



Publication of the  
Northern California  
Contest Club



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NCCC Net  
Thursday 8 PM  
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## Our Next Meeting NCCC Annual Awards Dinner

**March 14, 2005:** 6 PM shmooze, 6:30 PM dinner and awards.

RSVP to [K6UFO](mailto:K6UFO) with entrée choice by 5pm Friday, March 11, 2004

Light appetizers and no-host bar featuring: Brewery-Fresh Tied House Beers and California Wine Selections

Buffet Dinner Service Featuring:

House made Chicken Sausages, Grilled Beer Mustard Chicken, Tied House Rice Pilaf, Black Beans, Fresh Vegetables, Green Salad and of course, fresh-baked Bread.

Vanilla Bean Ice Cream will be served following dinner.

Non-Alcoholic beverages will be served with dinner (included)

\$25.00 Per Person, Inclusive

### NCCC Officers

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## The California QSO Party 2004

**Al Maenchen, AD6E**

After several banner years, when CQP set activity records each and every year, 2004 was beset with the lowest solar activity in a decade ... Yet, we did it again!

We received a total of 662 logs (compared to 649 logs a year ago). More logs; another activity record. Considering where we are in the solar cycle, this really shows what a lot of people can do to have fun in a weekend.

### SINGLE OP RESULTS – CA

This year, N6ED piloted K6NA in San Diego to a close, but convincing win with 346k points, 2,559 QSOs and a sweep. Once again, K6LA pulled out a second place S/O finish with almost 340k, 2,444 QSOs, and a sweep.

K6LA actually made almost 120 more CW contacts. The CW/SSB score ratio was to Kens' advantage, but not enough to overtake Craig who made 234 more SSB contacts. Another 38 CW QSOs for Ken and we would have had a different outcome!

For the second year in a row, K6XX made the top three group with an excellent showing of 335k, 2,373 QSOs, and a sweep. Bob beat everybody in the CW count with 1,033 CW contacts. But, again, the point advantage for CW wasn't enough when coupled with 1,340 SSB contacts to pull ahead of K6LA or K6NA. Another 27 CW contacts would have matched K6LA in total score, and 65 more CW contacts would have won the whole banana.

Low power competition was just as tight as K6AM edged out AA6PW for the low power top honors; 256k to 252k. Another 26 CW QSOs for Bob would have changed that race. KX7M, a county expedition, was a bit further back with 215k to claim the #3 spot

The top 20 S/O stations are also the CA wine winners. You can see those stations on the awards page, and what it takes to win the wine in CQP. It takes a score of > 215k to win the wine .. which is close to the same as last year.

### SINGLE OP RESULTS – non CA

The non-CA S/O results find K5TR again on top of the pile. This was not nearly as close as the squeaker last year, when George won by only 10 QSOs. This time, George was the only non-CA station to break 1,000 QSOs (1,136 after log checking). W8MJ came in second with 999 QSOs, and KE9I came in third with 965 contacts. Of course, all three made complete sweeps of all CA counties.

The W8MJ effort is all the more impressive because Ken did this with low power and, thus, winning the Low Power category. In chase was WD5K with 743 low power contacts, and K7SV with 661 low power QSOs. Honorable Mention goes to WA3HAE with 657 low power QSOs.

Again, if you look at the non-CA wine list, you'll see the top 20 single ops and what it takes to win the wine from outside CA. It gets tougher every year.

### MULTI-SINGLE -

The race for top CA Multi-Single was another tight one with the County Expedition of W6PT (289k) edging out the gang at K6VO (284k) and the school station of W6YX (279k). W6PT actually had fewer QSOs than either K6VO or W6YX, but the significantly higher ratio of CW to SSB tipped the balance.

	CW	SSB	total	Mult	Score	
W6PT	869	1195	2064	58	289,971	MS C
K6VO	738	1345	2083	58	284,519	MS
W6YX	650	1431	2081	58	279,154	MS S
K6C	787	771	1558	57	222,471	MS C
K6L	714	828	1542	58	220,284	MS C
N6UUG	6	1533	1539	58	179,017	MS
N6YEU	561	458	1019	56	145,544	MS L C
N6RC	470	520	990	56	137,284	MS C
N6KI	300	513	813	56	107,856	MS
W6FRH	206	523	729	54	89,991	MS
AB6WN	0	723	723	57	82,479	MS
W6M	0	709	709	56	79,408	MS L
W6ASP	0	318	318	50	31,850	MS L
K6ST	0	310	310	51	31,671	MS L C
W6SF	8	185	193	46	18,124	MS L
W6KA	0	68	68	30	4,110	MS L C

Note that many of these are also CA county expeditions. This list ignores the M/S.

There were only five Non-CA M/S teams this year compared to 14 last year. W5KFT easily won this category with almost twice the score of the nearest rival.

	CW	SSB	total	Mult	Score	
W5KFT	209	21	230	54	36,207	MS
K0BGL	64	91	155	51	19,201	MS
NW7MT	0	149	149	50	14,950	MS L
KC7KFF	0	129	129	47	12,173	MS L S
K8MHO	58	51	109	40	11,040	MS L

### MULTI-MULTI -

The biggest score by any station any where was (again) the massive N6O effort put out by the Radio Oakley M/M folks. They operated five transmitters, and have set M/M records several years in a row, but has now missed setting a new record for the last two years.

Not so close behind were the county expeditions of KS6U, and then NM6G. N6O had almost double the score of the nearest competitor.

	CW	SSB	total	Mult	Score	
N6O	1695	3192	4887	58	665,347	MM
KS6U	1028	1488	2516	58	351,480	MM C
NM6G	748	1051	1799	58	252,213	MM

### MOBILES -

The most active mobile, in terms of total QSO count was, again, K6AQL operated by K0DI and K0KTZ who took turns driving and operating through 24 different CA counties, and made a total of 1,661 QSOs. Following these masters was the mobile team of W6OAT, AI6V and K2RD who drove through 19 counties including some of the rarest. W6OAT made a total of 958 QSOs.

In a last moment crisis, the County Expedition of N6A failed to materialize in tiny Alpine county. The CQP County Coordinator, N6TV, convinced the W6OAT team and also W6IXP to mobile up to Alpine to insure that county would get at least double coverage. Other CA mobiles included W6K (W6KY op), N8WP, N6VAW, and K6VVA. All in all, CA mobiles were active in at least 44 counties!

Several non-CA mobiles also joined the fun. Entries were received from these stations:

K5EJL (TX) AF3X (TN)  
W8AKS (SC) W6IXP (OR)  
K6III (OK) W00OG (OK)  
K0KA (MO, K6III op)  
KX6SUB (IA, K6III op)  
KF4GL (FL).

### COUNTY EXPEDITIONS -

County Expeditions are Field Day style operations from rare counties, or at least a nice location that's off the beaten path. Seventeen different County Expeditions were active in 18 different counties. This odd arithmetic is due to the county line operation of AD6E. These operations ranged from simple S/O to complex M/M.

Top S/O Expedition score goes to AD6E (225k) who set up on the Sutter/Yuba county line and operated among several bee hives on the Feather river. Close behind were W6PZ (222k) operated by K6SRZ in Trinity county and KX7M (215k) operating from Placer county. KX7M also placed 1<sup>st</sup> in the S/O Low Power category.

The top M/S Expedition score was, again, W6PT (290k) in Imperial county, and the top M/M Expedition was KS6U (351k) in Modoc county.

Of special note was the combined Expeditions of K6L (Lake) and K6C (Colusa). These two stations were located about 100 yards from each other and manned by the same operators.

	Mult	CW	SSB	County	Score	
AD6E	56	877	693	Sutter/Yuba	225,092	SO
W6PZ	58	882	597	Trinity	222,865	SO
KX7M	56	926	535	Plumas	215,488	SO L
W6ML	58	808	618	Mono	212,338	SO
N6ZFO	57	751	700	Tehama	208,363	SO L
ND6E	54	0	381	San Benito	41,202	SO L
N6LL	48	237	39	Tulare	37,944	SO L
N7VS	34	16	106	Del Norte	8,840	SO L
KC6MZY	31	0	81	Del Norte	5,053	SO L
W6PT	58	869	1195	Imperial	289,971	MS
K6C	57	787	771	Colusa	222,471	MS
K6L	58	714	828	Lake	220,284	MS
N6YEU	56	561	458	Yuba	145,544	MS L
N6RC	56	470	520	Glenn	137,284	MS
K6ST	51	0	310	Sierra	31,671	MS L
W6KA	30	0	68	Inyo	4,110	MS L
KS6U	58	1028	1488	Modoc	351,480	MM

#### SWEEPS -

A big part of the fun is to work all 58 multipliers. Despite the huge participation of CQP this year it was not so easy to make the "sweep".

Only 30 out-of-state stations managed to work a complete CA sweep. The toughest county by far was Alpine.

The very first sweep was made by N4PN when he worked N6BT in San Benito county at 21:59Z. That's only 5 hours and 59 minutes into the contest. Congratulations!

#### Sweeps of all CA counties by non-CA:

K5TR	N8BJQ	KO7X	NW7E
W8MJ	WD5K	WA4PGM	K5CWR
KE9I	K7SV	NU8Z	VE3NZ
N4PN	KK1L	K4BEV	VE3KP
K5YAA	N8II	W1RAN	VE3CR
N2CU	WA1FCN	K0AXU	VE3AGC
N5JB	N4ZZ	W4NZ	VE3RM
VY1JA	VE3XN		

In California, only 36 stations found all 50 US states plus all eight Canadian call districts for sweeps. This is the only state QSO party where the number of multipliers is the same for both in-state and out-of-state operators. The toughest mult was North Dakota with Hawaii being a close second.

