

# The Contest JUG



NEWSLETTER OF THE  
NORTHERN CALIFORNIA CONTEST CLUB  
44 Toyon Terrace  
Danville, CA 94526

SEPTEMBER 1987  
No. 183

---

PRESIDENT:	W6RGG	AWARDS:	K6ZM
VP/CC:	K4UVT	JUG EDITOR:	W6SZN
SEC/TREAS:	VE2AQS	DIRECTORS:	KA6ING, WA6VEF, NV6Z, W7MAP
NCCC REPEATER:	147.24 (+600)		

---

## KB CQP!!

---

### COMING EVENTS

North American Sprint (SSB)	September 20
NCCC Meeting -- Dinner Meeting at Miguel's in Hayward	September 25
1987 California QSO Party	October 3-4

### THE PREZ SEZ

Wow! What a picnic! Special thanks to Gary, WA6VEF, for inviting us to his home and coordinating the food, beverages, and entertainment. You will find an article by Gary on another page of this issue wherein he gives credit to the folks who helped to make the event such a success.

Our September meeting will be a dinner at Miguel's Restaurant in Hayward. Mark Friday the 25th on your calendar, and check the announcement elsewhere in this JUG for the time, menu, prices, and RSVP information.

The Sprints are here once again, along with the usual late challenge from the SCCC. Rusty, W6OAT, has done a great job rallying the teams to the fray at the last minute. I hope to have worked many of you "Sprinters" by the time you read this. It's not too soon to start planning for the February Sprints!

The Club's major effort this year, in case you didn't know, is the CALIFORNIA QSO PARTY. Last minute details are still being worked out by Gary and his merry band of coordinators. Most of the final details will be announced at the September dinner meeting, and a supply of logs, summary

sheets, and rules will be there for the taking. If you have yet to hear from your coordinator, give Gary a call.

I'm looking forward to seeing you all at Miguel's.

KB, Bob, W6RGG

### FROM THE VP/CC . . .

A few more summary sheets have trickled in for WPX '87, so we have a revised club entry with a combined 42.2 Meg score. That should help us K some B!!

Some members have also sent in more summaries toward the Five Million Point Award, along with corrections to my initial pass at getting it all on my database. The condensed listing is given in this issue, with totals only given. Gary, WA6VEF, still holds on to the first award all by himself. But K6ZM and W6FSJ are hot on his heels, only a few points shy of the fabled 5Meg mark!

The BIG one is coming up on October 3-4, our own CQP! WA6VEF has been doing a great job getting it coordinated. There are still a few counties unaccounted for; if anyone can mount an effort in these, get in touch with Gary soon. This year's CQP will see quite a few scoring records broken, so let's go break 'em up good!

Several other DX contests are on tap for October, including the VK-ZL DX Contest and the Radiosporting Championships. RSGB is also sponsoring its annual 21/28 MHz events. The ARRL International EME test will be of interest to the moonbouncers in our midst.

And on October 24-25 is the CQ WW Phone. Is anybody going off on a DXpedition to some exotic clime?? For those remaining on the continent, I'll try to coordinate getting operators and stations together -- some stations will need ops, and some ops may be looking for a station. I'll keep tabs on who needs what.

73 & KB, Bob, K4UVT/6

P.O. Box 61733  
Sunnyvale, CA 94088  
Home: (408) 247-4043  
Office: (408) 744-5243



CQ WPX - 1987  
NORTHERN CALIFORNIA CONTEST CLUB  
CLUB ENTRY

TOTAL SSB	32,060,130
TOTAL CW	10,144,067
 NCCC TOTAL	 42,204,197

## SSB SCORES

CALL	SCORE	OPERATORS
PJ2FR	9,252,307	PJ2FR, N6KT
6Y4V	6,405,750	AI6V
KI6P	5,825,328	WA6VEF, K3EST, N6RO
KI6CG	1,979,572	KI6CG, NU6S, WA6AZP
K6HNZ	1,844,208	K6HNZ
WC6H	1,625,972	WC6H, W6REC
NV6Z	1,301,580	NV6Z, K6ZM, K4UVT, KI6EZ, AK6T, NP4IW, WB6MZQ
AG6D	1,129,536	AG6D, K6XO, N1EE, K6WJ
WX6M	769,860	WX6M
N6CCL	610,155	N6CCL, N6IYI
4X/K6KLY	555,345	K6KLY
WR6R	400,860	WR6R
KS6H	258,024	KS6H
WE6G	56,615	WE6G
WZ6Z	38,592	WZ6Z
AJ6V	4,032	AJ6V
K6SIK	2,394	K6SIK
 TOTAL -----	 32,060,130	

