



Final Results: North American Sprint CW September 2024

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“Aw, nobody ever goes there. It’s too crowded.” – Yogi Berra, and others

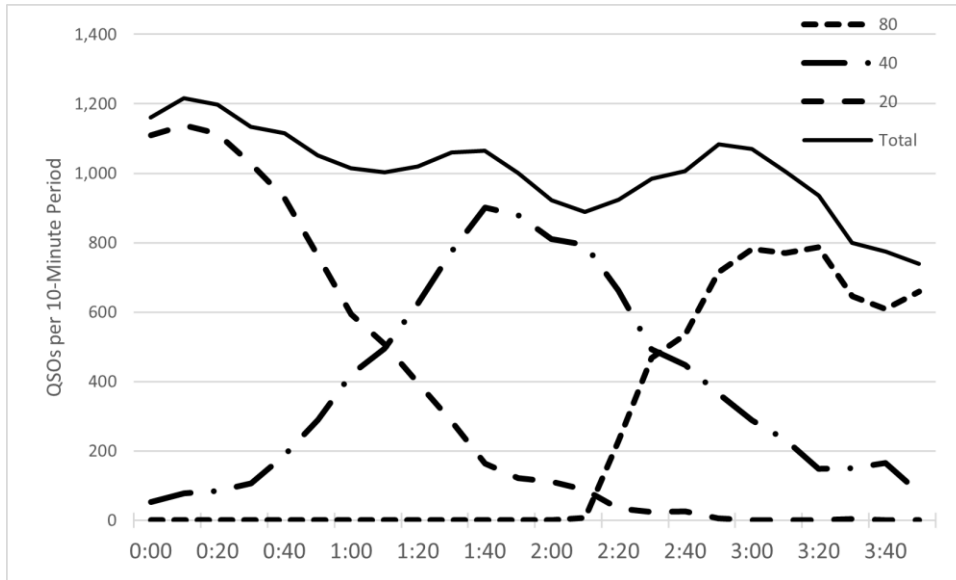
Most years the September CW Sprint shares the weekend with the SSB WAE test, giving CW operators something to do when sending QTCs to EU ops has worn out their voices. However, due to the quirks of the Gregorian calendar, the 95th running of the CW North American Sprint started at the exact time the final 4-hour block of the CW Ops CW Open contest ended. To avoid this in the future, CW Sprint Manager NØAX had discussions with CWO manager N1LN and for 2025, the fall CW Sprint will be held on September 14th. (See the rules at ncjweb.com or in the Jan/Feb 2025 issue of *NCJ*.) We’ll be back to regular weekends in 2026 when the contest calendar has its usual alignment of Saturdays.

Since conditions were good (not great), this scheduling issue was probably the reason why only 131 logs came in, a whopping 30% drop from the February event and the smallest turnout since September 2019. The lower turnout (only 169 unique calls across all logs) made the last half hour really slooow and the top multiplier count was down to 50 this time around, reached only by the two ops (N2NT and AA3B) with the highest overall scores. Only two state level records were broken this time around:

- W1FJ increased his existing record for MA QRP
- N2IC (@WY7M) topped KO7X’s 2004 WY Low Power record

Complete records are available on the NCJ website.

On the band change front, the low level of activity caused one-radio ops to exit 20 and 40 a bit too early. The herd in aggregate decided to spend 1:10 on 20M, 1:30 on 40M and 1:20 on 80M. While conditions were decent on 80, the transition there probably happened too soon, as the overall QSO rate drooped for the last 20 minutes despite a burst of 80M fresh meat for the last 10 minutes.



A look at the data suggests that staying on 20M for 15 minutes longer, and 80M 15 minutes less would be a better choice. For single-radio ops especially, conditions on 80M, combined with low turnout, could not support devoting one third of available time to that band. SO2R ops made QSOs on 40M at double-digit rates over the entire Sprint time period. **Table 1** shows the percentage of time that each band had the highest rate and the percentage of QSOs made.

BAND	TIME %	QSO %
20	29	35
40	38	39
80	33	26

Mike W9RE was not only the Top QSO gun, but also turned in a Golden Log!

