

North American Sprint, CW — February 2021 — Full Results

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The February CW Sprint over the weekend of February 7 started 1 hour earlier than usual to allow more “open band” time on 20 meters for those farther east and north. Activity was historically high with almost everyone at home sheltering in place from the COVID-19 pandemic. For this event, 215 logs — near the all-time high of 227 — were submitted and processed in the secret computer of the Boring, Oregon, club. Fortunately, the contest preceded the Great Polar Vortex Storm, which hit roughly a week later and would have taken out many stations. All we needed were some winterized locusts to add to the misery.

This CW Sprint was a west coast-dominated affair with a two-op shootout between perennial champ N5KO ensconced at the hilltop abode of Dave, W6NL, and Barb, K6BL, above Silicon Valley, and N6TR near Portland, Oregon, returning to form after some antenna issues. Tree had slightly fewer lost QSOs and ended up with a razor-thin victory over Trey with only 1% margin. Seems you must have “TRE” as the first three letters in your name to have the Sprint mojo these days. And congratulations to the Northern California Contest Club Team #1 for the top team finish and all-time 5-station record!

At the finish line were two with identical first-hour tallies, then Tree with a 16-QSO advantage over the middle 2 hours, then hanging on to withstand Trey’s final hour charge of a 13-QSO advantage.

Top 10s

Stations to the west, at least in the Pacific and Mountain time zones, took six of the Top 10 High Power (HP) slots. Kirk, K4RO, near Nashville, Tennessee broke through in fourth place. Randy K5ZD was the easternmost Top 10-er. (*Corrected 4 Mar*) TV Bob, N6TV, notched a Golden Log, with all 362 contacts checking out.



Kirk, K4RO at his station. Note the *NCJ* magazine at his desk. (Photo courtesy Kirk Pickering, K4RO)

Top 10 High Power (HP)

Call Sign	Score	Band Chgs	Mults	QSOs Lost	00Z	01Z	02Z	03Z
N6TR	20,142	107	54	4	108	99	89	77
N5KO	19,980	126	54	8	108	87	85	90
N2IC	18,850	170	50	4	107	94	88	88
K4RO	18,755	158	55	5	92	82	100	67
N6TV	18,462	60	51	0	103	89	85	85
N4OGW	17,755	117	53	3	94	80	92	69
N5RZ	17,550	2	54	7	89	79	69	88
N5ZO	17,524	70	52	4	97	88	78	74
N9RV	17,200	2	50	6	87	88	81	88
K5ZD	17,160	52	54	0	89	83	82	76

The following operators excelled without the usual SO2R multiple band changes and interleaving of QSOs. You can see that seven of the ten made only two band changes: Start on 20, move to 40, and end up on 80. Terrific going! And all with low lost-QSO numbers as well.

Top 10 HP With 12 or Fewer Band Changes

Call Sign	Score	Bnd Chgs	QSOs Lost	00Z	01Z	02Z	03Z
N5RZ	17,550	2	7	89	79	69	88
N9RV	17,200	2	6	87	88	81	88
W2RQ	16,120	4	3	85	77	73	75
K1DG	15,680	4	5	84	73	74	89
N6AA	15,504	2	3	81	81	65	77
AA5B	14,847	2	1	78	74	72	79
KP2M	14,711	2	9	94	81	67	71
KØEJ	14,500	4	5	75	73	74	68
WDØT	14,476	2	5	95	78	73	62
AA7V	14,300	2	8	75	68	65	67

Not to be outdone, the 100-W crowd also made big advances with the category winner, Randy, KØEU, winning by a substantial margin and setting a new state record in the process. He was hotly pursued by Craig, K9CT who squeaked by Lar, K7SV. We note one Golden Logger in this group, with Mr. Ray Rocker at his WQ5L setup in Mississippi. There is a lot of overlap with the low-band-change leaders, as well.

