

# The Contest JUG



NEWSLETTER OF THE  
NORTHERN CALIFORNIA CONTEST CLUB  
34456 COLEVILLE PLACE  
FREMONT CA 94546

AUGUST 1980

NUMBER **100**

PRESIDENT: K6HNZ  
DIRECTORS: WA6ITV, KN6M, WA6VEF

VP/CC: N6TV  
JUG POST-PROD: AA6G

SCTY/TREAS: N6KB  
JUG EDITOR: K6RU

## KB!CQP-SS-ARRL DX

### COMING EVENTS

PROGRAM-AUGUST MEETING: JACK CURTIS, K6KU WILL TALK ABOUT NEW LSI CHIPS FOR CW MESSAGE MEMORIES, KEYBOARD KEYERS AND RANDOM MORSE GENERATORS. HE WILL SHOW PROTOTYPES OF NEW, UNANNOUNCED CW PRODUCTS FOR DISCUSSION. HE WILL ALSO DEMONSTRATE HIS CURRENT LINE OF MEMORY KEYERS.

AUG.23-24: ALL ASIA CONTEST CW

SEPT.7: NORTH AMERICAN SPRINT

AUG.25: NCCC MEETING, HAYWARD

SEPT.14: SUNNYVALE OLYMPICS

AUG.29-31: ARRL PACIFIC DIV. CONVENTION OCT.4-5: CALIFORNIA QSO PARTY (CQP)

### PRESIDENT KEN'S AUGUST MESSAGE

THE BURNING QUESTION HAS BEEN EXTINGUISHED! THE QUESTIONNAIRE RESULTS HAVE BEEN TABULATED AND ANALYZED AND DETAILS OF THE RESULTS ARE REPORTED ELSEWHERE IN THIS JUG. THE MEMBERSHIP VOTE SHOWED A CLEAR PREFERENCE FOR A MAJOR CLUB EFFORT IN THE SS RATHER THAN THE CQWW. THIS VOTE WAS 56% FOR SS, 38% FOR THE CQWW AND 6% FOR OTHER. SO BE IT. LET US NOW SET OUR SIGHTS ON ANOTHER SS CHAMPIONSHIP AND MAKE PLANS TO SUPPORT THE CLUB EFFORT TO THE MAXIMUM. VOLUNTEER AREA COORDINATORS PLEASE CONTACT VP/CC, N6TV. ANYONE NEEDING A STATION TO RUN OR ABLE TO MAKE A STATION AVAILABLE FOR A GUEST OP SHOULD CONTACT BOB. BEATING OUR OWN RECORD SCORE OF LAST YEAR PRESENTS A CHALLENGE AND WILL TAKE A KB EFFORT BY THE CLUB.

IN ACCORDANCE WITH THE OTHER QUESTIONNAIRE RESULTS THE BOD COMMITTED THE CLUB TO MAJOR EFFORTS IN OUR OWN CQP AND THE ARRL DX CONTESTS. NOTE THAT THE CQP IS LESS THAN TWO MONTHS AWAY. OUR OBJECTIVE IS TO GET ALL 58 COUNTIES ON THE AIR. IF YOU CAN TRAVEL TO A RARE COUNTY PLEASE SIGN UP WITH CQP CHAIRMAN, N6QW.

MUCH TO THE RELIEF OF OUR JUG EDITOR, THE QUESTIONNAIRE SHOWED A PREFERENCE FOR FIRST CLASS MAILING OF THE JUG BY MORE THAN A 5 TO 1 MARGIN. TO COVER THE ADDED COST, THE BOD HAS VOTED AN ASSESSMENT OF \$2.00 PER MEMBER. THIS IS DUE IMMEDIATELY!

ROB, WB6SHD ADVISES THAT WE ARE ALL SET FOR OUR SUNNYVALE OLYMPICS AT ORTEGA PARK ON SUNDAY, SEPT. 14. ROB HAS RESERVED THE PICNIC AREA SHOWN ON THE MAP HERIN FROM NOON UNTIL DARK FOR THE NCCC ATHLETES. SEE YOU THERE.

DON'T FORGET THE ARRL PACIFIC DIVISION CONVENTION AUG.29-31 AT THE MARRIOTT HOTEL IN SANTA CLARA (GREAT AMERICA). THE CONTEST FORUM, CHAIRED BY TOM, N6BT, IS SCHEDULED AT 2-3 PM ON SUNDAY, AUGUST 31.

