

Results: North American Sprint CW — February 2017

The 80th running of the CW Sprint was the first since the new multiplier list changes went into effect, and this resulted in more multipliers for many stations. There were three full-time efforts from the Caribbean by KP2M (KT3Y, op), NP2X (K9VV, op), and ZF2BJ (KØBJ, op), and one from Hawaii by KH6TU (AD6E, op). You may have also been lucky enough to pick up a contact with Chik, HI8A.

This time we received 168 logs, including six from Canada, four from the Caribbean, and one from Europe. Seventeen stations reached the 300-contact threshold, and two stations managed to notch 50 multipliers.

Being February, conditions on 20 meters were down, with only six stations managing 100 QSOs or more. Again, 40 meters was the money band. Twenty-three stations made it over the 100-QSO mark on 80. Jim, N3BB, was the only station to make 100 contacts on each of the three bands.

High Power

The clear winner in the High Power section was defending Sprint champion and three-time winner Pat, N9RV, who finished tops in QSOs, with 365 and in multipliers, with 51. Behind Pat was Trey, N5KO, who finished second in both QSOs and multipliers with 352 and 50, respectively, operating atop Mt Leeson. Strangely, 14 out of the past 15 Sprints have been won by N9RV, N2IC, and N5KO.

In 3rd place was Bob, N6TV, while in the battle for 4th place, Dan, N6MJ, pipped Tor, N4OGW, by finding an extra multiplier to offset Tor's seven QSO advantage. The

second five was comprised of K4RO, W9RE, NO3M, N3BB, and K5WA.

It's interesting to note that of the top 20 finishers, seven were in the Pacific time zone, one in the Mountain time zone, four

in the Central time zone, and eight in the Eastern time zone.

As has been the case in recent years, the Top 10 was dominated by stations using SO2R techniques, where while contact-

Team Scores

1. NCCC #1	2. Ad Hoc	3. SCCC #1	4. PVRC Sprinters
N5KO 17,600	K4RO 15,886	N6MJ 16,224	K3TN 13,301
N6TV 16,758	W9RE 15,364	N5ZO 14,352	N3QE 13,254
W6YX 14,476	NO3M 15,216	K6NA 13,202	N1LN 12,558
N6RO 14,040	N4AF 13,846	K6LA 12,232	K7SV 11,352
N3ZZ 10,962	W4OC 12,285	W6UE 7,840	WJ9B 10,384
Total 73,836	Total 72,597	Total 63,850	Total 60,849
5. NCCC #2	K6XX, K6MR, K9YC, AJ6V, K6SRZ		58,140
6. Ariz Bad Boys	N7CW, K6LL, K4XU, N6VR, AA7V		57,800
7. Five Land Roamers	N4OGW, N3BB, KZ5D, W5KFT		57,509
8. SE Coalition #1	K4BAI, KU8E, N4OX, NP2X, N4WW		55,638
9. NCC MRRC North	K5ZD, N8EA, K1DG, NA8V, K1AR		54,550
10. Big Sky Contesters	N9RV, K7BG, KJ9C, KE7X, K7JR		44,693
11. NCC MRRC South	KW8N, W8WTS, W1NN, K8MR, NW2K		41,015
12. NCC MRRC West	NØAX, N5OT, K9NW, W9PA, AJ8B		38,323
13. NCC MRRC East	K3LR, W3YQ, K3UA, N3SD, N2NC		37,825
14. NCCC #3	N6ZFO, W6OAT, NA6O, W6CT, KH6TU		37,309
15. Five Land Racers	K5TR, KG5U, AC4CA, K8LS, N9NM		36,954
16. TCG	KØEJ, W4NZ, K1GU		36,697
17. GM Ski Country	KØRF, WØETT, WØCO, KØUK, K6XT		32,726
18. Flying Clouds	K1KI, W1UJ, W1WEF		28,011
19. NCCC #4	W6SX, K6AW, NN7SS, K6MM, K6CSL		26,596
20. FENDER	K5WA, WQ5L, N5QQ		26,055
21. PVRC 2	KP2M, KE3X, KG3V, K8GU		25,631
22. GRETSCH	K5CI, N5RZ, W2RQ, KØNM		24,450
23. SE Coalition #2	N4IQ, WI9WI, WH6YH, K5ZM, W2GDJ		21,565
24. GM Ski Racing	KTØA, ZF2BJ, NØTA, KØGUZ		20,536
25. Oregon Slug	N6TR, W7WHY		17,814
26. Ariz Renegades	W9CF, NG7Z, N9NA		14,562
27. SMC Team PHIL	W9SMC, K9GY, WB9HFK, WT2P, K9KM		13,597
28. PVRC 3	N4CF		3,885
29. SCCC #2	N6AA		90