Top 10 Low Power

Call Sign	Score	Bnd Chgs	QSOs Lost	00Z	01Z	02Z	03Z
KØEU	15,582	46	7	73	81	71	69
K9CT	13,769	37	6	76	70	76	59
K7SV	13,158	6	6	67	57	72	62
N7CW	11,891	2	5	69	64	66	54
K6ZH	11,362	4	3	74	56	48	69
WQ5L	11,270	8	0	64	57	56	53
NAØN	11,086	82	2	73	58	70	40
KØVBU	11,040	7	2	61	61	64	44
K7BG	10,620	8	8	78	49	51	58
W8WTS	10,340	96	6	70	58	65	42

Jim, K8MR, sprinting at the station of George, K5KG, in sunny Florida. Note his secret sauce mojo might be found in that can of peanuts! (Photo courtesy Jim Stahl, K8MR)

Top 10 LP with 12 or Fewer Band Changes

Call Sign	Score	Bnd Chgs	QSOs Lost	00Z	01Z	02Z	03Z
K7SV	13,158	6	6	67	57	72	62
N7CW	11,891	2	5	69	64	66	54
K6ZH	11,362	4	3	74	56	48	69
WQ5L	11,270	8	0	64	57	56	53
KØVBU	11,040	7	2	61	61	64	44
K7BG	10,620	8	8	78	49	51	58
K1HT	10,105	2	2	49	60	59	67
K1GU	9,984	2	7	46	53	61	48
KJ9C	9,792	2	9	49	43	52	60
K3UA	9,495	2	0	29	49	69	64

Finally, the courageous and to some, courageously mentally deranged Mighty Mite QRP club, at least those with 30 or more contacts. QRPers took on the challenge, and the Top Five, with 30 or more contacts each, are listed below. Yeah, it got tough on 80 meters.



The (in)famous “DanWA”, K7SS, took the MM prize with 183 contacts. However, he lost one agonizing near-QSO when one hearing-impaired op finally told him “SRI SRI” and his signals just barely failed to make it into your scribe’s receiver. My bad, my friend.

Top Five QRP

<i>Call Sign</i>	<i>Score</i>	<i>Bnd Chgs</i>	<i>QSOs Lost</i>	<i>00Z</i>	<i>01Z</i>	<i>02Z</i>	<i>03Z</i>
K7SS	8,052	4	1	59	42	55	27
K8CN	1,891	14	10	0	8	27	26
KKØU	936	3	6	3	8	6	19
VE6EX	666	2	11	10	0	11	16
N4DW	465	0	1	0	0	7	24

Top Totals

Top 10 QSO Totals

N2IC	377
N6TR	373
N5KO	370
N6TV	362
N9RV	344
K4RO	341
N2NT	340
N5ZO	337
N4OGW	335
K5ZD	330

Top 10 Multipliers

K4RO	55
AE6Y	54
NØAX	54
N5KO	54
N5RZ	54
N6TR	54
NO6T	54
W9RE	54
KØEU	53
N4OGW	53

Top 10 Band Changes

N2IC	170
NO6T	162
K4RO	158
N2NT	147
NO3M	142
N4AF	132
N5KO	126
K5PI	122
N4OGW	117
W9RE	112

Golden Logs

N6TV	362
K5ZD	330
AA3B	301
K5TR	249
WQ5L	230
K3UA	211
N4YDU	62
KG5HVO	24
W7LG	12
NA8Q	1

Band changes are definitely key to making the HP Top 10! With so much fast-paced action, an error-free log is hard to achieve. Any Golden Log of 300 QSOs or more is remarkable, and N6TV may have submitted the largest Golden Log ever with 362 QSOs.