73, KEN K6HNZ

1980 NCCC QUESTIONNAIRE SUMMARY FROM OUR VP/CC

FOLLOWING ARE THE RESULTS OF OUR SURVEY BOILED DOWN TO A MANAGABLE SIZE:

#1.	<u>CONTEST</u>	<u>% PARTICIPATION</u>	<u>% KB</u>	<u>RATING</u>	<u>COMMENTS</u>
	CQP	82%	40%	#4	WE NEED MORE KB HERE.
	SS-CW	80%	63%	#1	EXCELLENT INTENTIONS.
	SS-PH	79%	52%	#2	" "
	CQWW-CW	79%	25%	#7	HIGH ACTIVITY, LOW KB.
	CQWW-PH	78%	34%	#6	" " " "
	ARRL DX-CW	83%	38%	#5	GOOD, LET'S MAKE IT BETTER.
	ARRL DX-PH	87%	42%	#3	" " " " "
#2.	<u>SS OR CQWW ?</u>			#5.	<u>NEW MEETING ROOM</u>
	SS - 56%	CQWW - 38%			BETTER- 44% NO OPINION - 53%
#3.	<u>ARRL DX</u>			#7.	<u>WEST BAY MEETING PLACE</u>
	KB - 73%	MEDIUM EFFORT - 20%			YES OR MAYBE YES - 44%
					NO OR MAYBE NO - 24%
					NO PREFERENCE - 32%
#4	<u>CONTEST CONVENTION</u>			#8.	<u>FIRST CLASS MAIL-JUG</u>
	YES - 65%	NO - 11%	? - 24%		YES - 85% NO - 15%

1980 CALIFORNIA QSO PARTY (CQP)

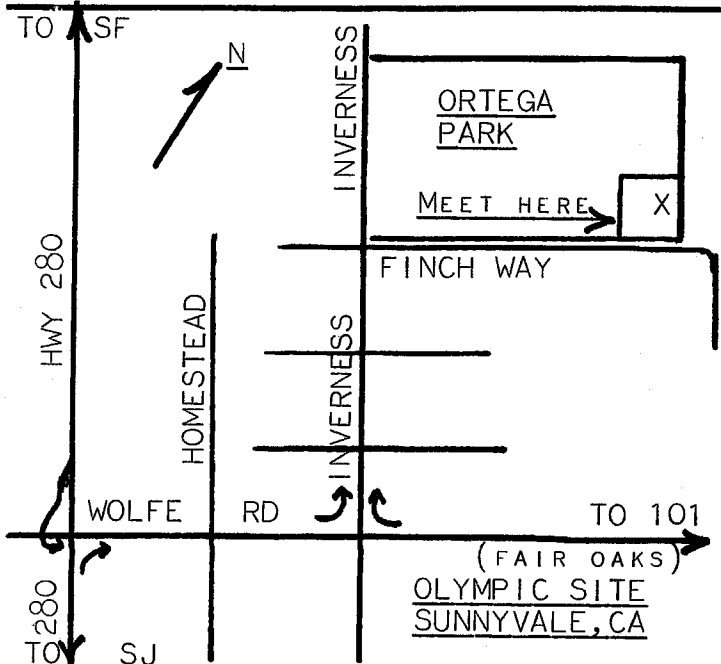
WELL, THE YEAR IS ALMOST UP. THE FIRST WEEKEND OF OCTOBER IS ALMOST HERE AND THE CQP IS COMING. COMPLETE RULES ARE ON P.3 OF THIS ISSUE. OF PARTICULAR NOTE IS A RULE CHANGE: ALL CW QSO'S WILL BE WORTH 3 POINTS, WHILE ALL PHONE QSO'S WILL BE WORTH 2 POINTS. ALSO NOTE THAT THREE TROPHIES WILL BE AWARDED THIS YEAR: ONE FOR THE HIGHEST SCORING OUT-OF-STATE SINGLE OP, ONE FOR THE HIGHEST SCORING CA SINGLE OP, AND ONE FOR THE HIGHEST SCORING CA COUNTY DXPEDITION. ALL MAJOR HAM PUBLICATIONS NATIONAL AND INTERNATIONAL, HAVE RECEIVED THE CONTEST ANNOUNCEMENT, AND MANY HAM CLUBS WITHIN CA WILL SOON RECEIVE THE CONTEST ANNOUNCEMENT. THERE SHOULD BE A LOT OF ACTIVITY, AND WITH SOME LUCK ALL 58 COUNTIES SHOULD BE ON.