Top 10 QSO Totals

N9RV	365
N5KO	352
N4OGW	345
N6TV	342
K4RO	338
N3BB	338
N6MJ	338
W9RE	334
NO3M	317
K6XX	313

Top 10 Multipliers

N9RV	51
N5KO	50
N6TV	49
KØEJ	48
N5ZO	48
N6MJ	48
NO3M	48
AA3B	47
K1KI	47
K3TN	47

Golden Logs

K5TR	294
N6ZFO	239
NAØN	222
W9CF	189
N5RZ	180
K9NW	175
K8MR	153
NW2K	80
K7JR	76
N2NC	44
HI8A	28
AF5CC	14
KC5DCT	3
W6RGG	1

Top 10 Band Changes

K4RO	176
N9RV	172
W9RE	162
N4OGW	156
N5KO	146
NO3M	146
K5WA	134
AA3B	132
N3BB	128
N8NA	127

Guest Ops

CG3KI (VE3KI)
K5AND (K5TR)
K5TR (K5OT)
K7JR (KL9A)
KC2GFA
(W2LC)
KE3X (@N4RV)
KH6TU (AD6E)
KP2M (KT3Y)
N4WW (WF3C)

N5KO (@W6NL)
NP2X (K9VV)
W5KFT (K5PI)
W6CT (@K6EU)
W6UE (N6AN)
W6YX (N7MH)
W9SMC (K9PG)

ing a station on one band they will be hunting for new stations to work on (most likely) another band on a second radio. Dan, N6MJ, is an expert practitioner of this technique, but seeing as how he is a tall guy we like to complain that his long wingspan gives him an unfair advantage, because he can reach radios and rotator controls and keyboards better than the rest of us.

We are not able to use that as an excuse this time, though, because Dan made his 338 QSOs while making only two band changes. He started the contest on 20 meters, moved to 40 meters at 0136 UTC, and then to 80 meters at 0303. Fantastic! By comparison, N9RV made his first QSOs on 40 meters at 0003 and on 80 meters at 0202, and N5KO made his at 0021 and 0209 UTC. N6TV made his first two QSOs of the contest on 40, and made his first 80-meter QSO at 0213, when he worked N9RV.

Low Power

The Low Power competition resulted in a tie between Don, W4OC, and Todd, WDØT, reporting identical scores of 273 QSOs and 45 multipliers, followed closely by Ward, NØAX with 275/44. Finishing out the Low Power Top 10 were K7BG, K7SV, WQ5L, W8WTS, KG5U, N6ZF0, and K1GU. Special kudos to Lar, K7SV; Ray, WQ5L; Dale, KG5U, and Ned, K1GU for making the Low Power Top 10 box while making 10 or fewer band changes.

QRP

There were 10 stations in the QRP category this time, resulting in a five-way battle at the top among K5NZ, K8MR, KE3X, NN7SS, and W7Yaq. When the dust settled, Ken, KE3X, was on top, piloting the N4RV station to victory.

Team Competition

Beginning with the February 2017 Sprint, the team competition structure was changed from 10-person teams to 5-person teams, resulting in 27 teams being active this time. The top-scoring team this time was a club effort from Northern California Contest Club #1, consisting of N5KO, N6TV, W6YX, N6RO, and N3ZZ, who just barely eked out victory over the 2nd place Ad Hoc team manned by K4RO, W9RE, NO3M, N4AF, and W4OC. Following them in the team standings were the efforts of Southern California Contest Club #1, PVRC Sprinters, NCCC #2, and Arizona Bad Boys.

Golden Logs

Larry, K5OT, produced the top Golden Log, operating from the K5TR station in Central Texas. Larry made 294 QSOs without a single score reduction during the log-checking process. Bill, N6ZF0, and Pat, NØN, also achieved this at the 200+ QSO level. Others in the Golden Log club this time were W9CF, N5RZ, K9NW, K8MR, NW2K, K7JR (KL9A, op), N2NC, HI8A, AF5CC, KC5DCT, and W6RGG — 14 ops total. Strong work, gentlemen!

If you would like to know what deductions were made from your score, you can get a copy of your log check report. Armed with this information, you can challenge yourself to improve on your accuracy in the next event. E-mail tree@kkn.net to obtain your report. Make sure to include the call sign you used in the contest.

