

This Ain't Baseball. It's the 1998 CW Sweepstakes.

Yogi Berra, the great Yankee's catcher, is generally credited with coming up with the expression "It ain't over till it's over!" Berra was a baseball player, not a contester. In contesting it ain't over when it's over: it ain't over 'til the log checker sings.

And the log checkers did quite a bit of singing and dinging this year, digital dinging. Tree, N6TR and Trey, N5KO, totally revamped the ARRL contest computer log checking system so that electronic log submissions could be entered into a database, acknowledged automatically (hopefully eliminating lost logs) and then subjected to an extremely vigorous cross checking. The list of "Logs Received" available on the web also helped ensure arrival of logs. It's safe to say this year's contest is the most thoroughly checked in Sweepstakes history.

After the last out in baseball, you know the final score. After the last QSO in Sweepstakes, you didn't. The preliminary results are quickly available. Tired, but anxious to find out how the competition did, many players sit around the virtual locker room on 3830, knock back a non-virtual ice cold 807, and partake of the post mortem and other lore of the previous 30 hours of action before heading to the showers.

There is even a strategy to reporting in after the short walk from the dugout of CW to the SSB locker room on 3830! Right after the national anthem, a short cacophony of "hooooooooo yaaaahhhhhhhhhhh's" and "hellllllloooooo raaaaadioooooo's" of unknown origin, someone starts taking the list and repeating the score just reported for the strained ear of the distant crowd. Some big guns like to lead off, some top 10 regulars like to report clean up, and some pinch hitters wait till there are two outs in the bottom of the ninth. By 0330 all the all-stars have reported, signed off, and headed for the showers, pretty well knowing where in the standings they finished.

If you've never listened to 3830 kHz right after the finish of Sweepstakes, you've missed out on some of the fun and part of the camaraderie of contesting. Hear the veterans' and rookies' claimed scores, along with myriad comments about sweeps, band conditions, multipliers found or lost, visits from Murphy, etc. Its also an oppor-

Revision

This article is a revision of the original 1998 ARRL November Sweepstakes CW article which appeared in the June 1999 issue of *QST*. Due to the use of different ASCII characters for the number zero, call signs which contained the number zero were not updated when merging the database created by the independent log checkers into the main ARRL database. The scores contained in this revised article are correct. The error was discovered before the publication of the 1998 Phone Sweepstakes article in the July *QST*. Our apologies to those this data management error affected.

tunity to go up a few kHz with the locals. In the last few years a post contest post to the virtual 3830 (3830@contesting.com) has become as common as a QSL. On the virtual 3830 the preliminary results are compiled and the final Top Ten and Regional boxes are apparent after only a few days.

The 3830 CW SS buzz from the virtual locker room after this running of the fall classic was that the game had a terrific beginning on Saturday followed by a dismal

ending Sunday. After a high scoring first two innings in which many found they were off to their best starts ever in CW Sweepstakes, the same many found a solar flare shut them out and dropped them behind last year's rate sheet by the end of the fourth. It was like going from an Ernie Banks "Let's play two" kind of day to a long rain delay. One comment was "40 meters sounded like a haunted house at night." To paraphrase a W4, "W8's fluttered like Russians over the Pole." While 10 meters came back with a vengeance from prior years at the start, the solar flare caused 10 meters to be ejected and put 15 meters on the disabled list. The dugouts all emptied on 20 meters, and it made for quite a brouhaha. The brawl was best summed up by N6IG at W6GO who, perhaps wishing there had been someone to call in from the bullpen, lamented, "I don't want to talk about it!!!"

For 1998, when the log checkers finally sang, the #2 claimed score, due to its low .9 ERA (error rate average) wound up in the #1 spot in the prestigious High Power CW Sweepstakes category. It was the Grapefruit League's Ted Williams (Dan, K1TO) passing Caribbean League Babe Ruth (Rich, KE3Q at WP3R) The Babe hit more homers (claimed QSOs,) but Ted struck out less and had a better right on base average (fewer lost QSOs.) K1TO's total also set a Mark McGuire type all time high score in this category. Rich did hang on to the #2 spot by one QSO over Tree, N6TR, visiting at W5WMU. The final statistics show K1TO lost only 14 QSOs with no call sign errors for a B power league leading 0.9% ERA.