Top QSOs	
Call Sign	QSOs
W9RE	319
N5KO	316
N2NT	308
N4OGW	306
N6TR	304
N4AF	300
K4RO	299
N5RZ	299
K5ZD	298



(Photo courtesy Mike Wetzel, W9RE)

The single-band QSO winners were:

- 20M: N5KO with 118
- 40M: AA3B and W9RE with 124
- 80M: K3LR with 92

From these scores, the theoretical mix-and-match max “Franken-“score works out to be 334 Qs x 50 mults for 16,700 points. That “perfect” score would not have won the previous seven Sprints. The scheduling change should help next September and let’s all make a note to try to drive the number of entrants up for February 2025.

The Finish Line

Top Overall Scores

Andy N2NT won his third in a row, reaching 92% of the theoretical Franken-score and coming in first to get his 6th Sprint win. Andy is now tied with W4AN for fifth place in all-time victories. Andy had an early 24-QSO lead over Bud AA3B which proved too much to overcome in the second half. Tor N4OGW took third with 306 QSOs but missed a few mults that Andy and Bud found. Mike W9RE had both the highest number of QSOs (319) of all entrants and an error-free Golden Log, but only rang up 46 multipliers for fourth place. There was a close battle for fifth place with N6TR, N5KO, N6TV and K5ZD separated by only 282 points. Tree’s mix of Qs, mults, and accuracy kept him ahead of Trey, Bob, and Randy. Tim N3QE and Howie N4AF rounded out the top 10.

Top Ten Overall Scores									
Call Sign	Score	QSOs	Mults	Band Chngs	QSOs Lost	00Z	01Z	02Z	03Z
N2NT	15,400	308	50	100	1	100	82	69	57
AA3B	14,750	295	50	136	4	84	74	74	63
N4OGW	14,688	306	48	122	2	94	76	75	61
W9RE	14,674	319	46	111	0	86	84	84	65
N6TR	14,288	304	47	54	4	90	72	71	71
N5KO	14,220	316	45	112	5	97	85	68	66
N6TV	14,112	294	48	62	3	96	77	57	64
K5ZD	14,006	298	47	34	1	95	77	70	56
N3QE	13,920	290	48	40	3	81	76	70	63
N4AF	13,800	300	46	112	7	99	67	79	55
<i>All of these entries are high power</i>									

High Power “Classic” Max 12 Band Changes

In the Classic category for the band-switching-averse, Gator N5RZ won with a score that just narrowly missed making the overall top ten. The top four all found 46 mults and only made the minimum two band changes, with John K4BAI coming in second, ahead of Tim K3LR and Bill W2RQ. Doug K1DG took the fifth spot by using two more band changes to sniff out an additional multiplier but a very slow last hour kept him from gaining any ground on the leaders. N6AA had the top West Coast score in this category, coming in 6th ahead of Jim K8MR, John N2NC, Bill N6ZFO, and Dan K4FN.

Top Ten High Power - Max 12 Band Changes									
Call Sign	Score	QSOs	Mults	Band Chngs	QSOs Lost	00Z	01Z	02Z	03Z
N5RZ	13,754	299	46	2	3	87	79	63	70
K4BAI	13,064	284	46	2	6	78	72	62	72
K3LR	12,972	282	46	2	8	76	74	69	63
W2RQ	12,696	276	46	2	4	87	84	69	36
K1DG	12,361	263	47	4	9	83	81	64	35
N6AA	12,285	273	45	2	9	69	71	59	74
K8MR	12,100	275	44	8	6	77	75	61	62
N2NC	12,056	274	44	6	2	69	75	61	69
N6ZFO	11,684	254	46	8	11	64	65	58	67
K4FN	11,562	246	47	2	8	58	71	57	60

Top Band Changes	
Call Sign	Band Chngs
AA3B	136
N4OGW	122
N9RV	122
N4AF	112
N5KO	112
W9RE	111
K4RO	105
KØEU	100
N2NT	100

