produced output from a word processor, database or spread sheet program) are required to submit an electronic file with their entry. Remember to review the "General Rules for all ARRL Contests" (they are printed annually in the November issues of *QST*) as well as the rules for each specific contest (printed in *QST* the month before the event). Log Checking reports for all electronic logs may be requested by sending an e-mail to n6tr@arrl.org. Include in the subject your callsign and "1999 SS CW" report request.

"As we stare, results perusing, all our skills we have been using,

Waiting for the sounds arising, from east to west upon our shore.

Come November, hear the musing, 'CQ contest'—Work it slow or work it fast,

'Til it comes, at long last, the magic melody we adore,

Praise the Sweepstakes, evermore!"

Soap Box

Best moment was working VY1JA on 15m on the third call. Timing is *everything* (AA4LR)... I had fun giving the school's solar-powered station a little bit of a workout. My key was walking all over the desk; I'll have to get some sandpaper or an old mouse-pad to get it under control (AA8UP)... How about half a coffee cup for getting close to a clean sweep? (AE7EE)... It was tough go for this QRP station, a minnow swimming in a sea of sharks. Working KH7R on 40 with 5 W was big highlight. (AE9K)... Missed the clean sweep by 3. SS is the premier contest of the year! (AJ4F)... First SS since 1964. My old call was K1SOP. Short call was worth +6dB (K1GU)... My hat is off to KH7R and VY1JA for hearing my QRP signal into a wire tossed over the roof of my townhouse (K3AN)... Ten meters being open is a mixed blessing from the Midwest. Missed KP2 and VE1 (K4FXN)... The best effort QSO-wise I've ever made, but very disappointed to miss four multipliers. I would like to thank all the people who came in Sunday night to make a few QSOs. Kept me busy between checking stations I'd already worked (K4IE)... Murphy rode in on a broom. Consequently, no clean sweep (K4IX)... Had to laugh when a QRP station took my run

frequency away from me (K5VG)... It was worth the time I spent putting up a lower quad. I found a whole new group of QSOs, but missed three sections (K5WA)... I am sure glad 10 meters was open, as I had a fun time operating on a band I normally do not touch. It was search and pounce all the way (KB9IUA)... My first Sweepstakes on CW as a General Class. Sure made a difference! (KC8HYI)... I haven't entered a CW Sweepstakes in over 13 years. Even though I didn't have much operating time, it was still a lot of fun! (N3BAO)... What a blast! Conditions were outstanding on 15 meters again and I love the new K2 transceiver (N3OIE)... Had S9 line noise on 20 meters Friday before the contest. We were very lucky and got the power company to respond within hours and it was fixed (W5WMU)... Sweepstakes is an excellent way to increase your code speed. I really need to retire my straight key (N8VEN)... My favorite contest, especially since the CW speed isn't too high like DX contests (NJ2DX)... Great contest as usual. Everyone should try QRP just once (VE7CA)... Heard KP2N but couldn't break the huge pileup (VE7CYT)... Aurora again this year, only 10 Qs below 20 meters. Hope I helped you get your sweep. (VY1JA)... The last time I operated SS, month and day of birth were part of the exchange. Am I getting old, or what? Still had fun (W1CSM)... Great Sweepstakes. Much more mannerly than usual (W4DEC)... K7EW came over so that I could help him with his computer. Thirty hours later, we still hadn't worked on his computer. Sweepstakes is addicting (W7NX)... First clean sweep in 45 years as a ham (W7QF)... First CW contest in 36 years of hamming. Can't wait till next year's SS (WA3DUR)... My best CW score ever, and a close race with my friend Rod W7ZRC. I'll have to hope I did my logging carefully on this one (WO7Y)... Darn that elusive VI (WR4I).

Plaque Winners

Listed are all of the plaque category winners. Only plaques that 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 Headquarters at 860-594-0232. Winners denoted with an asterisk (*) are second place division finishers and have been awarded the division plaque because the division winner has won their overall category in the contest.

