

RESULTS

1987 CALIFORNIA QSO PARTY

SPONSORED BY THE NORTHERN CALIFORNIA CONTEST CLUB



Thanks a Lot, Mother Nature!!!

October 3rd, 1987. 1600Z, the beginning of the 1987 California QSO Party (CQP). WWV reports the solar flux at 91, the A index at 26, and geomagnetic activity as unsettled. Band conditions are just plain HORRIBLE! Propagation on 10 and 15 meters is non-existent, while 20 sounds hollow and flat, with very few loud East Coast signals.

And, while band conditions are not so hot, the weather sure is, as a 100-plus degree heatwave rages through Central and Southern California, causing major discomfort to the portable and mobile expeditioners out putting on the rare CA counties. Meanwhile, back east in parts of New York and New England, one of the earliest winter snowstorms in history knocks out power on Sunday morning of the contest for many CQP participants.

If that's not enough, on Thursday morning, October 1st, just two days before the contest, a 6.1 magnitude earthquake rocks the Los Angeles area. Aftershocks of the quake continue into the CQP weekend, including a major one at 4 am on Sunday which rouses L.A. amateurs out of bed and onto the radio.

And, for several weeks before the CQP, a series of forest fires blacken thousands of acres of California timberland in the less populated northern and eastern counties of the state. With most campgrounds on "fire alert" status, it is with great difficulty that county expeditioners obtain permission to set up a tent, erect a ham radio station, and operate with a portable generator.

All in all, with the rotten propagation, lousy weather, earthquakes, and forest fires, one might come to the conclusion that Mother Nature does not want the 1987 CQP to happen!

A Well Attended Party

As unlikely as it might seem, the 1987 California QSO Party will be remembered for tremendous overall activity and record setting performances. No less than 319 logs (the most ever) were received from 56 of 58 CA counties, 48 states, 6 Canadian sections, and 8 DXCC countries. Thirty four entrants set new single operator scoring records during the weekend--23 of them outside California and 11 in the Golden State.

The high level of CW activity which characterized the 1986 Party continued in

the '87 contest. California stations were again able to maintain good code QSO rates for sustained periods of time--which added greatly to their scores as CW contacts are worth three points versus two points on phone. As such, it's no surprise that 52 entrants submitted logs which contained only code QSOs.

In fact, with all of the increased Morse activity, CQP operating strategies have changed significantly. CW operation has become so important that top scorers are now making between 20 and 35% of their total QSOs on the AI mode, compared with 10 to 15% during CQP weekends of past years.

Band Conditions

Propagation was a combination of sweet and sour. Conditions on Saturday were miserable--10 and 15 meters were dead, and 20 was mediocre. Fortunately, things improved dramatically on Sunday, as 15 was open all day and 10 meters opened briefly to the East around 1900Z. A survey of the logs shows that stations located in the southern latitudes of the United States seemed to enjoy better conditions during most of the CQP weekend. Stations in the northern latitudes were competitive during the afternoon and evening hours, but had trouble working into California during the morning hours of the Party.

One interesting propagational phenomenon occurred on Saturday evening, when the MUF dropped so fast that 40 meters was pretty much useless by 0300Z. As a result of this drop, out-of-state participants QSYed to 80 and 75 meters earlier than usual for a CQP weekend. California stations who chose not to linger on 40 were treated to some fantastic 75/80 meter rates between 03 and 0400Z, while those who stayed on 40M too long and arrived after 0400 missed the peak of activity.

California Competition

Tops among the California single-ops was Larry "Tree" Tyree, N6TR, guest operating from superstation K6NA in San Diego Co. Tree's final score of 292K fell just three QSOs short of breaking the all-time CA single op record, which he himself set way back in 1981. The key to his victory was 20 meter sideband, where his 1,011 QSO total was 300 contacts higher than any other entrant in the Party! Tree walked away from competition on Sunday

morning, averaging no less than 119 QSOs per hour (most of them on 20 SSB) between 1300 and 1600Z!

Capturing second place among the CA single-ops was Dean Straw, N6BV, who finished with a fine 266K and a new Contra Costa County record. And, third place goes to Kurt Andress, NI6W, who piloted another San Diego County station, N6ND, to a 258 kilopoint finish.

Despite the extremely high overall level of activity in the '87 CQP, California scores were generally down a bit as compared to the '86 Party. The average Top Ten CA score declined from 223K in 1986 to 216K in 1987, a statistic which is probably best explained by the depressed band conditions on Saturday of the contest. However, eleven CA single-ops rose to the occasion and established new county scoring records. They are: K6RK, N6BV, WB6ITM, K6LRN, W6REC, WA6ZBX, K6AAW, N6TR (at K6NA), N1EE/6, WJ6Q, and KI6CG.