John, N6MU, won the Golden Glove for ERA accuracy among all top ten finishers. Out of 748 QSOs, John erred only three exchanges for a great error rate of 0.4%. The overall ERA leader was Ralph, VE7XF who had one error in 353 at bats for a 0.3% rate. Greg, K7KJ was a close second with one error in 298 chances. Both play in the A Power League along with Dave, KØRX, who was the A Power league ERA accuracy top ten champ with a 1.3% error rate. Bob, N4BP, lead the B Power League top ten with a nifty zero exchange miscues and merely 5 busted calls in 1360 total QSOs.

The Midwest Region was the place to be for a top ten Big Power League finish. Dave, K5GN at W5KU, took the #4 spot

Top Ten CW

Single Operator, QRP	
W4PA	125,736
KG5U	120,588
K1TR	117,936
N6MU	116,220
(at N6NB)	
NØAX	109,802
N9CIQ	107,124
K3CR	106,080
(KB3AFT op)	
W1MJ	101,556
(at K1TTT)	
AC5K	97,636
W8RU	95,004

Single Operator, Low Power	
N5TJ	208,244
KØEU	190,390
K4WX	180,804
K6LA	170,352
K7UP	169,884
KY7M	164,162
K9IG	159,580
NØNR	158,474
NA4K	157,248
K9TM	157,248

Single Operator, High Power	
K1TO	240,792
WP3R	232,260
(KE3Q,op)	
W5WMU	232,102
(N6TR,op)	
K5GN	222,938
(at W5KU)	
N2IC	221,674
N5KO	216,618
NØNI	216,302
(AG9A,op)	
W4AN	214,722
(K4BA1,op)	
N2NT	213,616
(N2NC,op)	
WXØB	212,194
(K5GA,op)	

Multioperator	
K4OJ	202,398
KØRF	201,552
K2TW	179,014
W2PV	177,750
KØ7X	177,528
K4LT	171,904
W3GH	169,218
W4MYA	166,690
KØVB	166,532
W2RE	163,688

ARRL November Sweepstakes Plaque Winners

Listed below are all of the plaque category winners. Only plaques with sponsors will be awarded. If you have won a plaque category without a sponsor, you may purchase your own plaque. The cost is \$60 per plaque. If you, your club, or business is interested in sponsoring any of the unsponsored plaques call Dan Henderson, N1ND, at ARRL HQ.