The very first sweep from CA was made by K6LA at 23:35Z or 7 hours and 35 minutes when he contacted W7QAN in Idaho. Congratulations!

#### Sweeps of all states and provinces:

N6O	W6PT	W6XU	NT6K	AA6G
KS6U	KF6T	N6HC	W6PZ	N6UUG
K6NA	K6VO	K6AM	K6L	KJ6GQ
K6LA	W6YX	NM6G	W6ML	W6TKV
K6XX	K6IF	AA6PW	WB6L	N6JV
W6TK	N6NF	K6MR	W6JTI	KA6BIM
AE6Y	N6IJ	K6RIM	N6XI	W6AFA
WA6FGV				

#### CLUBS -

CA Club competition is again a run away with the Mother Lode DX & Contest Club putting together another major effort that resulted in 24 logs totaling almost 2.5 million points. However, the Redwood Empire club is putting up some serious competition with 19 logs and over 1.8 million points which is more than double the same score they achieved last year. The West Valley club also made a significant improvement by increasing their score by 15 times!

In the non-CA club competition, there has been an upset! Contest Club Ontario manufactured a truly amazing club score with no less than 30 logs totaling over 1.1 million points! Second place goes to the South East Contest Club with 20 logs and almost 758k points. The Tennessee Contest Group made another excellent showing, but it was not enough to beat rival CCO, and fell just a nose behind SECC. TCG had 20 entries totaling 721k points, which beat their own record setting score last year. Obviously, the Club competition of CQP is a great way to get your club active and involved in contesting.

CA Clubs	# Logs	Total
Mother Lode DXCC	24	2,482,788
Redwood Empire DXCC	19	1,848,074
West Valley ARA	5	465,132
Caltech ARC	3	450,624
San Fernando Valley ARC	5	101,998
Livermore ARK	4	42,668

non CA Clubs	# Logs	Total
Contest Club Ontario	30	1,157,252
South East Contest Club	20	757,963
Tennessee Contest Group	20	721,396
Society of Midwest Contesters	8	378,243
PVRC	9	373,524
Mad River Radio Club	4	280,721
Florida Contest Group	10	235,031
Frankfort Radio Club	6	220,962
Yankee Clipper Contest Club	8	185,502
MN Wireless Association	7	185,247
Western New York DXA	3	161,237
Willamette Valley DX Club	3	28,773

#### SCHOOLS-

The school competition has turned into a spirited fight between Stanford and Cal Tech. Again this year, the school competition was just barely won by Stanford, W6YX. This was a multi-operator group. A serious challenge was offered by the Cal Tech station, W6CIT piloted by N6AN. No other CA schools were heard from. In the non-CA school competition, Carl Hayden HS in AZ won this years' plaque. Several other schools have sent in logs in the past, but not this year.

### School competition

<b>W6YX</b>	Stanford	MS	279,154
<b>W6CIT</b>	Cal Tech	SO	232,360
<b>KC7KFF</b>	Car Hayden Community High School ARC	MS	12,173
<b>LY3BA</b>	Kaunas University of Technology Radio Club	SO	2,436

### QRP-

The number of QRP stations in CQP has remained fairly steady since this category was first introduced five years ago. This year we had 29 QRP logs, down slightly from 32, 30, 22, and 18 for the past four years. They are noted in the results tables with a "Q" after their score. Top CA QRP station was W6AQ in Los Angeles who made 507 QSOs and finished with 68,061 points. Second place CA-QRP is N6WG with 61,416 points.

Top non-CA QRP station was WA4PGM in VA who worked 476 QSOs mixed with a score of 70,963. In second place, WA0VBW with 508 QSOs, but 68,913 points. It's interesting to note that even the second place non-CA managed to out score the top CA station.

### QRP stations:

<b>WA4PGM</b>	<b>W8TM</b>	<b>NK6A</b>	<b>WC7S</b>	<b>AA1CA</b>
<b>WA0VBW</b>	<b>W6RCL</b>	<b>K4AQ</b>	<b>N5WLA</b>	<b>K2QO</b>
<b>W6AQ</b>	<b>NA4BW</b>	<b>W4SK</b>	<b>KE4OAR</b>	<b>VE3IGJ</b>
<b>N6WG</b>	<b>NJ4X</b>	<b>W1KLM</b>	<b>N2JNZ</b>	<b>KG6TGI</b>
<b>VA3DF</b>	<b>N0UR</b>	<b>KE0G</b>	<b>K6MI</b>	<b>K4IR</b>
<b>WB0IWG</b>	<b>WA6NOL</b>	<b>N18W</b>	<b>W2VMX</b>	

### RECORDS -

Despite the sunspot slide, 22 new records were set this year. All existing records can be viewed at <http://www.cqp.org/Records.html>

Several new records were set from the various CA counties, and the various states. Also, new records were set for the non-CA QRP score, and the non-CA club score. Congratulations to all of the new record holders!

### New County Records in California

El Dorado	<b>K6LRN</b>	200,326
Mendocino	<b>K6IF</b>	269,787
Mono	<b>W6ML (W6KC op)</b>	212,338
Placer	<b>KF6T</b>	289,246
Plumas	<b>KX7M</b>	215,488
Santa Cruz	<b>K6XX</b>	335,182
Shasta	<b>K6MR</b>	244,644
Sonoma	<b>W6XU</b>	267,119
Sutter	<b>AD6E (county line)</b>	225,092
Yuba	<b>AD6E</b>	225,092

### New State/Province Records

Alabama	<b>WA1FCN</b>	87,174
Arizona	<b>W7SW</b>	56,403
Indiana	<b>KE9I</b>	134,328
New York	<b>N2CU</b>	127,848
Oklahoma	<b>K5YAA</b>	127,513
South Dakota	<b>K0HW</b>	64,432
Vermont	<b>KK1L</b>	94,714
Virginia	<b>K7SV</b>	97,411
West Virginia	<b>N8II</b>	90,480
Wyoming	<b>K07X</b>	71,601

### Other New Records

Non-CA QRP	<b>WA4PGM</b>	70,963
Non-CA Club	<b>Contest Club Ontario</b>	1,157,202

### LOG CHECKING -

Our goal is to provide the best accuracy possible in these results. As always, nothing is perfect and there may be errors. Any error found after publication will be updated on the CQP web site: <http://www.cqp.org>.

Logs without specifically showing an operating category were entered as single op, high power. Many logs were received indicating an operating QTH very different than what others copied them to be on the air. In such cases, we used the vast majority of received reports rather than what was indicated in the log.

Before submitting any log, please review it to be sure it has complete and accurate information.

Log checking was tackled by K6III, W6OAT, KX7M, WX5S, N6RCE, W6ISO, and AD6E. Any simple copying error such as wrong NR, wrong QTH, or wrong call was penalized by reducing the score by 1/2 of that QSO. Double copying errors (e.g. wrong call and wrong NR) or worse were penalized by removing the QSO. The team used extensive search software to be as accurate as possible. Only QSOs that were either proven to be in error, or had a very highly probable error were reduced. No penalty was given by software alone. There was always a human judge to make the actual decision.

My thanks go to the log checkers who put in many hours of effort to get these results out. Their efforts have made these results more credible. Anyone who submitted a "soft" log can get a report file that details each and every deduction. Please send your request to [cqp@contesting.com](mailto:cqp@contesting.com).

### Soapbox:

Woo Hoo! My favorite contest always!  
- K6OWL

great contest, good conditions, I need MORE ANTENNAS!!  
N6AJR

Sorry for all the requests for repeats... That 138kV line decided to sing along with me during CQP. Thanks to all for helping me get those elusive counties and special thanks to

Rusty, W6OAT's crew for all those counties. Also thanks for W6IXP for QSY to 20 for my last one.

- **VYIJA**

Great Contest...10 meters was a pleasant surprise!

- **W6QE**

What a FUN and friendly contest. My first attempt, but was cut short due to NAVY duty. See you next year.

- **VE3RCN**

Lost the first 6 hrs of the contest to Home Improvements. This is the best score yet in the 3 plus years of the contest managed to get more mults and qso's this year that they other years.

Good to See 10mtrs open up for Sunday on the contest. managed to work my first CQP Rover W6IXP/r in Alpine county.

You know your score is not going to be high when you light up your main station computer only to hear "Snap! Crackle! Pop!" That feeling doesn't get any better when the backup computer does the same thing. I managed one computerless QSO in the last minute of the contest with hopes that it would help keep my beloved TN Contest Group at the top of the heap in non-CA clubs. Sometime between now and the next CQP, I-gotta- get a new PC for the shack!

- **N4JN**

Well done, super turn-out, looking forward to next year!

- **W3DCG**

My funniest incident. I spent the weekend "dog-sitting" my "grandpuppy," an attention and playtime craving 80lb behemoth. The dog kept me up all of Friday night and most of Saturday. So I was only half present for Saturday's hours of participation. Somehow, I managed to press a wrong button sequence on my MorseMachine when I stopped operating on Saturday. When I woke up Sunday and tried to jump in the fray, I discovered my dash/dot ratio had been changed from 3:1 to 1.5:1. It took me several minutes to figure out why it sounded wrong. I was afraid the Eprom of the irreplaceable and irrepairable keyer had finally expired after giving me 13 years of unmatched joy. In my sleep deprived panic, it took me an hour or so to find the command set to set it aright. [WHEW--a pre-SS bullet dodged!]

- **N8CPA**

I have never worked so many west coast stations in my entire life as during this contest, in particular on 40 meters. Great contest and I hope I was a new country for some of the participants.