A special mention should also be made of the CW-only effort of Dave Hodge, AA6RX (guest operating from W6UE). Setting his sights on N6QR's 1986 record of 1,001 CW QSOs, Dave contacted 1,004 stations during the CQP weekend, ALL of them on the code mode! Also, congratulations to N6NF, W6JTI, and W6UQF, who all cracked the California Top Twenty running 200 watts or less.

Among the California multi-operator entrants, first place in the multi-single competition belongs to KI6EZ and N6OP who operated with station owner Rich Cutler, WC6H, to a 184K finish from San Joaquin County. This is the third time in the past four years that Rich's station has captured top honors in this category. Taking the second spot with 129K was the K6SG Colusa Co. expedition effort, while WR6R and WZ6Z finished third with 124K.

Out-of-State Competition

Out-of-state single-op scores in the

Top Ten Band Breakdowns

Out-of-State

Call	Score	10S	10C	15S	15C	20S	20C	40S	40C	75S	80C	160S	160C
K4XS	118,726	33	7	193	44	283	85	146	42	64	25	0	0
WX4G	117,392	2	2	147	46	363	82	88	53	32	48	11	15
NOBSH/9	102,828	0	0	136	33	313	58	190	23	74	12	0	0
KV0I	74,536	0	0	58	26	276	85	25	38	41	28	0	0
N5JB	73,872	0	0	47	24	299	72	77	32	6	17	0	1
VE7SK	72,561	0	0	11	13	252	57	61	46	45	36	17	15
WD5K	70,281	0	0	42	32	158	101	16	58	45	46	0	0
KB9S	69,141	0	0	98	22	188	77	83	28	26	13	0	1
K4LTA	65,448	0	1	87	42	190	62	8	71	9	26	7	11
N6CQ/3	64,314	23	8	50	49	158	86	3	49	24	33	0	0

California

Call	Score	160S	160C	75S	80C	40S	40C	20S	20C	15S	15C	10S	10C	VHF
K6NA	292,842	52	45	67	94	288	106	1011	141	317	97	62	0	3
N6BV	266,220	0	0	176	105	223	143	711	230	321	86	12	4	0
N6ND	258,796	14	19	123	81	164	158	688	228	385	82	0	0	5
N6BT	251,488	3	5	142	87	183	147	618	208	409	81	1	0	20
W6AQ	205,968	12	15	111	85	201	144	616	181	140	82	0	1	0
W6REC	199,578	20	22	145	85	82	120	380	183	273	133	1	0	6
K6HIH	186,296	26	22	112	108	37	124	440	208	173	82	2	0	0
W6UE	171,684	0	49	0	147	0	224	0	393	0	142	0	49	0
NE6I	170,404	0	0	93	83	72	195	251	189	173	111	9	2	1
VE2AQS/ W6	159,210	0	0	104	75	150	100	389	178	66	84	5	2	0

1987 California QSO Party were simply out of sight. In a very, very close race for the top spot, first place goes to Jeff Bolda, WC4E, operating from K4XS in North Florida. Jeff's 118.7K score is, by far, the biggest tally ever made from east of the Mississippi. In fact, excepting N6TR/7's 1985 and 1986 efforts from Oregon, it's the biggest out-of-state CQP score ever made!

A look at Jeff's logs shows that he spent a lot of time calling CQ into California, and properly followed the flow of California activity as it shifted from band to band. Tied for the lead at sunrise on Sunday morning, Jeff benefitted the most from the good 15 meter band conditions on that day. He finished with 247 QSOs (42 more than any other entrant), and ultimately won the CQP on the strength of his 15 meter opening.

Landing in second place, just 11 SSB QSOs behind K4XS, was Bob Brockman, WX4G, who compiled 117.3K and a new record from the state of Georgia. Both WX4G and K4XS managed to snag all 58 California counties. However, third place finisher Mike Tessmer, NOBSH/9, who turned in a fantastic 102K score from Wisconsin, worked 57 CA multipliers, missing San Benito County. San Benito turned out to be the most hard-to-find county in the contest. Of the 21 stations who worked between 53 and 57 multipliers, 16 failed to find San Benito. Other troublesome ones, along with the

Special Awards

The Top Twenty--

Winners of a personalized bottle of California wine direct from the cellars of the Northern California Contest Club

California: N6TR, N6BV, NI6W, WA6VEF, WA6OTU, W6REC, K6HIH, AA6RX, NE6I, VE2AQS/W6, K6RK, K6AAW, N6NF, WX6M, W6JTI, W7CB/6, WA6ZBX, W6UQF, N6HC, and K6LRN.