Low Power

This top ten had a few strange characteristics: three stations from zero-land made the top ten and only three of the ten made more than 12 band changes. Ken KØEU came in first once again in the low carbon footprint category, using 100 band changes and a strong performance during the third hour to stay ahead of the others. Colin KU5B came in second with only 4 band changes and a score that came in first in the classic lower power category. N2IC and WQ5L both found 44 multipliers, but Steve's 11-QSO edge earned him 3rd place over Ray. The other two zero landers, NØAT and NAØN had an even tighter battle for 5th place with 259 QSOs each but Ron's extra multiplier topped Pat's golden log. Joe N8EA, Hal W1NN, Jim W8WTS, and Matt K7BG battled it out for the remaining top ten slots.

Top Ten Low Power									
Call Sign	Score	QSOs	Mults	Band Chngs	QSOs Lost	00Z	01Z	02Z	03Z
KØEU	12,690	282	45	100	4	80	75	66	61
KU5B	11,960	260	46	4	3	71	72	49	68
N2IC	11,484	261	44	4	4	68	78	51	64

WQ5L	11,000	250	44	2	5	74	63	53	60
NØAT	10,878	259	42	10	9	77	68	61	53
NAØN	10,619	259	41	90	0	92	52	57	58
N8EA	10,604	241	44	8	9	79	56	62	44
W1NN	10,062	234	43	11	4	59	65	60	50
W8WTS	9,635	235	41	91	10	79	51	53	52
K7BG	9,430	230	41	2	0	64	57	47	62

Low Power “Classic” Max 12 Band Changes

Colin KU5B’s two-multiplier edge overcame Steve N2IC’s extra QSO to top the Low Power Classic category. Much of the rest of the list are the same as the QSY-happy category, less NAØN and W8WTS, plus Kevin W9CF, Jay N4OX, and Mike KM9R moving into 8th, 9th and 10th place. Neither low power category had any Northeast or California stations included – looks like FRC, PVRC, YCC, NCCC and SCCC members are all stressing the power grid during contest time.

Top Ten Low Power “Classic”									
Call Sign	Score	QSOs	Mults	Band Chngs	QSOs Lost	00Z	01Z	02Z	03Z
KU5B	11,960	260	46	4	3	71	72	49	68
N2IC	11,484	261	44	4	4	68	78	51	64
WQ5L	11,000	250	44	2	5	74	63	53	60
NØAT	10,878	259	42	10	9	77	68	61	53
N8EA	10,604	241	44	8	9	79	56	62	44
W1NN	10,062	234	43	11	4	59	65	60	50
K7BG	9,430	230	41	2	0	64	57	47	62
W9CF	9,416	214	44	4	3	58	48	46	62
N4OX	9,408	224	42	4	8	63	62	52	47
KM9R	7,964	181	44	4	1	56	38	50	37

QRP Scores

Only five ops turned out for the peanut whistle competition. Al W1FJ and Danny K7SS both managed to convince 41 multipliers to copy their teeny-tiny signals but Al maintained a 5-QSO lead to get the high spot on the podium. K7SS does get the “Best History File Buster” award by using the name “Luddite.” Mike K8CN took third place, ahead of Phil K3UA using a “wallpaper dipole” (seen in the photo at right, courtesy Phil Koch, K3UA) and Dave N6AN, who ran a KX3 to a temporary short doublet.



Top Ten QRP									
Call Sign	Score	QSOs	Mults	Band Chngs	QSOs Lost	00Z	01Z	02Z	03Z
W1FJ	7,011	171	41	6	6	54	51	38	28
K7SS	6,806	166	41	2	1	50	46	42	28
K8CN	4,896	136	36	2	4	37	39	33	27
K3UA	1,104	48	23	0	2	0	0	24	24
N6AN	171	19	9	0	1	0	0	15	4

Team Competition

Reflecting the decreased activity, not a single team broke the 65,000-point level. NCCC#1 returned to the top spot coming in 3K points ahead of a strong showing by the number two South East Sprint Coalition. A North Coast Contesters/Mad River Radio Club coalition team took third place, while the Zoomers once again claimed the fourth spot. SCCC#1 filled out the top 5. Symptomatic of the low turnout, only fifteen teams were registered, a big drop from February. Getting ops to join a team in advance is a great way to drive turnout.