- **CU2JT**

Great contest. Thanks NCCC!

- **N2CU**

Thanks to the CQP Committee for doing it again. Lots of activity from so many fixed stations that didn't have to worry if I missed a mobile in a county. Missed the first hour due to granddaughters soccer game and still completed the sweep at 2159z with N6BT in San Benito. Glenn out of the way early - was last for the sweep in 2003 with San Benito being next to last. Monitoring my score from last year and with only 3-4 minutes left on Sunday evening, it was exactly the same as last year - 133,980! Worked a few more before the end to improve over last year. Thanks to Rusty, W6OAT & K6AQL. K6AQL gave me the most contacts & counties. See you next year!!

- **N4PN**

Could hear a lot of my fellow VE3's working the contest that are members of CCO.

**VE3TPZ**

Twice as many contacts as last year!

- **N7BYU**

Murphy visited: Lost amp when went on 40m. Lost xcvr an hour later. Tree limb fell on open wire feeders, breaking one side. Got the message and QRT! Fun while it lasted.

- **W4BQF**

Wonderful QSO Party, I exceeded all my goals on this one. Sure listened a lot on 10 Meters with lots heard within 600 miles but no CA heard. It is a lot of fun working a QSO Party that sounds like SS. I heard one county Tulare that was on S&P and I didn't try catching but did not hear Alpine or Merced. I ended up 3 short and that is one less than last year with probably 60% more QSOs. Keep up the good work NCCC

Thanks and see you next year.

**KØHW**

This is the first time I ever made a sweep. Definitely the most popular QSO Party.

- **VE4YU**

MADE SWEEP AT THE VERY END OF THE CONTEST

- **KØ7X**

Tnx to Mork, K6UFO, for the encouragement to make a strong effort. Recently moved here to Arizona. Put up Neighborhood unfriendly "UGLY" 44 foot masts. Mni tnx to the mobile and county Expeditions!!! GREAT Fun contest! Congratulations on such success! 73 Gang,

- **W7SW**

Frustrating hearing W6s CQ over & over, not hearing me call as beam pointing somewhere else.

- **VR2BG**

First time CA QSO party contester. Very friendly operators and a pleasure to work almost all CA counties

- **VE3JAJ**

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It was great to work K6ME in Lassen near the end of the contest for my first and only Lassen QSO and find out that I was his first and only Quebec QSO! Also, my shack is unheated and, for a change, the temperature remained above freezing during the contest!

- **VE2AEJ** (VE3HX op)

Another fun year. Missed a sweep by one county (Tulare). Didn't work San Francisco & San Benito until the last hour! Glad to see 10m open up on Sunday afternoon. Thanks to the organizers for getting so many CA stations on the air, and a special thanks to all the county expeditions & mobiles.

- **K5IB**

Hard as usual, working USA on 40 meters into EU ssb band portion, nobody listening down on ssb also.

- **I4IKW**

Glad to see the tremendous turnout -- truly was a PARTY! CW was far more effective for me than SSB using Low Power.

- **WW6D**

After so many years, finally got the sweep. As always, super contest!

- **K7SV**

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## 2004 CQP Results - USA

SO = Single Op, MS = Multi-Single, MM = Multi-Multi,  
L = Low Power; Q = QRP; \* = new CQP record  
M = mobile, S = School

Alabama	cw	SSB	total	Mult	Score		
WA1FCN *	286	322	608	58	87,174	SO	L
K4ZGB	205	305	510	55	67,512	SO	L
K4NO	52	81	133	47	14,993	SO	L
AB4HR	0	72	72	28	4,032	SO	L
<b>Alaska</b>							
AL1G	21	269	290	57	34,257	SO	
<b>Arizona</b>							
W7SW *	265	124	389	54	56,403	SO	
W7ZR	0	205	205	55	22,605	SO	L
W7YS	116	0	116	42	14,616	SO	
NQ7G	0	55	55	35	3,850	SO	L
KD7DCA	0	38	38	25	1,900	SO	L
KD7KDO	0	39	39	24	1,896	SO	
K0BGL	64	91	155	51	19,201	MS	
<small>K0BGL, K6WLC, AB6CF, KG6LYL</small>							
KC7KFF	0	129	129	47	12,173	MS	L S
<small>N7UUJ +</small>							
<b>Arkansas</b>							
K5DB	267	342	609	57	84,787	SO	
W5OOO	218	107	325	54	46,872	SO	
K5ACO	66	83	149	44	16,016	SO	L
W1KLM	0	164	164	47	15,416	SO	Q
W5MK	62	54	116	42	12,390	SO	L
<b>Colorado</b>							
NW7E	177	123	300	58	45,066	SO	
KF0RT	2	178	180	55	19,910	SO	L
<b>Connecticut</b>							
W1RAN	257	168	425	58	64,206	SO	
K1KI	281	0	281	54	45,522	SO	
K1ZE	197	99	296	55	43,450	SO	L
W1JQ	154	88	242	53	33,814	SO	L
K1BV	106	94	200	51	25,806	SO	
N1ICL	0	161	161	46	14,812	SO	L
W1KE	0	85	85	41	6,724	SO	L
AB1DO	0	4	4	4	32	SO	L
<b>Delaware</b>							
N8NA	173	75	248	54	36,180	SO	L
KE3T	0	101	101	37	7,511	SO	L
NY3C	16	37	53	28	3,416	SO	L
<b>Florida</b>							
KN4Y	284	0	284	50	42,675	SO	L
WX4G	165	156	321	51	41,157	SO	
NF4A	83	173	256	53	31,667	SO	L
K4ADR	0	261	261	57	29,754	SO	L
K4JAF	0	270	270	52	28,132	SO	L
NJ2F	0	230	230	55	25,300	SO	L
W4ARM	75	51	126	4	13,509	SO	L
K8OSF	6	108	114	45	10,642	SO	L
W4YA	87	0	87	38	9,918	SO	
KF4GL	0	53	53	39	4,134	SO	L M
N4GI	25	12	37	23	2,277	SO	
KG4MWO	0	19	19	18	702	SO	L

## Georgia

N4PN	366	579	945	58	130,906	SO	
K4BAI	394	347	741	56	105,112	SO	
AA4GA	268	325	593	57	82,878	SO	L
N4GG	289	170	459	55	66,385	SO	
K4EA	128	325	453	57	59,023	SO	
AE4Y	112	152	264	54	57,456	SO	L
WA4TII	0	361	361	56	40,992	SO	
K4PIC	93	172	265	52	32,526	SO	
NA4BW	121	141	262	49	31,678	SO	Q
W4BQF	179	0	179	51	27,387	SO	
WW4LL	108	120	228	47	26,508	SO	L
K4AQ	119	19	138	44	17,446	SO	Q
WB4SQ	59	82	141	49	16,758	SO	L
W3DCG	111	16	127	39	14,293	SO	L
AA4LR	29	105	134	46	13,731	SO	L
KU8E	64	27	91	38	9,386	SO	L
WB5RYB	74	22	96	33	8,778	SO	
W4BW	0	98	98	35	6,860	SO	L
KF6JG	0	77	77	32	4,928	SO	L
K4IR	33	0	33	21	2,079	SO	Q
K4GA	29	0	29	18	1,566	SO	L

## Hawaii

KH6FI	10	121	131	47	12,831	SO	
KH6GMP	0	82	82	35	5,775	SO	L

## Idaho

no entry

## Illinois

AB9H	59	542	601	57	71,877	SO	
N2BJ	0	494	494	57	56,373	SO	
K9CW	327	0	327	55	53,955	SO	L
W3HDH	206	113	319	48	40,512	SO	
N9NT	110	101	211	50	26,600	SO	L
W9OBG	0	213	213	54	23,004	SO	L
N9ALC	0	102	102	42	8,568	SO	L
N9LZ	0	107	107	39	8,346	SO	L
KM0TO	11	48	59	36	4,698	SO	L
WD9FEN	0	38	38	29	2,240	SO	
N0ICV	0	7	7	6	84	SO	L

## Indiana

KE9I *	386	579	965	58	134,328	SO	
K9JWI	241	0	241	51	36,949	SO	L
K9WX	154	72	226	47	28,552	SO	L
KA9F	127	30	157	49	19,404	SO	L
N9LF	0	60	60	33	3,960	SO	L

## Iowa

KX6SUB	0	49	49	30	2,970	SO	L M
<small>K6III op</small>							
AB0YT	0	21	21	17	714	SO	L

## Kansas

W0BH	110	110	220	53	29,203	SO	
WB0YJT	6	196	202	53	21,809	SO	L
N0QE	51	120	171	49	19,257	SO	L
WA5SWN	0	100	100	42	8,400	SO	L
W0IE	0	104	104	40	8,360	SO	L
KA0EIC	0	31	31	29	1,827	SO	L
WB0UZM	0	19	19	18	684	SO	L
KC0DEB	0	11	11	11	253	SO	L

