

Results, February 1995

NCJ CW Sprint

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"It will be a cold day in boring Oregon when KRØY loses the CW Sprint"—K2MM.

On the morning after the 1995 February Sprint, there was 6 inches of snow on the ground in Boring, Oregon. The temperature was 20 degrees Fahrenheit.

The 36th running of the NCJ CW Sprint resulted in broken records and broken strings everywhere. Conditions were pretty good on all bands, but the cold weather in the north might have hurt some of the activity. Eighty meters was really hot with S9 signals for everyone.

The string of 11 consecutive CW Sprint victories by Jeff, KRØY, has come to an end. Tree, N6TR, the second place finisher in the September Sprint, surged ahead to beat Jeff and set a new all-time record.

Tree combined a very big 20-meter QSO total with a strong finish on 80 meters, along with 51 multipliers to outpace Jeff and take the top spot for the third time. Steve, N2IC, who has also won 3 times, ended up in third place with five-time winner K5ZD returning to his old stomping grounds in Texas to take fourth. Randy proved you can still have a great score with only two band changes and one radio.

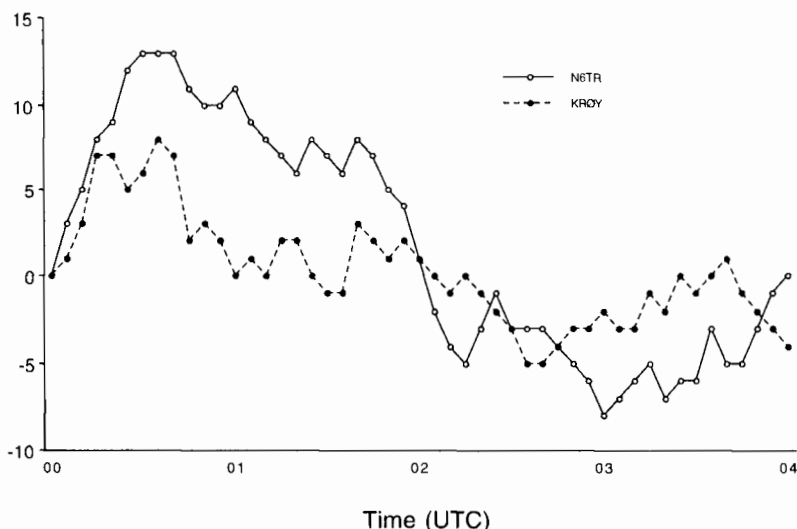
If you add up the number of times the top four have won this contest, you have a staggering number: 25! That leaves only 14 other plaques to be claimed by *everyone else combined* over the 19-year history of this contest.

Returning to the top spot in the Low Power category is K7GM. Rick posted the highest-ever low-power score since we have started tracking them.

The other string broken this time is in the team competition. The Southern California Contest Club had won the last 8 CW Sprints. However, this time, the No Name #1 team, assembled by KRØY, came out on top. They also broke the old team record set 6 years ago by the Blues Brothers. Team #1 for the SCCC came in second, with NCCC #1 close on their heels. The Internet Hackers, a new team formed on the CQ-Contest Internet reflector, made a respectable showing to take fourth.

Other new records were set by KM9P operating at N4RJ for Georgia (beating his old mark, set in February 1989), K5GA at the controls of W5WMU eclipsing his old Louisiana mark set last February, and KN5H visiting K7UP to erase AA5B's three-year-old record in New Mexico.

The Race for First Place: KRØY v N6TR



The chart in this sidebar shows the number of raw contacts above or below an average rate of 90/hour for each station at 5-minute increments during the contest.

Significant events in the race:

KRØY:

Wednesday—Daughter Katherin is born (congrats, Jeff!).

Friday—Brings wife home from hospital.

Saturday—In-laws arrive and wife assures Jeff it is okay to operate.

0042—Takes several minutes to work CM7BC on 40 meters.

0102—Switches to 40 meters

0231—Last 20-meter QSO

0243—Switches to 80 meters

N6TR:

0117 - Switches to 40 meters

0129 - First second-radio QSO on 20 meters

0158 - Works Minnesota and Iowa as new mults on 20 meters.