Team Scores

Northern California Contest

Club #1

N5KO	14,220
N6TV	14,112
AE6Y	12,455
N6ZFO	11,684
W6YX	11,223
	63,694

South East Sprint Coalition #1

N4OGW	14,688
K4BAI	13,064
KZ5D	12,150
KU8E	10,707
W4WF	9,933
	60,542

NCC+MRRC

K3LR	12,972
K8MR	12,100
KW8N	11,528
W1NN	10,062
W8WTS	9,635
	56,297

The Zoomers

W9RE	14,674
N5RZ	13,754
NA8V	12,190
KØVBU	10,664
	51,282

5. SCCC #1 (N5ZO, N6AA, K6LA, KG7NV)	46,379
6. Oregon Sprinters (N6TR, K4XU, WS7L, KI7Y, KQ7I)	43,225
7. South East Sprint Coalition #2 (K4FN, WQ5L, AA5JF, ND8L)	36,502
8. Big Sky - Gettin Back On the Horse (N9RV, K7BG, K7QA, W7XT)	34,784
9. Northern California Contest Club #2 (AJ6V, K9YC, W9KKN, W6SX, N6TTV)	34,226
10. GM Gold Miners (KØEU, N2IC, WØETT, WØZA)	33,386
11. AOCC Mavericks (W9CF, AA7V)	15,708
12. Northern California Contest Club #3 (WX5S, N6XI, W6RGG, NF6R)	14,866
13. GM Silver Miners (KØUK, NØTA, N7MZW)	7,236
14. SCCC #2 (KI6RRN/KL7, WQ6X)	4,807
15. Russell Amateur Radio Club (RARC) (AD5OK)	2,812



Speaking of getting back on his horse, Pat N9RV put the Montana multiplier in almost 300 logs (297 but who's counting) this time around. (Photo courtesy of Pat Barkey, N9RV)



Golden Logs

Mike W9RE turned in an awesome 319-QSO log that ended up staying a 319-QSO log. Pat NAØN, Matt K7BG, Rick N6XI, and Mike K9NW made up the rest of the “Fast and Accurate Top Five.”

Heather AH7RF (seen at right, photo courtesy of Heather Flewelling, AH7RF) and Jeff KQ7I win honorary “All or Nothing” awards for sending in their perfect 1-QSO logs. With any luck, Heather and Jeff will be back in February and at least double their scores!

Golden Logs (>100 QSOs)	
Call Sign	QSOs
W9RE	319
NAØN	259
K7BG	230
N6XI	127
K9NW	104

Multipliers

To make the top ten operator by multiplier count this round you needed to work 47 different sections/provinces/countries, Andy N2NT and Bud AA3B led the way with 50, while Tim N3QE, Tor N4OGW, and Bob N6TV all worked 48. Andy AE6Y, Doug K1DG, Dan K4FN, Randy K5ZD, Marko N5ZO, and Tree N6TR followed in a logjam at 47.

Multipliers	
Call Sign	QSOs
AA3B	50
N2NT	50
N3QE	48
N4OGW	48
N6TV	48
AE6Y	47
K1DG	47
K4FN	47
K5ZD	47

Sprint Hint

Have a Band Plan – Until Conditions Punch You In the Mouth

The Sprint limitation of 4 hours on 20/40/80 requires some key QSY decisions. The biggest choice for one-radio ops is when to move from 20 to 40 and from 40 to 80. Since SO2R ops will largely be on 40 for the entire 4 hours, their big decision is when to move a radio from 20 to 80. The best choice for you will be driven by your location and the capabilities of your antennas.

A default starting plan to shoot for is 90 minutes on 20, 90 minutes on 40 and the last 60 minutes on 80. If you are a wires-only station, you might want to spend less time on 20 and more on 40. West Coast stations with big/high antennas for 20 may choose more time on that band. Too much time on 80 is rarely a winning strategy. A good approach to pick band change times and QSO totals in advance and then let your rate when nearing that time to drive the decision.