Category	Winner	Donor	Category	Winner	Donor
Overall			Northwestern Division		
QRP CW	W4PA	MI QRP Club	QRP CW	N0AX	Paladin Contest Club
Low Power CW	N5TJ	In Memory of Charles Oakes, W6UQF	Low Power CW	K7BG	
High Power CW	K1TO	N5KO and W0UA	High Power CW	KL7Y (WA2GO, op)	
Multioperator CW	K4OJ		Multioperator CW	K7FD	
Atlantic Division			Pacific Division		
QRP CW	K3CR (KB3AFT op)	Gary Hembree, N7IR	QRP CW	N6MU (at N6NB)	Dennis Motschenbacher, K7BV
Low Power CW	W2TZ	Potomac Valley Radio Club	Low Power CW	WX6V	Robert A. Wilson, N6TV
High Power CW	K3LR (K3UA,op)	North Coast Contesters	High Power CW	W6GO (N6IG,op)	Richard Hallman, N7TR
Multioperator CW	W3GH	North Coast Contesters	Multioperator CW	N6ZS	
Central Division			Roanoke Division		
QRP CW	N9CIQ	W9QOX Memorial	QRP CW	N4ROA	Raleigh Amateur Radio Society
Low Power CW	K9IG	In Memory of Mike Corke, N9AEJ	Low Power CW	N8II	Raleigh Amateur Radio Society
High Power CW	N9RV	In Memory of Richard Harper, W9RW	High Power CW	N4AF	Potomac Valley Radio Club
Multioperator CW	K9MMS	Don Haney, W9WW	Multioperator CW	W4MYA	Tidewater Morse Code Society
Dakota Division			Rocky Mountain Division		
QRP CW	N0UR	Tod Olson, K0TO	QRP CW	K0FRP	Ron Stark, KU7Y
Low Power CW	N0AT (N0KK,op)	Minnesota Wireless Assn, W0AA	Low Power CW	K0EU	Ron Stark, KU7Y
High Power CW	W0SD (WD0T,op)	Minnesota Wireless Assn, W0AA	High Power CW	N2IC	Southern New Mexico DX Assn-WW5DX
Multioperator CW	KT0R	Minnesota Wireless Assn, W0AA	Multioperator CW	K0RF	
Delta Division			Southeastern Division		
QRP CW	W4PA	Pat Sonnier, W5WMU	QRP CW	W4DEC	Bill Harding, K4AHK
Low Power CW	K4WX	Pat Sonnier, W5WMU	Low Power CW	NP3A	
High Power CW	W5WMU (N6TR,op)	Pat Sonnier, W5WMU	High Power CW	K1TO	
Multioperator CW	K5MDX	Twin City Ham Club	Multioperator CW	K4OJ	
Great Lakes Division			Southwestern Division		
QRP CW	W8RU	Bill Maxson, N4AR	QRP CW	N7IR	Ray Day, N6HE and Donna Day, N6HTH
Low Power CW	K9TM	Mad River Radio Club	Low Power CW	K6LA	Larry Serra, N6NC
High Power CW	K1AO	North Coast Contesters	High Power CW	K6LL	
Multioperator CW	K4LT	David Smith, ND4Y	Multioperator CW	N6KI	Warren Hill, K7WX
Hudson Division			West Gulf Division		
QRP CW	K2WK	NJ-QRP Club	QRP CW	KG5U	AZ ScQRPIons
Low Power CW	K2UF	John Golomb, N2NC and Andy Blank, N2NT	Low Power CW	N5TJ	D. Craig Boyer, AH9B
High Power CW	N2NT (N2NC,op)	Edgar Gilbert, K2SQ	High Power CW	K5GN (at W5KU)	Leo E. Oyler, Jr, W0GOW—W5RO
Multioperator CW	K2TW	Stuart Silverstein, K3UEI, Memorial	Memorial		
Midwest Division			Multioperator CW	NA5B	Young Gunners DX Foundation
QRP CW	N0OCT	Brian Keegan, KF2HC	Canada		
Low Power CW	K0RX	Johnson County Contest Club, N0JX	QRP CW	VE3SMA	Chuck Adams, K5FO
High Power CW	N0NI (AG9A,op)		Low Power CW	VE7CC	Don Haney, W9WW
Multioperator CW	K0VBU		High Power CW	VY1A (KN5H op)	
New England Division			Multioperator CW	VE9HF	
QRP CW	K1TR	Maryland Milliwatt Club			
Low Power CW	KM1X	Brian Szewczyk, NJ1F			
High Power CW	K5ZD				
Multioperator CW	K1IG				

and top regional honors, followed by Steve, N2IC #5, Trey, N5KO in an unusual home game #6, Mark, AG9A visiting at N0NI #7 and Bill, K5GA away at WX0B, #10. Rounding out the top ten were John, K4BAI at W4AN #8 and John, N2NC playing at N2NT, #9 overall and tops in the Northeast Region. In the Cactus League, once again, Dave, K6LL, came out ahead of the rest of the West Coast Region.

The most amazing overall performance in the contest was by Jeff, N5TJ, who not only finished first in the low A Power category, but missed the high power top ten by only 26 QSOs. Jeff is simply in a league of his own. The Midwest Region was the place to be to make the low power top ten with #2 Randy, K0EU, #5 John, K7UP, and #6 KY7M all making the grade from that region.