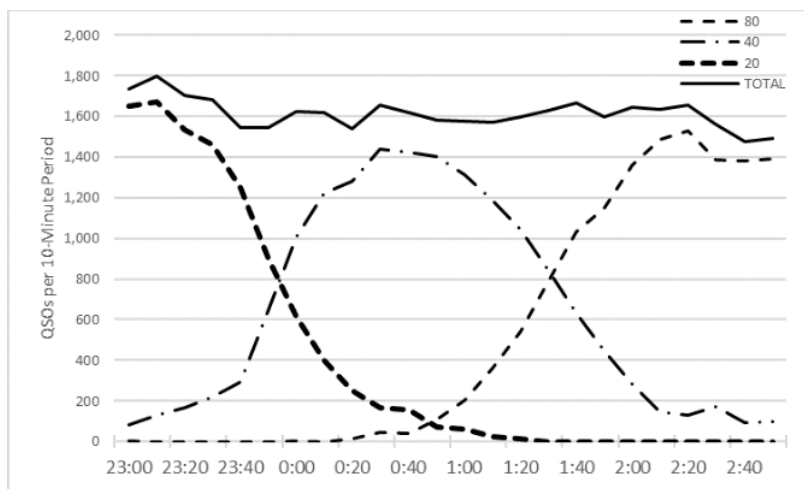
Stations were also active from the four corners of North America: VE9AA, KL7SB, ZF2MJ, and a pair of KH6 stations all turned in good scores. Leaders in the US call districts, Canada, and DX were as follows:

Call Area, Province, and DX Leaders

<i>Call Sign</i>	<i>QTH</i>	<i>QSOs</i>	<i>Mults</i>	<i>Score</i>
K5ZD/1	MA	330	52	17,160
N2NT	NJ	340	50	17,000
NO3M	PA	327	52	17,004
K4RO	TN	341	55	18,755
N2IC/5	NM	377	50	18,850
N5KO/6	CA	370	54	19,980
N6TR/7	OR	373	54	20,142
NA8V	MI	298	52	15,496
W9RE	IN	316	54	17,064
KØRF	CO	324	52	16,848
VE9AA	NB	237	43	10,191
ZF2MJ	ZF	315	51	16,065

Band by Band

Twenty meters was the primary band, even with the 1 hour earlier start, for only an hour and then fell off dramatically. The first 30 minutes were strong, so you had to make hay then. Many in the east had at least 60 contacts on 20, so it is clear the time change had some benefit. But comparing 60-ish contacts on 20 for the east coast with the 100 – 120 tallies from the west coast shows a huge difference in potential. (A short analysis of the effects of moving the start time is available on the CW Sprint web page, ncjweb.com/north-american-sprint.)



The QSO rates per band and per 10-minute segments. [Thanks to Tree for the data and K5OT for plotting assistance]

So, you might ask, what about the hardship of having to operate on 80 meters during daylight for the Pacific Rim group? These east coasters did rack up 100 – 125 contacts on 80 meters, so the nighttime was the right time,

however the west coast ops still made 100 – 110 contacts on that band. All in all, propagation clearly favored the west, with the huge advantage on 20 meter potential. But in the Sprint, “there is no meters like 40 meters.”

New Records

The extra activity from all across the continent is reflected in a full dozen records that fell in the February 2021 contest: KE3X (DC – HP), NO3M (PA – HP), N4OGW (MS – HP), K9CT (IL – LP), KØEU (CO – LP), ABØS (KS – HP), KØVBU (KS – LP), NØAX (MO – HP), VE6EX (AB – QRP), VE9AA (NB – HP), KP2M (operator KT3Y, VI – HP), and ZF2MJ (operator N6MJ, ZF – HP).

Canadian winner from New Brunswick, Mike, VE9AA, has that “I did it!” look. (Photo courtesy, Mike Smith, VE9AA)



Several other records were almost broken, so maybe with a little more participation and improved conditions, those will fall next time. VE6EX now holds all three records in Alberta, by the way. N8EA (MI) and N1LI (operator K1DG, ME) are the only other operators to hold all three records for a single state or province.

A pair of all-time records were equaled or set in February, as well:

- Highest Multiplier: K4RO (55) in a 3-way tie
- Highest 5-Station Team Score: NCCC #1 (84,214)

Three new records were also set in September, but the record table was not updated at that time — apologies from the CW Sprint Manager: N2NL (AL – HP), VE3AMX (ON – QRP), and KH6CJJ (HI – LP). The complete records are available at ncjweb.com/north-american-sprint.