## CW SCORES

CALL	SCORE	OPERATORS
KI6P	2,226,860	WA6VEF
AI6V	2,041,848	AI6V, N6TR
AG6D	1,463,820	AG6D, WC6I, N1EE, W6NWS
WC6H	1,337,182	WC6H, AD6E
AJ6V	1,246,840	AJ6V
VE2AQS/AC6	868,530	VE2AQS/W6
AK6T	436,563	AK6T, K4UVT/6, K6ZM, KI6EZ, NB6L, NP4IW
N6EK	322,772	N6EK
NS6G	162,162	W6REC
WE6G	19,838	WE6G
WZ6Z	14,352	WZ6Z, W7IL
K4TKM/6	3,300	K4TKM/6
 TOTAL -----	 10,144,067	

NCCC FIVE MILLION POINT AWARD STANDINGS

AD6E	760004	W60AT	465358
AG6D	1201144	W6OSP	113150
AI6V	2160358	W6REC	1848322
AJ6V	1359041	W6RGG	51192
AK6T	564541	W6RJ	106600
K3EST/6	1949650	W6SYL	15840
K4TKM/6	3300	W6SZN	922062
K4UVT/6	557840	W6UA	49134
K6CSL	72144	W6VG	4556
K6HIH	169764	W6WB	184920
K6HNZ	1844208	W6XX	988083
K6KLY	185389	W7XA	198404
K6KM	41446	WA6AUE	810982
K6LRN	154058	WA6VEF	9792845 *****
K6MBV	13298	WB6MZQ	185940
K6MO	972	WC6H	1937186
K6PU	83985	WC6I	906871
K6RK	138156	WE6G	478556
K6SIK	474070	WR6R	638187
K6TMB	2046823	WW6F	75362
K6WJ	282384	WX6M	1423633
K6XO	295012	WZ6Z	52944
K6ZM	4959129		
KD6XY	1408		
KI6CG	1397278		
KI6EZ	728605		
KN6K	245797		
KS6H	361328		
N1EE	1089532		
N6BIS	5550		
N6BT	258738		
N6BV	1251055		
N6CCL	810283		
N6EK	959392		
N6GG	313917		
N6JM	83015		
N6JV	57942		
N6KT	988083		
N6OM	368416		
N6QR	171171		
N6RO	3867266		
N6ZB	136416		
NB6L	396621		
NP4IW	258700		
NU6S	1677142		
NV6Z	1323315		
VE2AQS/W6	1169181		
W6BIP	959834		
W6BSY	496298		
W6DPD	11016		
W6FSJ	4973804		
W6GO	2854116		
W6ISQ	382416		
W6KZJ	19680		
W6MFZ	50880		
W6NWS	365955		

SPRINT SCORES

Out of Area

WN4KKN	308	41
K5GO	312	38
K3LR	309	??
KM5H	296	39
K5MR	306	39
K5RX	331	43
N6TU	274	43
K6LL	310	42
W0UA	297	41
N2IC	320	??
K1KI	303	42
N4RJ	302	45
W2GD	289	40
W9RE	282	40
W2RQ	278	??
N6TR	337	40



## LETTERS TO THE EDITOR

Dear Kip,

At the September NCCC Board meeting, we discussed what the Contest Club might look like if we could shape it any way we wanted. I volunteered to write this letter to share with readers of the Jug some of the changes that I personally would like to see. My objective in tossing out these ideas is to stimulate thought and, hopefully, to open a dialogue among NCCC'ers who also might want to change the future direction of the club. The NCCC has done well these past fifteen years, and there is no reason to change the club's format unless we have a clear consensus that there still is something better to be had.

I believe there is something better, and it will come from a return to the smaller, more intimate membership that characterized the NCCC's first few years of existence. In those early years, we devoted a lot of time to analyzing the art of contesting and we spent a lot of time getting to know each other as good friends. In the late 70's and early 80's, we expanded the club from about 50 to 200 members to ensure that we'd be competitive in the Sweepstakes. Scores became more important to us than the people who generated them. We succeeded in achieving our SS goal, but the price of that expansion was the loss of membership camaraderie and personal identification with the club.