For one-radio ops, a secondary decision is if/when to peek “backwards” once you’ve left 20 and 40. Often Caribbean NA mults may be easy to find on 20 and 40 after the herd has thundered on to lower bands. Since no assistance is allowed in the Sprints, quickly finding those mults requires rejuvenating old VFO knob spinning skills or taking advantage of the panadaptor in your radio.

Soapbox



Great conditions across all bands. Activity was down, probably due to the CWOps Open ending just before the Sprint start. I worked all mults that I heard, but apparently not enough of them. — K5ZD (Photo at left courtesy of Randy Thompson, K5ZD)

It's been so hot I didn't plan on operating. But by 02Z it was only 92 F so I hustled to Cerro Negro Benchmark (*David was operating portable on a mountaintop—Ed*), threw up a 44' doublet, fired up the KX3 and got to work. Having a lighted log on my phone, helped since the sun had already set. Bet DX was MD and PA. Great to hand out a few QSOs. I hope there were no errors in my serial numbers and the log was transcribed. I love The Sprint!
72, David N6AN

Nice conditions -- too bad the activity level didn't match it! — N6TV

Pretty much done after 3 hours. the last hour was a real grind here — W2RQ

Illbay isway onay oodgay atway intingspray.... — W9KKN (*wrong sideband, Illbay! – Ed*)

This was a last-minute Sprint operation from EB section. When the internet IP access flipped-out, ideas for running QRP evaporated. No amount of ethernet diagnosis was able to resolve the problem from the Concord QTH, although the rest of the internet functioned exquisitely.

The solution was to dial the FT-2000 to a cool 86-watts and run SPRINT from the East Bay (EB) section, switching between an 8JK Cobra sloper and the 10-m Long John yagi (which Buddipoles nicely on 15m & 20m).

40-meters was a SLOW opener in the SF East Bay, and 80-meters was even WORSE. — WQ6X

Who Was That Masked Operator?

Thanks to the hosts who make their stations available to traveling operators, such as N2IC who was returning home from providing communications services to firefighters in Wyoming. (Thanks, Steve!) He got in touch with Chuck WY7M and set a new WY LP record! (*Of course, that's why I missed NM this time, hi. — Ed.*)

One up-and-coming guest op is Sam Mauldin, WO5T, seen here at the controls of K5TR. Sam operates at George's station regularly and is getting used to the Sprint in this photo, courtesy of his host, George Fremin III, K5TR.



Guest Operators	
Station	Operator
K1IMI	N4CW
K5TR	WO5T
N4WW	W4WF
W6YX	N7MH
WY7M	N2IC

Next Time

The next CW Sprint will take place on February 2 UTC (Saturday, February 1st, in US time zones). The event starts at 0000 UTC, and stations may operate from 0000 to 0359 UTC inclusive. If you start a QSO just before the clock ticks over to 0400, you may finish it and log it at 0359. For team registration, use the NCJ web page, ncjweb.com. Submit logs via the log submission form on the NCJ website. Logs are due seven days after the contest! Final scores are typically posted on the NCJ website within 2 weeks of the contest. Check out the Web resources at kkn.net/n6tr/sprint.html and rules, records and previous results on the NCJ website.