Comments and Observations

Some selected comments from **3830scores.com** and the Soapbox log entries are interesting. Even the superstars had some lumps:

Missed ID and NV. Got beat out in multiple jump balls on each. — *N5KO*

Missed KY? Worked a ton of them in the last contest. — *N6TR*

Several commented on the earlier start time and 80 meter conditions:

I liked the earlier start time, a lot! — *K4RO*

New start time seemed helpful to West Coast stations. 80 meters was much better than expected. — *N6TV*

The earlier start helped on 20. — *N4OGW*

Good thing we started at 2300 Z; 20 was dead by 00 Z here. — *K1DG*

The “diplomatic winner” comment:

Conditions were good. I’m sure monkeying around with starting time helped east coasters as it was intended; maybe it helped us on the west coast even more. I liked this starting time, we got great 20 meter propagation with it, and it reduced importance of 80 meters which is always difficult from here. — *N5ZO*

The “Hey, this sounds like me” comment:

Very frustrating at times. Either I would get beat out when I called someone or call a bunch of CQs without answers. — *K5ZD*

The “Oops, I should have checked on that earlier” comment:

Around 20 minutes in, after losing many jump balls, I realized that one of the 20-meter Yagis I was using was beaming toward VK/ZL. No wonder KH6CJJ was so loud when he called! — *W6YX*

PR and Prognostication

The trends are encouraging. If you would like to see more records fall — perhaps by your own effort — one thing you can do aside from practice is to encourage more of your club members to get on for the Sprint. Maybe there’s a friend’s call sign you haven’t heard sprinting for a while. There’s nothing better than personal encouragement to dust off their QSY skills and make some QSOs. Let’s see if we can’t find a baker’s dozen more logs and set a new participation record.

There were more “high multiplier” totals worked, and this probably is due in part from the active publicity from Ward, NØAX, and others promoting activity in this Sprint. Thanks especially to Art, KZ5D, for publicizing the CW Sprint among the large-and-growing CWops membership. Welcome CWops! The extra activity is, indeed, very encouraging. See you in September.