0236 - Last second-radio QSO.

0303 - Switches to 80 meters.

A total of 154 entrants submitted logs, just missing the record of 160 logs set 3 years ago. Thirty-four low-power logs came in.

Congratulations to the nine people who had Golden Logs—those with no errors. Once again, all of the logs received were put into the computer for cross checking. In a typical log, the computer cross-checked 99 percent of the call signs, names, and QTHs, and 75 percent of the QSO numbers. Every log gets checked, and the score adjusted if necessary. Many thanks to all of you who sent me logs in electronic format.

I have been asked to clarify some of the criteria used to check the logs. One case has to do with incorrect serial num-

bers. One station heard the station he was working give out the same QSO number on the previous QSO. This doesn't mean you are going to lose the QSO, although it would probably be a good idea to send the number back at him to see if he agrees it is the correct QSO number. First off, if the QSO number is off by only one, we feel that the error could have just as easily been made by the transmitting station, so we don't remove the QSO from either log. If we find a QSO number off by 10 (which is the most common way to bust a QSO number), the error is judged to be in the receiving log. Normally, a QSO number off by two will be an error for the receiving station, but we do watch for patterns.

In most Sprints, at least one station gets out of sync and sends serial numbers off by two for an extended period. In this case, I will remove the QSOs I can prove were wrong from the transmitting log, *not* the receiving log. So make sure you are sending the right number! If you get off by two early on in the contest, this will have a major impact on your score! If you do mis-send some QSO numbers, just mark it correctly in your log. There is no penalty for having a non-consecutive number. However, a note like "I know I sent a bunch of numbers wrong" isn't enough.

Another question had to do with names and QTHs. In the CW Sprint, we expect the name to be received exactly as it was sent. If you type in "John" for NL7GP (who sends "Jon"), the QSO is busted. One station in the top ten missed becoming a golden log because of this exact error. QTHs do not need to be copied as sent. OR, ORE and OREGON are all equal. There just needs to be enough information to make it clear what the QTH is. One of the more curious busted contacts removed from a log occurred when the QTH for a VE was wrong.

A growing number of errors are being generated by the logging programs people are using. Most programs have a

Operating Single Band 20

I had a fun time going single-band—I was able to get the adrenaline rush at the start and for the first time in years was able to just listen and cruise the bands at the end.

Lesson learned by listening to 20 fade into the sunset: *All the two-radio boys have a decided advantage over the rest of the field.* As 20 died and all the one-radio guys went to 40, the only thing left on 20 was a lot of low number "fresh meat" and the second voices of the likes of N4RJ, NM5M, N6TR, KRØY, K5GN, KE3Q, W5WMU, and K6NA. These guys were running away from the pack by being able to scan and/or call CQ into a "dead" band and find those lingering strays (and mults). The rest of the field was hard at it on 40 while these guys had their "robots" calling and scanning while they copied a report on 40 or 80.

It's definitely a technological equipment contest and the Top Ten shows it! I'm not forgetting talent. The Top Ten is made up of the very skilled (and usually those very skilled have the toys to play with). Anyone making it into that rarefied box with one radio deserves *heaps of praise!*

Will we all end up with two radios and the equipment to make it all play? I doubt it. Seems like those that want it, have it already, and the rest of us will mumble in our beards, "Boy, how do they get those scores!?"

Can't wait until September's Sprint—73, Danny, K7SS

A response from Dave Patton, WX3N

Good job on 20-only Danny! You always do quite well for "only one radio."

While I tend to agree that there is something of an advantage to those who have the ability and equipment to operate two radios simultaneously, I have to question the actual value of such in the Sprints.

