

September 2004 CW Sprint Results

Boring Amateur Radio Club
tree@kkn.net

The double nickel (55th) CW Sprint was held on September 12 (UTC) from 0000:00 to 0400:00 UTC. However, the first 60 seconds were rather quiet, as many operators paid their respects to two entrants who were missing from this event. There were 23 QSOs logged with a time of 0000 UTC, with more than 125 in the second minute. Several stations were heard calling K4OJ and W4AN, but there was no response. A few Kleenex tissues were consumed in the process.

Twenty meters was open for most everyone for the first couple of hours of the contest and 80 meters wasn't as bad as it can be in September. Activity was strong, and while the 400 QSO barrier was not broken this time around, there were still 36 stations who had at least 300 QSOs. A total of eight teams managed to accumulate scores over 100K points—a very strong showing.

Log submission was down slightly compared to last September, but still strong with 194 logs received. Once again, we used the seven-day deadline for log submission and produced the results for posting on the Internet during the second week after the contest.

QRP Category

Ten logs were submitted in the QRP category, and we are happy to announce all ten of them made the top ten. Congratulations to Danny Eskenazi, K7SS, on another QRP victory. However, instead of using K7RI's station, Danny operated from his home for a change. The second place score wasn't very far behind as Ken Adams piloted K5KA to 212 QSOs, just one fewer than Danny, but several multipliers short. NJ4X/Ø and N8VW produced very strong scores from the middle of the country to take third and fourth.

Low Power Category

Eighty-seven of the logs received were in the low power category. Dan Craig, N6MJ, who set the low power record last February, came out on top again. However, the competition is getting closer with east coast stations W4OC, K1HT and K7SV not far behind. NØAT, K8NZ, NAØN, NØAX, W1RM and N8EA filled out the rest of the top ten. The entire low power top ten had over 11K points. Making the top ten in this category is not a gimme. Just ask Paul, K5AF, who finished with a very respectable 255 QSOs, but missed the box.

tion in New Mexico. The rest of the top ten was rounded out with W4PA, K5GN, K3NM (piloted by N2NC), K1DG and N6TV, who really only used one radio. There was a very competitive race to make the box, as K1KI and N5RZ (operating at K5TR) missed out by only a contact or two.

Club Competition

The FRC and PVRC combined their efforts and came out of nowhere to take top honors in the club competition. They edged out the Southern Sprint Coalition who no doubt missed their K4AAA score. The NCCC edged out their long time rivals SCCC to take 3rd place. The team competition continues to be a great method to increase activity. Only 45 of the logs submitted were not signed up for a team.

Golden Logs

There were 19 golden logs as shown in the table (with corresponding QSO totals). Congratulations to Mike, K9NW, John, N2NC (at K3NM), Mark, N5OT, and Gary, VA7RR, who produced a log over 300 QSOs with no errors. It really takes a golden ear to pull that off.

Golden Logs

K9NW	346
K3NM	338
N5OT	334
VA7RR	304
W6EEN	283
N2GC	261
NAØN	255
N4CW	219
K8JM	205
VE3IAY	181
N8VW	179
K6NA	150
N6CW	114
N4OGW	63
VE3DZ	22
N6MZ	11
DJ1YFK	6
N6TR/KL7	1
WO4O	1