Category	Winner	Sponsor	Category	Winner	Sponsor
Overall Single Op High Power CW	WP3R	N5KO and W0UA (KE3Q, op)	New England Low Power CW	K1VUT*	
Overall Single Low Power CW	NT1N		New England division QRP CW	K1TR	
Overall Single Op QRP CW	W4PA	MI QRP Club	New England division Single CW	K1TWF	
Overall Single Op Unlimited CW	K3WW	ARRL Contest Branch	Operator Unlimited		
Overall Multi-Op CW	K2TW		New England division Multi-Op CW	W1NRG	
Overall School Club College Division CW	W5YM	Mark Smith KD4JLC Memorial	Northwestern division High Power CW	KL7Y	
Atlantic division High Power CW	K3CR	North Coast Contesters (KB3AFT, op)	Northwestern division Low Power CW	(WA2GO, op)	
Atlantic division Low Power CW	W2TZ		Northwestern division QRP CW	K7BG	
Atlantic division QRP CW	K3WWP	Gary Hembree, N7IR	Northwestern division Single CW	N0AX	
Atlantic division Single Op Unlimited CW	K3DI*		Operator Unlimited		
Atlantic division Multi-Op CW	W3PP	North Coast Contesters	Northwestern division Multi-Op CW	K7IR	
Central division High Power CW	K9DX	In Memory of Richard Harper, W9RE	Pacific division High Power CW	K5RC	
Central division Low Power CW	N9CK	In Memory of Mike Corke, N9AEJ	Pacific division Low Power CW	K7NV	Robert A. Wilson, N6TV
Central division QRP CW	N9NE	W9QOX Memorial	Pacific division QRP CW	N6MU (at N6NB)	
Central division Single Op Unlimited CW	K9NR		Pacific division Single Operator Unlimited CW	K6ZM	(WA6O, op)
Central division Multi-Op CW	K9ZO	Don Haney, W9WWW	Pacific division Multi-Op CW	K6NO	
Dakota division High Power CW	W0SD	Minnesota Wireless Association (WD0T, op)	Roanoke division High Power CW	W4MR	
Dakota division Low Power CW	N0AT	Minnesota Wireless Association (N0KK, op)	Roanoke division Low Power CW	(AA4NC, op)	
Dakota division QRP CW	N0UR	Tod Olson, K0TO	Roanoke division QRP CW	W4OC	
Dakota division Single Unlimited CW	W0GJ	Minnesota Wireless Association (AA0BY, op)	Roanoke division Single Operator Unlimited CW	W4MYA	
Dakota division Multi-Op CW	KT0R	Minnesota Wireless Association	Roanoke division Multi-Op CW	W4RM	Tidewater Morse Code Society
Delta division High Power CW	W5WMU,	(N6TR, op)	Rocky Mountain division High Power CW	N2IC	
Delta division Low Power CW	K4WX		Rocky Mountain division Low Power CW	K0EU	
Delta division QRP CW	N4IR*		Rocky Mountain division Low Power CW	K6EL	
Delta division Single Unlimited CW	N5UE		Rocky Mountain division Single Operator Unlimited CW	W0SXV	
Delta division Multi-Op CW	K15EE		Rocky Mountain division Multi-Op CW	K0TX	
Great Lakes division High Power CW	N4GN	North Coast Contesters	Southeastern division High Power CW	W4AN	
Great Lakes division Low Power CW	K9TM		Southeastern division Low Power CW	(K4BAI, op)*	
Great Lakes division QRP CW	W8RU		Southeastern division QRP CW	W4ZW	Southeastern division QRP CW
Great Lakes Single Operator Unlimited CW	W0CG		Southeastern division Single Operator Unlimited CW	K9AY	Bill Harding, K4AHK
Great Lakes division Multi-Op CW	K8CC	David Smith, ND4Y	Southeastern division Multi-Op CW	K4OJ	
Hudson division High Power CW	N2NC		Southwestern division High Power CW	K6LL	
Hudson division Low Power CW	W2LK	John Golomb & Andy Blank, N2NC & N2NT	Southwestern division Low Power CW	KY7M	Larry Serra, N6NC
Hudson division QRP CW	K2DW		Southwestern division QRP CW	N7IR	Ray and Donna Day, N6HE & N6HTH
Hudson division Single Op Unlimited CW	K5KG		Southwestern division Single Operator Unlimited CW	K6ZH	
Hudson division Multi-Op CW	K2UG*	Stuart Silverstein, K3UEI, Memorial	Southwestern division Multi-Op CW	N6VR	
Midwest division High Power CW	K4VX	(AG9A, op)	West Gulf division High Power CW	WX0B	
Midwest division Low Power CW	K0DI	Johnson County Contest Club (at K0GND)	West Gulf division Low Power CW	(K5GA, op)	
Midwest division QRP CW	N0SS		West Gulf division QRP CW	K5WA	
Midwest division Single Operator Unlimited CW	K0CA		West Gulf division Single Operator Unlimited CW	K5HP	
Midwest division Multi-Op CW	K0WA		West Gulf division Multi-Op CW	N5YA	
New England division High Power CW	K5ZD		Canada High Power CW	VE6JA	
			Canada Low Power CW	(W8UE, op)	
			Canada QRP CW	VA3UZ	Don Haney, W9WWW
			Canada Multi-op CW	VE7YU	
				VE6AO	

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 = Multi-operator, S = School Club).