## Kentucky

KM4FO	219	175	394	51	51,484	SO	L
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N4HID	0	378	378	56	42,336	SO			
K4WW	104	145	249	50	30,175	SO L			
KD4ULE	0	125	125	47	11,797	SO L			
WA4VAP	0	116	116	41	10,512	SO L			
WB4QNG	0	72	72	37	5,328	SO L			
KC4WQ	11	0	11	13	429	SO			
<b>Louisiana</b>									
N5II	141	175	316	54	41,796	SO L			
AF5P	126	183	309	55	40,292	SO			
N5YE	70	258	328	54	39,204	SO L			
KA5M	108	147	255	54	33,372	SO			
<b>Maine no entry</b>									
<b>Maryland</b>									
K3TW	220	214	434	56	61,012	SO			
WA1LWS	249	21	270	50	39,575	SO L			
K3DI	126	105	231	52	30,654	SO L			
K3PRN	0	29	29	21	1,218	SO L			
<b>Massachusetts</b>									
K1HT	180	132	312	54	43,416	SO L			
NB1B	222	0	222	53	35,377	SO L			
K5ZD	41	26	67	32	5,648	SO L			
AD1C	26	10	36	22	2,189	SO L			
W1CRK	0	31	31	22	1,364	SO L			
N1NN	19	0	19	13	760	SO			
<b>Michigan</b>									
W8MJ	406	593	999	58	139,490	SO L			
NU8Z	218	283	501	58	70,847	SO L			
N8KSO	151	229	380	57	51,927	SO			
NG8U	173	120	293	55	41,800	SO L			
K8GT	136	116	252	52	33,358	SO L			
K8IR	112	96	208	50	26,400	SO L			
W8WAY	0	124	124	47	11,656	SO L			
N8UZE	10	80	90	42	8,085	SO L			
W8DJC	0	100	100	38	7,600	SO L			
W8SGZ	0	89	89	41	7,298	SO L			
K8VFR	52	0	52	32	4,992	SO L			
W8WVU	44	0	44	31	4,092	SO L			
K8MHO	58	51	109	40	11,040	MS L			
+ WD8S									
<b>Minnesota</b>									
WA0VBW	193	315	508	57	68,913	SO Q			
K0KX	194	279	473	55	62,782	SO L			
W0OPW	197	8	205	50	30,425	SO L			
WA0MHJ	111	115	226	52	29,406	SO L			
N0UR	130	69	199	50	26,400	SO Q			
WG0M	89	102	191	48	22,608	SO L			
K0AD	111	63	174	46	21,229	SO			
KE0G	95	0	95	47	13,395	SO Q			
WA2MNO	71	25	96	37	9,823	SO L			
K0MPH	42	38	80	34	6,868	SO L			
KA0JNG	0	54	54	31	3,348	SO L			
<b>Mississippi</b>									
N5KGY	0	225	225	53	23,850	SO L			
KJ5RC	0	100	100	45	9,000	SO			
WD5JNC	0	39	39	28	2,100	SO			
<b>Missouri</b>									
K0OU	218	146	364	56	53,116	SO			
K0AXU	165	199	364	58	51,794	SO L S			
K0TPY	224	50	274	54	41,688	SO L			
K5QQ	119	116	235	52	30,628	SO L			
NJ4X	0	259	259	52	26,936	SO Q			
KI0Y	0	193	193	55	21,230	SO L			
K0LWV	124	35	159	43	19,006	SO L			
K0PHB	0	174	174	53	18,444	SO L			
W0YZZ	73	63	136	45	15,525	SO L			
K0KA	0	24	24	19	912	SO L M			
K6III op									
<b>Montana</b>									
NW7MT	0	149	149	50	14,950	MS L			
WA7MT NW7O									
<b>Nebraska</b>									
N0WY	0	430	430	57	49,020	SO L			
<b>Nevada</b>									
KC7NUP	126	19	145	47	19,622	SO L			
N7ZT	0	43	43	40	3,440	SO			
K5RC, K7AO, W7VI									
<b>New Hampshire</b>									
W1END	105	0	105	45	14,175	SO L			
WA1Z	66	41	107	42	11,760	SO L			
AA1CA	72	0	72	36	7,776	SO Q			
WA1VKO	0	39	39	30	2,340	SO L			
<b>New Jersey</b>									
W2LE	150	142	292	56	41,188	SO			
W2LHL	224	73	297	49	40,082	SO L			
W2YC	162	100	262	53	36,411	SO			
W2UDT	133	156	289	50	35,625	SO			
WA2RY	54	128	182	46	19,228	SO L			
K2DBK	0	128	128	41	10,537	SO L			
KV2M	6	102	108	47	10,434	SO L			
W2LRO	60	39	99	40	10,320	SO L			
K2YSY	0	118	118	43	10,191	SO L			
N2LJ	0	4	4	3	24	SO L			
<b>New Mexico</b>									
K5AM	80	168	248	51	29,452	SO			
AD5BK	0	77	77	39	6,045	SO L			
N2ALE	0	34	34	24	1,632	SO L			
KC0LFQ	0	19	19	13	507	SO L			
<b>New York</b>									
N2CU *	445	431	876	58	127,484	SO			
NA2X	218	144	362	56	52,752	SO L			
K2ZR	212	0	212	50	31,800	SO L			
W2EZ	166	0	166	51	25,398	SO L			
W2WC	36	79	115	47	12,502	SO L			
N2JNZ	68	40	108	37	10,545	SO Q			
W3TB	71	7	78	35	7,945	SO L			
NS2P	4	93	97	39	7,761	SO L			
K2QO	64	12	76	29	6,307	SO Q			
K2YW	31	0	31	21	1,953	SO L			
<b>North Carolina</b>									
AA4FU	247	63	310	54	46,818	SO L			
N4AF	170	0	170	45	23,017	SO L			
W4ROT	0	52	52	33	3,465	SO L			
N4NTO	3	0	3	3	27	SO L			
W2VMX			0			SO Q			
<b>North Dakota</b>									
K0UD	3	95	98	39	7,800	SO L			
<b>Ohio</b>									
N8BJQ	361	403	764	58	109,649	SO			
W8GN	315	277	592	56	84,000	SO			
W8TM	242	0	242	51	37,026	SO Q			
W8PN	208	0	208	45	28,080	SO L			

W8CAR	143	56	199	48	26,016	SO	L
W8DHG	173	0	173	46	23,874	SO	L
KJ8F	0	205	205	53	21,730	SO	L
KB8UUZ	0	199	199	53	21,147	SO	L
W8IDM	134	26	160	46	20,884	SO	L
N8CPA	115	0	115	40	13,860	SO	L
KC8YKQ	0	94	94	45	8,460	SO	L
KV8Q	69	0	69	34	7,089	SO	L
KB8TPT	0	47	47	29	2,726	SO	L
W8KNO	0	44	44	30	2,670	SO	L
NI8W	22	0	22	17	1,122	SO	Q

### Oklahoma

K5YAA *	439	440	879	58	127,513	SO	
K0CIE	224	140	364	57	54,349	SO	L
K5UV	283	0	283	54	45,846	SO	L
W5TM	230	0	230	54	37,260	SO	L
W5PUF	0	226	226	55	24,860	SO	L
NE0P	62	73	135	42	13,944	SO	L
K5CM	74	49	123	43	13,760	SO	L
K6II	0	27	27	22	1,188	SO	L M
W0OOG	0	2	2	3	15	SO	L M

### Oregon

K0JJ	168	170	338	53	44,732	SO	
KI7Y	96	33	129	37	13,098	SO	L
WA6PX	66	11	77	30	6,645	SO	L
W6IXP	0	1	1	1	2	SO	L M

### Pennsylvania

WA3HAE	357	300	657	57	95,332	SO	L
W3BBO	344	0	344	56	57,792	SO	L
K3MD	138	256	394	55	50,930	SO	
W7LPF	203	107	310	57	46,996	SO	L
WB3DOM	188	131	319	54	44,604	SO	L
NA3V	159	97	256	55	36,905	SO	L
AA3ML	127	121	248	53	33,019	SO	L
K3WW	104	172	276	48	31,536	SO	
K3GY	145	104	249	46	29,578	SO	L
AA3B	175	0	175	48	25,272	SO	
KA3FZN	0	217	217	56	24,304	SO	L
K3SV	153	0	153	45	20,655	SO	L
KC3M	100	27	127	48	17,064	SO	L
KB3AGZ	0	104	104	46	9,614	SO	L
K3ALS	52	31	83	43	9,417	SO	
WA3AAN	77	0	77	39	9,009	SO	L
K3TX	54	0	54	28	5,436	SO	
K3VX	43	0	43	28	3,654	SO	L
K3JHT	29	0	29	25	2,175	SO	L
WB0IWG	0	38	38	27	2,052	SO	Q
KC2ZA	0	35	35	25	1,775	SO	
W3NGO	18	0	18	16	864	SO	L

### Rhode Island

W1WIU	0	90	90	39	7,020	SO	
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### South Carolina

KA4NWS	202	105	307	55	44,880	SO	L
W8AKS	0	98	98	40	7,840	SO	L M

### South Dakota

K0HW *	143	370	513	55	64,432	SO	
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### Tennessee

K4LTA	364	219	583	57	87,267	SO	
NA4K	322	276	598	57	86,611	SO	L
NY4N	255	346	601	57	83,134	SO	

N4ZZ	258	240	498	58	72,732	SO	
K4AMC	274	179	453	57	67,345	SO	L
K4BEV	236	208	444	58	65,250	SO	L
K4BP	0	438	438	57	49,932	SO	
W4NZ	185	141	326	58	48,691	SO	
N4TN	284	0	284	56	47,796	SO	L
W4HZD	195	0	195	52	30,498	SO	L
N4DW	163	43	206	51	29,452	SO	
WO4O	91	57	148	48	18,648	SO	L
W4SK	115	0	115	46	15,939	SO	Q
AF3X	14	142	156	47	15,322	SO	L M
WA4JA	0	153	153	50	15,300	SO	L
WA4OSD	37	100	137	48	15,000	SO	L
KE4OAR	45	77	122	40	11,600	SO	Q
W4TYU	91	0	91	41	11,193	SO	L
KC7ND	0	60	60	35	4,200	SO	L
AF4QB	0	62	62	31	3,844	SO	L
K3CQ	42	0	42	29	3,697	SO	
W4OGG	4	34	38	27	2,160	SO	L
W4BCG	0	39	39	24	1,872	SO	L
K1GU	20	0	20	16	984	SO	L
N4JN	0	1	1	1	2	SO	L