IF YOU ARE PLANNING A COUNTY DXPEDITION, PLEASE CONTACT ME AND LET ME KNOW. IF YOU WANT TO GO ON A DXPEDITION AND DON'T KNOW WHERE TO GO, I CAN OFFER SOME SUGGESTIONS. I'LL SEE YA ON CQP, EITHER FROM SAN BENITO OR SIERRA COUNTY.

- DENNIS, N6QW

5TH ANNUAL SUNNYVALE OLYMPICS

SUNDAY, SEPTEMBER 14 IS THE DATE OF OUR OLYMPICS AT ORTEGA PARK IN SUNNYVALE (SEE MAP). WE WILL START ABOUT NOON AND GO FROM THERE. BRING YOUR OWN FOOD, DRINK AND CHARCOAL IF NEEDED. WB6SHD HAS RESERVED OUR USUAL SPOT IN THE SE CORNER OF THE PARK. ALSO, BRING ATHLETIC EQUIPMENT FOR SOFTBALL FRISBEE, TENNIS, FOOTBALL, AND ARM WRESTLING AS DESIRED. COME AND JOIN THE FUN - THIS IS A FAMILY PICNIC. SEE YOU THERE!



1980 CALIFORNIA QSO PARTY

The 1980 California QSO Party (CQP), sponsored by the Northern California Contest Club, commences at 1800 UTC on October 4, 1980, and ends at 2359 UTC on October 5, 1980. Strong efforts are being made to have all 58 counties in California on for the contest duration. Highlights for this year's contest include a change in the QSO points for cw contacts (cw contacts will be worth 3 points each, phone contacts 2 points each), and the awards have been expanded to included 3 trophies: one for the highest scoring out of state single op, one for the highest scoring California single op, and one for the highest scoring California county DXpedition. One rule of particular note for this contest: each station may be worked once per band per mode.

Begins: 1800 UTC October 4, 1980

Ends: 2359 UTC October 5, 1980

Single Ops may operate only 24 hours; off times must be clearly marked in the log.

Multi-Ops may operate the full 30 hours

Stations may be worked once per mode per band.

All contacts must be simplex.

California stations that change counties are considered to be new stations and may be contacted again for points credit.

Exchange: California stations send QSO number and county.

Out of State stations send QSO number and state/province or ARRL country.

QSO Points: Each complete phone contact is worth 2 QSO points.

Each complete cw contact is worth 3 QSO points.

Multipliers: California stations use states and VO/VE 1-7 and VY1/VE8 for a possible total of 58.

Out of state stations use California counties for a possible total of 58.

Total Score: The total score is the number of QSO points multiplied by the number of multipliers.

Suggested Frequencies: Novice cw: 3725 7125 21125 28125

CW: 1805 3560 7060 14060 21060 28060

SSB: 1815 3895 7230 14280 21355 28560

Deadline for Scores Submission: All logs and summary sheets must be postmarked by November 1, 1980.

Score Submission: All logs and summary sheets must be sent to

NCCC, c/o Dennis Egan, N6QW, 811 Byerley Ave,  
San Jose Ca 95125. Please include a self-addressed stamped envelope with your entry.

Awards: Certificates for highest scoring station in each California county, each state/province, and each country.

Trophies to the highest scoring out of state single op, highest scoring Cal single op, and highest scoring DXpedition to a Cal county.