Records

Six new records were set this time around, and the change in the multiplier status of certain locations caused some legacy records off the books to make room for some new ones. Al, AD6E, set the new all-time Hawaii record at the controls of KH6TU. We note that this is the *all-time high score for Hawaii, legacy or otherwise*. Bob, KH6BE, set the initial mark for the Hawaii QRP section. Scott, MMØLID, submitted the first-ever score from Scotland, and Mike, VE9AA, submitted the first-ever score from the newly minted New Brunswick multiplier. K8MR eclipsed the old Florida QRP mark, and VE6EX established a new QRP record from Alberta.

Top 10 Scores

Call Sign	Score	Bnd Chg	Qs Lost	00Z	01Z	02Z	03Z
N9RV	18,615	172	7	114	81	97	73
N5KO	17,600	146	5	109	87	83	73
N6TV	16,758	99	4	111	81	77	73
N6MJ	16,224	2	2	96	70	80	92
N4OGW	16,215	156	5	103	81	93	68
K4RO	15,886	176	1	100	83	87	68
W9RE	15,364	162	5	92	87	88	67
NO3M	15,216	146	6	99	76	82	60
N3BB	15,210	128	5	110	81	79	68
K5WA	14,664	134	5	91	80	77	64

Top 10 High Power (Max 12 Band Changes)

Call Sign	Score	Bnd Chg	Qs Lost	00Z	01Z	02Z	03Z
N6MJ	16,224	2	2	96	70	80	92
KØEJ	14,160	3	1	78	79	74	64
K3LR	14,030	2	4	78	80	70	77
K4BAI	13,892	2	2	74	77	78	73
K6XX	13,772	12	3	77	89	74	73
N7CW	13,724	2	4	73	76	66	77
K6MR	13,536	10	8	87	73	67	61
K3TN	13,301	2	8	74	83	63	63
K6NA	13,202	5	1	75	86	68	58
K6LL	13,200	2	3	79	72	67	82

Top 10 Low Power

Call Sign	Score	Bnd Chg	Qs Lost	00Z	01Z	02Z	03Z
W4OC	12,285	66	4	79	62	78	54
WDØT	12,285	36	2	85	59	71	58
NØAX	12,100	17	2	69	75	60	71
K7BG	11,439	18	3	83	73	62	61
K7SV	11,352	10	19	66	72	60	60
WQ5L	10,575	4	3	42	67	65	61
W8WTS	10,120	98	8	65	62	50	53
KG5U	10,105	8	2	54	49	65	47
N6ZF0	10,038	14	0	61	61	62	55
K1GU	9,933	2	4	49	63	59	60

Top 10 Low Power (Max 12 Band Changes)

Call Sign	Score	Bnd Chg	Qs Lost	00Z	01Z	02Z	03Z
K7SV	11,352	10	19	66	72	60	60
WQ5L	10,575	4	3	42	67	65	61
KG5U	10,105	8	2	54	49	65	47
K1GU	9,933	2	4	49	63	59	60
NØAT	9,307	6	6	55	69	49	54
W6OAT	8,775	2	8	56	48	52	39
K9NW	7,875	8	0	60	51	32	32
K3UA	7,783	2	4	49	19	63	50
N5RZ	7,740	2	0	53	34	66	27
W9CF	7,182	2	0	44	59	43	43

Top 10 QRP

Call Sign	Score	Bnd Chgs	Qs Lost	00Z	01Z	02Z	03Z
KE3X	7,869	10	4	46	52	47	38
K5NZ	6,880	52	5	56	38	26	40
K8MR	6,273	14	0	39	45	39	30
W7Yaq	5,421	7	3	31	40	41	27
NN7SS	5,270	6	3	53	36	37	29
K8CN	2,408	9	13	30	27	9	20
K6XT	1,025	2	1	0	15	22	4
KØGUZ	300	1	22	7	3	8	2
VE6EX	108	2	9	0	6	7	5
KH6BE	49	0	2	2	5	0	0

Next Time

Mark your calendars for the next CW Sprint, coming up on September 10 UTC (Saturday September 9 in North American time zones). The starting time is 0000 UTC and you may operate for the 240 minutes from 0000 to 0359 UTC inclusive. For team registration, visit the *NCJ* website at <http://ncjweb.com>. Submit logs via e-mail to cwsprint@kkn.net or use the log submission form on the *NCJ* website. Logs are due 7 days after the contest! Final scores are typically posted within 2 weeks of the contest and posted on the *NCJ* website.