Outside California: WC4E, WX4G, NOBSH/9, KV0I, N5JB, VE7SK, WD5K, KB9S, K4LTA, N6CQ/3, K9BG, WA0AVL, KI0F, AA4GA, WA3PWL, W5ASP, WB9JKI, W3HHD, W2HG, and AA4NC.

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Chairman's Award: CA single-op with the most CW QSOs--David C. Hodge, AA6RX.

CA mobile single-op or team with the most QSOs (sponsored by the Redwood Empire DX Assn.)--Dick Church, N4ARO, and Carl Gardenias, WU6D.

Low power champions (200 watts or less)

--California: Thomas E. Gehman, N6NF.

--Out of state: Thomas C. Johnson, WD5K.

Top Club in California (sponsored by the Palo Alto (CA) ARA)--California Institute of Technology ARC (N6TR, WA6OTU, AA6RX, and N6LL--681,970 pts.)

number of stations who missed them, included: Glenn (12); Sutter (10); Trinity (7); Lake and Monterey (5); El Dorado and Mendocino (3); Butte and Nevada (2); and Del Norte (1).

With all the W6 stations crowding the bands in the '87 Party, the average out-of-state Top Ten score rose from 68.0K in 1986 to 82.8K in 1987, far and away the highest average in the history of the contest. And, a score of 28K, good enough to squeeze into the Top Twenty in the 1986 CQP, would rank 33rd in the 1987 event! It's getting more and more competitive every year!

Congratulations to these single ops outside California who established new scoring records: K3HBP, WC4E (at K4XS), WX4G, AH6AZ, KB0C, KZ5D, K10F, K5MK, KV0I, W5FS, W2HG, WA3PWL, W5TZN, N6CQ/3, KD0EE, K4LTA, N5JB, KE7KF, WA1JVV, NOBSH/9, VE2EDK, VE3KK, and VE7SK. As well, special mention should be made of WD5K's Top Ten finish, an effort achieved running a TA33-JR, wires, and an output power of 150 watts! The most competitive states in '87 were New York and Wisconsin, where three stations (W2HG, KQ2M, and NQ2O in NY; NOBSH/9, KB9S, and NG9L in WI) all broke the existing single op record.

California County Expeditions

Again this year we say "Thank you very much!!!" to the folks who pack up their radios and antennas and journey off to the hinterlands of California to activate those rare CA counties. Without the efforts of these fixed portable and mobile expeditioners, it would be very, very difficult for out-of-state stations to achieve big county multiplier totals. They are:

Gary, WA6VEF, guest operating from portable station N6BT in Kings County, who finished fourth in California and first among the single-op county expeditions with 251 kilopoints. This "Field Day style" set-up, masterminded by Tom, N6BT, featured long boom monobanders on 40 through 10, generator power, and two complete stations (including a Henry 2K amplifier) set up in an RV . . . N6VV, K6XV, K6PJY, K3EST, and K6XO, who carted monobanders, generators, and rigs with amps to a difficult-to-get-to site at the Tuolumne/Alpine/Mono county lines. Their 239K is the top multi-op expedition score, as well as the first place California multi-multi . . . Dick, N4ARO, and Carl, WU6D, who set a new all-time mobile QSO record with 705 contacts from San Bernardino, Riverside, and Orange Counties . . .

and KI6CG in Tulare . . . N6GC, N6K0I, and N6IR at "Four Corners," the county lines of Merced, Mariposa, Stanislaus, and Tuolumne . . . W6TVP in Plumas and Lassen . . . WA6ZBX in Mono . . . N6NKN/mobile on a CQP tour of 10 Southern California counties . . . W6BSY

in Sutter . . . N1EE/6 in Sierra . . . K6SG, KF6A, KV6H, and KI6PL in Colusa Co. . . . N6NKT in Inyo . . . KS6H and N6ZB in Merced . . . K6MO and N6KG operating maritime mobile from a four-county spot in the middle of San Francisco Bay . . . N6LL in Kern . . . K6XO/mobile in seven counties, among them some of the most sought after in the Party . . . WJ6Q in Siskiyou . . . K6AAW in Plumas . . . and K6TMB and W6SZN operating a two man, two transmitter multi-multi from Placer.

A Few Words About the Rules

There appears to be a major bit of confusion over how to log California stations who operate portable or mobile from a county line location. The procedure in this situation is simple: the station counts as one QSO, and may (for out-of-state entrants) be claimed as a multiplier for any or all of the counties he gives out in his exchange. As an example, a 15 meter SSB QSO with N6VV at the county lines of Tuolumne, Alpine, and Mono, would count for one QSO, worth two points, and three potential county multipliers.