Top 10 QSOs

N9RV	384
K5ZD	376
N5TJ	371
N2NT	371
N2IC	369
W4PA	362
K5GN	361
N6TV	355
K1KI	347
K5TR	346
K9NW	346

Top 10 QRP

K7SS	9798
K5KA	9116
NJ4X	8118
N8VW	7518
NØSXX	4624
WA8REI	2079
NØQT	1265
K4AQ	1012
WT1L	798
N6WG	480

Top 10 Multipliers

N9RV	49
K5ZD	49
K3NM	49
K1DG	49
N6ZZ	49
N5TJ	48
W1WEF	48
K6LA	48
W9WI	48
W6EEN	48

Top 10 Band Changes

N9RV	207
N5TJ	186
W4PA	185
K5GN	173
K5TR	172
N2NT	160
N6ZZ	130
N2IC	124
K5GA	108
AA3B	102

Top 10 Low Power

N6MJ	14617
W4OC	13662
K1HT	13185
K7SV	12972
NØAT	11997
K8NZ	11968
NAØN	11730
NØAX	11546
W1RM	11340
N8EA	11088

High Power

The remaining 97 logs received were in the high power category. Pat Barkey, N9RV, has been working his way up the top ten after his initial appearance five years ago. He seems to have some kind of magic that overcomes the "black hole" phenomenon that many W9s complain about - where signals just don't seem to get out very well. Pat finished with 384 QSOs to claim his first CW Sprint victory. Pat edged out five-time winner Randy Thompson, K5ZD/1, and had a comfortable margin over 16-time winner Jeff, N5TJ. Andy, N2NT, was a multiplier short and fell behind N5TJ, while Steve, N2IC/5, made an impressive showing from his not fully completed contest sta-

Top 10 Scores

Score	Band Changes	QSOs Lost	00Z	01Z	02Z	03Z	
N9RV	18816	207	7	111	94	85	95
K5ZD	18424	62	1	103	100	84	89
N5TJ	17808	186	6	107	94	83	87
N2NT	17437	160	1	108	89	86	88
N2IC	17343	124	1	105	89	77	98
W4PA	17014	185	7	102	95	78	87
K5GN	16606	173	2	103	91	78	89
K3NM	16562	12	0	101	89	69	79
K1DG	16464	73	1	95	93	71	77
N6TV	16330	6	4	100	88	83	85

Records

Tim Duffy, K3LR/Ø, traveled to Kansas and setup in a campground to set a new Kansas record—previously held by K0VBU from 1982. Tim now holds records for two states: Oklahoma and Kansas. In Tim's home state of Pennsylvania, K3NM with John, N2NC, at the key, eclipsed AA3B's score from last year. Maybe if Tim had a bigger station in Pennsylvania, he could try for the hat trick and hold three state records.

Bert, N4CW/1, set a new record from Maine, surpassing the K1KI expedition from 1988. DJ1YFK sent in the first log from Germany to add his call to the growing list of DX station record holders. There are a total of 33 DXCC countries on the record books now.

The nineteen golden logs surpass the previous record of seventeen set last September.

Next Time

The next *NCJ* CW Sprint will be held on February 13 UTC (Saturday the 12th local time). For team registration, use the *NCJ* web page at www.ncjweb.com. Logs are submitted via e-mail to cwsprint@kkn.net and are due seven days after the contest.

Check out the Web resources at n6tr.jzap.com/sprint.html and rules, records and previous results at the *NCJ* Web page at www.ncjweb.com.

Soapbox

Only a part-time effort this time. Wanted to do full-time, but was committed to a cook-out at the preacher's house. Got home in time to hand out a few contacts.—AA4LR

This was my first Sprint, and, wow, was it humbling. Feeling under the weather at the start, so that contributed to errors.—AC5AA

This is the best four hours in radio, made better with the minute of silence.—KØOU

Good turnout. I heard a number of new call signs, and several that I hadn't heard for a while. W3DOS sent DC as his QTH. The rules are silent on whether DC counts as MD. I just logged what I copied.—K1HT

Didn't realize when I signed up that I was on-call. Got 4 phone calls, missed 25 minutes. John—K3MD

Started on 40 meters until the Big Boys showed up; then went to 20 until it dried up. Then back to 40, with occasional checks on 80 meters (it was too early), then back and forth between 40 and 80 meters. Nice to have a quiet 40-meter band for a change. Practically no QRM from RTTY stations either! My Yaesu FT-897 transceiver operated at 5 W into a 5-MHz OCF 28-gauge insulated wire stealth antenna up 40 feet in heavy foliage trees next to I-75 in a downtown Atlanta industrial area. SGC SG-237 Smartuner. *WriteLog* 10.48f.—K4AQ

Conditions were great. Part time effort, but fun. Missed Kentucky as usual.—K4FXN

Missed my old teammates W4AN and K4OJ.—K4RO

Bill and OJ were missed. Conditions were

great for most of the continent!—K5GN

Due to combination operator/computer glitch, my one-minute of silence turned into 9 minutes of silence. When the sprint ended, I realized my log was 6 QSOs short. I missed W4AN and K4OJ on 3 bands each. RIP my dear buddies.—K5TR

The quality of operating just keeps getting better. A new personal best QSO total.—K5ZD

Strep throat prevented a full effort, but good to see the guys.—K6NA

Had a hard time focusing on the contest. The phone call from my brother telling me about the thunderstorm and 60 MPH winds near me did not help either.—K6NR