Ed, K4WX wound up #3 overall in low power and #1 in the Southeast Region. The top slugger in the West Coast Region was

#4 finisher Ken, K6LA. In the #5 spot was John, K7UP followed by Lee, KY7M at #6. Greg, K9IG was #7 overall while taking top honors in the Central Region closely followed there by NA4K and K9TM who tied for 9th place. N0NR pulled off a #8 finish. Carl, W2TZ, was #1 in the Northeast Region.

It is interesting to note that while seven of the top ten high power players were designated hitters at visiting team stadiums (guests ops) all of the low power top ten had the home field advantage.

In the Little Watt League Scott, W4PA made his own runs, bunting and stealing every fraction of a dB on his way to the #1 QRP spot. Dale, KG5U, finished #2 and tops in the Midwest Region. Ed, K1TR was #3 and the pennant winner in the Northeast Region. John, N6MU at N6NB was #4 overall and took top West Coast Region honors. Ward, N0AX finished #5. #6, Jay, N9CIQ, finished first in the Central Region. Jim, KB3AFT at K3CR was #7, followed

by Eliot, W1MJ at K1TTT. John, AC5K and W8RU rounded out the QRP top ten. A special note: 176 QRP entries were received this year. Maybe we are seeing a come back of the old bunt and run contesting to compliment the gorilla sluggers in the High Power League.

K4OJ was the MVP of the Multi-Op League finishing in 1st place. In this tough category #2 K0RF finished a close second. and #5 K07X provided tough competition. K2TW finished #3 overall and first in the Northeast Region, immediately followed by W2PV in 4th place.. K4LT was #6 overall, taking top honors in the Central Region. W3GH finished in 7th place. Rounding out the top 10 in the MVP race in this league were W4MYA, K0VBU and W2RE. N6ZS was first from the Pacific Coast (West Coast. Region) league.

From the fans whose favorite just missed making the Top Ten or Regional boxes, a sigh and a cry of "wait till next year!!!"