Soapbox

Twenty was long at start, then got short after everyone left. Eighty was great, but kept getting beat out all the time! — *K5ZD*

Really rough. — *K6CSL*

QRP, K3 at 5 W, 43-foot wire vertical at the edge of Sarasota Bay. — *K8MR*

Fun while it lasted. — *K9GY*

My score might not reflect it, but doing NS Sprint most weeks sure makes this seem easier. — *KW8N*

Surprisingly good conditions on all bands, and 20 hung there a lot longer than I expected. Had some of the best rate on 80 in the last hour and lots of QSOs on 40 meters. Surprised to get called by ZF9CW on 80 and the two KP2s were quite loud. Nice not to have a lot of storm noise there. — *NØAX*

All-Time CW Sprint Records

Category	Total	Call Sign	Date
Highest multiplier	55	K9AA (K9PG)	Feb 2000
Highest QSO total	428	N6TR/7	Feb 2005
Highest score	21,816	K4AAA (W4AN)	Sep 2003
Highest team score (10)	163,373	SCCC #1	Feb 2002
Highest team score (5)	73,836	NCCC #1	Feb 2017
Highest Low Power	17,050	N6MJ (@W6KP)	Feb 2004
Highest QRP	10,800	K7RI (K7SS)	Feb 2002
Logs received	227		Feb 2004
Number golden logs	18		Feb 2008
Number logs with 300 QSOs	52		Feb 2003

Between the VT QSO Party, the BC QSO Party, and the FOC Marathon, the Sprint is getting crowded out! — *N6TV*

Eighty meters was as good as I have ever heard it from here. — *N9RV*

I was tired from being out all day at CERT Training. But, I kicked back on one radio and let the Qs flow. My keying speed started varying after *Windows* did something, a reboot fixed it. My 40 meter antenna relay is still flaky until the contacts get wiped enough to get clean. Other than that, 20 died so soon, and 40 cleared out quickly, leaving only 80 QRP. Yuck! So many loud guys couldn't hear me at all, others copy everything in first pass; good ears! — *NN7SS*

Remote from Tokyo. — *W1NN*

Despite a non-functioning 40-meter main antenna, a 12-hour work day which ran into the first 2 hours precluding any 20 meter operation, and my Titan amp shutting down upon first key down, I ended up enjoying this contest. — *W2RQ*

One last Sprint from the decades old CITARC Shack. Engineering & Applied Sciences no longer wants us in their buildings! — *W6UE (N6AN, op)*

Super activity, the best 4 hours in contesting around! — *W9RE*

Operated remote from Tokyo, Japan. — *WA6URY*

Twenty died here within about 20 minutes, 40 was pretty awful, 80 was noisy. What's not to love? — *WW1ME*

Scoring Summary (Scores in boldface are new records)