February 2021 – CW Sprint – Line Scores

* - Low Power, ** - QRP

Call Sign	Name	QTH	20	40	80	QSOs	Mults	Score	Bnd Chgs
K5ZD	RANDY	MA	78	139	113	330	52	17,160	54
K1DG	DOUG	NH	60	139	121	320	49	15,680	4
K1AR	JOHN	NH	46	141	79	266	48	12,768	2
W1WEF	JACK	CT	67	80	103	250	50	12,500	4
K1HT	*DAVE	MA	46	122	67	235	43	10,105	2
W1UJ	*JAY	MA	1	61	86	148	42	6,216	4
K1KI	TOM	CT	74	0	0	74	32	2,368	0
K8CN	**MIKE	NH	1	18	42	61	31	1,891	14
N2NT	ANDY	NJ	63	145	132	340	50	17,000	147
W2RQ	BILL	NJ	72	109	129	310	52	16,120	4
N2NC	JOHN	NJ	42	104	104	250	50	12,500	6
K2UA	RUS	NY	65	90	97	252	47	11,844	2
N2ZN	KEN	NY	54	99	98	251	47	11,797	2
NS2N	*PAUL	NY	17	54	62	133	40	5,320	3
K9GY	LORAX	NY	19	66	19	104	38	3,952	4
W2LC	*SCOTT	NY	16	34	56	106	36	3,816	2
WB2PJH	DAVE	NJ	0	5	0	5	4	20	0
NO3M	TY	PA	74	141	112	327	52	17,004	142
AA3B	BUD	PA	65	127	109	301	45	13,545	90
N3QE	TIM	MD	56	120	108	284	47	13,348	16
K3TN	JOHN	MD	42	99	116	257	47	12,079	2
W2GD	JOHN	PA	50	84	115	249	46	11,454	2
K3LR	TIM	PA	83	76	81	240	44	10,560	2
K3UA	*PHIL	PA	22	63	126	211	45	9,495	2
WW3S	JIM	PA	36	58	64	158	41	6,478	4
WA3AAN	GRANT	PA	16	59	57	132	42	5,544	2
KE3X	KEN	DC	46	17	70	133	38	5,054	4
N8NA	*KARL	DE	0	60	37	97	35	3,395	1
NJ3K	*BRUCE	PA	0	53	47	100	33	3,300	1
N3SD	*GREG	PA	0	16	73	89	37	3,293	1
N4ZR	PETE	MD	32	0	0	32	14	448	0
AG3I	*MARTY	PA	0	0	13	13	12	156	0
W7LG	**MIKE	PA	2	8	2	12	8	96	2
K4RO	KIRK	TN	77	138	126	341	55	18,755	158
N4AF	AL	NC	81	123	115	319	51	16,269	132
KØEJ	MARK	TN	73	109	108	290	50	14,500	4
K4BAI	JOHN	GA	48	118	118	284	48	13,632	2
K7SV	*LAR	VA	57	82	119	258	51	13,158	6
N2NL	DAVE	AL	80	109	95	284	46	13,064	2
K8MR	JIM	FL	69	133	64	266	49	13,034	10
K4ZW	KEN	VA	58	111	107	276	47	12,972	92
W4WF	CHRIS	FL	58	110	83	251	49	12,299	2
N4ZZ	DON	TN	44	111	95	250	49	12,250	26
W4NZ	TED	TN	45	95	99	239	47	11,233	25
KU8E	JEFF	GA	34	89	109	232	46	10,672	13
N4OX	JAY	FL	62	95	75	232	46	10,672	2
K1GU	*NED	TN	51	72	85	208	48	9,984	2
W8FN	RANDY	NC	22	78	104	204	43	8,772	4
K4OAQ	*FRITZ	VA	42	51	93	186	43	7,998	2
N5TOO	VAN	GA	29	80	50	159	41	6,519	2
AA5JF	ANDY	GA	29	57	59	145	40	5,800	2
N4CF	MIKE	VA	29	40	67	136	42	5,712	10
N2YO	*CHIP	VA	5	58	68	131	42	5,502	3
KG3V	*TOM	VA	3	51	55	109	40	4,360	4
NA4J	JIM	NC	5	50	60	115	37	4,255	5
K2SX	DENNIS	SC	54	58	0	112	37	4,144	1
N3CKI	*DAVE	NC	16	38	29	83	37	3,071	5
NK4O	*AJ	FL	42	32	13	87	34	2,958	4
N4YDU	NATE	NC	10	45	7	62	31	1,922	2
N4OI	KEN	NC	0	31	34	65	29	1,885	1
AC6ZM	JUAN	TN	0	48	12	60	26	1,560	1
N4CWZ	*DAVE	NC	0	8	45	53	29	1,537	1
K3PI	*RUSS	NC	0	20	22	42	25	1,050	2