73, The Boring Radio Club and the *National Contest Journal*

Line Scores

* – Low Power, ** – QRP

Call	Name	QTH	20	40	80	Total QSOs	Mults	Score	Band Chngs	Team
K5ZD	RANDY	MA	106	108	84	298	47	14,006	34	
K1DG	DOUG	NH	82	108	73	263	47	12,361	4	
W1UJ	JAY	MA	61	99	59	219	45	9,855	76	
W1FJ	**AL	MA	60	72	39	171	41	7,011	6	
K1IMI	BERT	ME	60	74	43	177	38	6,726	2	
KW1X	MARK	MA	61	55	34	150	38	5,700	4	
K8CN	**MIKE	NH	49	67	20	136	36	4,896	2	
K1TR	*ED	NH	40	33	0	73	34	2,482	7	
K1AV	*PETER	RI	12	30	0	42	20	840	1	
N2NT	ANDY	NJ	100	119	89	308	50	15,400	100	
W2RQ	BILL	NJ	91	97	88	276	46	12,696	2	
N2NC	JOHN	NJ	93	101	80	274	44	12,056	6	
WA2JQK	*BOB	NY	18	11	8	37	25	925	2	
AA3B	BUD	PA	92	124	79	295	50	14,750	136	
N3QE	TIM	MD	90	119	81	290	48	13,920	40	
K3LR	TIM	PA	90	100	92	282	46	12,972	2	NCC+MRRC
W2GD	JOHN	PA	84	79	83	246	45	11,070	14	
K3TN	JOHN	MD	66	99	77	242	44	10,648	6	
K3MM	TY	MD	72	76	51	199	42	8,358	26	
K3KU	*ART	MD	30	83	52	165	43	7,095	11	
NN3RP	TONY	DC	41	35	0	76	29	2,204	1	
K3UA	**PHIL	PA	0	0	48	48	23	1,104	0	
KC3FQF	*ROSTI	DE	0	34	0	34	21	714	0	
N4AF	AL	NC	96	119	85	300	46	13,800	112	
K4RO	KIRK	TN	89	121	89	299	45	13,455	105	
K4BAI	JOHN	GA	97	104	83	284	46	13,064	2	South East Sprint Coalition #1
K4FN	DAN	KY	71	99	76	246	47	11,562	2	South East Sprint Coalition #2
KU8E	JEFF	GA	79	99	71	249	43	10,707	4	South East Sprint Coalition #1
W4WF	CHRIS	FL	86	85	60	231	43	9,933	10	South East Sprint Coalition #1
KQ4R	ED	FL	86	72	56	214	45	9,630	11	
W4NZ	TED	TN	76	91	66	233	41	9,553	14	
N4OX	*JAY	FL	84	71	69	224	42	9,408	4	
AA5JF	ANDY	GA	81	81	56	218	41	8,938	2	South East Sprint Coalition #2
N4DW	*DAVE	TN	67	73	60	200	44	8,800	25	
WF7T	*BRAD	TN	61	89	57	207	42	8,694	55	
KG3V	*TOM	VA	45	52	34	131	39	5,109	8	
ND8L	*RAY	FL	55	67	0	122	41	5,002	2	South East Sprint Coalition #2
N4GO	JAY	KY	12	66	39	117	38	4,446	3	
W4YE	*BUDDY	VA	38	30	40	108	41	4,428	7	
N4OGW	TOR	MS	106	111	89	306	48	14,688	122	South East Sprint Coalition #1
N5RZ	GATOR	TX	105	111	83	299	46	13,754	2	The Zoomers
KZ5D	ART	LA	104	94	72	270	45	12,150	46	South East Sprint Coalition #1
KU5B	*BOB	TX	96	98	66	260	46	11,960	4	
WQ5L	*RAY	MS	98	92	60	250	44	11,000	2	South East Sprint Coalition #2
N5UM	AL	OK	62	78	54	194	42	8,148	2	
K5TR	GEO	TX	55	76	47	178	43	7,654	4	