I think it's time now to concentrate upon the quality of our association with each other rather than upon just generating large aggregate scores. The club must give something worthwhile to the individual member in exchange for his or her participation. Things I consider worthwhile include intellectual stimulation, competitive challenges, an innovative environment, enjoyable social interaction and just plain fun. The present structure of the NCCC is too large and too impersonal to deliver most of these things.

My idealized NCCC, then, would be a club of from 50 to 75 members. Membership would be open to anyone having a genuine interest in contesting, but it would not be easy to join. A prospective member would have to have an established record of contest participation and achievement. Further, a prospective member would have to attend meetings and other club functions for a minimum of one year before he or she even could be nominated for membership. Once in, each member would have to demonstrate an ongoing commitment through participation in club activities and contests to retain his or her membership.

My idealized NCCC probably would meet every month or so, but its meetings would take a variety of forms. There would be a lot of "social" type get-togethers such as picnics, pool parties and barbecues where we could spend time really



getting to know each other. There would be educational meetings where, for instance, we discussed things like antenna design, station layout and how to run rate. And there would be meetings where we plotted our group contest plans and conceived new things to do (such as establishing a packet spotting network, planning contest DXpeditions or creating an "Armadillo Run").

What's true for me right now is that it's not particularly fun to be an NCCC member. I think a smaller, more selective and more interactive club might change this. We probably will be accused of being elitist, but I'd rather see the club provide something of value to a smaller membership than nothing of value to a larger one.

How do we get from here to there? For starters, I propose that we don't make much effort to entice present members to renew. Rather, let the ones who want to stay associated with the club take the initiative to renew and let the others drop by the wayside. We should impose a requirement that each member must attend a minimum of two meetings (so as to comply with the new ARRL club competition rules) and must expend enough effort on the club to satisfy some minimum activity level which the Board should predetermine and publicize. We should freeze temporarily new membership applications until we see how the present membership shakes out and until we have agreed upon what will constitute the minimum criteria needed to join.

73, Rusty, W6OAT

### PICNIC POSTSCRIPT

It was an afternoon of fun and friends, lots of food and lots more to drink.

NCCC would like to express its sincere gratitude to these fine folks who helped with the August 29th Club picnic: Marlise Cook (Mrs. AI6V), who provided the dessert and supervised the kitchen; Salie Rueter, who also helped in the kitchen; Louese, KA6ING, for contributing the salad; Peggy Frazier (Mrs. K6ZM), for cooking the chili; Bob, VE2AQS/AC6, for taking care of the garlic bread; Rich, N6KT, and Carl, AI6V, for helping set up the morning of the picnic; Ron, NV6Z, for bringing all the folding chairs; and Chuck, W7MAP, for collecting the dinner dues.

Thanks to all for your help!

73, Gary, WA6VEF



## CQP '87 -- THE LATEST WORD

Get ready to run 'em, because we're only two weeks away from the 1987 edition of the California QSO Party!!

By all indications, this year's contest should be the best one ever. No fewer than 71 NCCC'ers have indicated that they'll be active during the weekend -- and 18 of those are planning CQP county expeditions. Expect lots of participation from Southern California as well, as the SCCC will be out in force in support of the CQP effort. And, personal invitations to operate in this year's Party have gone out to some 250 members of the Northern and Southern California DX Clubs. The bottom line is that the amateur bands should explode with W6s at 1600Z on October 3!!

As of this writing (September 15), I've confirmed activity from 53 of California's 58 counties. Counties not spoken for at this time include Del Norte, Shasta, Lassen, Monterey, and, believe it or not, San Luis Obispo. I'm still awaiting word of operation from most of these counties, however, so it's likely that all 58 will be on for the test.

Our massive contest publicity campaign, in which we have individually reached some 2,000 potential CQP participants, should result in some rather large pile-ups, especially at the beginning of the test. We're indebted to several publications and organizations for providing mailing lists to us, among them the NCJ, the SCCC, the NCDXC, the SCDXC, the organizers of the Pennsylvania QSO Party, and the ARRL. A special mention should go to Ron, NV6Z, who generated a special mailing list of about 350 1986 CQP participants who made at least 25 QSO's but did not submit a log.