My best scores on both SSB and CW have come while using one radio. Both those efforts netted in the upper 340 QSO range. But I have done many more Sprints with two radios. I usually am able to find an extra mult, and occasionally gain an extra QSO or two by "passing a station to the other band," but I believe the two-radio advantage for the Sprint is minimal. In a longer 'test where there is no QSY rule, such as SS, the advantage is significant.—Dave, WX3N

Top Ten Scores		Top Five Low-Power Scores		Team Scores							
N6TR/7	18258	K7GM	10935	No Name #1		Southern California		Northern California		Internet Hackers	
KRØY/5	17600	NØAX	9400	KRØY	17600	Contest Club #1		Contest Club #1			
N2IC/Ø	16800	WA2SRQ	9320	K5ZD	15552	N6TR	18258	N6TV	14715	N2IC	16800
K5ZD	15552	K7SV	9180	N4RJ	14946	K6NA	14805	WN4KKN	14674	WA8YVR	12502
K5GN	15072	K4BAI	9030	N5RZ	14652	N8SR	13536	W6RGG	12972	K7GM	10935
N6AA	14993	Stations with Ten or More Band Changes		K5MR	14064	N6ND	13500	W1FEA	12466	XE1/AA6RX	9912
N4RJ	14946			NM5M	13616	K6LL	13244	WA6AUE	10965	W7ZRC	9744
K6NA	14805			N3BB	13140	AC6T	12188	K2MM	10373	NØAX	9400
N6TV	14715			AD5Q	12466	AB6FO	11954	W6XX	10164	WQ5L	7176
W5WMU	14688	N4RJ	98	N6ZZ	11997	N6VR	11567	N6IP	9592	K7SS	7128
Top Ten QSOs		KRØY	92	W5FO	10584	W6UQF	7267	NV6O	9282	K7LR	7030
N6TR/7	358					K6XO	612	N1EE	7080	WU3M	2610
KRØY/5	352			138617						93237	
N2IC/Ø	350					116931		112283			
N5RZ	333										
K6NA	329										
N6TV	327										
K5ZD	324										
N6AA	319										
WN4KKN/6	319										
N4RJ	318										
Top Ten Mults											
N6TR/7	51										
KRØY/5	50										
KB4GID	49										
K5ZD	48										
K5GN	48										
W5WMU	48										
K5MR	48										
N2IC/Ø	48										
Many	47										

memory so you don't have to retype the name and QTH when you work the same station on a different band. Many people are using this memory without looking at the information. Two top-ten operators missed having Golden Logs because of this. One station put N2IC in California on his first QSO and lost 3 QSOs as a result.

If you log the contest by hand and then

type in the log afterwards, you may add errors during the transcription. This can be solved by sending in the handwritten log along with your disk. If I find a typo, I won't remove the contact. Remember, you can make the Golden Log box regardless of how many QSOs you make, so it pays to be careful. If you are interested in seeing how your log did during

the checking process, you can send me an SASE for a copy of your report.

A special award is being sent to N3IXR, who receives the Best Soapbox Comment certificate. Check it out!

The next CW Sprint will be held on Sunday (Saturday evening in the US), September 10 UTC at 0000Z. Hope to see you then!

Sprint 1995 CW: A View from the Sidelines

(Or: How I went from Sprinting to Crawling in Two Easy Hours.)

I have always been intrigued by the Sprint contests and the opportunity they provide for operators of all ERP levels to have fun. Unfortunately, I just haven't had the time to participate as I would have liked. The QSY rule makes the Big Guns vacate a frequency after having someone answer their S meter-pinning CQ. The 4-hour contest time period gives contesters with busy schedules the time to try a full-tilt level of participation. The exchange is more meaningful than most contests, and provides a higher level of challenge to the operator. Finally, the Sprint contests seem to be catching on with a resulting greater participation.

The CQ-Contest Reflector on Internet has motivated me to try to do more contesting, instead of being a DXer who happens to contest every now and then. I had wanted to do a full 4-hour effort in the Spring 1995 CW Sprint. Even with my contest-rusty CW, I felt I could and should be able to make 200+ QSOs with my station (Kenwood TS-690S, Heath SB-220, sloper on 80 and Yagis on 40 and 20). Also, I wanted to help the die-hard super-talented Sprinters with a somewhat difficult multiplier (South Carolina).

As fate would have it, turning 40 last year has really trashed my gray matter and I had forgotten I had made a date with my wife to watch a movie together that Saturday night. Okay, no problemo: we would start the movie early and I'd still have the last two hours to operate and go for 100+ QSOs.

I had operated the Sprint before, but only in a couple of SSB efforts. I still felt that making 100+ QSOs on CW in the last couple of hours would be a cakewalk. After all, I would be fresh meat.