Got back in time for last half hour of fun. Fresh meat for the masses!—K6OWL

This was my 2nd CW sprint and I beat my poor QTH goal by 1 QSO.—K6VVA

Whew! What a workout! After years of doing sprints at K7RI, decided to try it from home and it was great fun, too. What a humility sandwich! Learned to *never* call someone if I heard *anyone* else calling them. It was just a waste of time. And CQing was pretty much out of the question on 40 and 80. Had a Sweepstakes dream moment when WB0O and WDOT were worked back to back on 20! A Dakota Sweep! Once again a tribute to the hobby to hear the speed and agility at work in the best contest of them all. Congrats to all veterans and welcome aboard to all the newcomers! (I was trying to visualize what this would have been like with a 5-W limit for all. I bet that would be cool to try once.) See you all on sidebar next weekend (I know, I know—every CW diehard is cringing now), and in February for the CW-only boys.—K7SS

CW Sprint = king of contests! Sure missed W4AN and K4OJ.—K7SV

Lost 50 minutes due to two PC crashes and other PC problems.—K9MMS

Computer would not key the radios. Had to use paddles and old CMOS keyer with sticky buttons—lots of number decrementing, concatenating messages, etc. Plus, logger was acting funny—ESC wouldn't remove calls from the call sign field or the exchange field. Had to use backspace key and arrow buttons. I shoulda paper logged.—KG5U

The first couple of hours were tough, but the low bands really came through after 0200. Should be a lot of fun in February!—N0AX

Great band conditions this year.—N0QT

Just moved to town from the mountains. Just got my antenna up today after a few months of down time. Going to operate QRP for a while to let the neighbors get used to antennas and RF! Had a good QRP time!—N0SXX

First sprint.—N2CU

Thanks to N5QQ and W5WW for the use of their KC5FU radio ranch.—N5TJ

Bill and OJ: your presence was sorely missed. Thanks to all for another fine running of the best in radio contesting.—N6AN

Many thanks to AL2G for help with the QTH.—N6TR/KL7

If I make the Top Ten box this time, it's only because all the regulars bugged out.—N6TV

Only got to play for 90 minutes, but had a lot of fun. I'd been using the *TR Log* simulator for practice, and it made a big difference. Last time out I made 60 Qs in 4 hours, while this time I made 35 in an hour and a half. If I could have done the full 4 hours, I might well have broken 100 Qs. At QRP power levels, CQing really didn't turn out to be the best use of my time. Did much better on S&P, once I finally caught the rhythm of the pack. I just hope I did better on accuracy this time. Will

Team Scores

<i>FRC & PVRC</i> #1	<i>SSC</i> #1	<i>NCCC</i> #1	<i>SCCC</i> #1
N2NT 17437	W4PA 17014	N6TV 16330	K6LA 14736
K3NM 16562	W9WI 14448	K6XX 14288	N6MJ 14617
AA3B 15040	K4BAI 14398	N6XI 13959	N6AN 14076
KE3Q 14444	K4RO 14288	W6EU 12212	AC6T 13892
N4AF 14260	W4OC 13662	K7NV 12188	W6EEN 13584
K3WW 13320	N4ZZ 13478	AJ6V 12098	W6JPL 12780
K7SV 12972	K9AY 12878	W6RGG 12015	N6AA 12470
W4AU 11132	KU8E 12364	N6PN 10530	N6VR 10736
N4ZR 10170	W4NZ 10668	K6LFRN 10387	K6NR 8120
N4CW 9636	W1ZM 9450	N6ZFO 9548	N6CW 4446
134973	132648	123555	119457