A few operating reminders -- be sure to hit the CW sub bands on the half hour. If W6s show up en masse at the published half hour times, it will generate more out-of-state activity, which will in turn result in CA stations staying on CW for longer time periods. Don't forget that CW QSO's are worth three points, while phone Q's count two. Also, sked times are important because you can make a lot of contacts in a short period of time. The sked time for 160M is 0500; 80M at 0700; 10M on the hour 1700-2000; and 147.54 MHz at 2000, 0000, and 0400.

We'd like to get preliminary scores, for publication in the JUG, right after the CQP ends, so please check in on 147.84/24 or 3815 KHz with your numbers.

In sum, everything is pointing toward a very successful Cal QSO Party. CQP Co-Chairman Duane, W6REC, and his Area Coordinators have done a Herculean job of organizing NCCC activity for the test. The fruits of their labors appear elsewhere in this issue of the JUG. Also in this month's JUG are a master log and summary sheet for you to use for the CQP.



CU at the meeting, and hope to work you on October 3rd and 4th!!

73, Gary, WA6VEF

## CALIFORNIA COUNTIES AND THEIR ABBREVIATIONS

Alameda	Ala	Marin	Marin	San Mateo	SMat
Alpine	Alp	Mariposa	Marip	Santa Barbara	SBar
Amador	Ama	Mendocino	Mend	Santa Clara	SCLa
Butte	Butte	Merced	Mer	Santa Cruz	SCruz
Calaveras	Cala	Modoc	Modoc	Shasta	Shas
Colusa	Col	Mono	Mono	Sierra	Sie
Contra Costa	CCos	Monterey	Mont	Siskiyou	Sisk
Del Norte	DelN	Napa	Napa	Solano	Sol
El Dorado	ELD	Nevada	Nev	Sonoma	Son
Fresno	Fres	Orange	Org	Stanislaus	Stan
Glenn	Glenn	Placer	Pla	Sutter	Sut
Humboldt	Humb	Plumas	Plu	Tehama	Teh
Imperial	Imp	Riverside	Riv	Trinity	Trin
Inyo	Inyo	Sacramento	Sac	Tulare	Tul
Kern	Kern	San Benito	SBen	Tuolomne	Tuol
Kings	Kings	San Bernardino	SBer	Ventura	Vent
Lake	Lake	San Diego	SDgo	Yolo	Yolo
Lassen	Las	San Francisco	SF	Yuba	Yuba
Los Angeles	LA	San Joaquin	SJoa		
Madera	Mad	San Luis Obispo	SLO		

## SEPTEMBER DINNER MEETING

This month's NCCC meeting will be a dinner meeting at Miguel's, 22865 Atherton Street, Hayward. The festivities begin with a no-host bar at 7:00 p.m., with dinner at 8:00 p.m. No one can complain about the choice of entree, since Miguel's has graciously offered to permit us to order off the menu. The program will be WA6VEF on the California QSO Party. Please RSVP to KA6ING on the repeater or W6RGG no later than September 22, 1987.

## ITEMS OF INTEREST

-- VP5 will again be well represented in the CQ Worldwide this fall. K6ANP, WW6F, KK6X and W6OSP are off to Provo to operate in the CQ Worldwide CW weekend, multi-single, signing VP5W. Be sure to listen for them and give them a call.

-- The National Contest Journal has long been a "must" for any serious contester. Publication of the NCJ was recently assumed by the ARRL and the appearance and content of the first issue since the change were much improved. The NCJ is now available at all Ham Radio Outlet locations.



## CQP 1987: PRESENTING THE NCCC ACTIVITY ROSTER

Marin County and North Report de Doug, WW6D

W6FSJ -- Look for Wendell to be on full bore from Napa County.

W6OSP -- Bruce also plans activity from Napa.

KK6X -- Jim will be joined by KM6N for an all-out expedition to Mendocino County.

K6LRN -- Dick is gunning for a new single-op Marin County record.

Sonoma County -- Sonoma will be well represented with CQP activity by Lyle, WW6F; John, N6QC (operating multi-single from WB6EGE); and Doug, WW6D.

SF and Upper SCV Report de Dick, K6LRN

K4TKM -- Brook plans to be active from San Francisco County.

N6BV -- Dean intends to try out the new stacked yagis on 40 meters with an all-out KB effort from N6RO in Contra Costa County.