Call Sign	Name	QTH	20	40	80	QSO	Mlt	Score	Bnd Chg	Team	Call Sign	Name	QTH	20	40	80	QSO	Mlt	Score	Bnd Chg	Team	
K1KI	TOM	CT	87	117	105	309	47	14,523	36	Flying Clouds	K4ORD	*RILEY	VA	32	37	58	127	37	4,699	2		
K5ZD	RANDY	MA	80	109	117	306	47	14,382	46	NCC MRRC North	KG3V	*TOM	VA	12	54	51	117	38	4,446	4	PVRC 2	
K1DG	DOUG	NH	94	81	97	272	42	11,424	2	NCC MRRC North	WH6YH	*MIKE	GA	21	55	40	116	35	4,060	3	SE Coalition #2	
W1UJ	*JAY	MA	44	106	66	216	43	9,288	89	Flying Clouds	N4CF	*MIKE	VA	4	58	49	111	35	3,885	2	PVRC 3	
K1AR	JOHN	NH	24	65	98	187	40	7,480	2	NCC MRRC North	K4MX	*JERI	VA	9	49	38	96	37	3,552	9		
W1WEF	JACK	CT	24	44	37	105	40	4,200	4	Flying Clouds	W7IY	STU	VA	0	77	8	85	31	2,635	2		
WW1ME	*RICK	ME	2	40	68	110	38	4,180	2		W2GDJ	*DAVE	NC	0	44	19	63	29	1,827	1	SE Coalition #2	
K8CN	**MIKE	NH	20	44	22	86	28	2,408	9		N4DW	DAVE	TN	0	0	33	33	22	726	0		
W1JQ	*MIKE	CT	4	30	13	47	25	1,175	6													
WW2Y	PETER	NJ	20	61	64	145	40	5,800	4		N4OGW	TOR	MS	98	139	108	345	47	16,215	156	Five Land Roamers	
W2RQ	BILL	NJ	0	44	93	137	42	5,754	1	GRETSCHE	N3BB	JIM	TX	100	131	107	338	45	15,210	128	Five Land Roamers	
N2ZN	KEN	NY	24	85	0	109	38	4,142	1		K5WA	BOB	TX	82	134	96	312	47	14,664	134	FENDER	
NW2K	*DEAN	NY	0	50	30	80	29	2,320	1	NCC MRRC South	K5TR	GEO	TX	100	105	89	294	45	13,230	106	Five Land Racers	
KC2GFA	*ALEX	NY	0	0	52	52	29	1,508	0		KZ5D	ART	LA	76	118	84	278	47	13,066	104	Five Land Roamers	
N2NC	JOHN	NJ	0	0	44	44	26	1,144	0	NCC MRRC East	W5KFT	ROB	TX	68	120	95	283	46	13,018	106	Five Land Roamers	
											WQ5L	*RAY	MS	51	105	79	235	45	10,575	4	FENDER	
											KG5U	*DALE	TX	35	95	85	215	47	10,105	8	Five Land Racers	
											N5OT	MARK	OK	57	94	77	228	43	9,804	2	NCC MRRC West	
											K5CI	LEO	TX	39	91	75	205	42	8,610	4	GRETSCHE	
											N5RZ	*GATOR	TX	78	93	9	180	43	7,740	2	GRETSCHE	
											AC4CA	JOHN	TX	0	103	67	170	44	7,480	1	Five Land Racers	
											K5NZ	**MIKE	TX	43	75	42	160	43	6,880	52		
											K5AND	DICK	TX	43	71	45	159	39	6,201	2		
											K8LS	*LARRY	TX	25	75	39	139	35	4,865	4	Five Land Racers	
											K5GN	*DAVE	TX	23	63	16	102	32	3,264	2		
											KØNM	*NIZ	TX	9	33	27	69	34	2,346	2	GRETSCHE	
											N9NM	*BARB	TX	13	19	17	49	26	1,274	7	Five Land Racers	
											N5QQ	RON	TX	48	0	0	48	17	816	0	FENDER	
											AF5CC	*JOHN	OK	0	12	2	14	10	140	1		
											KC5DCT	*TIM	TX	0	3	0	3	3	9	0		
											N5KO	TREY	CA	106	147	99	352	50	17,600	146	NCCC #1	
											N6TV	BOB	CA	90	147	105	342	49	16,758	99	NCCC #1	
											N6MJ	DAN	CA	123	127	88	338	48	16,224	2	SCCC #1	
											W6YX	MIKE	CA	109	121	78	308	47	14,476	66	NCCC #1	
											N5ZO	MARKO	CA	76	125	98	299	48	14,352	86	SCCC #1	
											N6RO	KEN	CA	99	114	99	312	45	14,040	88	NCCC #1	
											K6XX	BOB	CA	90	113	110	313	44	13,772	12	NCCC #2	
											K6MR	KEN	CA	69	120	99	288	47	13,536	10	NCCC #2	
											K6NA	GLEN	CA	90	107	90	287	46	13,202	5	SCCC #1	
											K6LA	KEN	CA	78	109	91	278	44	12,232	24	SCCC #1	
											K9YC	JIM	CA	55	113	85	253	46	11,638	45	NCCC #2	
K8MR	**JIM	FL	43	77	57	153	41	6,273	14	NCC MRRC South	W6SX	HANK	CA	52	109	100	261	44	11,484	10	NCCC #4	
N5TOO	*VAN	GA	17	73	43	133	40	5,320	6													