## California counties and their abbreviation:

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

# 4

## 1980 NORTH AMERICAN SPRINT CONTEST CONDENSED RULES

1. OBJECT: TO WORK AS MANY STATIONS AND MULTIPLIERS AS POSSIBLE. NON-NORTH AMERICAN (NA) COUNTRIES DO NOT COUNT AS MULTIPLIERS.
2. ENTRY CLASSIFICATION: SINGLE OPERATOR ONLY. NO SPOTTING NETS.
3. CONTEST PERIOD: 0100-0500 UCT, SEPT. 7, 1980 (SAT. NIGHT SEPT. 6, PDT).
4. MODE: CW ONLY. 5. CONTACTS: A STATION MAY BE WORKED ONCE ON EACH BAND.
6. BANDS: 20, 40, AND 80 METERS. SUGGESTED FREQUENCIES 14030-14050, 7030-7050, 3530-3550 KHZ.
7. EXCHANGE: SEND THE FOLLOWING- HIS CALL, YOUR CALL, SERIAL NUMBER STARTING WITH 001, YOUR NAME, YOUR STATE.
8. VALID CONTACT: A TWO-WAY EXCHANGE BETWEEN A NA STATION AND ANOTHER STATION. LOG TIME OF EACH CONTACT.
9. NA STATION: AS DEFINED BY THE RULES OF THE CQWW DX CONTESTS.
10. SCORING: MULTIPLY TOTAL VALID CONTACTS BY SUM OF STATES, VE PROVINCES, AND OTHER NA COUNTRIES. KH6 DOES NOT COUNT AS A STATE OR COUNTRY.
11. SPECIAL QSY RULE: IF ANY STATION SOLICITS A CALL BY SENDING CQ, QRZ, ETC., HE IS PERMITTED TO WORK ONLY ONE STATION IN RESPONSE TO THAT SOLICITATION. HE MUST THEREAFTER MOVE AT LEAST 1 KHZ BEFORE HE WORKS ANOTHER STATION, OR AT LEAST 5 KHZ BEFORE HE SOLICITS OTHER CALLS.
12. TEAM COMPETITION: LIMITED TO A MAXIMUM OF 10 OPERATORS AS A SINGLE ENTRY UNIT. THE TEAM MUST BE REGISTERED WITH N6SF AT LEAST 24 HOURS BEFORE THE START OF THE SPRINT. CONTACT RUSTY FOR COMPLETE DETAILS.
13. AWARDS: A TROPHY SHALL BE AWARDED TO THE HIGHEST-SCORING ENTRANT. CERTIFICATES OF MERIT SHALL BE AWARDED TO THE HIGHEST SCORING ENTRANT FROM EACH USA CALL DISTRICT, CANADA AND OTHER COUNTRY; TO EACH OF THE TEN HIGHEST SCORING ENTRANTS; TO EACH MEMBER OF THE WINNING TEAM; AND TO THE HIGHEST SCORING ENTRANT ON EACH TEAM.
14. REPORTING: ENTRIES MUST BE SENT TO RUSTY EPPS, N6SF, 235 MONTGOMERY ST., SUITE 2600, SAN FRANCISCO, CA 94104 AND MUST BE POSTMARKED NO LATER THAN OCTOBER 7, 1980 TO BE ELIGIBLE FOR TROPHYS AND AWARDS. AN ENTRY CONSISTS OF (1) A SUMMARY SHEET SHOWING VALID CONTACTS BY BAND, TOTAL MULTIPLIERS, TOTAL SCORE, NAME, CALLSIGN AND ADDRESS OF OPERATOR, STATION CALLSIGN AND STATION LOCATION. (2) A COMPLETE, LEGIBLE LOG OF ALL CONTACTS (INCLUDING DUPES MARKED AS SUCH) WITH INDICATION BY NUMBERED SEQUENCE OF EACH MULTIPLIER CLAIMED. (3) A SEPARATE CHECK SHEET FOR EACH BAND. LOGS, SUMMARY SHEETS, AND CHECK SHEETS MAY BE HOME MADE OR PATTERNED AFTER THOSE SHOWN IN THE NCJ. RUSTY HAS SAMPLES.

THE NAMING OF THE CONTEST JUG  
DE W6CF

1980 IARU RADIOSPORT SCORES

"THE CONTEST JUG??!! WHAT KIND OF A JAMMED FOOLISH NAME IS THAT FOR A SERIOUS JOURNAL?" HOW MANY TIMES WE HAVE HEARD THOSE WORDS OVER THE YEARS! SO YOUR EDITOR ASKED ME, THE FIRST EDITOR OF THE CONTEST JUG, TO ANSWER THAT QUESTION IN THIS CENTENNIAL ISSUE.

FIRST, A BIT OF HISTORY MAY BE OF INTEREST. THE CONTEST JUG FIRST APPEARED WITH THE NOVEMBER 1970 ISSUE. BACK IN THOSE DAYS I GENERALLY PREPARED A CONTEST CALENDAR FOR MYSELF AND TAPED IT TO THE WALL IN THE SHACK. AT THE OCTOBER MEETING, A MEETING WHICH WILL BE FORGOTTEN BY NO ONE WHO ATTENDED, BUT REMEMBERED IN DETAIL BY FEW, IT WAS DECIDED TO SEND A COPY TO EACH NCCC MEMBER EVERY MONTH. AND AWAY WE WENT, WITH SCARCELY A LOOK BACK.