The cakewalk turned into quicksand! I simply couldn't get the rhythm of the contest. I would be calling someone after they finished a QSO, only to have someone else staying on frequency. I would go off frequency to find someone, only to find they had stayed on the previous frequency. To frustrate me even more, the exchanges weren't being given in the same order with each QSO. I felt like I was making a fool out of myself! Finally, my two sons respectfully but seriously advised me that I was trashing their TV. At this point, I was thinking I should just go crawl in the bed with my wife, set the alarm for early in the morning, get a good night's sleep, and get up to DX the gray line. This was not fun, and I was wondering where 100 QSOs were going to come from!

At the end of the first hour of operating, which was the third hour of the contest, I had a paltry 18 QSOs! I wasn't sprinting, I wasn't even limping, I was barely *crawling*. The second hour I decided that since I couldn't search-and-pounce effectively, I would just CQ, work someone, QSY to a clear frequency, CQ again, etc—simple, straightforward bull-in-the-china-shop mentality. It did work somewhat. I managed 32 QSOs the second hour, but the last few minutes of the contest on 80 CW clearly separate the Sprinters from the Crawlers! That was the most intense few minutes of machine-gun CW I have ever heard in my life.

With my tail between my legs, I crawled to 3.830 MHz to report my failure (I refuse to call it a score). Everyone was congratulating N6TR for winning and KRØY on his new

daughter, and so I took a deep breath and checked in with 50 QSOs and 18 mults. The teasing that followed on that frequency, and later down the band, motivated me to do better next time. One anonymous soul commented that 50 QSOs wasn't even an effort (I couldn't agree more!). A Sprinter Guru said he wished I hadn't operated because he had already gotten a "number 1 South Carolina" from someone else. He later said, and I knew it, that he was teasing and was glad I got on. Another well-known contesteer said he had chased me around the bands for 30 minutes trying to get the South Carolina multiplier. I didn't have the heart to tell him I tried to work him, too! The joking and carrying-on after the contest actually made me feel better.

The next week, I bared my bruised ego and inquired on the CQ-Contest reflector for advice on the exchange for Sprint. Several contesters responded, and they all said the same thing.

1) If you CQ, and thus will be vacating the frequency after the QSO, do the exchange like this: His Call, Your Call, Your #, Your Name, Your QTH.

2) If you answer a CQ, and thus have the right to keep the frequency for another QSO, do the exchange like this: His Call, Your #, Your Name, Your QTH, Your Call.

An experienced Sprinter will pick up on who is staying and who is QSYing, and he will know whether to call the new frequency owner or chase the QSYer, or keep scanning the band for a mult (and call CQ on a second radio if available), or find a clear CQ frequency.

So, with this humbling experience under my belt, what is my game plan for the next Sprint?

1) Make sure I don't get a date with my wife (who is definitely numero uno) confused with the contest date. Take her out Friday night and get a sitter for the children! (The baby-sitter idea works great for me—N6TR).

2) Rent four movies: two romance/family movies for my wife and daughter and two sports/scary/war/blood-and-guts/ninja movies for my sons.

3) Make a huge batch of popcorn and get a 6-pack of Coke (see #2).

4) Practice the rhythm of the contest with my keyer several evenings before the contest (note: more than 1 top-notch Sprinter said he records the Sprint and listen to it before the next contest to get the rhythm again).

5) Make at least 200 QSOs on CW and 250 on SSB!

Hoping to get you in my log and my tail out from between my legs after the next Sprint.—73, *Crawling Tom, WB4IUX*

Personal note: Several of you have asked "Tom, why the name ELF?" I use Elf in the Sprint and NA QSO Parties in honor of a very dear friend who lost a battle with cancer two years ago at the age of 38. He coined that name one weekend evening in the dorm at college after more beers and pool playing downtown than I would want to admit. In my circle of college buddies it stuck and, darn it, it fits! So Hey Edd, this one's for you.