QTH	Pwr	Date	Call Sign	20	40	80	QSO	Mult	Score	QTH	Pwr	Date	Call Sign	20	40	80	QSO	Mult	Score		
AR	H	Sep 2009	N5DX	61	150	102	313	47	14,711	CO	Q	Feb 2016	K0AV	34	85	45	164	44	7,216		
AR	L	Sep 2007	K5GO	99	82	78	259	44	11,396	IA	H	Sep 2008	NØNI (AG9A)	108	134	108	350	47	16,450		
AR	Q	Sep 2009	N5ER	14	15	16	45	23	1,035	IA	L	Sep 1998	KØRX	70	84	73	227	43	9,761		
LA	H	Feb 1995	W5WMU (K5GA)	105	115	86	306	48	14,688	IA	Q	Sep 2006	AKØM	32	26	0	58	22	1,276		
LA	L	Feb 2004	W5EKF	43	67	18	128	40	5,120	KS	H	Feb 2014	WØBH	74	93	101	268	47	12,596		
LA	Q	Sep 2007	KC5R	95	66	17	178	39	6,942	KS	L	Sep 2004	K3LR	95	94	67	256	41	10,496		
MS	H	Sep 2008	N4OGW	90	139	110	339	50	16,950	KS	Q										
MS	L	Sep 2012	N4OGW	76	123	105	304	46	13,984	MN	H	Feb 2003	KØSR	98	127	83	308	50	15,400		
MS	Q	Feb 2002	WA2NYR	30	16	0	46	26	1,196	MN	L	Sep 2003	NAØN	112	125	51	288	47	13,536		
NM	H	Feb 2013	N2IC	133	167	109	409	48	19,632	MN	Q	Sep 2016	KEØT	45	60	31	136	49	5,304		
NM	L	Feb 2008	AA5B	85	101	95	284	42	11,928	MO	H	Sep 1996	K4VX (WX3N)	104	133	95	332	46	15,272		
NM	Q	Feb 2002	W5YA	121	75	28	224	42	9,408	MO	L	Feb 2016	NØAX	62	125	105	292	43	12,556		
OK	H	Sep 2003	K3LR	131	133	88	352	48	16,896	MO	Q	Sep 2004	NJ4X	61	99	38	198	41	8,118		
OK	L	Sep 1998	K5KA	79	89	62	230	40	9,200	ND	H	Feb 2002	WBØO	124	106	88	318	47	14,946		
OK	Q	Sep 2004	K5KA	91	69	52	212	43	9,116	ND	L	Feb 1998	WØHSC (KBØO)	49	96	72	217	36	7,812		
TX	H	Feb 2000	N5TJ	148	137	96	381	52	19,812	ND	Q										
TX	L	Sep 1998	N5TJ	141	111	80	332	46	15,272	NE	H	Sep 2008	WW2Y	57	101	98	256	42	10,752		
TX	Q	Feb 2000	KG5U	122	60	22	204	47	9,588	NE	L	Sep 2006	WW2Y	59	102	61	222	45	9,990		
CA	H	Feb 2003	W6EEN (N6RT)	150	147	81	378	54	20,412	NE	Q	Feb 2003	W8TM	0	116	0	116	41	4,756		
CA	L	Feb 2004	N6MJ	106	158	77	341	50	17,050	SD	H	Feb 2013	WDØT	79	145	124	348	47	16,356		
CA	Q	Sep 2010	K6UFO	88	90	36	214	39	8,346	SD	L	Feb 2015	WDØT	114	117	79	310	43	13,330		
AK	H	Feb 2000	KL9A	139	63	0	202	47	9,494	SD	Q										
AK	L	Sep 2007	K6VVA/KL7	68	30	18	116	34	3,944	NU	H										
AK	Q	Sep 2003	N6TR/KL7	1	0	0	1	1	1	NU	L										
AZ	H	Feb 2000	K6LL	178	144	42	364	50	18,200	NU	Q										
AZ	L	Feb 2016	N7CW	83	122	79	284	47	13,348	NB	H	Feb 2017	VE9AA	9	57	0	66	28	1,848		
AZ	Q	Feb 2014	N7CW	69	93	56	218	48	10,464	NB	L										
ID	H	Feb 2016	WJ9B	70	121	95	286	44	12,584	NB	Q										
ID	L	Feb 2001	W7UQ (KL9A)	144	88	44	276	48	13,248	NS	H										
ID	Q	Feb 2013	W7ZRC	65	84	38	187	41	7,667	NS	L										
MT	H	Feb 2014	N9RV	121	146	96	363	52	18,876	NS	Q										
MT	L	Feb 2013	K7BG	102	119	85	306	45	13,770	NL	H										
MT	Q	Sep 2009	KB7Q	35	71	56	162	38	6,156	NL	L										