K3PP (+NET)	2,970	45	33	5	M	North Carolina	W4WS (N4VHK,op)	20,130	165	61	9	Q	Virgin Islands	WP2Z (W7GG,op)	140,448	912	77	22	A	W5SJ	9,800	100	49	3	A	W6BH (K7JA,op)	152,470	965	79	18	B				
Maryland-DC						N2WG	19,642	161	61	16	Q	AE4EC	11,832	16	13	2	Q	KP2N	23,316	174	67	10	A	K5MR	212,194	1343	79	24	B	N6HC	147,064	916	77	24	B
WD3P	78,694	539	73	19	Q	N4EUK	11,832	16	13	2	Q	N4ROA	84,804	573	74	23	Q	N5NJ	200,976	1272	79	24	B	K5OT	174,748	1106	79	23	B	W62F	113,344	736	77	23	B
AF3T	35,772	271	66	15	Q	WJ9B	121,814	791	77	24	A	N4PRO	48,510	315	77	14	Q	N5WJ	164,952	1044	79	24	B	W5FO	139,672	884	79	17	B	Pacific					
N3WK	20,740	170	61	15	Q	K7GM	114,866	727	79	24	A	W4GRO	35,640	270	66	17	Q	N5MYA	103,360	680	76	17	B	W5WA	103,360	680	76	17	B	KH6W/BF6Z	192	72	43	24	Q
WA3GYY	2,464	44	28	5	Q	K4QPL	114,304	752	76	24	A	W4BJJ	10,560	110	48	8	Q	N5KBP	1,728	24	36	11	M	W5BU (+NET)	6,888	82	42	20	C	KH7L	1,566	27	29	24	Q
K1HTV	137,144	868	79	24	A	K4MMA	110,126	697	79	24	A	K1FR	1,116	31	18	1	Q	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	KH6ND (at KH7R)	166,608	1068	78	24	B
W3MC	125,610	795	79	24	A	NW6S	85,952	544	79	15	A	K4CATU	394	16	12	Q	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	KH6W1WE	129,976	844	77	16	B	
N3NT	111,072	712	78	24	A	W4IDX	82,236	534	77	23	A	W4VVC	132,878	841	79	22	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	NH7A (KH6TO,op)	120,582	783	77	24	B
WR3Z	94,710	615	77	19	A	K4PB	44,844	303	74	15	A	W4WYF	128,544	824	78	24	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	Sacramento Valley					
KM3V	85,316	554	77	13	A	W4J4E	31,480	235	67	11	A	W4WDF	94,800	600	79	22	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	KE6QXJ	10,904	116	47	14	Q
W3UJ	75,972	487	78	24	A	KZ2I	26,400	176	75	15	A	W4UW	85,932	558	77	11	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W03B	4,758	61	39	8	Q
W3UT	53,200	350	76	16	A	W4I4G	8,480	106	40	5	A	K4IQ	80,700	538	75	16	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W6BG	110	5	11	10	Q
NY3M	50,700	325	78	16	A	N4G	6,528	96	34	7	A	K4KJ	50,076	321	78	16	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W6BV	135,366	879	77	24	A
W3CB	48,300	322	75	23	A	N4AF	190,706	1207	79	24	B	N4GU	38,216	281	68	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	AB1U/6	47,804	323	74	24	A
N8ECG	47,856	322	74	19	A	W4MR	184,548	1183	78	24	B	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W6NKR	41,606	293	71	10	A
W3CP	45,296	298	76	15	A	N4C	150,304	976	77	23	B	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	KJ6A	11,960	115	52	6	A
N1WR	42,366	307	69	7	A	K3KO	100,562	653	77	12	B	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W6GO (N6IG,op)	196,236	1142	79	24	B
W3EE	23,304	222	66	16	A	K2AV	60,590	415	73	11	B	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	K6KM (N6T,op)	176,170	1115	79	24	B
K3HH	26,460	210	63	9	A	NT4D (+NET)	110,284	698	79	23	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W6UE	159,276	1021	78	23	B
N4LF	24,120	201	60	24	A	W4Y2T (+W4SD,KC4VZK,AF4CD, K4UEC) 10,488 636 79 23 M	110,284	698	79	23	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	K6DB	70,072	461	76	24	B
K3APM	18,840	157	60	11	A	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W6WY	18,560	160	58	5	B
N3HUV	16,626	163	51	8	A	W4TCT (K04PY,N4AG,KF4ARS, KE4LSU,N3QYE,KD4SKW,KF4USQ, KF4LNQ,ops)	80,964	518	78	24	C	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	N6ZS (+NET)	154,998	981	79	24	M
K3TM	15,300	150	51	3	A	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	K6RC (+K6RJ,K6GV)	146,816	936	78	24	M
W3DAD	14,946	141	53	5	A	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	K6NO (+NET)	139,832	907	77	21	M
W3DA	6,072	66	46	11	A	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	K6SG (+NET)	116,578	757	77	17	B
K3KJ	5,930	77	35	3	A	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W6UT (+K6GV,K6OM)	110,448	708	78	24	M
W3FQE	308	14	11	3	A	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	San Diego					
K3MM	190,788	1223	78	24	B	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W6JVA	45,000	300	75	12	Q
K3ZO	180,648	1158	78	24	B	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W6WJA	9,588	102	47	6	Q
N3RR	105,490	685	77	24	B	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	K6ZH	103,816	683	76	17	A
N3II	99,382	629	79	24	B	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	W6NK	83,916	567	74	24	A
N3AM	97,650	651	75	12	B	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	AA6EE	38,778	281	69	8	A
KD4D	94,402	613	77	24	B	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	K6NVA	31,284	237	66	21	A
W3HVQ	81,600	544	75	20	B	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	K6NVA	156,156	982	79	17	B
W3AZ	69,108	433	78	20	B	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	K6NOF	59,040	412	76	16	B
N3OC	64,850	431	75	15	B	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	K6TV6 (K6CT,op)	168,228	53	38	3	B
K3SA	63,072	432	73	7	B	N4RWR (+K4A4PA)	10,710	105	51	14	M	W4D	34,286	217	70	10	A	W5BU (+NET)	6,888	82	42	20	C	W5BU (+NET)	6,888	82	42	20	C	N6KI (+K6AM,W6BNBU,N6NC)	149,760	960	78	24	M
W3GN	828	23	18	4	B																														