### Texas

K5TR	295	841	1136	58	148,886	SO	
N5JB	263	573	836	58	112,288	SO	
WD5K	336	407	743	58	105,734	SO	L
K5PTC	254	143	397	54	56,592	SO	
WB5KIA	154	151	305	54	41,256	SO	
K5IB	143	145	288	56	40,320	SO	L
N5PO	229	0	229	54	37,098	SO	L
K5CWR	105	99	204	58	29,899	SO	L
KD5LNO	0	253	253	55	27,830	SO	L
W5ASP	160	0	160	50	24,000	SO	L
W5ZL	107	64	171	50	22,525	SO	L
K5SF	88	61	149	49	18,987	SO	
K5WW	5	142	147	48	14,352	SO	L
N5WLA	95	0	95	41	11,746	SO	Q
N5VYS	0	112	112	46	10,304	SO	
KM5WR	64	97	161	53	20,537	SO	L
KD5OWO	0	89	89	41	7,298	SO	L
K5EJL	17	64	81	36	6,444	SO	L M
KC5ECO	0	48	48	27	2,592	SO	
AD6G	0	33	33	24	1,608	SO	L
W5KFT	209	21	230	54	36,207	MS	

### Utah

K5KG	148	0	148	43	19,156	SO	L
AF7O	70	93	163	48	19,080	SO	
N7BYU	10	0	10	10	315	SO	

### Vermont

KK1L *	202	513	715	58	94,714	SO	
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### Virginia

K7SV *	355	306	661	58	97,411	SO	L
WA4PGM	270	206	476	58	70,963	SO	Q
KM4M	181	75	256	51	35,470	SO	L
K4ORD	147	0	147	46	20,286	SO	
AD4AX	135	20	155	42	18,795	SO	L
N4JED	0	109	109	40	8,720	SO	L
K4GM	59	4	63	33	6,105	SO	L
KS4BO	0	76	76	39	5,928	SO	L
K4UK	38	0	38	25	2,850	SO	L



## Washington

K7QQ	254	0	254	49	37,338	SO
W7TMT	132	49	181	47	23,335	SO L
W7DPW	124	0	124	40	14,880	SO
W7AFA	114	0	114	39	13,338	SO L
WI7F	0	139	139	47	13,113	SO L
N7JB	53	47	100	51	12,903	SO L
N7EIE	119	0	119	36	12,852	SO L
K7OX	62	39	101	42	11,130	SO L
N7IZ	0	57	57	32	3,648	SO L
WA7NOH	31	1	32	14	1,330	SO L

## West Virginia

N8II *	221	448	669	58	90,480	SO L
K8JQ	315	0	315	55	52,057	SO

## Wisconsin

N9CK	217	0	217	49	31,899	SO L
A19X	73	76	149	43	16,060	SO L
K9JIG	0	146	146	52	15,184	SO L
KB9OWD	76	65	141	40	14,320	SO L
K9OSH	64	58	122	44	13,618	SO L
WW9R	0	107	107	48	10,320	SO L

## Wyoming

KO7X *	208	304	512	58	71,601	SO
W7SE	199	149	348	55	49,280	SO L
WG7Y	103	0	103	47	14,593	SO L
WC7S	99	0	99	42	12,537	SO Q

## Soapbox:

W6OAT's mobile has an excellent receiver.

- **W8TM**

good contest wish it was longer, hard to get calif stations to look north very much several operators here quit as they could not complete with the east.

- **WI7F**

20 Meters was good on Saturday and 15 Meters was great on Sunday. I am a fan of the CQP.

- **NIICL**

You've all got to be absolutely exhausted! Hi! Hi!

I know I am, for sure!!!! But quite pleased with the way the contest went. Once again I was very impressed with the patience exhibited by all the California Operators. Please give them all and yourselves a much deserved "Well Done"! Looking forward to next year(maybe 10 meters will open up a little longer)!

**K0TPY**

Wow a new personal best in this contest. Sure was great conditions.

- **WA1FCN**

Great contest as usual-looking for next year!!

**N0AXU**

Funny how birthdays get in the way of contesting. Had a great time, with a contest and a birthday. See you next year.

- **WC7S**

This is one of my favorite state QSO parties, and even though I operated part-time it was fun. 10 meters really opened up Sunday afternoon.

- **A19X**

Nice to see 10m and 15m open nicely for at least some of the time. Thrilled to finally get all 58 counties! Sierra was my last. I had 57 at just over 8 hrs into the contest. It took another 10 hrs of operating time to get the 58th! Thank you Rusty for all the roving QSOs.

- **KK1L**

Had a great time! How did you guys get 10 meter propagation up so high. California signals were rocking!

- **K4PIC**

Last year it was Glenn. This year it was Merced.

ONE of these years I will get that sweep! Made a good run at it and had a lot of fun giving out Nebraska. 15 meters was my bread and butter this trip. CU Next year!

- **N0WY**

Another great CQP. Overall, conditions were good and so was the level of activity. How did I miss Merced? - never even heard a Merced station! 15 was the "go to" band. 10 never really opened up here - worked a total of 7 California stations and that was tough going. Tough going on 40 and 80, especially for 3 watts. I appreciate the good ears and patience on the other end! Station: Argonaut 509; 3 el. Wilson tribander at 50 feet and tuned dipole.

- **WA0VBW**

Another fun QSOP, missed two counties Del Norte & Lassen. I didn't think I'd do as good as last year, but a nice opening on 10 meters on Sunday did the trick. Thanks for all the QSOs and hope to see you all in the PA QSOP next week. Special thanks to W6OAT and K6AQL.

- **W3BBO**

Great time again this year. Twin 6 year old sons both spent a few hours each helping out!

- **K4BP**

Great contest! Tripled my score from last year. Thanks for a great contest!

- **KD4GBA**

## 2004 CQP Results - CA

SO = Single Op, MS = Multi-Single, MM = Multi-Multi, L = Low Power; Q = QRP; C = County Expedition, M = mobile, S = School, \* = new CQP record

### Alameda

	CW	SSB	total	Mult	Score	
NO6X	769	35	804	51	121,227	SO
N6WG	426	0	426	48	61,416	SO Q
KI6OY	26	169	195	40	16,640	SO L
AD6MF	0	143	143	35	10,010	SO L
W6GPM	89	15	104	30	8,955	SO L
W6TCP	5	99	104	33	7,063	SO L
K6BIR	0	90	90	38	6,878	SO L
K6VVA	0	2	2	1	4	SO L M
W6OAT	31	0	31	20	1,860	MS L M
+K2RD, A16V						
K6AQL	31	0	31	18	1,674	MS L M
K0DI, K0KTZ						

### Alpine

N6A	149	23	172	37	18,333	SO L C
W6IXP	0	175	175	44	15,400	SO L M
W6OAT	86	21	107	35	10,587	MS L M
+K2RD, A16V						

### Amador

ND6S	51	637	688	55	78,567	SO L
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K6TA	316	0	316	45	42,660	SO
W6RKC	300	0	300	44	39,666	SO
K6BEW	11	311	322	52	34,112	SO
WA6SJQ	3	85	88	38	6,802	SO L
W6OAT +K2RD, A16V	88	0	88	35	9,292	MS L M

### Butte

K6KYJ	390	0	390	46	53,820	SO L
K6AQL K0DI, K0KTZ	26	0	26	8	624	MS L M

### Calaveras

AA6G	490	829	1319	58	181,424	SO
WK6I	172	905	1077	56	130,396	SO
W6OAT +K2RD, A16V	56	0	56	28	4,704	MS L M

### Colusa

K6C	787	771	1558	57	222,471	MS C
K6ENT W1SRD WJ6O N6DE						
K6AQL K0DI, K0KTZ	122	0	122	33	12,127	MS L M

### Contra Costa

N6PN	164	0	164	35	17,272	SO L
K6VVA	0	1	1	1	2	SO L M
K6AQL K0DI, K0KTZ	37	0	37	19	2,137	MS L M
W6OAT +K2RD, A16V	23	0	23	15	1,035	MS L M
N6O	1695	3192	4887	58	665,347	MM
N7FF, N6RO, WA6O, N6KLS, KJ6EN, K7NV, K6VVA, N6BV, WX5S						

### Del Norte

AD6YS	0	455	455	54	49,194	SO L
N7VS	16	106	122	34	8,840	SO L C
KC6MZY	0	81	81	31	5,053	SO L C

### El Dorado

K6LRN *	745	639	1384	57	200,326	SO
KG6CMS	421	535	956	57	132,981	SO L
W6OAT +K2RD, A16V	61	11	72	28	5,740	MS L M

### Fresno

AK7G	204	0	204	42	25,767	SO L
K6MI	13	157	170	25	8,850	SO Q
W6DPD	0	117	117	36	8,424	SO L
W6FRH	206	523	729	54	89,991	MS
+K6AAB, W6TE						
K6AQL K0DI, K0KTZ	39	2	41	21	2,541	MS L M

### Glenn

N6RC +N6RCE	470	520	990	56	137,284	MS C
K6AQL K0DI, K0KTZ	3	3	6	3	49	MS L M

### Humboldt

W6JTI	785	577	1362	58	203,580	SO L
AA6DX	160	76	236	40	25,380	SO L

### Imperial

W6PT K6QK, N7CW, NN6X, K6ZH	869	1195	2064	58	289,971	MS C
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### Inyo