W6SZN -- Kip will be joined by Lou, K6TMB, for a 2-man, 2-xmtr expedition to Placer County.

K6MO -- Stan plans a maritime mobile operation, covering the 4 major counties in the San Francisco Bay, with help from N6KG.

San Mateo County -- John, K6BR, plans radio activity, as does Larry, W6KZJ.

Middle SCV Report de Tim, NU6S

N6BIS -- Patty will be on mobile from Madera County.

N6BT -- Tom will be hosting hired gun WA6VEF.

W6OAT -- The perennial guest operator comes home; boasting a new tower and antenna system, Rusty intends to try the Cal QSO Party from his home in San Carlos.

N6OM -- John will be on either from Calaveras County or Santa Clara County.

K4UVT -- Bob is going to try to be on from Tahiti, where he'll be vacationing.

Santa Clara County -- Rare and unpopulated Santa Clara County will be ably represented by Jack, W6ISQ, Stan, K6MA, Ron, WA6ITV, Ed, AJ6V, and Fred, K6YT.

Lower SCV and South Report de Ron, NV6Z

N1EE/6 -- Scott returns to Sierra County for a single-op effort.

W6CF -- Jim will be operating from home in Santa Cruz County.

KI6EZ -- Listen for George's portable signal from Tulare County.

N6TU, N6RZ, and WA6OCV -- Rumor has it that Bruce, Dave, and Susan are gearing up for a big multi-multi from Santa Cruz County.

AA6T and NS6G -- Lloyd and Karen will be expeditioning to Tehama County.

K6XN -- Ted plans activity from Santa Clara County.

AG6D -- Al will also be a part of the Santa Clara County CQP contingent.

K6PU -- Ken intends to activate Amador County.

N6ZB -- Another of this year's CQP county expeditions, Bob, along with Jim, KS6H, will be journeying to Merced County for a full bore multi-multi effort.

K6XO -- Al, our mobile specialist, will ensure that Glenn, Colusa, Sutter, Mariposa, and Stanislaus Counties are all on for the CQP.

Lower East Bay Report de Mike, WE6G

County Expeditions -- Mac, W6BSY, plans to activate Yuba County, while K7PXX will be mobile in Alpine County on Sunday of the test.

Alameda County Activity -- Expect CQP participation from Bob, W6RGG, Bill, K6SIK, Chuck, AA6G, Steve, WV6U, Larry, WA0YQM/6, and, if their rigs are repaired in time, Don, N6DA, and Will, WA6JCZ.

Upper East Bay Report de Mike, K6MBV

K6CSL, N6EK, WR6R (multi-single with WZ6Z), and W6MFZ all will be on the air from Alameda County.

WI6Y and WB6MZQ will be on from Contra Costa County.



Eastern East Bay Report de Gary, WA6VEF

N6VV, K6XV, and K6PJY -- Lew, Bob and Dan are planning a multi-multi effort from the Toulumne/Mono/Alpine tri-county line. Word is that they're taking towers and monobanders with them.

K6HIH -- Cliff is representing Solano County in this year's Party.

The Contra Cost Contingent -- K6ZM, NB6L, VE2AQS/W6, and NP4IW/W6 will be active from Contra Costa County.

K6RK -- Look for Chuck to again be operating from Calaveras County.

Sacramento Valley Report de George, K6SG

K3EST/6 -- Bob will be on from home in Yolo County.

K6SG, KV6H, KF6A, and other members of the River City Contesters group are attempting to get permission to return to the site they operated from last year in Colusa County. If unsuccessful, they intend to activate El Dorado for the '87 CQP.

AI6V -- Other commitments will limit Carl's Nevada County operating time this year.

SJV Report de Duane, W6REC

W7MAP/6 -- Chuck plans to operate from San Joaquin County.

W6REC -- Duane will be on from his mountain retreat in Modoc County.

NC7K -- Tim is going to try the CQP from the home QTH in Reno, Nevada.

WC6H -- Rich's station will be operated by Alex, KI6EZ.

N6GG -- Rich plans to be active from Amador County.