All of the 1987 CQP logs were checked on this point, and scores were reduced if an entrant claimed multiple QSO credit for California stations on a county line. For example, if someone claimed three QSOs for a 15M SSB N6VV contact, two of the three contacts were deleted from his log. (One important note--CA stations that CHANGE counties during the CQP may be worked again for contest credit.)

Another problem occurred with QST's paraphrasing of the official CQP rules. Unfortunately, they mistakenly reported that, for W6 stations, states, provinces, AND CA counties count as multipliers. As a result, more than a few logs were received with ASTOUNDING multiplier totals, which upon closer inspection, had to be adjusted to reflect the actual CQP rules.

The "Worked All California Counties" Award

The Northern California Contest Club is pleased to announce its sponsorship of the new "Worked All California Counties" Award. This award, a handsome certificate suitable (of course) for framing, is available to any amateur who submits proof of contacts with all 58 California counties. All QSOs for the award must be made after October 1st, 1987, so QSL cards for contacts made during the 1987 CQP may be applied toward the certificate.

For a complete set of rules and a list of California counties, check out the last page of this CQP write-up.

The People Who Do the Work

There's no doubt about it--the

California QSO Party is the premier state QSO Party on the contest calendar. The big turnout in an event like this is the direct result of lots and lots of dedicated work and effort. The Northern California Contest Club would like to acknowledge these amateurs for their contribution to the success of the 1987 CQP: Assistant Chairmen W6REC and NV6Z, who, along with WW6D, K6LRN, NU6S, WE6G, K6MBV, and K6SG, all served to co-ordinate NCCC and Northern California CQP activity; N6ADI and N6TR who co-ordinated CQP participation in the Southern California Contest Club; NV6Z, KI6EZ, WA6AHF, KA6ING, and W6BSY for helping with publicity; N6EK for his many hours of fine work on the certificates and mailing lists; W6SZN for maintaining the CQP all-time records list; W7MAP for helping with photocopying; W6OSP for procuring the wine awards; and N6BT for handling the CQP T-Shirt project.

In addition, NCCC wishes to thank these fine folks who graciously provided mailing labels for the pre-contest publicity campaign: K5ZD of the National Contest Journal; W3HDH of the Nittany (PA) Amateur Radio Club, organizers of the Pennsylvania QSO Party; KB6ZV, Pacific Division Director of the ARRL; N6AUS of the Northern California DX Club; and NK6A of the Southern California DX Club.


Mark Your Calendar!

Don't miss the next running of the California QSO Party, scheduled for October 1st and 2nd, 1988.

If you'd like to receive a CQP '88 paperwork packet containing rules, a master log and summary sheet, contest records, and official county abbreviations, just send an SASE to Gary Caldwell, WA6VEF, 1830 Polk Street, Concord, CA 94521. The packet will be mailed to you approximately a month prior to the CQP weekend.

See you in the contest!

73,


Gary Caldwell WA6VEF
1987 CQP Chairman

Soapbox

Out-of-State.....

An 80m inverted-vee in the trees WILL load on 40m (kind of). Many thanks to the patient operators on the other end. (WA7NWL) . . . Blizzard hit early AM Sun 4th. Wait till NEXT year when I don't have trees on most antennas! (NC1E) . . . In my judgement the California QSO Party is the best of all, and from what I hear on the air, it's getting bigger and better every year. (KY5M) . . . Heard only 1 station on

40, heard several on 75 but they didn't hear me! (WL7K) . . . K4XS was running them about 1 or 2 a minute on 75 phone and I COULD NOT hear the stations he was working--wonder what his antennas are? (K9BG) . . .

Had the rig all warmed up and tuned, and at about 1555 hit the rotator switch to swing the 20 meter beam to the west. It rotated to the North position and stopped! So, spent the first 45 minutes (of the contest on the tower) fiddling with the rotor and thrust bearing (W0JTC) . . . A great event! Many W6 stations and I did better that last year! (K1CLN) . . . I must say thanks to the little guns who are just there to give out contacts for the big guns. Thanks guys--without the little guns there would be no war. (KI0F) . . . N6VV/6 and N6GC, both sitting on county lines, sure helped my county total. I do not recall hearing any county that I did not work. (W0NGB) . . . I hope I am drinking a bottle of your fine wine before too long. (KV0I) . . . Rotten conditions and broken radio. I fixed one, but not the other! (AE7K) . . .

And from California.....