W6KA W6JDG, AE6ME, KF6RRR, KJ6NO	0	68	68	30	4,110	MS L C
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### Kern

W6K W6KY	340	139	479	53	68,847	SO L M
K6AQL K0DI, K0KTZ	79	12	91	32	8,352	MS L M

### Kings

AA6GZ	0	195	195	49	19,159	SO L
K6AQL K0DI, K0KTZ	91	32	123	38	12,863	MS L M

### Lake

K6L	714	828	1542	58	220,284	MS C
K6ENT W1SRD WJ6O N6DE						

### Lassen

K6ME	3	437	440	54	47,736	SO L
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### Los Angeles

K6LA	971	1473	2444	58	339,880	SO
W6CIT N6AN	783	863	1646	57	232,360	SO S
W6AFA	0	1097	1097	58	127,252	SO
N6AA	300	404	704	50	85,525	SO
W6AQ	374	133	507	49	68,061	SO Q
KG6GNC	0	327	327	52	34,008	SO L
W6RCL	158	84	242	52	33,462	SO Q
W6IST	0	303	303	52	31,512	SO
WA6BOB	63	192	255	47	27,001	SO
W6QE	0	277	277	49	26,754	SO L
NK6A	178	23	201	43	25,004	SO Q
KN6Y	0	193	193	43	16,598	SO L
K6ZCL	74	106	180	34	14,756	SO L
AB6YL	0	140	140	44	12,320	SO L
N6GL	107	9	116	31	10,509	SO L
WB6NFO	0	105	105	36	7,560	SO L
K6MMC	0	105	105	30	6,300	SO L
NZ6L	0	16	16	15	495	SO L
W6K W6KY	0	7	7	5	70	SO L M
K6AQL K0DI, K0KTZ	71	17	88	30	7,410	MS L M

### Madera

KF6CNV	148	256	404	49	46,966	SO L
K6AQL K0DI, K0KTZ	82	0	82	33	8,118	MS L M

### Marin

K6RIM	966	645	1611	58	243,049	SO
K6CTA	250	0	250	39	29,308	SO
W6UDS	11	95	106	23	5,129	SO
N6VAW	0	70	70	19	2,660	SO L M

### Mariposa

W6OAT +K2RD, A16V	49	5	54	28	4,396	MS L M
NM6G	748	1051	1799	58	252,213	MM

### Mendocino

K6IF *	688	1293	1981	58	269,787	SO
K6CQE	0	114	114	35	8,015	SO L

### Merced

K6AQL K0DI, K0KTZ	82	0	82	34	8,415	MS L M
W6OAT +K2RD, A16V	52	0	52	30	4,725	MS L M

### Modoc

NT6K	828	780	1608	58	234,610	SO
KS6U	1028	1488	2516	58	351,480	MM C
K2DI, K4XU, K16Y, WS7N, K7YLO, W7YOW						

### Mono

W6ML * W6KC	808	618	1426	58	212,338	SO C
W6M W7AB, W7FD, W6LFO	0	709	709	56	79,408	MS L

### Monterey

N6IJ N16T	933	908	1841	58	267,815	SO
K6AQL K0DI, K0KTZ	63	51	114	39	11,349	MS L M

### Napa

KE6ZSN	427	868	1295	57	172,054	SO
W6OAT +K2RD, A16V	41	0	41	23	2,829	MS L M

**Nevada**

N6XI	689	681	1370	58	198,882	SO
W6FA	767	459	1226	56	180,320	SO
W6EU	816	0	816	52	127,296	SO
WB6JJJ	0	650	650	56	72,856	SO L
KI6IV	125	316	441	51	51,357	SO
KI6CG	0	260	260	44	22,924	SO
W6IXP	0	9	9	9	171	SO L M
W6OAT +K2RD, A16V	34	20	54	27	3,874	MS L M

**Orange**

N6HC	815	1046	1861	58	263,233	SO
AA6PW	897	827	1724	58	252,068	SO L
N6MU	515	79	594	52	88,556	SO L
W6ZL	400	154	554	49	73,965	SO L
N6VNI	0	130	130	33	8,580	SO L
KG6TGI	0	41	41	30	2,490	SO Q
WA6NOL	0	44	44	21	1,848	SO Q
N8WP	0	31	31	17	1,054	SO L M

**Placer**

KF6T	961	1052	2013	58	289,246	SO
K6DGW	772	151	923	54	141,453	SO
W6RFF	693	0	693	50	103,950	SO L
WX6V	272	59	331	46	43,033	SO L
W6SZN	51	1	52	27	4,185	SO L
W6OAT +K2RD, A16V	49	13	62	25	4,362	MS L M

**Plumas**

KX7M *	926	535	1461	56	215,488	SO L C
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**Riverside**

W6TKV	0	1336	1336	58	153,410	SO
W6DCC	364	220	584	53	81,249	SO L
W6FZA	497	0	497	48	71,568	SO L
AD6FR	35	104	139	32	10,016	SO L
AF6F	0	111	111	35	7,770	SO
W6K W6KY	0	26	26	18	954	SO L M

**Sacramento**

N6JV	528	527	1055	58	153,091	SO L
KI6T	298	350	648	53	84,482	SO
W6NKR	277	1	278	40	33,320	SO L
NU6T	0	49	49	29	2,871	SO L
W6VFA	2	59	61	21	2,604	SO L
K6AQL KODI, KOKTZ	96	0	96	37	10,711	MS L M
W6OAT +K2RD, A16V	20	9	29	18	1,404	MS L M

**San Benito**

ND6E K6EP	0	381	381	54	41,202	SO L C
K6VVA	102	12	114	40	13,260	SO L M
K6AQL KODI, KOKTZ	68	22	90	36	8,982	MS L M

**San Bernardino**

AD6WL	419	626	1045	56	140,588	SO L
K6EY	516	480	996	55	138,022	SO L
KD6KHJ	0	485	485	52	50,492	SO L
W6UFT	269	0	269	45	36,315	SO L
W6BBL	0	202	202	46	18,630	SO L
K6MCP	0	144	144	37	10,656	SO L
W6K W6KY	0	27	27	17	918	SO L M
K6VO	738	1345	2083	58	284,519	MS

K6NR NJ6N K6RBS KG6JAD AE6QT

**San Diego**

K6NA	852	1707	2559	58	346,405	SO
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K6AM	987	731	1718	58	256,592	SO L
WN6K	943	0	943	51	144,355	SO L
W6YOO	0	439	439	53	46,534	SO
WY7I	314	0	314	48	45,288	SO L
KC6MIE	0	334	334	49	32,732	SO L
N6VH	45	179	224	43	21,199	SO
N6NC	183	0	183	38	20,919	SO L
AA6EE	148	0	148	41	18,204	SO
N6XT	0	180	180	44	15,840	SO L
AE6AT	0	158	158	43	13,588	SO
AE6IC	0	141	141	40	11,280	SO L
KK6TV	0	113	113	42	9,534	SO L
KQ6PK	0	128	128	31	7,936	SO
WA3YTI	0	100	100	30	6,030	SO L
W6MVW	53	5	58	26	4,394	SO
NE6I	37	0	37	21	2,331	SO L
W6K W6KY	0	4	4	4	32	SO L M
N6KI	300	513	813	56	107,856	MS
N6KI, W5NYV, VE3GFW						
W6ASP	0	318	318	50	31,850	MS L

W6ASP, W6ABE, KD6AKT

**San Francisco**

K6OWL	221	63	284	43	33,927	SO L
KQ6NN	224	0	224	45	32,240	SO L
K6ILM	48	97	145	36	12,168	SO L
NC6P	0	36	36	11	792	SO L
N6VAW	0	8	8	6	80	SO L M

**San Joaquin**

KA6BIM	312	851	1163	58	153,004	SO
AA6K	0	300	300	48	28,848	SO L
AK6DV	0	42	42	13	1,092	SO
AB6WN	0	723	723	57	82,479	MS
W6SF	8	185	193	46	18,124	MS L
K6AQL KODI, KOKTZ	74	0	74	30	6,660	MS L M
W6OAT +K2RD, A16V	8	0	8	8	192	MS L M

**San Luis Obispo**

W6TK	908	1238	2146	58	301,600	SO
W6KFB	210	0	210	46	28,980	SO
K6AQL KODI, KOKTZ	27	0	27	21	1,732	MS L M

**San Mateo**

N6NF	938	904	1842	58	268,134	SO
W6ISO	196	490	686	54	84,672	SO
W6KPO	1	472	473	54	51,273	SO L
K6KLY	0	415	415	52	43,160	SO L
KE6JNO	2	97	99	32	6,432	SO L
N6VAW	0	3	3	3	18	SO L M

**Santa Barbara**

WA6FGV	507	296	803	58	122,641	SO
NN6DX	222	455	677	54	85,185	SO L
K6SGH	0	748	748	56	83,776	SO
KD4GBA	0	464	464	54	50,112	SO L
WB6KDH	0	48	48	16	1,536	SO L

**Santa Clara**

AE6Y	1010	1061	2071	58	298,816	SO
K6GT	422	737	1159	57	156,237	SO
W6AMM	582	468	1050	55	147,647	SO
KO6LU	246	251	497	55	68,282	SO L
AJ6V	453	0	453	49	66,591	SO
N6TV	373	0	373	44	49,302	SO