K6III (+NET)	66,066	429	77	16	M	AD7U	46,200	308	75	14	A	W8VM (W8IDM,AF8C,N8OSM,ops)						Wisconsin						K0JA	29,648	218	68	13	A
W6VX (W6LD,N6DE,WZ6E,ops)	127,512	828	77	24	C	W7POE	39,060	315	62	17	A	W811	71,100	450	79	23	M	N9C1Q	107,124	678	79	24	Q	K0TG	28,854	229	63	11	A
7						N7GGJ	38,624	294	68	12	A	K8CX (+NET)						N9NE	88,140	565	78	24	Q	WJWM	28,224	224	63	14	A
Alaska						N7RW	23,637	233	67	13	A	N8CPA (+K6CHY1)	46,332	297	78	5	M	K9AFOX	52,440	380	69	24	Q	K10F	24,850	203	62	6	A
KL7UR	4,256	56	38	9	Q	NM7N	19,706	87	59	12	A	AA8OY (+K6CS)	36,704	248	74	20	M	AF9J	25,842	219	59	18	Q	K0JE	24,990	185	67	13	Q
KL7WP	33,460	239	70	13	A	KC7SSN	8,134	83	49	19	A	N8OA	24,966	171	73	17	M	N0CK	141,568	896	79	24	A	AA0ZJ	23,310	185	63	12	A
KL7FAP	5,168	68	38	10	A	KD7LJ	4,158	63	33	6	A	W8H7C (+NH7CC)	18,326	119	77	21	M	W91W	122,276	794	77	23	A	K0GJX	20,880	174	60	9	A
KL7Y (WA2GO,op)	151,632	972	78	19	B	KC7MIQ	108	4	2	4	A	K8MFO (+NET)	11	79	79	5	M	W91X	121,506	789	77	24	A	K0KGS	11,960	115	52	24	A
KL5T	34,974	261	67	10	B	W7QM	68,098	431	79	16	B	W8LT (WB8FSV,op)	12,482					WA1UJU	109,802	713	77	24	A	WA0WVW	11,750	125	47	8	A
Arizona						N7DDE	11,092	118	47	10	B	W8ZTA	28,024	226	62	11	B	K9AMR	107,800	700	77	24	A	K0CCQ	11,700	90	65	8	A
N7IR	85,728	564	76	24	Q	K7NWS (AA7UA,WB7EA1,ops)	11,700	117	50	4	M	WB8DQA (WZBP,op)	29,240	215	68	11	C	K9C9N	88,140	565	78	16	A	WA0WVO	10,500	105	50	12	A
W5V50	39,192	284	69	20	Q	Wyoming						W9MSE	77,770	505	77	19	A	K0NY	10,464	109	48	10	A						
W5V8E	23,424	192	61	12	Q	N0AH	71,000	500	71	24	A	K9AAM	41,344	304	68	15	A	AC0W	4,000	50	4	9	A						
N07X	15,004	121	92	4	Q	N0DJ7	42,076	314	67	6	A	K9ARS	40,710	295	69	16	A	W0GJ (AA0BY,op)	155,630	985	79	23	B						
N7KT	4,408	58	38	9	Q	W7CA	9,744	116	42	4	A	N9E2	37,000	250	74	18	A	K0AD	140,868	903	78	24	B						
K0YM	164,162	1039	79	23	A	W7CS	23,548	203	58	24	B	N9E3	32,086	263	61	11	A	K0HB	140,778	891	79	24	B						
W7ZMD	96,720	620	77	20	A	8						W9WUW	36,375	273	66	11	A	K9WIE	133,380	855	78	24	B						
K7NO	86,394	561	77	24	A	Michigan						W9KHU	27,619	213	65	24	B	K3WT	81,030	555	73	13	B						
W7YS	83,622	543	77	19	A	W8RU	95,004	609	78	24	Q	K9OSH	24,000	200	60	7	A	N0XB	52,256	368	71	24	B						