NV	H	Feb 2000	K7BV	106	141	43	290	50	14,500	NL	Q										
NV	L	Feb 2000	KU7Y	88	116	0	204	45	9,180	PEI	H										
NV	Q	Feb 1999	KU7Y	59	69	20	148	40	5,920	PEI	L										
OR	H	Feb 2003	N6TR	172	142	79	393	52	20,436	PEI	Q										
OR	L	Feb 2003	K4XU	121	110	46	277	47	13,019	VE2	H	Sep 1988	VE2ZP	75	98	41	214	41	8,774		
OR	Q	Sep 2011	W7YAQ	69	50	29	148	40	5,920	VE2	L	Feb 2003	VE2AWR	49	77	26	152	39	5,928		
UT	H	Sep 1991	K6XO	128	93	42	263	44	11,572	VE2	Q										
UT	L	Sep 1995	AH3C	59	91	65	215	38	8,170	VE3	H	Feb 2014	VE3JM	90	117	87	294	50	14,700		
UT	Q	Feb 2003	NC7J	101	96	38	235	45	10,575	VE3	L	Sep 2010	VE3DZ	78	98	93	269	44	11,836		
WA	H	Feb 2003	W7WA	133	113	54	300	49	14,700	VE3	Q										
WA	L	Feb 2003	K7RI (K7SS)	149	111	37	297	53	15,741	VE4	H	Sep 2003	VE4/WBØO	136	130	0	266	45	11,970		
WA	Q	Feb 2002	K7RI (K7SS)	109	112	19	240	45	10,800	VE4	L	Sep 2006	VE4XT	22	92	16	130	42	5,460		
WY	H	Sep 1999	K7KU (N2IC)	132	117	63	312	48	14,976	VE4	Q										
WY	L	Feb 2004	KØ7X	57	142	28	227	47	10,669	VE5	H	Sep 2000	VE5DX	122	92	50	264	43	11,352		
WY	Q	Sep 2008	KB7Q	1	78	8	87	29	2,523	VE5	L	Feb 2003	VE5SF	106	119	12	237	49	11,613		
MI	H	Feb 2003	N8EA	197	124	100	331	52	17,212	VE5	Q										
MI	L	Feb 2014	N8EA	74	90	98	262	46	12,052	VE6	H	Feb 2013	VE6EX	77	91	61	229	46	10,534		
MI	Q	Sep 2009	N8EA	28	68	74	170	43	7,310	VE6	L	Sep 1999	VE6EX	117	64	14	195	46	8,970		
OH	H	Feb 2003	K8MR	72	128	109	309	52	16,068	VE6	Q	Feb 2017	VE6EX	4	9	5	18	6	108		
OH	L	Feb 2014	W1NN	79	100	96	275	48	13,200	VE7	H	Feb 2000	VA7RR	151	128	37	316	48	15,168		
OH	Q	Sep 2004	N8VW	43	86	50	179	42	7,518	VE7	L	Sep 2016	VE7JH	72	84	41	197	44	8,668		
WV	H	Feb 2002	N4ZR	69	100	117	286	48	13,728	VE7	Q	Feb 2014	VA7JC	5	0	0	5	5	25		
WV	L	Sep 1998	K3LR	62	93	64	219	39	8,541	NT	H										
WV	Q	Sep 2003	K5IID	49	52	42	143	34	4,862	NT	L										
IL	H	Sep 2003	AG9A	130	162	73	365	52	18,980	NT	Q										
IL	L	Sep 2003	K9AA (K9PG)	112	119	59	290	48	13,920	YT	H										
IL	Q	Feb 1999	WO9S	43	66	32	141	41	5,781	YT	L										
IN	H	Sep 2003	N9RV	134	168	87	389	53	20,617	YT	Q										
IN	L	Feb 2003	KJ9C	76	95	91	262	48	12,576	4U1	H	Feb 1985	4U1UN (W2TO)	3	52	15	70	23	1,610		
IN	Q	Feb 2008	WT9U	38	16	75	129	38	4,902	4U1	L										
WI	H	Feb 2000	K9AA (K9PG)	94	169	69	302	55	16,610	4U1	Q										
WI	L	Feb 2008	N9CK	70	126	115	311	48	14,928	8P	H	Sep 2002	8P9JG (N5KO)	164	105	8	277	42	11,634		
WI	Q	Feb 2012	KA9FOX	66	90	73	229	45	10,305	8P	L										
CO	H	Feb 2003	N2IC	154	151	84	389	52	20,228	8P	Q										
CO	L	Feb 2008	KØEU	62	115	99	276	42	11,592	C6	H										
										C6	L	Feb 1999	C6AKP	15	4	2	21	14	294		