K6EU	45	330	375	49	39,004	SO	L
W6PRI	193	0	193	43	24,897	SO	L
K6WV	0	131	131	42	11,004	SO	L
AE6CW	0	138	138	35	9,747	SO	L
N6SPB	0	116	116	36	8,388	SO	L
K6RFM	3	95	98	33	6,600	SO	L
KG6RYB	0	48	48	18	1,728	SO	L
K6VVA	22	14	36	5	470	SO	L
WB6TQG	0	6	6	4	48	SO	L
W6YX	650	1431	2081	58	279,154	MS	S
K6UFO KJ9U W6RQ W6LD							
K6AQL	55	0	55	28	4,620	MS	L M
KODI, KOKTZ							

### Santa Cruz

K6XX *	1033	1340	2373	58	335,182	SO	
K6RB	862	519	1381	57	206,568	SO	
W6ZZZ	56	104	160	30	11,325	SO	L
N6VAW	0	20	20	13	520	SO	L M

### Shasta

K6MR *	735	1006	1741	58	244,644	SO	
KJ6GQ	0	1400	1400	58	162,400	SO	
NT6E	0	306	306	50	30,600	SO	L
N6RZR	0	298	298	49	29,204	SO	L
KK6MM	0	243	243	48	23,328	SO	L
W6IXP	1	0	1	1	3	SO	L M

### Sierra

W6IXP	0	2	2	2	8	SO	L M
K6ST	0	310	310	51	31,671	MS	L C
+KF6UHO							

### Siskiyou

KJ6RA	80	1014	1094	56	127,064	SO	
W6YJG	284	0	284	46	39,261	SO	L
W6IXP	0	34	34	19	1,311	SO	L M

### Solano

N6AJR	0	245	245	47	23,077	SO	L
KE6QR	66	133	199	46	21,390	SO	L
W6OAT	55	0	55	26	4,329	MS	L M
+K2RD, A16V							
K6AQL	55	0	55	24	3,960	MS	L M
KODI, KOKTZ							

### Sonoma

W6XU *	531	1505	2036	58	267,119	SO	
NM6E	418	490	908	55	122,952	SO	
WW6D	526	198	724	52	102,648	SO	L
K6RAD	24	297	321	48	32,040	SO	L
N6AD	242	0	242	42	30,555	SO	L
N7PIB	0	200	200	46	18,400	SO	L
KD6OTC	0	167	167	46	15,364	SO	L
WA6IKQ	134	0	134	35	14,070	SO	L

### Stanislaus

K6CSL	246	29	275	42	33,432	SO	L
N6EE	169	0	169	40	20,340	SO	L
K6AQL	55	0	55	25	4,125	MS	L M
KODI, KOKTZ							
W6OAT	23	0	23	16	1,104	MS	L M
+K2RD, A16V							

### Sutter

AD6E *	877	693	1570	56	225,092	SO	C
N6EM	259	361	620	55	82,527	SO	L
K6AQL	57	4	61	28	5,082	MS	L M
KODI, KOKTZ							
W6OAT	38	0	38	23	2,622	MS	L M
+K2RD, A16V							

### Tehama

N6ZFO	751	700	1451	57	208,363	SO	L C
W6JEX	0	115	115	35	8,050	SO	L
K6AQL	6	0	6	2	39	MS	L M
KODI, KOKTZ							

### Trinity

W6PZ	882	597	1479	58	222,865	SO	C
K6SRZ op							

### Tulare

N6LL	237	39	276	48	37,944	SO	L C
K6AQL	80	43	123	36	11,736	MS	L M
KODI, KOKTZ							

### Tuolumne

KI6PG	0	159	159	35	11,130	SO	L
N6UUG	6	1533	1539	58	179,017	MS	
+N6JS							
W6OAT	64	12	76	34	7,395	MS	L M
+K2RD, A16V							

### Ventura

WB6L	490	1074	1564	58	209,931	SO	L
KD6PQF	0	281	281	45	25,290	SO	L
W6RJQ	0	75	75	27	4,050	SO	L

### Yolo

W6OT	225	197	422	53	56,789	SO	L
N6SPE	0	35	35	25	1,750	SO	L
K6AQL	108	16	124	36	12,816	MS	L M
KODI, KOKTZ							
W6OAT	61	0	61	27	4,981	MS	L M
+K2RD, A16V							

### Yuba

AD6E *	877	693	1570	56	225,092	SO	C
N6YEU	561	458	1019	56	145,544	MS	L C
+KD6KVL							
K6AQL	52	0	52	20	3,150	MS	L M
KODI, KOKTZ							
W6OAT	28	0	28	20	1,710	MS	L M
+K2RD, A16V							

### Soapbox:

Put up a MA40 crank up mast with a XM-510 monobander fixed east that I used in Modesto so I was glad to see 10 open up and it seems to work better than a wire for 15 with a tuner. NT6K

I thought the sunspots were going-gone but you couldn't tell it by all the activity!

- **KF6T**

Congratulations to N6ED at K6NA for the big win. Band conditions and operator error plus a few visits from Murphy kept me out of the running. And I managed to miss KH6 despite repeated attempts to find or attract one. It was nice to work VR2BG Sunday morning on 20 meters along with all the other DX that called in during the contest. Thanks again to the tireless members of the NCCC who make this #1 QSO party happen every year. And thanks to all the big guns and little pistols around the USA who participate. You are the ones who make this so much fun.

- **W6CIT** (N6AN)

Best score I have had in CQP, even though only 10 hours on Sat and 30 minutes on Sun. Like everyone else I was pleasantly surprised on the the good conditions. Here the noise was almost nil. A couple of surprises were 2 JA's, a ZL and DL, all off the back of the beam. Felt good to be a wanted" commodity and have pileups on me.

**KI6IV**

Great contest -- best of the year!

**W6RCL**

Great contest. The 10 meter opening around noon time Sunday was a lot of fun - everyone's a new contact.

**WB6JJJ**

This was a good learning exercise and warmup for the rest of the contest season. Only found about 15 hours for the contest but had a lot of fun. Special thanks to our Canadian participants who were out in force!

**N6XI**

This is a great contest to give infrequent or new contesters exposure to contesting.

My brother Brian (NJ6N) and 3 other members of the South Orange County Amateur Radio Association (Richard, K6RBS; Jeremy KG6JAD; Tony AE6QT) joined me at my desert QTH for the CaQP. Jeremy is 16 years old; it was Tony's second contest, counting Field Day. We had a great time, making about 300 more QSOs this time than last year. I even got NJ6N to make 20 or so of the CW QSOs, leaving the other 700 something for me.

Great conditions; it was a pleasure to see 10 and 15 open so well. We had a good time on 160 too, making 53 QSOs there (I think we did 3 or 4 last year). An added bonus was that neither my Amp nor my rig failed during this year's contest (I lost them both last year).

Thanks to everyone for all of the QSOs, especially those who managed to find us on many band-modes (10 QSOs with VE2AEJ; 9 with N2CU, N4PN, W8GN, W8MJ; many more with 5 or more QSOs each). Also, hats off to Ontario (148 QSOs), Texas (102 QSOs), and Pennsylvania (92 QSOs). See you next year!

**K6NR** (K6VO Trustee)

The highlight was holding my frequency for nearly all day and evening while running stations. The rig is 27 years old, the all wire antennas are 15-20 years old, and the operator is 62 years old. Total operating time was 11.5 hours, nearly all on Saturday in an all CW operation.

**N6KYJ**

This was my second, and best CQP so far. Last year, after a fun but unspectacular time, I set a goal of 50K points for this year. I blew right past it by bedtime Sat night, and added to it on Sunday. Wound up with 63K plus change, just under 80% improvement. I guess the work I've done on the (in)famous WimpyWire antenna system paid off. I missed any good conditions on 10m, and only had 3 contacts there. 15m and 20m had to be my money bands. I surprised myself by working 5 stations on 160m with only my short 40m dipole, as a dipole, not a top loaded vertical! The 40m dipole served pretty well on 80m also. Now I have a year to work on the things that still need improving. Hope you all had as much fun as I did.

Thanks to all and 73

**N6WG**

## 2004 CQP DX Results

SO = Single Op, MS = Multi-Single, MM = Multi-Multi, L = Low Power; Q = QRP \* = new CQP record

### Canada

Maritime	CW	SSB	total	Mult	Score		
VE1RGB	304	0	304	53	48,336	SO	L
VE9DX	239	0	239	53	38,001	SO	L

VE1AWP	80	0	80	44	10,626	SO	L
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### Quebec

VE2AEJ	267	163	430	55	62,040	SO	
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VE3HX op

### Ontario

VE3NZ	331	317	648	58	94,511	SO	
VA3NR	318	309	627	57	89,604	SO	
VE3KP	301	250	551	58	81,374	SO	L
VE3CR	283	258	541	58	79,170	SO	L
VE3AGC	212	359	571	58	78,677	SO	L
VE3RM	212	312	524	58	73,225	SO	
VE3RZ	294	155	449	56	66,752	SO	L
VE3XN	104	405	509	58	64,960	SO	
VE3KZ	191	267	458	56	62,132	SO	
VE3NBJ	255	127	382	56	57,204	SO	L
VA3DF	217	200	417	53	55,756	SO	Q
VE3OBU	145	215	360	56	48,524	SO	
VE3HG	74	268	342	53	40,306	SO	L
VE3SUN	135	118	253	52	33,384	SO	L
VE3TW	85	183	268	51	31,747	SO	L
VE3JAQ	126	105	231	51	30,115	SO	L
VE3DZ	127	95	222	49	28,052	SO	L
VE3XD	169	0	169	47	23,829	SO	L
VA3IX	69	90	159	50	19,350	SO	L
VE3OM	139	0	139	44	18,348	SO	L
VE3TPZ	0	144	144	48	13,872	SO	L
VE3MA	115	0	115	37	12,820	SO	L
VE3SHL	0	128	128	43	11,051	SO	L
VE3MGY	34	76	110	43	10,986	SO	
VE3RCN	36	74	110	42	10,815	SO	L
VE3ESH	0	118	118	43	10,148	SO	L
VA3OX	0	121	121	41	9,963	SO	L
VA3PL	16	74	90	35	6,895	SO	L
VE3IGJ	44	0	44	26	3,432	SO	Q
VE3OIL	4	53	57	29	3,422	SO	L
VA3UQ	0	47	47	31	2,914	SO	
VA3MW	0	55	55	26	2,860	SO	
VE3VO	0	11	11	10	220	SO	