W4PA	*SCOTT	TN	14	31	0	45	20	900	20
K3SV	*BILL	FL	1	26	0	27	17	459	2
KG5HVO	*BRYANT	AL	0	0	24	24	17	408	0
AF4T	*DOUG	TN	0	0	20	20	18	360	0
K4PQC	*PHIL	GA	5	17	6	28	10	280	2
W1AJT	ART	NC	0	18	0	18	15	270	0
W4ER	**JOHN	AL	0	14	0	14	13	182	0
N2IC	STEVE	NM	119	146	112	377	50	18,850	170
N4OGW	TOR	MS	82	144	109	335	53	17,755	117
N5RZ	GATOR	TX	99	127	99	325	54	17,550	2
K5PI	ROB	TX	89	137	83	309	51	15,759	122
K5GN	DAVE	TX	100	125	89	314	49	15,386	80
AA5B	BRUCE	NM	94	118	91	303	49	14,847	2
KZ5D	ART	LA	74	120	101	295	49	14,455	105
N3BB	JIM	TX	100	93	102	295	47	13,865	48
K5TR	GEO	TX	76	101	72	249	51	12,699	4
WQ5L	*RAY	MS	63	86	81	230	49	11,270	8
N5UM	AL	OK	56	99	100	255	41	10,455	4
N5DO	*DAVE	TX	49	49	35	133	42	5,586	10
KØNM	NIZ	TX	32	73	0	105	36	3,780	1
N5EE	*KEN	AR	0	26	53	79	39	3,081	1
KG5U	*DALE	TX	0	0	65	65	31	2,015	0
K5GQ	*MARK	TX	7	39	16	62	29	1,798	4
N5OT	MARK	OK	21	25	6	52	25	1,300	2
KB5RF	*TOM	TX	4	15	4	23	16	368	2
N5KO	TREY	CA	124	145	101	370	54	19,980	126
N6TV	BOB	CA	116	139	107	362	51	18,462	60
N5ZO	MARKO	CA	111	119	107	337	52	17,524	70
NO6T	AL	CA	94	143	78	315	54	17,010	162
W6YX	MIKE	CA	124	133	59	316	52	16,432	42
AE6Y	ANDY	CA	113	129	56	298	54	16,092	42
N6AA	DICK	CA	104	129	71	304	51	15,504	2
N6ZFO	BILL	CA	90	114	78	282	50	14,100	4
WD6T	DAVE	CA	86	120	81	287	48	13,776	83
K6LA	KEN	CA	99	104	86	289	46	13,294	4
W6SX	HANK	CA	72	111	93	276	48	13,248	4
K9YC	JIM	CA	76	108	88	272	47	12,784	2
W4EF	MIKE	CA	92	95	84	271	46	12,466	2
AJ6V	ED	CA	100	93	58	251	48	12,048	2
K6ZH	*JIM	CA	72	105	70	247	46	11,362	4
N3ZZ	TOM	CA	78	93	76	247	46	11,362	2
AC6T	STEVE	CA	54	102	84	240	46	11,040	2
W1RH	BOB	CA	44	80	53	177	45	7,965	2
WØYK	ED	CA	34	106	50	190	41	7,790	2
N6AN	*REX	CA	45	57	33	135	42	5,670	8
K6KM	ROB	CA	30	53	5	88	33	2,904	4
N6XI	RICK	CA	76	6	0	82	35	2,870	1
W6RGG	BOB	CA	37	48	0	85	33	2,805	1
KH6CJJ	*KENT	HI	68	16	0	84	31	2,604	1
K6LRN	DICK	CA	65	0	0	65	35	2,275	0
WA6URY	DAN	CA	21	44	13	78	29	2,262	2
AH6KO	*STAN	HI	65	0	0	65	32	2,080	0
N6TVN	CARL	CA	35	25	0	60	31	1,860	1
AA6W	*DON	CA	27	28	0	55	28	1,540	2
K6NV	BOB	CA	7	25	20	52	22	1,144	2
WQ6X	RON	CA	1	38	0	39	26	1,014	1
K6XX	BOB	CA	3	38	0	41	20	820	1
NE6I	DENNIS	CA	4	16	0	20	11	220	3
WU6P	*NIAN	CA	4	0	0	4	4	16	0
K6MI	*JOHN	CA	1	1	1	3	3	9	2
N6TR	TREE	OR	111	153	109	373	54	20,142	107
N9RV	PAT	MT	112	129	103	344	50	17,200	2
AA7V	STEVE	AZ	90	102	83	275	52	14,300	2
K4XU	DICK	OR	78	121	93	292	47	13,724	12
K6LL	DAVE	AZ	110	128	54	292	47	13,724	2
K7RL	MITCH	WA	88	106	72	266	48	12,768	75
KY7M	LEE	AZ	75	91	102	268	45	12,060	2