AB7J	62,250	415	75	15	A	K8DD	63,042	399	79	14	Q	N9TD	23,232	176	66	24	A	WA2HFI	25,536	186	63	10	B						
NN7A	52,560	365	72	14	A	K8LJQ	48,240	335	72	22	Q	N9TJ	18,666	153	61	24	A	K0KX	14,210	135	53	2	B						
W9CF	21,798	173	63	5	A	K8CV	32,640	255	64	24	Q	W9TCT	11,660	119	53	4	A	NS1N	14,248	137	52	5	B						
K7HP	20,586	141	73	17	A	K8BWW	13,818	141	49	14	Q	W9FBC	11,236	106	53	4	A	KT0R (+K0OB,K0MX,K0XQ)	150,696	966	78	24	M						
W5HTX	18,600	150	62	7	A	N8CQA	2,494	43	29	4	Q	K9IA	10,266	87	59	9	A	Missouri											
WA6TX	19,328	158	58	10	A	ABDF	180	10	9	3	Q	W9GWH	8,256	96	43	6	A	N0OCT	13,080	109	60	10	Q						
W8DKRV	15,600	150	52	16	A	W8BZ	151,839	961	79	24	A	W9WVW	27,619	213	65	24	B	AA0B	9,286	53	31	6	Q						
K7TR	12,384	129	48	7	A	N0URZ	85,636	542	79	24	A	W9WUW	36,375	273	66	11	A	WA0VY	81,176	556	73	19	A						
NF7E	360	15	12	8	A	W8DJS	73,320	470	78	21	A	NE9U	82,836	531	78	16	B	K0CM	31,602	229	69	18	A						
K6LL	203,662	1289	79	24	B	W8TJQ	63,992	421	76	16	A	K9KX	75,596	491	78	24	B	K0CA	24,948	162	77	11	A						
W1XT	160,160	1040	77	24	B	K8RDJ	60,882	417	73	24	A	N9FH (+WB0UN)	137,618	871	79	24	M	K0TPY	24,120	180	67	18	A						
W8AEF	54,432	378	72	24	B	K8S5	59,200	400	74	14	A	W9AXQ (+K9B9TPA)	3,038	49	31	17	M	K0SM	20,984	172	61	7	A						
W8LQA	31,968	216	74	15	B	W8UJW	53,712	373	72	13	A	Ø						K0AP	19,380	170	57	6	A						
N7JXS	23,220	320	62	11	A	W8KZM	33,768	252	67	10	A	K9TR	144,760	940	77	24	A	K0LW	16,576	148	56	11	A						
NU7V	22,400	200	56	9	B	K8JUV	32,232	237	68	13	A	N4OQW	129,948	833	78	24	A	K0BYMH	10,080	120	42	9	A						
W7WW	8,648	94	46	24	B	NX8K	29,400	245	60	12	A	K9WA	126,558	801	79	24	A	N0JMP	6,984	97	36	18	A						
K17LS	1,160	29	20	3	B	W8BRFB	28,560	210	68	13	A	WA9TPQ	117,710	745	79	19	A	AA0RT	1,980	33	30	8	A						
NM7I (K7ON,NU7I,ops)	106,704	684	78	24	M	K8AI	26,964	214	63	12	A	W9OF	107,484	689	78	20	A	K4VX (op W9QA)	211,404	1338	79	24	B						
W7ON (+N7NFX)	31,080	222	70	15	M	K8BBW	26,496	207	64	10	A	N9J	98,124	629	78	24	A	N0ST	121,506	789	77	24	B						
Eastern Washington						W8EGI	25,740	198	65	7	A	N9JF	97,968	628	78	17	A	W9NX	61,904	424	73	24	B						
K7MM	91,050	607	75	24	Q	W88HBJ	25,472	199	64	18	A	K9GY	77,368	609	78	18	A	K0VBU (+ops)	166,532	1054	79	24	M						
K7BFL	748	22	17	1	Q	N8IA	24,700	190	65	9	A	W9XU	64,834	421	77	11	A	K0VVT (+K0CAL)	6,888	84	41	24	M						