At 2358Z on Saturday my driver tube breathed its last. Last year one of the diodes in my power supply went. See you in '88 with healthy equipment, I hope. (K6DYP) . . . This was my first "Field Day" operation all by myself. Found out it's kinda difficult to get a yagi in the air without help. (N6LL) . . . Hats off to the unusual expedition stations dropping anchor or tower base on a multi-county corner. But what a pain to pull all that information out of a noise level signal on crowded 20 MTRS! (AA6RX) . . . Working conditions much better than last year--no snow!! Operated out of back of camper-shell, not much head room. (K6AAW) . . .

I actually believe Saturday afternoon (produced) the worst contest conditions I've ever seen. (W6UQF) . . . Working a W6 with a higher total motivates you to work harder. Working 4 or 5 out-of-state stations with higher totals is just plain DEPRESSING! (N1EE/6) . . . Battery power, wire antennas, and a magnificent view of Mt. Shasta. My first attempt at a county record. (WJ6Q) . . . I had a lot of fun, thought I would never reach 100 QSOs, but sure was pleased when I did. A dipole and 100 watts has a hard time competing against beams and kilowatts, but it's still fun for an old timer (67 years) new in the ham business (18 months). (KI6PG) . . . Being located exactly on the four county lines of Mariposa, Merced, Stanislaus, and Tuolumne proved to be more of a hindrance than a help. We spent nearly a quarter of our time explaining our location! (N6GC/6) . . . My first serious attempt at contesting. It was a blast!! (N6KN/M).....SK

Final Scores

Call, score, total QSOs, total CW QSOs (in parentheses), multiplier. An * = new single-op contest record; (M/S) = multi-single; (CE) = single-op CA county expedition; (MCE) = multi-op CA county expedition; /M = mobile.

California

Alameda

N6EK	79,713	527	(509)	51
W6RGG	58,896	409	(409)	48
K6MBV	24,612	202	(182)	42
W6MFZ	24,480	160	(160)	51
K6CSL	10,830	140	(81)	30
WE6G	8,646	122	(18)	33
K6SIK	6,552	117	(0)	28
WA0YQM	1,512	38	(32)	14
K6ARE	147	7	(7)	7
WR6R (+WZ6Z) (M/S)	124,468	941	(264)	58

Alpine/Mono/Tuolumne

N6VV (+K6XV, K6PJY, K6XO, K3EST) (MCE)	239,856	1820	(568)	57
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Amador

K6BBB	31,995	237	(237)	45
N6GG	2,176	56	(16)	17
K6XO/M	60	6	(0)	5

Butte

K6HTM	12,388	163	(0)	38
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Calaveras

*K6RK	145,264	1067	(460)	56
K6XO/M	40	5	(0)	4

Colusa

K6SG (+KF6A, KV6H, KI6PL) (MCE)	129,862	940	(359)	58
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Contra Costa

*N6BV	266,220	2011	(568)	58
VE2AQS/W6	159,210	1153	(439)	58
K6ZM	88,715	671	(271)	55
AK6T	14,948	143	(118)	37
K6DYP	8,960	111	(58)	32

Contra Costa/Marin/Sonoma/Solano

K6MO/Maritime Mobile (+N6KG)	38,594	313	(213)	46
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Del Norte

K6HY	38,478	292	(142)	53
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Fresno

*WB6ITM	35,427	343	(37)	49
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Glenn

K6XO/M	544	16	(2)	16
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Humboldt

W6JTI	119,680	815	(546)	55
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Imperial

NR7O	8,961	103	(103)	29
N6NKN/M	896	28	(0)	16

Inyo

N6NKT (CE)	30,184	308	(0)	49
N6NKN/M	180	10	(0)	9

Kern

N6LL (CE)	11,476	151	(0)	38
KA6CZS	8,140	110	(0)	37
N6NKN/M	200	10	(0)	10

Kings

N6BT (WA6VEF op) (CE)	251,488	1904	(528)	58
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Lake

KR6G	12,464	164	(0)	38
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Lassen

K6JKC	19,494	193	(127)	38
W6TVP/6 (CE)	4,704	56	(56)	28

Los Angeles

W6AQ (WA6OTU op)	205,968	1586	(506)	56
W6UE (AA6RX op)	171,684	1004	(1004)	57
NE6I	170,404	1179	(580)	58
N6HC	105,894	868	(225)	54
N6IBP	34,075	252	(221)	47
WB6VVS	11,970	146	(107)	30
KG6VI	9,384	102	(0)	46
N6IC	1,805	38	(19)	19
N6NKN/M	162	9	(0)	9

Madera

KD6FW	59,904	576	(0)	52
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Marin

*K6LRN	102,030	692	(406)	57
W6ZQK	1,100	25	(0)	22

Mariposa/Merced/Stanislaus/Tuolumne

N6GC/6 (+N6KOI, N6IR) (MCE)	64,896	486	(276)	52
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Merced