CW	K1NTR	54,020	370	73	12	A	WB6BIG	13,952	109	64	22	A	K2YR	22,784	178	64	5	A	AB2DE (N2KPB, KC2AVE, KB2IZB, ops)					
1	K1TH	51,264	356	72	11	A	WC1M	152,628	966	79	24	B	WB2SPN	13,700	137	50	5	A	82,950	525	79	22	M	
Connecticut	K1GU	40,936	301	68	24	A	NM1W	37,814	259	73	24	U	KW2D	10,304	112	46	4	A						
W1QK	48,020	343	70	12	Q	KD1LZ	10,044	81	62	24	U	W2NRD	9,828	78	63	8	A	Northern New York						
W1VT	13,000	130	50	3	Q							W2DK	7,592	73	52	16	A	WZ2T	63,360	440	72	24	Q	
NT1N	178,620	1145	78	24	A	Rhode Island						K2RI	4,588	62	37	3	A	K2NNY (K2DB, W2LB, ops)	104,258	677	77	22	M	
W1EO	121,056	776	78	23	A	K1VSJ	35,224	259	68	7	A	N2SQW	39,220	265	74	20	B							
NX1Q	41,328	287	72	8	A	KM1X	140,756	914	77	24	A	K2SX	56,248	356	79	10	U	NYC-Long Island						
K1JN	37,488	264	71	16	A	K1VSA	35,224	259	68	7	A	K2UG (WA2JQK, W2XL, KY2J, ops)	124,020	795	78	24	M	N2TO	12,402	117	53	8	Q	
W1AW (N1ND, op)	28,600	220	65	12	A	AB1BX	23,142	203	57	18	A	K2POF (W2WC, KZ5P, ops)	15,392	148	52	24	M	W2LK	125,452	794	79	24	A	
K1RO	24,056	194	62	3	A	K2MN	21,420	170	63	11	A	N2POS (+N2PEN, WB2FOB, KC2DZB)	12,600	126	50	9	M	N2GA	52,256	368	71	9	A	
WB8IMY	14,448	129	56	5	A	N1SW	135,406	857	79	24	B							W2HLJ	47,424	304	78	17	A	
K1LEE	12,688	122	52	12	A	K1IG	65,254	413	79	12	U	Vermont						WA2VZQ	38,304	266	72	11	A	
K1STM	2,160	40	27	1	A							N1RL	84,700	550	77	21	Q	KG2BI	37,940	271	70	11	A	
K1KI	1,184	37	16	2	A	W1KBN/P (NK1L, N1RFA, ops)	1,880	47	20	3	S	N1RH	84,208	554	76	24	A	KA2D	36,432	264	69	14	A	
K41VMG	608	19	10	1	A							W1EAT	134,774	853	79	24	A	W2KTF	35,140	251	70	8	A	
K1ZZ	192,760	1220	79	24	B	Maine						W1ECH	97,528	688	73	22	A	W2MAV	28,024	226	62	10	A	
W1WEF	159,738	1011	79	21	B	KX1E	75,260	530	71	22	A	N0ICJ	97,528	688	73	22	A	K2QMF	94,168	596	79	15	U	
K1WB	56,392	371	76	10	B	NX1T	72,124	494	73	24	A	AA1SU	88,608	624	71	23	A	W02N	22,176	154	72	24	U	
N4XR	25,160	185	68	6	B	NY1S	67,488	444	76	24	A	W1SA	56,440	415	68	7	A	W21W (+N2OX, N2ZN, K2FD)	14,950	115	65	24	M	
N1XS (at KB1H)	26,656	196	68	8	U	AA1SF	37,298	252	74	24	A	KK1L	220	11	10	2	A							
W1NRG (W1KFF, WY1U, W1FD, WA1TRY, N1RMA, N1YGL, K1EC, N1JEO, N1TXN ops)	53,130	345	77	20	M	N1WJ	25,212	191	66	24	A	Western Massachusetts						Northern New Jersey						
WS1F (+WA1PMA)	46,332	297	78	20	M	K1YCS	15,688	148	53	11	A	W1CSM	37,100	265	70	9	Q	N2JT	66,066	429	77	18	Q	
						N1MHB	10,780	110	49	13	A	K2M1	82,634	523	79	13	A	KF2HC	59,128	389	76	20	Q	
						W1LIC	9,800	100	49	4	A	W1TO	45,504	316	72	10	A	N2ZW	42,976	316	68	22	Q	
						K1KF	9,568	104	46	24	A	K5ZD	198,290	1255	79	24	B	N2ZO	27,202	203	67	14	Q	
						W1AO	87,300	582	75	11	B								NA2AA	61,138	397	77	15	A
						K1POS	83,776	544	77	24	B	2							N2LK	24,056	194	62	11	A
																			N2LH	24,056	194	62	11	A
																			W2HZC	23,400	180	65	14	A
																			W2T1	22,932	234	49	21	A
																			W2LRO	20,178	171	59	8	A
																			W2DEN	17,328	152	57	24	A
																			KG2MV	9,936	108	46	8	A
																			W3CRB	9,898	101	49	9	A
																			W2ASQ	8,000	100	40	10	A
																			W2UDT	5,920	74	40	3	A
																			KC2EEQ	988	26	19	7	A
																			N2NC	62,496	434	72	9	B
																			W2GD	12,240	120	51	2	B
																			W2HCA	101,868	653	78	14	U
																			N2ED	91,200	608	75	15	U
																			N2BIM	84,372	534	79	17	U
																			N2KJM	58,828	382	77	17	U
																			W2NO	30,488	206	74	15	U
																			K2TW (+W2GD)	187,704	1188	79	24	M