### Manatoba

VE4YU	197	186	383	57	55,033	SO	L
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### Saskatchewan

CG5EEE	0	95	95	37	7,030	SO	
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VE5BCS op

VE5BCS	0	71	71	37	5,096	SO	L
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### Alberta No Entry

### British Columbia

VA7ST	255	0	255	52	39,780	SO	L
VE7NH	235	0	235	53	37,497	SO	L
VE7NI	108	22	130	44	16,302	SO	L
VE7FCO	0	65	65	26	3,380	SO	L
VA7MJR	0	54	54	30	3,240	SO	L
VA7GAP	0	33	33	19	1,254	SO	

### Yukon/NWT

VY1JA	158	326	484	58	65,453	SO	
VY1MB	0	100	100	40	8,040	SO	L

### North America (non-US/Canada)

#### No Entry

### South America

PW800	0	3	3	3	18	SO	L
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**Asia**

JH4UYB	84	121	205	54	26,811	SO	
JH1AZO	105	23	128	42	15,267	SO	L
JG1IGX	53	6	59	45	7,695	SO	
VR2BG	42	10	52	31	4,386	SO	
RZ3BY/0	16	0	16	14	672	SO	L

**Oceania No Entry****Europe**

I4IKW	159	100	259	52	35,256	SO	
CU2JT	144	0	144	43	17,931	SO	L
DL3GA	88	11	99	41	11,787	SO	
DL5MC	89	9	98	41	11,685	SO	
UT3UA	93	10	103	38	11,400	SO	
HA8VK	91	3	94	35	9,852	SO	L
HG8W	63	7	70	33	6,781	SO	
DF2CK	34	39	73	36	6,570	SO	
DK3KD	63	11	74	28	5,950	SO	L
EA1CS	60	0	60	30	5,400	SO	L
EA5DFV	0	76	76	31	4,712	SO	
EA1WX	54	0	54	29	4,698	SO	L
UA4FER	37	13	50	26	3,627	SO	
UT5UIA	38	0	38	25	2,850	SO	
OH6NIO	0	47	47	27	2,538	SO	
LY3BA	26	11	37	24	2,436	SO	S
PA3ARM	35	0	35	21	2,205	SO	L
EI4IS	0	38	38	26	2,002	SO	L
DF2RG	0	37	37	23	1,702	SO	
UW5U	28	1	29	17	1,487	SO	L
EA1OT	0	35	35	21	1,470	SO	L
IK2QPR	0	23	23	17	782	SO	L
DL0ERF	5	1	6	7	129	SO	
YL2PP	5	0	5	3	45	SO	L
DL4AEE	3	0	3	3	27	SO	L
YO4ATW	0	2	2	1	4	SO	

## 2004 California QSO Party (CQP) Results

<b>TOP 3 CA:</b>	QTH	MULT	CW	PH	SCORE
<b>K6NA N6ED</b>	San Diego	58	852	1707	<b>346,405</b>
<b>K6LA</b>	Los Angeles	58	971	1473	<b>339,880</b>
<b>K6XX</b>	Santa Cruz	58	1033	1340	<b>335,182</b>
<b>TOP 3 NON-CA:</b>					
<b>K5TR</b>	Texas	58	295	841	<b>148,886</b>
<b>W8MJ</b>	Michigan	58	406	593	<b>139,490</b>
<b>KE9I</b>	Indiana	58	386	579	<b>134,328</b>
<b>TOP CA Multi-Single</b>					
<b>W6PT</b>	Imperial	58	869	1195	<b>289,971</b>
K6QK, N7CW, NN6X, K6ZH					
<b>TOP CA Multi-Multi</b>					
<b>N6O</b>	Contra Costa	58	1695	3192	<b>665,347</b>
N7FF, N6RO, WA6O, N6KLS, KJ6EN, K7NV, K6VVA, N6BV, WX5S					
<b>TOP 2 Single-Op Expeditions</b>					
<b>AD6E</b>	Sutter/Yuba	56	877	693	<b>225,092</b>
<b>W6PZ</b>	Trinity	58	882	597	<b>222,865</b>
<b>K6SRZ</b> op					
<b>TOP Multi-Single Expedition</b>					
<b>W6PT</b>	Imperial	58	869	1195	<b>289,971</b>
K6QK, N7CW, NN6X, K6ZH					
<b>TOP Multi-Multi Expedition</b>					
<b>KS6U</b>	Modoc	58	1028	1488	<b>351,480</b>
K2DI, K4XU, KI6Y, WS7N, K7YLO, W7YOW					
<b>TOP CA Single-Op running Low Power</b>					
<b>K6AM</b>	San Diego	58	987	731	<b>256,592</b>
<b>AA6PW</b>	Orange	58	897	827	<b>252,068</b>
<b>KX7M</b>	Plumas	56	926	535	<b>215,488</b>
<b>TOP NON-CA Single-Op running Low Power</b>					
<b>W8MJ</b>	Michigan	58	406	593	<b>139,490</b>
<b>WD5K</b>	Texas	58	336	407	<b>105,734</b>
<b>K7SW</b>	Virginia	58	355	306	<b>97,411</b>
<b>TOP Single-Op QRP (CA and non-CA)</b>					
<b>W6AQ</b>	Los Angeles	49	374	133	<b>68,061</b>
<b>WA4PGM</b>	Virginia	58	270	206	<b>70,963</b>
<b>TOP NON-USA/Canadian entry</b>					
<b>I4IKW</b>	Italy	52	159	100	<b>35,256</b>
<b>Top Schools (CA and non-CA)</b>					
<b>W6YX</b>	Stanford University	58	650	1,431	<b>279,154</b>
<b>KC7KFF</b>	Carl Hayden High School	47	0	129	<b>12,173</b>

<b>CA Mobile with most QSOs</b>					
<b>K6AQL</b>	(K0DI, W4RU ops)		1,661	QSOs	
<b>Single-Op with most SSB QSOs (CA and non-CA)</b>					
<b>K6NA N6ED</b>	op San Diego			1,707	SSB QSOs
<b>K5TR</b>	Texas		841		SSB QSOs
<b>Single-Op with most CW QSOs (CA and non-CA)</b>					
<b>K6XX</b>	Santa Cruz			1,033	CW QSOs
<b>N2CU</b>	New York			445	CW QSOs

### CQP WINE WINNERS

#### California

1	K6NA N6ED	op San Diego	346,405
2	K6LA	Los Angeles	339,880
3	K6XX	Santa Cruz	335,182
4	W6TK	San Luis Obispo	301,600
5	AE6Y	Santa Clara	298,816
6	KF6T	Placer	289,246
7	K6IF	Mendocino	269,787
8	N6NF	San Mateo	268,134
9	N6IJ N16T	op Monterey	267,815
10	W6XU	Sonoma	267,119
11	N6HC	Orange	263,233
12	K6AM	San Diego	256,592
13	AA6PW	Orange	252,068
14	K6MR	Shasta	244,644
15	K6RIM	Marin	243,049
16	NT6K	Modoc	234,610
17	W6CIT N6AN	op Los Angeles	232,360
18	AD6E	Sutter/Yuba	225,092
19	W6PZ K6SRZ	op Trinity	222,865
20	KX7M	Plumas	215,488

#### Non-California

1	K5TR	TX	148,886
2	W8MJ	MI	139,490
3	KE9I	IN	134,328
4	N4PN	GA	130,906
5	K5YAA	OK	127,513
6	N2CU	NY	127,484
7	N5JB	TX	112,288
8	N8BJQ	OH	109,649
9	WD5K	TX	105,734
10	K4BAI	GA	105,112
11	K7SV	VA	97,411
12	WA3HAE	PA	95,332
13	KK1L	VT	94,714
14	VE3NZ	ON	94,511
15	N8II	WV	90,480
16	VA3NR	ON	89,604
17	K4LTA	TN	78,267
18	WA1FCN	AL	87,174
19	NA4K	TN	86,611
20	K5DB	AR	84,787

#### TOP CLUB entries (CA and non-CA)

Mother Lode DX & Contest Club  
24 logs, 2,482,788 points  
Contest Club Ontario  
30 logs, 1,157,202 points

#### First to 58 Awards (CA and non-CA)

**K6LA** Time: 23:35Z (7 hrs, 35 min)  
**N4PN** Time: 21:59Z (5 hrs, 59mi)

12 Store Buying Power!



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- 160-10M/6M/2M/70CM\*
- HF/6M @ 100W, 2M @ 50W, 70CM @ 20W
- 107 alphanumeric memories
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- AM, FM, WFM, SSB, CW, RTTY w/DSP
- And much more!



## IC-746PRO All Mode Transceiver

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- Selectable IF filter shapes for SSB & CW
- Improved 3rd order intercept point
- CW memory keyer
- And much more!



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- 160-6M\* @ 100W
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- Selectable IF filter shapes for SSB & CW
- Enhanced Rx performance
- And much more!



## IC-7800 All Mode Transceiver

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