FOR THOSE READERS WHO LIKE TO WALLOW IN STATISTICS, CAM, K6RU IS THE TENTH JUG HEAD. PREVIOUS EDITORS IN ORDER OF APPEARANCE WERE: W6CF, WA6BVB, N6KB, K6EBB, W1ARR, N6BT, WA6VEF, N6NE, AND N6IG. THE MAN WHO HELD OUT THE LONGEST WAS BOB, W1ARR, WHO WAS EDITOR FOR 20 ISSUES. HIS STANDARD OF EXCELLENCE WAS EXPRESSED ON THE MASTHEAD OF HIS VERY FIRST ISSUE: "A JOURNAL OF SMEAR AND INNUENDO ISSUED SEMI-LITERATELY DESPITE INTENSE PUBLIC OBJECTION!" SERIOUSLY, BOB CREATED THE MASTHEAD DESIGN STILL IN USE TODAY, AND HE ALSO KICKED OFF "KICK BUTT" IN THE NOV. 1975 ISSUE. BUT BACK TO THE QUESTION AT HAND.

WHY THE JUG?? W1ARR CAME AS CLOSE AS ANYONE TO GUESSING THE SIGNIFICANCE OF THE NAME WHEN HE POINTED OUT THAT "JUG" IS JUST ANOTHER WORD FOR "CROCK" -ED?

ACTUALLY, IT HAPPENED AS FOLLOWS. IN OCTOBER, 1970 AT THE NCCC MEETING THE  
( CON'T. ON PAGE 6)

CALL	QSOs	MULTS.	CLAIMED SCORE
K6XO	1066	87	328K
N6QW	622	76	162K (LOW PWR)
K6OMB	600	50	140K
W6YX	3100	120	1.3M (MULTI-OP)
WA6HCI	1900	100	680K
AH2E	1900	106	700K
K6CSL	265	37	40K
KN6K	126	29	35K
K6RU	383	47	72K
KB4BH	1800	120	720K
W6SX	1119	86	329K
WB6DSV	230	49	41K
KH6XX	5861	186	5.0M (MULTI-OP)

Wow! LOOK AT THAT KH6XX SCORE AND COMPARE IT WITH LAST YEAR'S RECORD MULTI SCORE MADE BY OUR GANG AT CK7WJ - 2.9M POINTS. HERE IS HOW IT WAS DONE :

KH6XX + WA6VEF + N6KT  
(MULTI-OP/SINGLE XMTR)

BAND	QSOs	MULTS.	BAND	QSOs	MULTS.
160	15	5	15	3,634!	48
80	41	14	10	654	38
40	154	29	6	2	2
20	1,159	49	2	2	1

BEST HOUR: 0500, FRI. ON 10, 15, AND 20:  
217 QSOs -Now THATS KB!!!

CAC REPORT - ARRL DX FORMAT CHANGE

THE CONTEST/AWARDS COMMITTEE AT ARRL HEADQUARTERS HAS ADOPTED THE FOLLOWING CAC RECOMMENDATIONS:

1. THE ARRL DX CONTEST WILL REVERT TO THE PREVIOUS "W/VE WORKING THE REST OF THE WORLD" FORMAT, BEGINNING IN 1981.

2. SINGLE BAND CATEGORIES IN THE ARRL DX CONTEST WILL BE RETAINED.

3. A RULE REQUIRING ALL TRANSMITTING AND RECEIVING EQUIPMENT TO LIE WITHIN A 500 METER CIRCLE IS INSTITUTED. THIS WOULD NOT APPLY TO DIRECTLY CONNECTED ANTENNA SYSTEMS. (THIS RULE WOULD DISALLOW WIDELY SPREAD OUT MULTI-SETUPS).

A DECISION HAS NOT YET BEEN MADE ON A DATE CHANGE FOR THE 10 METER CONTEST, AND IT APPEARS NOW THAT IT WILL RUN IN DECEMBER.

- ALAN, K6XO

NEW MEMBER

JOHN J. BUONOCORE - KA6CUG  
112 OAKWOOD DRIVE,  
REDWOOD CITY, CA 94061 (415)366-1658

JOHN IS 17 YEARS OLD AND HAS BEEN LICENSED FOR TWO YEARS. HE IS GENERAL CLASS AND AN ARRL AND RCC MEMBER. HE OPERATED 100% CW AND HIS STATION INCLUDES A TR-3, HW-8 AND WIRE ANTENNAS, BUT A BEAM IS ON THE WAY. HE HAS HAD FD CONTEST EXPERIENCE AT K6YT.