Soapbox

No 40-meter antenna! And I missed the first hour on 20 because of a Surprise Birthday Party! However, once everybody got on 80, the Sprint was fun, fun, fun . . . *WU3M*. Man! You guys in the 300 club, you're super-human! Ones in the 200 club, my hat's off to you! Ones in the 100 club, we're a weak bunch of scrubs! Well I did beat my phone score! . . . *KB5YVT*. Congrats to N6TR for finally taking the Sprint record from Texas to the Northwest! Now KRØY has a new goal! Good luck to you both . . . *K7SS*. Personal best low-power QSO total. 40 and 80 were real good . . . *NØAX*. What a blast! My first full 4 hours on a Sprint . . . *W7ZRC*. My wife, away with family business, called late in the contest and I lost 1/2 hour of prime time on 80 meters. (She's a Ham and should know better!) Oh well, maybe it was not to be this time . . . *AEØM*. Almost 30 Q improvement for me using a different station . . . *NV6O*. First 3 hours were spent at my son's hockey game. I enjoy the Sprints but they don't even come close to watching my son score the winning goal. . . . *KE4GY*. I was anxious to try out new KT-34XA and amp this year. The first hour was my best ever, then the little old widow from across the alley came over, complete with hat and gloves. She said that I was killing her TV on channel 2 and 4, and "since there was nothing to do on Saturday nights since her husband died, except watch TV," could I please turn my radio off. It turns out her antenna and twinlead feed predate Marconi => diode city. Guess I'll have to buy her a new

antenna and coax before the next contest. . . . *NC6U*. By golly, I think I've got the hang of it. Now if I can just eliminate the multi-minute holes in the log, I'll get to 300. . . . *AB6FO*. It may not count for WRTC, but this is the best test of an operator there is, period. . . . *KM9P*. Didn't there used to be a group called the Florida CW Contesters? Are they all up in D.C. trying to protect their Social Security benefits or something? . . . *K8MR*. First TCG try at Sprint. Tennessee should have been plentiful. 20 was slow at the start, almost pure western US (man was N2IC loud on 20!). Did get a smattering of other stuff later in the first hour but weak. 40 went long pretty soon after moving there. Tried earlier but not enough activity. Tried to go to 80 early but again not enough activity. First time I ever really enjoyed the Sprint. Must be because I broke 200 Qs with low power. . . . *KØEJ*. (*Congrats Mark!*). Happiness is being in a rare state and having WDØT and WBØO calling me. A real big kick for an ex-W2! . . . *AAØCY* [*in sometimes-rare Nevada*]. Yup, only 3 QSOs. Last time I stay up all night at a church lock-in the night before. Fell asleep at rig at start of contest. Woke up to make 3 QSOs and then went to bed. . . . *ACØW* [*in very rare Minnesota*]. The CW Sprint is a contest for elitist CW operators—which I am not. If you sent over 35 WPM, I didn't call you. . . . *K7LXC* [*in rare Nebraska*]. Fun! Thanks! . . . *K7NPN*. Ouch! Another Headache! . . . *KB5YVT* (*in never-rare Texas*). Boy, did I have a hard time! . . . *KL7FAP* [*in hard-to-hear-Alaska*] Wire loop &

90 watts on 13-year-old radio. Lots of fun! . . . *KN4QV*. No Minnesota? Will I ever break 10k points? Will I ever get 50 mults again? Will the sunspots ever return? . . . *NØAX*. The Sprint is tough for us low-power guys. Multipliers are here and gone. It's also hard to be competitive with a borrowed rig which I had never used before. Had fun anyway! . . . *N2LSK*. First time . . . just grabbed the keyer and held on! . . . *N3IXR*. Fastest start ever! . . . *N6VR*. Had fun as always. . . . *N7LOX*. Operated portable from RV in Louisiana. Afraid I'll miss the September Sprint due to my daughter's wedding! . . . *W1WEF/5*. I finally got a tower and real aluminum beams, and my antenna relay cuts out when I switch bands to 40. Next time! . . . *W3AS*. Lots of band changing . . . "Pounce, Snatch and Move 'em" . . . I suggest a new award for the operator who works the most "True Triples" . . . same station in one operation, on all bands. . . . *W5NR*. I appreciate you guys that reach 300—or even 200+ CW QSOs. My brain hasn't caught on yet, but maybe someday! . . . *W6TKF*. Low Zepp doesn't work on 20. Couldn't get anything going early. Decided to drive up to Radio Shack (30 km away) and replace my flaky headphones. Virtually all of my QSOs were made after 0230Z. . . . *W9WI*. First time for real-time with a computer. . . . *WB9HRO*. A FUN contest! 80 meters was great this time. Sure wish I could operate like N6TR & KRØY, wow! Thanks for all the QSOs. . . . *WDØT*. First Sprint entry . . . *WL7EF*.