5. Big Beat (N5TJ, K5GN, K5TR, K5GA, K5NZ, WQ5L, KN5H, N5PO, NO5W, N6TR)	116762
6. YCCC #1 (K5ZD, K1DG, K1KI, W1WFF, K1HT, N2GC, W1EBI, KT1V)	107501
7. Azenmokers (N2IC, N6ZZ, N5OT, K5YAA, KY7M, KC7V, K5KA, W6H, N0QT)	102856
8. Austin #1 (W5KFT, N3BB, W5WMMU, K5OT, K5AF, KG5U, N5DO, KZ5D, K5IID)	101548
9. SMC #1 (N9RV, K9NW, N9CK, K0OU, W19WI, K9MMS)	80925
10. YCCC #2 (K1ZZ, K1EA, W1RM, K2KQ, K2LE, K1AR, W1TO)	64602
11. NCCC #2 (VA7RR, K6RB, W6OAT, K6VVA, W6YX, K2KW, K6DGW, N6WG, W6ZZZ)	60686
12. FRC & PVRC #2 (N8NA, K3MD, N3AD, W3YY, W3DOS, W3EF, K3STX)	54336
13. MWA #1 (N0AT, N0AN, K0AD, KT0R, W0YC, N0IJ, N0OA)	51736
14. NCC (K8AZ, K8NZ, K3LR, KL7WV, K3UA)	46674
15. CCO (VE3EJ, VE3IAY, VE3KP, VE3JM, VA3NR, W1AJT, VE3AGC, VE3DZ)	38640
16. MRRC (W1NN, N8EA, K8JM, N8VW)	38482
17. GMCC (K07X, W0ETT, N0SXX)	25653
18. SCCC #2 (XE2MX, K6NA, NE6I, W6SJ, K6EY)	21882
19. Austin #2 (N5XU, AC5AA, W5JAW)	14294
20. SSC #2 (WA4TT, K4FXN, AA4LR, K4AQ, NY4N)	13728
21. QRP-L Team (K7SS)	9798
22. SMC #2 (KA9FOX, KM9M)	7314

have to see what kind of feedback I get from the official scorer. Thanks all, and see you in the next contest.—N6WG

With bandpass filters this time, I actually had SO2R capability without the fear of frying the front end of one of the radios. Although the station was SO2R-ready, the operator still has a lot to learn about this technique!—N6ZZ

This was my first sprint and I had a very good time despite my mistakes and peanut whistle signal. Changing bands for me involved swapping the top section.—N7FF

My first sprint!—N7ZG

Great conditions. Great operators. It doesn't get any better than CW Sprint. OJ and Bill Fisher were missed.—N9RV

First time using true computer logging (believe it or not). Went pretty well. I've joined the 21st century. Rig on 2nd floor running 100W, antenna only 8 ft up. Rig is higher than the antenna! Is there a category for that?—NE6I

First time HP. Best contest there is!—KL9A

at NK7U

Good fun. Sure gets the grey cells working harder! Must do something for 80 meters.—VE3RZ

Thanks to John, AC8E, for use of his great station.—W1NN

Always fun.—W1RM

A big thanks Jerry and Ellie for their hospitality and in allowing me use of this venerable call sign. I did the Sprint during a break from WAE. I did better in WAE!—W1ZM

I actually missed my vertical in Illinois in this contest!—W3DOS

This contest is still my very favorite. There is no let-up for 4 straight hours, and there are lots of top-notch ops on the air. Missed hearing that famous "AAA" suffix going at 35-40 WPM.—W4AU

First Sprint. Poor antennas make it tougher, but it was a great education.—W6SJ

Shoulda went to 80m sooner. It was hot and no noise! Not a QRPers contest, but good to hone CW skills. Thanks to all the stations

who took the time to complete an exchange. I know it was difficult, but even a few of the big boys took the time. Running an FT-817 at 5 W; 20/40/80m inverted vees at 30-34 feet on top of a manmade hill (Whiting Scenic Overlook) in Midland County, MI. County Sheriff showed up as I was tearing down—wanted to know what the hell I was doing. When I told him a ham radio contest, his attitude softened. When I told him I contacted Mexico and British Columbia on 5 W of power, he was even more amazed! No ticket, even though apparently I violated curfew in a public park.—WA8REI

I logged W3DOS as MD because DC isn't a mult. Excellent conditions.—WI9WI

This is the most difficult contest for QRP! Had a great time though. There are some amazing CW operators out there. I have a long way to go.—WT1L

First full-time contest after 30+ years of non-op. I promise my accuracy will be better next year!—K6MR