GREAT TO HAVE YOU ABOARD, JOHN.

CLASSIFIED

CLASSIFIED

ESTATE SALE:

- TETRONIX 7403N OSCILLOSCOPE....\$1,200.
- SWAN 350C, 117XC PS, SHURE 104A.. 300.
- HEATH HW202, 2M XCVR(NO PS)..... 110.
- HALLICRAFTERS SR42 2M AM XCVR... 15.
- MFJ 941B TUNER..... 50.
- HYGAIN ROTOR INDICATOR BOX..... 25.
- LARSEN 2M 1/4W.MAG MOUNT ANTENNA 12.
- ATLAS 210X W/MOBILE AND BASE MO. 600.
- HUSTLER MOBILE COILS W/BASE..... 70.
- HEATH DX100 XMTR (80-10)..... 50.
- TRISTAO CZ 454 TOWER.....1,000.
- TH6DXX ANTENNA ..... 125.
- 402BA ANTENNA..... 80.
- TS700A 2M XCVR..... 450.
- SHURE 104A MIKE..... 20.
- OLD HEATH SWR BRIDGE..... 5.
- PRE-PRAGUE 1CH. 450MHZ BASE STA. 50.
- MFJ CW FILTER..... 10.
- HEATH HR10B RECEIVER..... 40.

ALL FROM GARY, WA6VEF (415)538-0520

FOR SALE FROM N6QW (415)267-7083

KENWOOD TR2200-A2M XCVR INCLUDING: MIKE, CASE, NICADS AND CHARGER, 3 PWR CORDS, XTALED FOR 11 CHANNELS. ALSO MOBILE MOUNT.

FOR SALE FROM N6RO (415)625 2707

ALPHA A-70, ALL BAND AMPLIFIER. \$1,500. EIMAC 1500A7 TUBE HAS ONLY 100 HRS ON IT. THE AMPLIFIER HAS BEEN OVERHAULED AND HAS A NEW PLATE XFMR. CONSIDER TRADE

THE NAMING OF THE CONTEST JUG (FROM P5)  
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FOR SALE FROM N6AUV (415)851-1688  
ALUMINUM CRANK-UP TOWER, 40'+8' EXT GUYED, WITH HAM-M ROTOR...\$275.  
15/10 ANTENNA.....\$75.

FOR SALE FROM N6RZ (408)426-6691  
ECHO-70, 432, USB, LSB, CW XCVR WITH 435MHZ SATELLITE OPERATION. 10W OUT. KLM 10-35 AMP. W/35W OUT. PACKAGE \$350.

FOR SALE FROM K6CSL  
HEATHKIT HW-12, 75M SSB XCVR W/ AC AND MOBILE PS, 75M MOBILE ANT. \$100.

STOLEN!!

IN THE EARLY MORNING K6XO'S 2M RIG WAS STOLEN FROM HIS VAN PARKED IN HIS HOME DRIVEWAY! THIS WAS WED. AUG.13. IT IS: HEATHKIT MODEL HW 202. XTALED FOR: 52S, 28-88, 84-24, 34-94, 43S, 96-36. EMITS DISTINCTIVE INTERMITTENT NOISE. CONTACT ALAN IF YOU RUN INTO IT ON THE AIR OR IN PERSON.

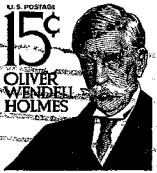
NCCC QNI NET - JULY 9-AUGUST 6

WR6ADM: AA6G(5), N6QOB(4), KN6K(4), K6KLY(3)  
WA6VEF(3), K6CSL(2), K6OMB(2), KB6XN(2)  
W6SZN(2), N6XI(2), N6QW(2), WB6DSV(2),  
W6NLG(2), WA6ITV, N6YV, WD6AGJ, N6RZ, K6XO,  
N6AUV, W6OWQ, K6HNZ, W6SX, KN6M, K6RU.

ROSTER CHANGE: KN6M IS EX-K6OYE

JUG DEADLINE: 9/8 BoD MTG: 9/4 AT K6RU

THE CONTEST JUG-PUBLISHED MONTHLY BY THE NORTHERN CALIFORNIA CONTEST CLUB  
34456 COLEVILLE PLACE  
FREMONT, CA 94536



FIRST CLASS  
FIRST CLASS  
FIRST CLASS



N6SF  
Mr. Charles K. Epps  
5-A Buena Vista Terrace  
San Francisco, CA 94117