K7FR	140,462	889	79	24	A	N8TDE	22,570	185	61	18	A	K9QB	64,386	441	73	24	A	W0EEE (K0QOQ,K0IMI,K15L,KB0LY, KC0DD,K0B5X,KB0VLC,ops)	39,440	290	68	24	C						
W7WMO	82,350	549	75	23	A	K80ZY	20,230	151	67	11	A	K9QV	64,386	441	73	24	A	Nebraska											
K7UK	14,796	137	54	11	A	N8VEN	19,116	162	59	15	A	K9OQ	62,050	425	73	14	A	K0DI (at K0GND)	142,200	900	79	24	A						
W5TV	12,760	110	58	13	A	K8GA	18,290	155	59	10	A	W9YK	57,450	383	75	21	A	W8TM	54,954	387	71	16	A						
Idaho						ACRW	18,228	147	62	24	A	K9CS	55,440	360	77	10	A	K0IL	44,548	301	74	21	A						
W7QDM	35,880	260	69	11	Q	W8EO	17,582	149	59	24	A	K9CF	43,820	313	70	21	A	K0NC	42,450	283	75	14	A						
W7ZRC	132,246	837	79	24	A	K8LJG	17,200	200	43	7	A	K9B	43,348	304	72	24	A	K0GKR	41,328	286	74	13	A						
W07Y	114,912	756	76	20	A	K8GRT	15,768	146	54	20	A	W9QFV	24,276	199	67	13	A	KT0K	31,262	264	59	24	A						
N7LB	76,068	521	73	18	A	W8FRD	15,390	135	57	11	A	W9CIR	37,260	207	69	15	A	AA0W	896	28	16	2	A						
WX7G	48,280	340	71	24	A	W0G9F	15,336	142	54	9	A	W9IL	34,928	236	74	9	A	K0DG	16,800	140	60	19	B						
KK7A	34,544	254	68	6	C	N8MGS	14,250	125	57	14	A	N9MSJ	32,868	249	66	15	A	North Dakota											
W7UQ (K17RO,AB7BY,ops)	28,320	240	59	14	A	AA8PI	13,248	138	48	17	A	K9YQ	30,720	240	64	24	A	K10NH (+N7VI)	201,552	1292	78	24	M						
Montana						W8JJ	13,176	108	61	9	A	W9LNQ	27,924	179	78	8	A	K0DU (+K0UK,NOZA)	134,442	873	77	24	M						
AB7CE	19,588	166	59	22	Q	N8XMS	12,314	131	47	8	A	K9PPW	27,600	200	69	7	A	N0HM (+AE0Q)	39,200	280	70	11	M						
K7EB	15,588	166	59	22	Q	N8NX	12,300	123	50	4	A	AA9KH	26,600	190	70	16	A	N0LW (W0NT,W0HXB,ops)	15,092	154	49	7	M						
KE7X	151,048	956	79	24	A	N8JM	12,296	106	58	24	A	K9XZ	24,276	199	67	13	A	South Dakota											
W7LR	38,346	249	77	10	A	AB8CI	10,800	108	50	12	A	W9SZ	21,350	175	61	5	A	N0LF	39,200	280	70	11	M						
K7ABV	26,800	200	67	4	A	N8ZFH	6,396	82	39	6	A	K9AHH	14,700	150	49	8	A	N0M (W0NT,W0HXB,ops)	15,092	154	49	7	M						
K0CZMTZ	4,680	65	36	22	A	K8BPGW	4,514	61	37	11	A	W9AX	14,000	140	50	24	A	Maritime Newfoundland											
K5T7	77,380	530	73	19	B	K8CC	78,588	531	74	8	B	AA9LS	13,426	137	49	15	A	VE1GN	19,712	176	56	6	A						
Nevada						KE9MT	11,880	110																					