N5OT	BUZZ	OK	54	70	3	127	42	5,334	2	
N5TJ	JEFF	TX	0	70	24	94	38	3,572	1	
AD5OK	*RUS	OK	34	42	0	76	37	2,812	65	Russell Amateur Radio Club (RARC)
KD2KW	*KEN	TX	0	46	0	46	29	1,334	0	
KA5M	MARSH	LA	0	7	0	7	8	56	0	
N5KO	TREY	CA	118	113	85	316	45	14,220	112	Northern California Contest Club #1
N6TV	BOB	CA	104	110	80	294	48	14,112	62	Northern California Contest Club #1
N5ZO	MARKO	CA	90	108	80	278	47	13,066	66	SCCC #1
AE6Y	ANDY	CA	92	104	69	265	47	12,455	38	Northern California Contest Club #1
N6AA	DICK	CA	102	108	63	273	45	12,285	2	SCCC #1
K6LA	KEN	CA	90	98	72	260	45	11,700	23	SCCC #1
N6ZFO	BILL	CA	95	96	63	254	46	11,684	8	Northern California Contest Club #1
AJ6V	ED	CA	94	95	62	251	45	11,295	2	Northern California Contest Club #2
W6YX	MIKE	CA	100	86	75	261	43	11,223	2	Northern California Contest Club #1
K9YC	JIM	CA	92	74	73	239	42	10,038	2	Northern California Contest Club #2
W9KKN	BILL	CA	71	62	18	151	44	6,644	2	Northern California Contest Club #2
W6SX	HANK	CA	34	71	36	141	39	5,499	2	Northern California Contest Club #2
W4EF	MIKE	CA	29	80	29	138	39	5,382	4	
WX5S	MATT	CA	58	55	9	122	39	4,758	4	Northern California Contest Club #3
N6XI	RICK	CA	65	28	34	127	37	4,699	3	Northern California Contest Club #3
W6RGG	BOB	CA	59	46	0	105	41	4,305	1	Northern California Contest Club #3
WQ6X	*RON	CA	31	30	10	71	27	1,917	5	SCCC #2
NF6R	*BILL	CA	8	30	10	48	23	1,104	2	Northern California Contest Club #3
N6MJ	DAN	CA	0	27	14	41	20	820	1	
N6TTV	CJ	CA	30	0	0	30	25	750	0	Northern California Contest Club #2
N6AN	**REX	CA	0	19	0	19	9	171	0	
W6BBD	*BEN	CA	13	0	0	13	11	143	0	
AH7RF	*HEATHER	HI	1	0	0	1	1	1	0	
N6TR	TREE	OR	111	110	83	304	47	14,288	54	Oregon Sprinters
N9RV	PAT	MT	94	121	82	297	46	13,662	122	Big Sky - Gettin Back On the Horse
N2IC	*STEVE	WY	96	98	67	261	44	11,484	4	GM Gold Miners
K4XU	DICK	OR	72	95	69	236	43	10,148	4	Oregon Sprinters
WS7L	CARL	OR	87	90	48	225	44	9,900	4	Oregon Sprinters
W9CF	*KEVIN	AZ	77	86	51	214	44	9,416	4	AOCC Mavericks
KG7NV	JIM	NV	79	79	54	212	44	9,328	6	SCCC #1
KI7Y	JIM	OR	71	80	51	202	44	8,888	2	Oregon Sprinters
KM9R	*MIKE	NV	66	78	37	181	44	7,964	4	
K7QA	TOM	MT	39	81	65	185	42	7,770	2	Big Sky - Gettin Back On the Horse
K7SS	**LUDDITE	WA	72	67	27	166	41	6,806	2	
AA7V	STEVE	AZ	61	62	20	143	44	6,292	2	AOCC Mavericks
N7JI	*SCOTT	OR	57	63	28	148	40	5,920	7	
W7XT	*DICK	MT	31	50	25	106	37	3,922	3	Big Sky - Gettin Back On the Horse
N7VS	*STEVE	OR	63	31	18	112	33	3,696	2	
AB7R	*GREG	ID	38	51	0	89	40	3,560	1	
N7WY	*BOB	WY	45	43	0	88	37	3,256	1	
KI6RRN/KL7	*AXEL	AK	62	22	1	85	34	2,890	5	SCCC #2
N7MZW	*CHUCK	WY	0	2	0	2	2	4	0	GM Silver Miners
KQ7I	JEFF	OR	1	0	0	1	1	1	0	Oregon Sprinters
NA8V	GREG	MI	87	100	78	265	46	12,190	78	The Zoomers
K8MR	JIM	OH	84	108	83	275	44	12,100	8	NCC+MRRC
KW8N	BOB	OH	81	96	85	262	44	11,528	31	NCC+MRRC
N8EA	*JOE	MI	76	90	75	241	44	10,604	8	
W1NN	*HAL	OH	70	87	77	234	43	10,062	11	NCC+MRRC