KS6H (+N6ZB) (MCE)	87,000	600	(300)	58
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Modoc

*W6REC	199,578	1450	(541)	58
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Mono

*WA6ZBX (CE)	111,216	993	(0)	56
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Monterey

WD6EKR	16,290	181	(0)	45
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Napa

W6FSJ	70,675	512	(261)	55
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Nevada

WA6AUE	87,267	604	(323)	57
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Orange

N6PE	63,282	479	(236)	53
W6SX	37,490	280	(255)	46
WA6FIT	33,150	325	(0)	51
NG7D/6	14,362	130	(74)	43
N6OKX	7,326	111	(0)	33
N4ARO/M (+WU6D)	2,500	56	(13)	20
N6NKN/M	40	5	(0)	4

Placer

W6RFF	19,800	165	(165)	40
K6TMB (+W6SZN) (MCE)	87,416	660	(241)	56

Plumas

*K6AAW (CE)	126,266	920	(337)	58
W6TVP/6 (CE)	12,312	114	(114)	36
KF7AM/6	3,363	59	(59)	19
KA6HVY	1,980	46	(7)	20

Riverside

N6MZH	8,742	141	(0)	31
N4ARO/M (+WU6D)	7,192	98	(36)	31
N6NKN/M	918	27	(0)	17

Sacramento

N6JV	70,941	516	(359)	51
KI6O	46,365	386	(71)	55
KX6Z	16,040	141	(119)	40
KG6XX	4,640	80	(0)	29
W6NKR	2,310	35	(35)	22
K8TFR	600	20	(0)	15
K6XO/M	84	7	(0)	6

San Benito

WU6Y	4,374	54	(54)	27
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San Bernardino

W6HAL	79,768	610	(314)	52
N4ARO/M (+WU6D)	71,390	551	(196)	55
N6NKN/M	180	10	(0)	9

San Diego

*K6NA (N6TR op)	292,842	2283	(483)	58
N6ND (NI6W op)	258,796	1947	(568)	58
W6UQF	106,419	704	(459)	57
WA6UFY	10,480	118	(26)	40
N6NKN/M	532	19	(0)	14

San Francisco

K4TKM/6	35,673	254	(251)	47
K6ILM	22,554	220	(97)	42

San Joaquin

W6FAH	25,344	264	(0)	48
WC6H (+KI6EZ, N6OP) (M/S)	184,672	1424	(336)	58

San Luis Obispo

W7CB/6	117,334	876	(271)	58
WB6HJW (+WA6MSN, KB6JST) (M/S)	105,618	751	(319)	58

San Mateo

N6NF	123,530	906	(434)	55
K6KLY	57,600	576	(0)	50
W6OAT	47,564	401	(232)	46
N6AN	29,385	223	(207)	45
N6NRZ	19,393	233	(7)	41
AA6DV	13,338	117	(117)	38
W6ISQ	3,975	53	(53)	25
K6QEZ (WA0YQM op)	1,680	35	(0)	24

Santa Barbara

WA6FCV	78,138	568	(311)	54
AC6T	25,543	223	(177)	41

Santa Clara

W6XB	74,196	563	(248)	54
AD6E	67,626	442	(442)	51
WC6I	29,799	231	(231)	43
N6XI	6,592	78	(50)	32
W6UR	1,494	32	(19)	18
WB6EXW	1,152	36	(0)	16

Santa Cruz

NS6V	53,601	415	(221)	51
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Shasta

WB4GSS/6	2,616	44	(21)	24
WB6SRQ	2,288	52	(0)	22

Sierra

*N1EE/6 (CE)	56,056	413	(252)	52
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Siskiyou

*WJ6Q (CE)	37,050	294	(153)	50
WB6MBF	10,220	109	(74)	35

Solano

K6HIH	186,296	1334	(544)	58
WX6M	122,438	1054	(3)	58
KA6BTU	414	23	(0)	9

Sonoma

K6BWX	51,695	378	(299)	49
WW6D	28,485	211	(211)	45
KD6GC	20,295	191	(113)	41
N6OJ/QRP	10,608	156	(0)	34

Sutter

K6XO/M	476	17	(0)	14
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Tehama

KA6TFC	68,640	624	(0)	55
WB6KOE	1,575	37	(1)	21

Trinity

WA6ZUD	19,080	180	(0)	53
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Tulare