Scores

(An asterisk indicates 150 watts or less)

Call	Name	QTH	20	40	80	QSO	Mul	Score	Team	Call	Name	QTH	20	40	80	QSO	Mul	Score	Team
K1KI	Tom	CT	116	105	91	312	47	14664	YCCC	N6AA	Dick	CA	118	150	51	319	47	14993	SCCC #2
K8JLF*	Dave	MA	74	87	36	197	35	6895	YCCC	K6NA	Glen	CA	129	106	94	329	45	14805	SCCC #1
AB1T	Doug	VT	30	44	50	124	28	3472		N6TV	Bob	CA	113	132	82	327	45	14715	NCCC #1
WR1P	Nate	MA	19	26	7	52	18	936		WN4KKN	Trey	CA	127	108	84	319	46	14674	NCCC #1
NB1B	Dennis	MA	54	3	0	57	15	855	YCCC	W6UE									
WT1O*	Bob	MA	7	9	3	19	11	209		(WA6OTU)	Mark	CA	108	122	65	295	47	13865	SCCC #2
										N8SR	Steve	CA	127	90	71	288	47	13536	SCCC #1
W2GD	John	NJ	90	117	91	298	43	12814	FRC Domestic	N6ND									
KZ2S	John	NJ	117	104	83	304	42	12768	FRC Domestic	(N6CW)	Terry	CA	96	121	83	300	45	13500	SCCC #1
K2ZJ	John	NY	87	87	76	250	38	9500	MRRC	W6RGG	Bob	CA	89	110	77	276	47	12972	NCCC #1
WA2SRQ*	Ed	NJ	72	98	63	233	40	9320	FRC Domestic	W1FEA	Jack	CA	87	105	79	271	46	12466	NCCC #1
K2WK	Walt	NJ	41	58	79	178	41	7298	FRC Domestic	AC6T	Steve	CA	113	100	64	277	44	12188	SCCC #1
K2SG	Tony	NJ	48	70	53	171	36	6156	FRC Domestic	AB6FO	Ken	CA	86	118	74	278	43	11954	SCCC #1
N2LSK*	Geo	NY	24	24	1	49	13	637		N6VR	Ray	CA	114	100	55	269	43	11567	SCCC #1
										WA6AUE	Jim	CA	83	105	67	255	43	10965	NCCC #1
K3WW	Chas	PA	89	98	85	272	42	11424	FRC Domestic	K2MM	John	CA	83	108	62	253	41	10373	NCCC #1
AA3B	Bud	PA	80	84	74	238	41	9758	FRC Domestic	W6XX	Pete	CA	100	88	43	231	44	10164	NCCC #1
W3GH										N6IP	Bob	CA	74	94	50	218	44	9592	NCCC #1
(W9XR)	Ed	PA	81	88	63	232	41	9512	NCC	NV6O	Bo	CA	72	96	53	221	42	9282	NCCC #1
N3IXR*	Bob	PA	29	41	39	109	27	2943		W6MVW	Dick	CA	67	94	38	199	43	8557	SCCC #2
N6CQ	Bill	PA	40	47	18	105	28	2940		K6CQV	Dan	CA	75	73	47	195	42	8190	
WU3M*	Indy	PA	17	28	42	87	30	2610	Internet Hackers	N6PN	Matt	CA	52	93	56	201	38	7638	NCCC #2
WA3HAE	Keith	PA	12	39	21	72	27	1944		K6VNX	Arlen	CA	81	63	23	167	44	7348	SCCC #2
K3WWP*	John	PA	11	16	10	37	20	740		W6UQF	Chas	CA	84	39	46	169	43	7267	SCCC #1
										N1EE	Scott	CA	74	67	36	177	40	7080	NCCC #1
N4RJ										AA6MC*	Dick	CA	73	55	34	162	38	6156	NCCC #2
(KM9P)	Bill	GA	106	128	84	318	47	14946	No Name #1	W6DN*	Bob	CA	46	74	37	157	36	5652	