Records Updated for September 2004

QTH	Date	Call	QSO	Mult	Score	QTH	Date	Call	QSO	Mult	Score
CO	Feb-2003	N2IC	389	52	20,228	VE1	Sep-2000	VE9DX (K5NZ)	183	40	7,320
IA	Sep-2000	N0NI (AG9A)	331	43	15,093	VE2	Sep-1988	VE2ZP	214	41	8,774
KS	Sep-2004	K3LR/0	256	41	10,496	VE3	Feb-2000	VE3EJ	270	50	13,500
MN	Feb-2003	K0SR	308	50	15,400	VE4	Sep-2003	VE4/WB0O	266	45	11,970
MO	Sep-1996	K4VX/0 (WX3N)	332	46	15,272	VE5	Feb-2003	VE5SF	237	49	11,613
ND	Feb-2002	WB0O	318	47	14,946	VE6	Feb-2000	VE6EX	228	43	9,804
NE	Feb-1991	KV0I	204	34	6,936	VE7	Feb-2000	VA7RR	316	48	15,168
SD	Feb-2003	WD0T	347	47	16,309	VY1/VE8	Feb-2000	VY1JA	36	22	792
CT	Sep-2003	K1KI	369	50	18,450	4U1	Feb-1985	4U1UN (W2TO)	70	23	1,610
MA	Feb-2003	K5ZD	365	54	19,710	8P	Sep-2002	8P9JG (N5KO)	277	42	11,634
ME	Sep-2004	N4CW/1	219	44	9,636	C6	Feb-1999	C6AKP	21	14	294
NH	Feb-2003	K1DG	331	50	16,550	HH	Sep-1996	HH2AW	139	33	4,587
RI	Feb-2002	K1IG	310	47	14,570	HI	Feb-1991	HI8DMX	40	19	2,430
VT	Feb-2004	NT1Y (W4PA)	338	47	15,886	HP	Feb-2000	HP1AC	64	30	1,920
NJ	Feb-2003	N2NT	380	51	19,380	KP4	Feb-2004	NP4Z	253	48	12,144
NY	Feb-2002	K2UA	321	50	16,050	TG	Sep-2001	TG9/N5KO	150	42	6,300
DE	Sep-1989	KN5H/3	272	46	12,512	V4	Feb-1996	V40Z (AA7VB)	54	23	1,242
MD	Sep-1989	W3LPL	310	47	14,570	VP2E	Feb-1996	VP2E/KJ4HN	68	30	2,040
PA	Sept-2004	K3NM (N2NC)	338	49	16,562	VP9	Feb-1985	W6OAT/VP9	202	31	6,262
AL	Feb-2004	K4NO	280	48	13,440	XE	Sep-1990	XE2XA (WN4KKN)	305	47	14,335
FL	Feb-2003	N2NL	357	55	19,635	ZF	Sep-1992	ZF2KI (K1KI)	251	49	12,299
GA	Sep-2003	K4AAA (W4AN)	404	54	21,816	9A	Sep-2000	9A6XX	29	19	551
KY	Sep-1998	K4LT	281	44	12,364	CT	Sep-1998	CT1BOH	225	40	9,000
NC	Sep-2003	N4AF	342	49	16,758	DL	Sep-2004	DJ1YFK	6	6	36
SC	Sep-2003	W4OC	298	46	13,708	EA8	Feb-1994	EA1AK/EA8	36	21	756
TN	Sep-2003	W4PA	393	51	20,043	F	Sep-1990	F/N6TR	196	38	7,448
VA	Sep-1989	K7SV	300	52	15,600	G	Feb-2002	G4BUO	160	40	6,400
AR	Feb-2000	K5GO	278	50	13,900	HC8	Feb-2000	HC8N (N5KO)	271	52	14,092
LA	Feb-1995	W5WMU (K5GA)	306	48	14,688	I	Sep-1998	IK0HBN	100	35	3,500
MS	Feb-2000	WQ5L	317	49	15,533	JA	Feb-1991	7J1AAI	13	9	117
NM	Feb-2003	N6ZZ	351	52	18,252	KH6	Sep-1981	KH6NO	121	30	3,630
OK	Sep-2003	K3LR	352	48	16,896	LU	Feb-2003	LU1FAM	92	35	3,220
TX	Feb-2000	N5TJ	381	52	19,812	LY	Sep-2000	LY4AA	163	38	6,194
CA	Feb-2003	W6EEN (N6RT)	378	54	20,412	OH	Sep-1998	OH1NOA	56	22	1,232
AK	Feb-2000	KL9A	202	47	9,494	PY	Sep-1980	PY8ZPJ	29	14	406
AZ	Feb-2000	K6LL	364	50	18,200	UA9	Feb-2000	RU0SN	15	13	195
ID	Feb-2003	W7UQ (KL9A)	283	46	13,018	UN	Sep-2000	UP6F	13	10	130
MT	Feb-1998	K7BG	273	43	11,739	VK	Sep-1994	VK5GN (N6AA)	48	22	1,056
NV	Feb-2000	K7BV	290	50	14,500	ZD8	Sep-1990	ZD8Z (N6TJ)	228	43	9,804
OR	Feb-2003	N6TR	393	52	20,436	ZS	Feb-2000	ZS1ESC (N6AA)	51	18	918
UT	Sep-1991	K6XO	263	44	11,572						
WA	Feb-2003	K7RI (K7SS)	297	53	15,741						
WY	Sep-1999	K7KU (N2IC)	312	48	14,976						
MI	Feb-2003	N8EA	331	52	17,212						
OH	Feb-2003	K8MR	309	52	16,068						
WV	Feb-2002	N4ZR/8	286	48	13,728						
IL	Sep-2003	AG9A	362	52	18,980						
IN	Sep-2003	N9RV	389	53	20,617						
WI	Feb-2000	K9AA (K9PG)	302	55	16,610						