*KI6CG	89,552	772	(0)	58
W6IFC	19,092	148	(148)	43
N6NKN/M	160	10	(0)	8

Tuolumne					Kentucky					Ohio				
KI6PG	3,952	104	(0)	19	WA4EBN	18,576	148	(91)	48	W8ERD	30,899	243	(97)	53
K6XO/M	252	14	(0)	9	N4OHV	6,232	82	(0)	38	N81Q	17,280	144	(144)	40
Ventura					Louisiana					Oklahoma				
W6TKF	23,535	200	(123)	45	*KZ5D	38,988	310	(102)	54	*W5TZN	27,650	254	(45)	50
N6VR	12,751	130	(51)	41	Maine					Oregon				
N6NKN/M	0	1	(0)	0	KC1BS	3,416	61	(0)	28	KA7KDJ	29,484	273	(0)	54
Yolo					Maryland/DC					Pennsylvania				
K6XO/M	320	14	(4)	10	W3HQU	30,645	227	(227)	45	*N6CQ/3	64,314	483	(225)	54
Yuba					Massachusetts					South Carolina				
W6BSY (CE)	35,412	295	(91)	52	W3DYA	5,022	54	(54)	31	K4ADI	13,188	146	(22)	42
Out of State					Michigan					South Dakota				
Alabama					Minnesota					Tennessee				
N4JF	4,185	50	(35)	31	*KI0F	52,839	421	(85)	57	*K4LTA	65,448	501	(210)	54
Alaska					Mississippi					Texas				
WL7K	5,776	76	(0)	38	*K5MK	23,688	200	(104)	47	*N5JB	73,872	575	(146)	57
NL7D	180	10	(0)	9	N5KGY	10,086	123	(0)	41	WD5K	70,281	498	(237)	57
Arizona					Missouri					Virginia				
AK7J	1,440	24	(8)	20	WDOARX	5,940	55	(55)	36	W4XD	17,040	142	(142)	40
WA7NWL	544	16	(0)	17	Montana					Washington				
Arkansas					Nebraska					West Virginia				
WU5A	9,312	97	(0)	48	*KV0I	74,536	577	(177)	56	NR8A	4,050	57	(21)	30
KY5M	966	23	(0)	21	AK0G	24,531	190	(101)	51	W8VEN	1,656	36	(0)	23
Colorado					Nevada					Wisconsin				
KA1MPF/0	3,600	50	(0)	36	NC7K	31,824	268	(88)	51	*NOBSH/9	102,828	839	(126)	57
KALOWM	1,134	22	(19)	18	AE7K	900	25	(25)	12	KB9S	69,141	536	(141)	57
Connecticut					New Hampshire					Wyoming				
WA1FCN	21,500	188	(124)	43	KB1PZ	48	4	(4)	4					
NC1E	19,866	164	(134)	43	New Jersey					Maritime				
K1ZZ	15,867	151	(67)	43	NJ2D	18,568	172	(78)	44	VO1AW	3,425	48	(41)	25
K1BV	9,990	106	(58)	37	W2KHT	11,088	119	(70)	36					
N1CC	3,051	50	(13)	27	WA2UDT	10,824	115	(34)	41					
K1KI	672	16	(16)	14	W2NZH	10,212	92	(92)	37					
K1TN	390	13	(13)	10	W2GD	4,256	51	(50)	28					
Delaware					New Mexico									
*K3HBP	17,480	140	(100)	46	*W5FS	20,636	163	(143)	44					
Florida					New York									
*K4XS (WC4E op)	118,726	922	(203)	58	*W2HG	41,184	337	(118)	52					
KN4Y	14,391	123	(123)	39	KQ2M	34,169	270	(187)	47					
KO4J	9,424	105	(38)	38	NQ2O	30,879	245	(167)	47					
N4OKD	5,518	62	(54)	31	NZUN	13,299	120	(101)	39					
N4LC	5,490	61	(61)	30	WA1KKM	11,448	125	(68)	36					
WK4F	2,250	45	(0)	25	N2AZS	5,049	51	(51)	33					
K4GF	714	21	(0)	17	W2DW	4,929	53	(53)	31					
Georgia					North Carolina									
*WX4G	117,392	889	(246)	58	AA4NC	40,800	342	(132)	50					
AA4GA	49,816	400	(158)	52	KF4GW	5,832	81	(0)	36					
K4BAI	30,624	232	(232)	44	KA4OVZ	4,278	46	(46)	31					
Hawaii					North Dakota									
*AH6AZ	25,208	223	(102)	46	*WA3PWL	49,000	384	(107)	56					
Idaho					Ohio									
N7HJM	20,482	159	(100)	49	KK0Q	4,680	52	(52)	30					
Illinois					Oklahoma									
K9BG	61,674	444	(192)	57										
WA0AVL	61,560	450	(180)	57										
WB9JKI	44,202	324	(186)	53										
K9ZO	9,720	108	(54)	36										
KD9OT	9,072	108	(0)	42										
K9HRC	1,890	35	(35)	18										
KA9IMX	288	12	(12)	8										
Indiana					Oregon									
*KB0C	37,692	349	(0)	54										
AJ9C	35,424	272	(112)	54										
KD9BG	8,686	101	(0)	43										
NU9C	1,134	27	(0)	21										
Iowa					Pennsylvania									
W0JTC	10,212	92	(92)	37										
K0SRL	2,782	50	(7)	26										
Kansas					South Carolina									
NOFMR	23,985	195	(143)	45										
WA0TKJ	3,630	50	(10)	33										