WJ9B	WILL	ID	78	104	84	266	45	11,970	2
N7CW	*BUD	AZ	65	101	87	253	47	11,891	2
WS7L	CARL	OR	98	107	50	255	45	11,475	2
K7QA	TOM	MT	70	87	88	245	46	11,270	2
K2PO	BILL	OR	79	108	41	228	48	10,944	2
N6VR	RAY	AZ	64	79	71	214	48	10,272	4
KL7SB	STEVE	AK	114	79	14	207	45	9,315	8
KI7Y	JIM	OR	54	111	40	205	45	9,225	2
K7SS	**DAN	WA	74	95	14	183	44	8,052	4
K9JF	JIM	WA	71	54	31	156	48	7,488	2
W9CF	*KEVIN	AZ	33	83	32	148	40	5,920	4
W7OM	*ROD	WA	55	66	18	139	40	5,560	2
N7DX	*TONY	WA	46	69	25	140	39	5,460	4
KE6K	*JOHN	AZ	46	46	6	98	39	3,822	2
NG7Z	*PAUL	AZ	34	57	24	115	32	3,680	2
KQ7I	JEFF	OR	22	44	31	97	34	3,298	2
KA6BIM	*DAVE	OR	24	53	13	90	34	3,060	2
K2RD	IRA	NV	63	0	0	63	32	2,016	0
K7NEW	*MARK	WA	32	33	0	65	30	1,950	1
KM7W	*CHRIS	MT	33	8	0	41	25	1,025	1
K7XC	*TIM	NV	31	0	0	31	27	837	0
KN7T	*MARK	WA	0	0	37	37	21	777	0
AC7AF	*BRIAN	WY	18	10	0	28	18	504	1
N4DW	**DAVE	AZ	0	31	0	31	15	465	0
NN7SS	**BURT	WA	11	8	3	22	19	418	10
WC7S	**DALE	WY	0	2	0	2	1	2	1
K7YIC	*BILL	OR	0	0	-1	-1	0	0	0
NA8V	GREG	MI	65	116	117	298	52	15,496	18
KW8N	BOB	OH	67	114	97	278	49	13,622	12
W3YQ	TIM	WV	44	79	107	230	49	11,270	10
W8WTS	*JIM	OH	45	99	91	235	44	10,340	96
ND8L	*RAY	OH	56	58	80	194	43	8,342	4
K3JT	TERRY	WV	50	87	50	187	43	8,041	2
N8EA	JOE	MI	0	0	131	131	47	6,157	0
W3USA	*HAL	OH	0	0	66	66	34	2,244	0
NF8M	*FRANK	MI	11	19	42	72	24	1,728	2
K8NZ	*RON	OH	16	31	6	53	25	1,325	5
WB2RPW	GARY	OH	0	29	0	29	16	464	0
NA8Q	ROB	OH	0	1	0	1	1	1	0
W9RE	MIKE	IN	76	131	109	316	54	17,064	112
K9CT	*CRAIG	IL	57	111	113	281	49	13,769	37
WT9U	JIM	IN	63	77	132	272	49	13,328	30
K9BGL	KARL	IL	70	99	101	270	48	12,960	10
K9NW	MIKE	IN	34	72	113	219	48	10,512	4
NN1N	DAVE	IL	38	112	60	210	49	10,290	4
KJ9C	*MEL	IN	56	57	91	204	48	9,792	2
AG9A	*MARK	IL	39	76	86	201	45	9,045	12
N4BAA	*JOSE	IN	29	78	83	190	47	8,930	39
WI9WI	*JIM	WI	49	57	42	148	41	6,068	2
KB9OWD	*RYAN	WI	31	45	23	99	34	3,366	3
WT2P	*CJ	IL	15	12	25	52	27	1,404	2
KD9MS	*CRAIG	IL	10	0	0	10	6	60	0
KØRF	CHUCK	CO	88	125	111	324	52	16,848	111
NØAX	WARD	MO	79	117	105	301	54	16,254	46
KØEU	*KEN	CO	88	114	92	294	53	15,582	46
WDØT	TODD	SD	74	109	125	308	47	14,476	2
ABØS	TIM	KS	54	138	92	284	47	13,348	2
WØUA	GEO	CO	71	116	82	269	47	12,643	2
NØTA	JOHN	CO	57	102	97	256	46	11,776	2
NAØN	*PAT	MN	56	106	79	241	46	11,086	82
KØVBU	*BILL	KS	36	81	113	230	48	11,040	7
K7BG	*MATT	SD	85	74	77	236	45	10,620	8
KTØA	GARY	SD	52	67	79	198	45	8,910	5
WØBH	BOB	KS	21	68	81	170	43	7,310	5
WØAAE	*BOB	MN	5	78	66	149	42	6,258	9
WØETT	KEN	CO	22	75	62	159	39	6,201	3
WØCO	*BRAD	CO	32	74	35	141	40	5,640	2