KB4GID	John	GA	88	103	74	265	49	12985	Cluster Pluckers	K6LRN	Dick	CA	37	61	52	150	37	5550	
K7GM*	Rick	NC	73	101	69	243	45	10935	Internet Hackers	AEOM	Tony	CA	40	68	12	120	35	4200	NCCC #2
KT3Y	Phil	VA	93	79	74	246	44	10824		W6TKF	Dick	CA	44	33	28	105	33	3465	
N4ZZ	Don	TN	55	88	85	228	45	10260	TCG	N6NF*	Tom	CA	37	47	14	98	27	2646	
K4AMC	Jim	TN	55	85	87	227	42	9534	TCG										
K7SV*	Larry	VA	78	60	66	204	45	9180	NERDS	N6TR	Tree	OR	150	116	92	358	51	18258	SCCC #1
W1IHN	Bert	NC	83	67	61	211	43	9073		K6LL	Dave	AZ	107	121	80	308	43	13244	SCCC #1
K4BAI*	John	GA	69	99	47	215	42	9030		W2ZRC	Rod	ID	82	101	49	232	42	9744	Internet Hackers
AB4RX	Dan	KY	67	74	74	215	42	9030		N0AX*	Ed	WA	99	89	47	235	40	9400	Internet Hackers
K0EJ*	Mark	TN	60	70	69	199	42	8358	TCG	AA7NX*	Mike	OR	75	87	48	210	40	8400	CCC
K4IQJ	Dick	AL	48	72	46	166	36	5976		N7LOX*	Brian	WA	86	77	43	206	39	8034	
WA6KUI	Ric	TN	35	45	64	144	41	5904	TCG	AA7BG	Matt	MT	66	75	67	208	38	7904	
KN4QV*	Jim	GA	46	59	41	146	36	5256		K17Y*	Jim	OR	76	84	29	189	41	7749	CCC
WM4T										K7SS	Dan	WA	162	0	0	162	44	7128	Internet Hackers
(KU8E)	Jeff	KY	63	36	50	149	33	4917	MRRC	K7LR	Chip	WA	87	62	41	190	37	7030	Internet Hackers
WR3O	Kirk	TN	36	47	38	121	35	4235	TCG	WA7UVJ	Newt	WA	51	60	27	138	38	5244	
AA4GA*	Lee	GA	9	26	53	88	34	2992	Cluster Pluckers	K7NPN*	Mike	WA	76	24	11	111	33	3663	
W9WI	Doug	TN	3	24	66	93	30	2790	TCG	W3AS	Doug	WA	84	2	0	86	29	2494	
K4IHN	Jim	NC	36	44	23	103	27	2781	Cluster Pluckers	WB9ZPK*	Mark	WA	25	35	0	60	21	1260	
N4LDZ	Andy	GA	32	34	16	82	31	2542	Cluster Pluckers	AA0CY	Bob	NV	8	27	10	45	19	855	
KE4GY	Frank	AL	0	0	46	46	20	920	TDXS #2	K6XO	Al	UT	36	0	0	36	17	612	SCCC #1
WB4IUX	Elf	SC	6	28	16	50	18	900	Cluster Pluckers	N7ENU	Bob	OR	4	8	0	12	9	108	CCC
KR0Y	Jeff	TX	114	141	97	352	50	17600	No Name #1	KW8N	Bob	OH	96	95	73	264	42	11088	MRRC
K5ZD	Randy	TX	115	119	90	324	48	15552	No Name #1	K8MR	Jim	OH	68	62	86	216	45	9720	MRRC
K5GN	Dave	TX	121	94	99	314	48	15072	TDXS #1	W8FN	Randy	OH	66	71	92	229	41	9389	MRRC
W5WMU										WD8AUB	Doug	OH	61	73	93	227	38	8626	MRRC
(K5GA)	Bill	LA	105	115	86	306	48	14688	TDXS #1	N8EA	Joe	MI	58	71	70	199	39	7761	
N5RZ	Ralph	TX	125	114	94	333	44	14652	No Name #1	WD8LLD	Goose	OH	27	53	70	150	43	6450	MRRC