Quebec				
*VE2EDK	11,560	103	(83)	40
VE2EDL	10,212	92	(92)	37
VE2ABO	54	6	(6)	3
Ontario				
*VE3KK	19,926	164	(158)	41
VE3BQL	10,138	100	(74)	37
VE3BXY	6,400	80	(0)	40
VE3IPS	3,264	45	(12)	32
Saskatchewan				
VE5AGM	5,346	54	(54)	33
British Columbia				
VE7SK	72,561	553	(167)	57
VE7IQ	12,768	127	(82)	38

NWT-Yukon				
VE8CM	4,176	58	(0)	36
Asia				
JH7WKQ	3,042	39	(39)	26
JA9YBA (JA9VDA, JH9OAM ops)	72	6	(0)	6
Europe				
LA8PF	5,280	56	(53)	32
EA4BVE	56	7	(7)	4
South America				
ZY4VD	3,240	54	(0)	30

Check logs: W0ZYJ, K2AU.



**NCCC
CQP
'87**

APPLICATION FOR
WORKED ALL CALIFORNIA COUNTIES AWARD

SPONSORED BY

NORTHERN CALIFORNIA CONTEST CLUB

COUNTY	STATION WORKED	CITY	COUNTY	STATION WORKED	CITY
ALAMEDA	_____	_____	ORANGE	_____	_____
ALPINE	_____	_____	PLACER	_____	_____
AMADOR	_____	_____	PLUMAS	_____	_____
BUTTE	_____	_____	RIVERSIDE	_____	_____
CALAVERAS	_____	_____	SACRAMENTO	_____	_____
COLUSA	_____	_____	SAN BENITO	_____	_____
CONTRA COSTA	_____	_____	SAN BERNARDINO	_____	_____
DEL NORTE	_____	_____	SAN DIEGO	_____	_____
ELDORADO	_____	_____	SAN FRANCISCO	_____	_____
FRESNO	_____	_____	SAN JOAQUIN	_____	_____
GLENN	_____	_____	SAN LUIS OBISPO	_____	_____
HUMBOLT	_____	_____	SAN MATEO	_____	_____
IMPERIAL	_____	_____	SANTA BARBARA	_____	_____
INYO	_____	_____	SANTA CLARA	_____	_____
KERN	_____	_____	SANTA CRUZ	_____	_____
KINGS	_____	_____	SHASTA	_____	_____
LAKE	_____	_____	SIERRA	_____	_____
LASSEN	_____	_____	SISKIYOU	_____	_____
LOS ANGELES	_____	_____	SOLANO	_____	_____
MADERA	_____	_____	SONOMA	_____	_____
MARIN	_____	_____	STANISLAUS	_____	_____
MARIPOSA	_____	_____	SUTTER	_____	_____
MENDOCINO	_____	_____	TEHAMA	_____	_____
MERCED	_____	_____	TRINITY	_____	_____
MODOC	_____	_____	TULARE	_____	_____
MONO	_____	_____	TUOLUMNE	_____	_____
MONTEREY	_____	_____	VENTURA	_____	_____
NAPA	_____	_____	YOLO	_____	_____
NEVADA	_____	_____	YUBA	_____	_____

W.A.C.C. RULES

1. Contacts may be made on any amateur radio band or mode. (NO repeater or digipeater contacts allowed.)
2. QSL cards for contacts made on or after October 1, 1987 may be submitted for the W.A.C.C. award.
3. A QSL card must be presented for each of the 58 counties.
4. Each QSL card must have the county claimed, printed or written, on the card by the person issuing the card.
5. All your contacts must be made from the same country.
6. Portable and Mobile units may be worked.
7. You do not have to be a member of the NCCC.
8. Your QSL cards will be returned with the W.A.C.C. Award.
9. Send your application and 58 QSL cards and \$3 or 10 IRC's (to cover expenses) to:

NCCC W.A.C.C Award
K6ZM
44 Toyon Terrace
Danville CA 94526.

YOUR CALL _____

YOUR NAME _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

OFFICIAL USE ONLY: Certificate No. _____