N7WY	*BOB	MO	37	69	40	146	37	5,402	2
NØAT	*RON	MN	29	50	32	111	42	4,662	6
KØUK	*BILL	CO	40	51	10	101	36	3,636	15
N9HDE	*SCOTT	IA	0	56	20	76	32	2,432	3
NØAC	*BILL	IA	24	25	8	57	22	1,254	7
KKØU	**JIM	MO	1	16	19	36	26	936	3
WØZA	*GREG	CO	8	22	7	37	21	777	6
WØPSY	MARVIN	CO	6	1	0	7	7	49	1
ZF2MJ	DAN	ZF	118	127	70	315	51	16,065	70
KP2M	PHIL	KP2	108	133	72	313	47	14,711	2
NP2X	ED	KP2	83	122	78	283	48	13,584	2
VE9AA	MIKE	NB	21	100	116	237	43	10,191	2
VE3YT	VIC	ON	38	58	92	188	44	8,272	10
VE5MX	TODD	SK	16	43	0	59	30	1,770	1
VE3FU	*CHRIS	ON	13	35	0	48	21	1,008	5
VA7KH	*STEVE	BC	16	20	0	36	21	756	5
VE6EX	**DAN	AB	10	14	13	37	18	666	2
VA3DKL	*DAVE	ON	0	7	3	10	10	100	2

Team Scores

1. NCCC #1

N5KO	19,980
N6TV	18,462
W6YX	16,432
AE6Y	16,092
W6SX	13,248
Total	84,214

2. SCCC #1

N5ZO	17,524
NO6T	17,010
ZF2MJ	16,065
N6AA	15,504
K6LA	13,294
Total	79,397

3. Team Hiram

K5ZD	17,160
N2NT	17,000
KW8N	13,622
N2NL	13,064
K5TR	12,699
Total	73,545

4. AOCC Coyotes

N2IC	18,850
AA7V	14,300
K6LL	13,724
N4ZZ	12,250
N6VR	10,272
Total	69,396

5. CTDXCC Salsa Roja	N5RZ, K5PI, KZ5D, N3BB, N5DO	67,215
6. GM Ski Racers	KØRF, KØEU, WØUA, NØTA, KTØA	65,759
7. Rocking with RQ	W2RQ, K1AR, N2NC, K2UA, W2GD	64,686
8. SMC Early Birds - Falcons	W9RE, NØAX, K9CT, K9BGL, K9GY	63,999
9. PVRC Potomac	N3QE, K7SV, K4ZW, K3TN, WJ9B	63,527
10. SSC #1	K4BAI, W4WF, KU8E, N4OX, W8FN	56,047
11. TCG	K4RO, KØEJ, W4NZ, K1GU, AC6ZM	56,032
12. NCCC #2	N6ZFO, K9YC, AJ6V, N3ZZ, K6KM	53,198
13. Big Sky Contesters	N9RV, K7QA, K7BG, KJ9C, KM7W	49,907
14. All Eights	NA8V, K8MR, W8WTS, ND8L, K8NZ	48,537
15. Oregon CV19	K4XU, WS7L, K2PO, KI7Y	45,368
16. YCCC	K1DG, W1WEF, N2ZN, K1KI	42,345
17. All Threes	W3YQ, K3LR, K3UA, WW3S, N3SD	41,096
18. CODE GUYS	NP2X, K9NW, N5UM, NS2N	39,871
19. AOCC Roadrunners	KY7M, N7CW, W9CF, KE6K, NG7Z	37,373

20. SCCC #2	W4EF, K6ZH, AC6T, NE6I	35,088
21. SMC Early Birds - Kestrels	NN1N, AG9A, WI9WI, KKØU	26,339
22. Oregon Isolation	N6TR, KQ7I	23,440
23. TDXS	K5GN, KØNM, KG5U, K5GQ	22,979
24. NCCC #3	WD6T, W6RGG, K6LRN, AA6W, K6XX	21,216
25. SSC #2	AA5JF, K2SX, NK4O, K4PQC	13,182
26. PVRC Chesapeake	N4CF, KG3V, K3PI, N4ZR	11,570
27. GM Snowboarders	WØETT, KØUK, WC7S	9,839
28. GM Speed Skaters	WØCO, KH6CJJ, WØZA, WØPSY	9,070
29. CTDXCC Salsa Verde	KB5RF	368