Highest multiplier—Feb-2000—55

K9AA (K9PG)—Highest QSO total—Feb-2004—405

N6TR/7—Highest score—Feb-2003—21,306

K4AAA (W4AN)—Highest team score—Feb-2002—163,373

SCCC #1—Highest Low Power—Feb-2004—17,050

N6MJ (at W6KP)—Highest QRP Power—Feb-2002—10,800

K7RI (K7SS)—Logs received—Feb-2004—225

Number golden logs—Sep-2004—19

Number logs >=300—Feb-2003—52

Scores

Call	Name	QTH	20	40	80	QSO	Mlt	Score	Team	Call	Name	QTH	20	40	80	QSO	Mlt	Score	Team
K5ZD	RANDY	MA	139	141	96	376	49	18424	YCCC#1	N6VR	RAY	CA	100	96	48	244	44	10736	SCCC #1
K1DG	DOUG	NH	131	133	72	336	49	16464	YCCC#1	W6OAT	*RUSTY	CA	101	119	18	238	45	10710	NCCC #2
K1KI	TOM	CT	128	135	84	347	47	16309	YCCC#1	N6PN	MATT	CA	90	120	24	234	45	10530	NCCC #1
W1WEF	JACK	CT	107	121	89	317	48	15216	YCCC#1	K6VVA	RICK	CA	148	61	34	243	43	10449	NCCC #2
K1ZZ	DAVE	CT	134	108	84	326	45	14670	YCCC#2	K6LRN	DICK	CA	102	87	32	221	47	10387	NCCC #1
K1EA	KEN	MA	110	122	85	317	42	13314	YCCC#2	K6ZFO	*BILL	CA	110	86	21	217	44	9548	NCCC #1
K1HT	*DAVE	MA	114	120	59	293	45	13185	YCCC#1	N2RD	IRA	CA	105	85	30	220	42	9240	
W1RM	*PETE	CT	93	94	65	252	45	11340	YCCC#2	K6NR	DANA	CA	94	67	36	203	40	8120	SCCC #1
N4CW	BERT	Me	94	81	44	219	44	9636	FRC & PVRC #1	W6YX	MIKE	CA	94	67	25	186	42	7812	NCCC #2
W1ZM	*MARK	CT	65	82	63	210	45	9450	SSC #1	K6NA	GLEN	CA	44	54	52	150	43	6450	SCCC #2
W1EBI	GEO	MA	62	76	66	204	42	8568	YCCC#1	N6CV	TERRY	CA	98	16	0	114	39	4446	SCCC #1
KT1V	TED	NH	32	85	69	186	38	7068	YCCC#1	K6MR	*KEN	CA	62	43	14	119	34	4046	
K1AR	JOHN	NH	71	45	32	148	37	5476	YCCC#2	K2KW	KEN	CA	78	42	0	120	33	3960	NCCC #2
W1TO	*TOM	MA	40	17	26	83	38	3154	YCCC#2	NE6I	*DENNIS	CA	104	0	0	104	37	3848	SCCC #2
WT1L	**CHRIS	VT	18	2	18	38	21	798		W6SJ	*RANDY	CA	60	42	17	119	32	3808	SCCC #2
N2NT	ANDY	NJ	128	145	98	371	47	17437	FRC & PVRC #1	K6DGW	FRED	CA	52	39	7	98	29	2842	NCCC #2
N2GC	ANOJ	NY	94	84	83	261	47	12267	YCCC#1	N7FF	*FRANK	CA	27	46	4	77	30	2310	
K2KQ	*DON	NY	80	94	56	230	46	10580	YCCC#2	K6EY	*BECKY	CA	31	23	0	54	24	1296	SCCC #2
N2CU	*TOM	NY	74	76	79	229	43	9847		K6CSL	BERT	CA	24	9	6	39	20	780	
K2QMF	TED	NY	61	76	62	199	42	8358		KE6OR	*GARY	CA	14	14	13	41	19	779	