CALLSIGN \_\_\_\_\_

STATE/PROV/COUNTY \_\_\_\_\_

BAND MHz	TIME UTC	STATION	SENT	RECEIVED			POINTS
			NR +	NR	STATE/CTY	MULT	
			1				
			2				
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			0				
			1				
			2				
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			0				
			1				
			2				
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			0				
			1				
			2				
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			0				
			1				
			2				
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			0				





Thanks to Howard, WZ6Z for providing the following:

BREAKDOWN FOR THE PETER I DX EXPEDITION 1987

Compiled by LA2GV

SUMMARY

	QSO's	SSB	CW	RTTY	COUNTRIES WKD
3Y1EE	9.486				97
3Y2GV	6.355				92
TOTAL	15.841	10.090	5.703	48	112

Band by band pr call

	3Y1EE	3Y2GV	TOTAL
10	116	43	159
15	3.668	902	4.570
20	4.001	5.306	9.307
40	1.114	75	1.189
80	587	29	587
160			29
TOTAL	9.486	6.355	15.841

USA pr call areas

	1	2	3	4	5	6	7	8	9	0	Total
3Y1EE	383	326	175	751	381	560	222	331	358	232	5.503
3Y2GV	215	602	322	1.076	625	968	323	392	500	312	3.551
TOTAL	598	928	497	1.827	1.006	1.528	545	723	858	544	9.054



EUROPE

	EU	LA	SM	OH	OZ	TOTAL
3Y1EE	1.077	163	176	248	51	1.715
3Y2GV	753	84	71	84	29	1.021
TOTAL	1.830	247	247	332	80	2.736

OTHER

	VE	ZL	VK	AF	JA	ASIA - JA	PAC	LATIN SOUTH AM	OTHER	TOTAL
3Y1EE	207	45	12	39	1.441	11	20	443	50	2.268
3Y2GV	105	88	84	50	864	54	29	474	35	1.783
TOTAL	312	133	96	89	2.305	65	49	917	85	4.051

USA 57.1 %  
 EU 17.2 %  
 JA 14.5 %  
 Lat + South AM 5.7 %  
 Other 5.5 %

S-711A TS-811A



Ideal VHF/UHF base stations for 2m/70cm transceiver operation.

TS-940S



TOP-OF-THE LINE HF TRANSCEIVER

TH-21BT/31BT//41BT  
2m 220 MHz 440 MHz

MINI HAND-HELD

With dip switch programmable CTCSS encoder built-in.



MA-40

40' TUBULAR TOWER  
\$745 \$549

MA-550  
55' TUBULAR TOWER  
\$1245 \$899  
• Handles 10 sq. ft. at 50 mph  
• Pleases neighbors with tubular streamlined look

TX-455

55' FREESTANDING CRANK-UP

- Handles 18 sq. ft. at 50 mph
- No guying required
- Extra-strength Construction
- Can add raising and motor drive accessories

S-440S



HF TRANSCEIVER  
160-m to 10-m Amateur Band  
100-kHz to 30-MHz General  
Available with optional built-in Antenna Tuner.



YAESU  
FT 757GX



Compact HF Mobile Transceiver

CALL FOR PRICE

TM-2570/2550/2530  
70w 50w 30w



Compact FM Mobile Transceivers

OTHER MODELS AT GREAT PRICE

R-751A



COMPACT 2-METER ALL MODE TRANSCEIVER

TM-3530A



The First Comprehensive 220 MHz FM Transceiver.

TH-215A

Full-featured 2m Hand-held Transceiver with 10 memories



Single Strength (handles 9 sq. ft.)

HG37SS - 37' Tower  
HG52SS - 52' Tower

Heavy Duty (handles 16 sq. ft.)

HG54HD - 54' Tower  
HG70HD - 70' Tower

- All steel
- Includes base & rotator plate
- No guying required
- Hot dip galvanized
- Accessories available

WORLDWIDE DISTRIBUTION



HAM RADIO OUTLET

LARGEST HAM OUTLET IN THE WORLD

...LINGAME, CA 94010  
...ward Ave.  
...342-5757  
...e. Mgr. WB6DSV  
...s south on 101 from SFO  
...LAND, CA 94606  
...ivingston St.  
...34-5757  
...r WA6SYK  
...n Ave./175-16th Ave.

...E CONTEST JUG Published Monthly By  
...E NORTHERN CALIFORNIA CONTEST CLUB  
...Toyon Terrace  
...ville, CA 94526

FIRST CLASS  
FIRST CLASS  
FIRST CLASS



W6OAT 6/88  
Charles Epps  
651 Handley Trail  
Redwood City, CA 94062