K7UP										AA8U	Ugly	MI	50	45	49	144	33	4752	MRRC
(KN5H)	Steve	NM	106	129	75	310	47	14570		N4ZR*	Pete	WV	48	0	33	81	25	2025	
K5MR	Steve	TX	90	119	84	293	48	14064	No Name #1	WA8YVR	Pat	IN	91	80	95	266	47	12502	Internet Hackers
NM5M	Eric	TX	100	106	90	296	46	13616	No Name #1	W9RE	Mike	IN	101	75	81	257	46	11822	
N3BB	Jim	TX	117	94	81	292	45	13140	No Name #1	K9MA	Scott	WI	77	80	80	237	45	10665	
AD5Q	Roy	TX	90	100	81	271	46	12466	No Name #1	N4OGW	Tor	IL	64	87	90	241	44	10604	
N6ZZ	Phil	TX	113	99	67	279	43	11997	No Name #1	K4XU	Dick	IL	50	68	94	212	44	9328	
WB5B	Bob	TX	93	85	74	252	46	11592	No Name #2	K9BGL	Karl	IL	36	103	61	200	45	9000	
KI3L	Don	TX	77	95	79	251	45	11295	TDXS #1	K9MMS*	Gary	IL	47	66	59	172	40	6880	
K5LZO	Chuck	TX	91	73	89	253	44	11132	TDXS #1	KO9Y	Greg	IN	34	64	60	158	40	6320	
W5FO	Lynn	TX	95	93	64	252	42	10584	No Name #1	WB9HRO	Jim	WI	62	70	37	169	34	5746	MRRC
KS1G	Paul	TX	74	93	57	224	43	9632	No Name #2	AF9B	Mikey	WI	24	6	0	30	14	420	
W5ASP	Joe	TX	76	83	56	215	44	9460	TDXS #1	NEOP	John	IL	13	11	0	24	15	360	
K5TU	Kim	TX	58	94	53	205	43	8815	TDXS #1										
K5RC	Tom	TX	64	81	47	192	42	8064	TDXS #1	N2IC	Steve	CO	125	128	97	350	48	16800	Internet Hackers
WD5N	Dave	TX	78	79	49	206	38	7828		WD0T	Todd	SD	102	114	69	285	43	12255	
K8BN	Paul	TX	54	85	47	186	42	7812		KMOL	Steve	MO	63	94	53	210	43	9030	
WQ5L*	Ray	MS	40	105	39	184	39	7176	Internet Hackers	W0UY*	Tom	KS	24	57	22	103	36	3708	
KM5H	Ken	OK	36	93	48	177	40	7080	No Name #2	KJOG	Bob	CO	40	49	7	96	33	3168	
AC5K*	Wes	TX	61	67	41	169	41	6929	TDXS #2	K7LXC*	Ed	NE	28	0	0	28	15	420	
K85YVT*	Mike	TX	73	55	32	160	42	6720	TDXS #1	ACOW	Bill	MN	2	0	0	2	1	2	
K2BE*	Earl	TX	46	56	33	135	39	5265	TDXS #2	KL7FAP*	Fred	AK	7	0	0	7	6	42	Aurora Zoners
WB5VZL	Geo	TX	50	39	24	113	37	4181	No Name #2	WL7EF	Rich	AK	23	1	0	24	16	384	Aurora Zoners
AA5ZT	Marsh	LA	47	29	22	98	29	2842	No Name #2										
AA5UO*	Kris	TX	57	41	7	105	26	2730	No Name #2	VE4VV	Derrick	MB	74	84	63	221	36	7956	NERDS
K5DX	Sharp	TX	36	26	15	77	34	2618	TDXS #1	VE6EX*	Dan	AB	65	39	9	113	38	4294	
W5NR	Art	TX	48	26	7	81	32	2592		VE5SF*	Sam	SK	55	51	12	118	28	3304	
W3DYA	Norm	TX	8	23	16	47	24	1128											
W1WEF	Jack	LA	31	9	0	40	20	800											