K2LE	*ANDY	NY	40	72	52	164	37	6068	YCCC#2	N6WG	**BOB	CA	30	0	0	30	16	480	NCCC #2
K3NM	JOHN	PA	131	116	91	338	49	16562	FRC & PVRC #1	W6ZZZ	*MARK	CA	8	13	7	28	12	336	NCCC #2
AA3B	BUD	PA	118	133	69	320	47	15040	FRC & PVRC #1	K6OWL	*MARK	CA	0	22	0	22	15	330	
KE3Q	RICH	MD	124	111	79	314	46	14444	FRC & PVRC #1	NK7U	JOE	OR	137	117	85	339	47	15933	
K3WW	CHAS	PA	126	97	73	296	45	13320	FRC & PVRC #1	KO7X	AL	WY	130	136	7	273	46	12558	GMCC
N8NA	*KARL	DE	93	93	57	243	43	10449	FRC & PVRC #2	K7NV	KURT	NV	117	115	45	277	44	12188	NCCC #1
K3MD	JOHN	PA	82	75	62	219	44	9636	FRC & PVRC #2	K7YM	LEE	AZ	95	117	59	271	44	11924	Azenmokers
N3AD	ALAN	PA	80	113	26	219	43	9417	FRC & PVRC #2	N0AX	*BILLOJ	WA	116	101	34	251	46	11546	
W3DOS	COLIN	MD	71	69	36	176	41	7216	FRC & PVRC #2	KN5H	OJ	AZ	105	92	55	252	44	11088	Big Beat
W3EF	*MAURY	MD	61	74	38	173	37	6401	FRC & PVRC #2	KC7V	MIKE	AZ	81	115	67	263	41	10783	Azenmokers
K3STX	*PAUL	MD	24	48	35	107	33	3531	FRC & PVRC #2	K7SS	**DAN	VA	135	53	25	213	46	9798	QRP-L Team
K3JA	*BOB	PA	38	56	4	98	36	3528	NCC	K7BG	*MATT	MT	81	113	25	219	44	9636	
W4PA	SCOTT	TN	122	153	87	362	47	17014	SSC #1	N7WA	*DINK	WA	87	72	34	193	41	7913	
W9WI	DOUG	TN	87	131	83	301	48	14448	SSC #1	KL7WC	TIM	AK	106	58	0	164	40	6560	NCC
K4BAI	JOHN	GA	131	110	72	313	46	14398	SSC #1	K7RC	TOM	NV	62	39	39	140	39	5460	
K4RO	KIRK	TN	104	100	100	304	47	14288	SSC #1	N7ZG	*GUY	WA	50	21	9	80	29	2320	
N4AF	BILL	NC	117	114	79	310	46	14260	FRC & PVRC #1	WA6PX	*JIM	OR	32	19	2	53	25	1325	
W4QC	*BILL	SC	118	109	70	297	46	13662	SSC #1	W3CP	*JIM	OR	24	12	16	52	24	1248	
N4ZZ	DON	TN	101	118	74	293	46	13478	SSC #1	K17Y	*JIM	OR	0	42	11	53	22	1166	
NA4K	STEVE	TN	113	99	78	290	45	13050		N6MZ	MIKE	WA	11	0	0	11	8	88	
K7SV	*LARRY	VA	88	113	75	276	47	12972	FRC & PVRC #1	N6TR/KL7	*TREE	AK	1	0	0	1	1	1	Big Beat
KU8E	JEFF	GA	97	105	79	281	44	12364	SSC #1	K8AZ	JOHN	OH	98	123	86	307	46	14122	NCC
W4AU	JOHN	VA	92	95	66	253	44	11132	FRC & PVRC #1	KW8N	BOB	OH	100	105	90	295	46	13570	
W4NZ	TED	TN	88	91	75	254	42	10668	SSC #1	K8NZ	*RON	OH	87	109	76	272	44	11968	NCC
K4MX	*JERI	VA	39	107	74	220	42	9240		W1NN	OJAN	OH	89	103	70	262	43	11266	MRRC