W8WTS	*JIM	OH	75	88	72	235	41	9,635	91	NCC+MRRC
K8NZ	*RON	OH	39	78	63	180	37	6,660	6	
K9NW	*MIKE	OH	16	74	14	104	39	4,056	2	
NF8M	*FRANK	MI	0	24	22	46	26	1,196	2	
AF8A	*GARY	OH	33	0	0	33	18	594	0	
W9RE	MIKE	IN	100	124	95	319	46	14,674	111	The Zoomers
K9BGL	KARL	IL	71	90	78	239	43	10,277	30	
N9LQ	JOEL	IL	52	83	70	205	42	8,610	10	
KB9S	*MARK	WI	15	0	0	15	8	120	0	
KØEU	*KEN	CO	96	107	79	282	45	12,690	100	GM Gold Miners
NØNI	MARK	IA	86	112	74	272	45	12,240	94	
NØAX	WARD	MO	91	99	88	278	44	12,232	34	
WØBH	BOB	KS	87	87	77	251	45	11,295	18	
NØAT	*RON	MN	78	97	84	259	42	10,878	10	
KØVBU	BILL	KS	77	89	82	248	43	10,664	6	The Zoomers
NAØN	*PAT	MN	90	92	77	259	41	10,619	90	
K7BG	*MATT	SD	84	84	62	230	41	9,430	2	Big Sky - Gettin Back On the Horse
WØETT	*KEN	CO	39	62	32	133	39	5,187	3	GM Gold Miners
ACØW	*BILL	MN	39	46	45	130	39	5,070	2	
KEØTT	*DAN	MN	54	59	0	113	39	4,407	1	
KØUK	*BILL	CO	41	55	39	135	32	4,320	13	GM Silver Miners
WØZA	*GREG	NE	48	38	29	115	35	4,025	5	GM Gold Miners
NØAC	*ROCKY	CO	42	48	3	93	36	3,348	5	
ABØS	TIM	NE	78	20	0	98	33	3,234	2	
NØTA	JOHN	CO	61	30	0	91	32	2,912	1	GM Silver Miners
KTØAA	*TONY	MO	0	37	15	52	25	1,300	1	
WØXM	BOB	KS	28	0	0	28	17	476	0	
VE3YT	VIC	ON	82	94	77	253	40	10,120	21	
VE7ZO	JIM	BC	72	89	59	220	44	9,680	12	
VE6RST	MAX	AB	78	84	37	199	43	8,557	2	
VA6RCN	*KEVIN	AB	61	47	17	125	39	4,875	14	
XE2F	*RAFA	XE	2	14	0	16	15	240	1	
K9NW	*MIKE	OH	16	74	14	104	39	4,056	2	
NF8M	*FRANK	MI	0	24	22	46	26	1,196	2	
AF8A	*GARY	OH	33	0	0	33	18	594	0	
W9RE	MIKE	IN	100	124	95	319	46	14,674	111	The Zoomers
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KØEU	*KEN	CO	96	107	79	282	45	12,690	100	GM Gold Miners
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KEØTT	*DAN	MN	54	59	0	113	39	4,407	1	
KØUK	*BILL	CO	41	55	39	135	32	4,320	13	GM Silver Miners

WØZA	*GREG	NE	48	38	29	115	35	4,025	5	GM Gold Miners
NØAC	*ROCKY	CO	42	48	3	93	36	3,348	5	
ABØS	TIM	NE	78	20	0	98	33	3,234	2	
NØTA	JOHN	CO	61	30	0	91	32	2,912	1	GM Silver Miners
KTØAA	*TONY	MO	0	37	15	52	25	1,300	1	
WØXM	BOB	KS	28	0	0	28	17	476	0	
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VA6RCN	*KEVIN	AB	61	47	17	125	39	4,875	14	
XE2F	*RAFA	XE	2	14	0	16	15	240	1	