QTH	Pwr	Date	Call Sign	20	40	80	QSO	Mult	Score
C6	Q								
CO	H								
CO	L	Feb 2013	CO2CW	8	10	3	21	16	336
CO	Q								
HH	H	Sep 1996	HH2AW	48	61	30	139	33	4,587
HH	L								
HH	Q								
HI	H	Feb 1991	HI8DMX	0	40	0	40	19	2,420
HI	L								
HI	Q								
HP	H								
HP	L	Feb 2000	HP1AC	50	14	0	64	30	1,920
HP	Q								
J7	H								
J7	L	Feb 2007	J79WI (WI9WI)	11	74	2	87	34	2,958
J7	Q								
KP2	H	Feb 2014	NP2X	88	93	100	281	48	13,488
KP2	L								
KP2	Q								
KP4	H	Sep 2016	KP4/KB7Q	63	64	13	140	38	5,320
KP4	L	Feb 2004	NP4Z	49	150	54	253	48	12,144
KP4	Q	Feb 2004	K1ZZ/KP4	1	18	3	22	14	308
KH6	H	Feb 2017	KH6TU	75	57	18	150	38	5,700
KH6	L	Feb 2017	KH6BE	7	0	0	7	7	49
KH6	Q								
PJ6	H	Sep 2011	PJ6/K9VV	23	30	0	53	25	1,325
PJ6	L								
PJ6	Q								
TG	H								
TG	L	Sep 2001	TG9/N5KO	150	0	0	150	42	6,300
TG	Q								
V4	H	Feb 1996	V4ØZ (AA7VB)	0	21	33	54	23	1,242
V4	L								
V4	Q								
VP2E	H	Feb 2009	VP2E (N5AU)	58	90	71	219	40	8,760
VP2E	L								
VP2E	Q								
VP9	H	Feb 1985	W6OAT/VP9	43	93	66	202	31	6,262
VP9	L	Sep 2009	KM3T/VP9	84	83	60	227	42	9,534
VP9	Q								
XE	H	Sep 1990	XE2XA (WN4KKN)	134	127	44	305	47	14,335
XE	L	Sep 2003	XF1K (N6AN)	113	85	39	237	47	11,139
XE	Q	Sep 2013	XE2S	43	37	0	80	32	2,560
ZF	H	Sep 1992	ZF2KI (K1KI)	154	90	7	251	49	12,299
ZF	L	Feb 2015	ZF2DX (N5DX)	114	105	56	275	42	11,550
ZF	Q								
9A	H	Sep 2000	9A6XX	29	0	0	29	19	551
9V	H	Feb 2012	9V1YC	16	0	0	16	8	128
A7	H	Sep 2009	A7/M0FGA	7	0	0	7	8	56
CT	H	Sep 1998	CT1BOH	122	76	27	225	40	9,000
CX	H	Feb 2014	CX6VM	53	4	0	57	31	1,767
DL	H	Feb 2006	DJ1YFK	0	30	12	42	21	882
EA8	H	Feb 1994	EA1AK/EA8	15	21	0	36	21	756
F	H	Sep 1990	F/N6TR	100	78	18	196	38	7,448
G	H	Feb 2002	G4BUO	45	84	31	160	40	6,400
GM	H	Feb 2017	MMØLID	44	17	22	83	30	2,390
HA	H	Sep 2014	HA1AG	10	0	0	10	7	70
HC8	H	Feb 2000	HC8N (N5KO)	142	121	8	271	52	14,092
I	H	Sep 1998	IKØHBN	64	26	10	100	35	3,500
JA	H	Feb 1991	7J1AAI	13	0	0	13	9	117
KH2	H	Sep 2010	KH2/N2NL	36	0	0	36	23	828
LU	H	Feb 2003	LU1FAM	74	18	0	92	35	3,220
LY	H	Sep 2000	LY4AA	107	56	0	163	38	6,194
LZ	H	Sep 2010	LZ5R (LZ4UU)	4	105	16	125	42	5,250
OH	H	Sep 1998	OH1NOA	56	0	0	56	22	1,232
ON	H	Sep 2007	ON5ZO	1	10	0	11	9	99
P4	H	Sep 2007	P4Ø/W2GD	105	82	33	220	41	9,020
PY	H	Sep 1980	PY8ZPJ	28	1	0	29	14	406
UA9	H	Feb 2000	RUØSN	15	0	0	15	13	195
UN	H	Sep 2000	UP6F	13	0	0	13	10	130
VK	H	Sep 1994	VK5GN (N6AA)	48	0	0	48	22	1,056
ZD8	H	Sep 1990	ZD8Z (N6TJ)	116	93	19	228	43	9,804
ZS	H	Feb 2000	ZS1ESC (N6AA)	51	0	0	51	18	918