W3YY	BOB	VA	99	40	44	183	42	7686	FRC & PVRC #2	N8EA	*JOE	MI	59	111	82	252	44	11088	MRRC
WA4TT	*JOHN	GA	75	68	36	179	42	7518	SSC #2	N4ZR	PETE	WV	64	98	64	226	45	10170	FRC & PVRC #1
N5VI	*VAN	GA	52	47	38	137	37	5069		K8JQ	STEVE	WV	70	49	89	208	44	9152	
K4FXN	*DAN	KY	46	65	0	111	35	3885	SSC #2	K8JM	REV	MI	62	76	67	205	42	8610	MRRC
AF4OX	*BOB	SC	33	36	27	96	34	3264		W8KW	*TED	MI	77	81	38	196	43	8428	
AA4LR	*BILL	GA	19	17	13	49	25	1225	SSC #2	K8MM	IAN	MI	62	74	66	202	39	7878	
K4AQ	*MATT	GA	7	39	0	46	22	1012	SSC #2	N8VW	**PAT	OH	43	86	50	179	42	7518	MRRC
NY4N	*JEFF	TN	10	1	0	11	8	88	SSC #2	W8WTS	*JIM	OH	45	74	29	148	35	5180	
W04O	*RIC	TN	0	1	0	1	1	1		WA8REI	**KEN	MI	32	33	12	77	27	2079	
N5TJ	JEFF	TX	147	151	73	371	48	17808	Big Beat	K8KHZ	SEAN	MI	20	32	8	60	26	1560	
N2IC	STEVE	NM	160	123	86	369	47	17343	Azenmokers	N9RV	PAT	IN	133	163	88	384	49	18816	SMC #1
K5GN	DAVE	TX	128	150	83	361	46	16606	Big Beat	K9NV	MIKE	IN	117	126	103	346	45	15570	SMC #1
K5TR	GEO	TX	133	134	79	346	47	16262	Big Beat	N9CK	STEVE	WI	100	129	86	315	44	13860	SMC #1
N6ZZ	PHIL	NM	142	120	64	326	49	15974	Azenmokers	K9AY	GARY	WI	109	96	69	274	47	12878	SSC #1
K5GA	BILL	TX	133	124	74	331	47	15557	Big Beat	W9WVI	OJ	WI	87	88	75	250	42	10500	SMC #1
N5OT	MARK	OK	116	126	92	334	45	15030	Azenmokers	K9MMS	*GARY	IL	91	78	48	217	43	9331	SMC #1
W5KFT	ROB	TX	113	122	67	302	46	13892	Austin #1	W9SMC	*GAVEL	IL	65	108	17	190	43	8170	
N3BB	JIM	TX	102	127	73	302	45	13590	Austin #1	K9QVB	*JOHN	WI	101	79	0	180	41	7380	
K5YAA	JERRY	OK	97	120	91	308	44	13552	Azenmokers	KA9FOX	*SCOTT	WI	92	67	30	189	38	7182	SMC #2
K5NZ	MIKE	TX	118	104	70	292	46	13432	Big Beat	KB9YDI	*DAN	WI	7	12	0	19	16	304	
W5WMU	PAT	LA	112	101	62	275	46	12650	Austin #1	KM9M	*ZIG	IL	0	11	1	12	11	132	SMC #2
K5OT	LARRY	TX	108	86	74	268	45	12060	Austin #1	WB0O	BILL	ND	110	115	83	308	43	13244	
W05L	RAY	Ms	109	90	63	262	43	11266	Big Beat	WD0T	TODD	SD	101	109	85	295	44	12980	
K5AF	*PAUL	TX	108	100	47	255	43	10965	Austin #1	K0OU	STEVE	MO	103	118	71	292	44	12848	SMC #1
KG5U	*DALE	TX	110	74	59	243	45	10935	Austin #1	N0AT	*FRON	M							