

# The Contest JUG



Newsletter of the NORTHERN CALIFORNIA CONTEST CLUB  
3130 Raleigh Court  
Fremont, California 94536

"QRZ Contest  
from W9WNV/VE8"

No. 64  
September, 1977

Pres.: N6BT. VP/Contest Chmn.: WB6LPK. Sec./Treas: W6MSF. JUG Editor: WA6VEF.  
Directors: N6RO, N6VV, K6ZM. By-laws Chmn.: W6RGG. Contest Director: WA6JUD.  
JUG Post Production: N6CY and R6BYN

## SS GAVEL NUMBER THREE

### PREDICTED ELECTROMAGNETIC ACTIVITY

Sept. 26 NCCC Club Meeting, AS&L Bldg,  
Hayward; 7:30 p.m.  
Oct. 1 California QSO Party  
Logs postmarked 10/31/77.  
8-9 Closed CD Party CW  
15-16 Closed CD Party SSB  
24 NCCC SS Club Meeting, AS&L Bldg  
Hayward; 7:30 p.m.  
29-30 CQWW Phone  
Nov. 5-6 Gavel #3 CW  
19-20 Gavel #3 Phone

### COP ORV? COP ORV?

Alert, Alert, this is not a drill.  
The California QSO Party is upon us.  
The following is a COP Status Report from  
N6VV:

TO ALL RADIO CONTESTERS,

The secret of the NCCC Sweepstakes  
victories over the last two years can now  
be revealed--The California QSO Party!  
As of this writing, a mass mailing has  
gone out to all the big and medium gun  
contest clubs in the nation, which in-  
cludes summary and log sheets. All the  
CQP participants over the past two years  
have been contacted by phone or letter,  
and are aware of the event this year. A  
handsome plaque will be awarded to the  
California winner and the out-of-state  
winner. Also, section certificates will  
be awarded to the various California  
county winners. Rules are in QST and  
this issue of the JUG.

We still need several counties con-  
firmed to make this contest a real smash.  
Many people are suffering from the "third  
year" syndrome. That is, those who pre-  
viously went out to counties are staying  
home this year. The expeditioners and  
mobilers are vital to the success of the  
CQP. Please help our club out and head  
for the hills if you have a chance. There

(Please QSY to Page 2)

### -A CALL to ARMS-



"I want YOU.....!"  
-Uncle Sam-

Yes, it is SS time. Back East the dew  
is forming on the lillies and the East  
Coasters are thinking of their favorite  
contest--Sweepstakes. But, at the same  
time, they will be bracing their butts for  
the kick, which will be administered by,  
you guessed it, the best contest club in  
the world--us!

Under the fine leadership of WB6CEP/  
N6OP we have triumphed for two years, and  
I cannot see, after much training and sta-  
tion upgrading, that our group can do any-  
thing but make it 3 years in a row. As  
usual, we will need your total co-operation  
together with the super-competitive efforts  
shown by you guys in the past.

To reward everyone more fully this year  
(especially the small stations which, when  
multiplied by many, make a huge portion of  
our score) there will be a super FB, extra-  
special, too cool certificate awarded to  
any club member who makes at least 400 QSOs  
(both modes total) with stickers for every  
100 Qs thereafter, and a special sticker  
for 1000 QSOs. Bob, W6RGG/N6KB, is offer-  
ing an extra-special "KB-2000 Award" this  
year. (Plan on making a lot of them, Bob.)

Leading up to the SS this year, we have

(Please QSY to Page 2)

SS '77 (from Page 1)

had the SS Kickoff Picnic in Sunnyvale, and I hope you all had a good time. Future Mini-tests on the Tuesday night net will feature the SS exchange, and please expect contact from your Area Co-ordinator in the very near future. Please feel free to telephone Carl, WA6JUD (ph. 685-7987), or Phil, K6ZM (ph. 837-6894), if you need special help in co-ordination of a guest op, loan of equipment, help with antennas, etc. Many young operators in our club would enjoy operating any size station to help our effort this year.

Remember, we beat PVRG by a very small 350K in 1975 and 500K last year. The rest of the competition is not far behind our score, so your help is needed in reactivating dormant members and recruiting new troops into our group.

Our able Area Co-ordinators are as follows:

Lower EBay	Gary--WA6VEF.....	538-0520
Upper EBay	Carl--WA6JUD.....	685-7987
Sac Valley	Norm--N6JV.....	666-1465
San Fran	Dean--N6BV.....	664-8190
Lower SCV	Bruce--N6TU.....	733-7800
		or 967-0194
	George--WB6DSV.....	739-4233
	Rich--N6KT.....	446-2140
Upper SCV	Ron--WA6ITV.....	851-0144
		or 497-3137
Younger SCV	Paul--WB6UOC.....	961-3165

Hoping all of you have a chance to operate in the CQP bash. We'll be ready to KB for SS!

Carl WA6JUD  
and Phil K6ZM  
SS Chairmen

NON-ANONYMOUS SCORES FROM AA

Single op, all band

N6RO.....	1325	1-4
K6HIH.....	135	?
N6VB.....	80	19

Multi-single

W6NLZ (+WB600L and N6TU).....	1250	130
K6OQ (+WB6DSV).....	1115	124
K6XV (+N6VV).....	1127	118
W7OX (+W7XZ).....	1130	115
WB6IGY (WA6BMV, WB6UOC, WB6ION, WA6VEF, N7GM, and WLARR ops).....	850	96
K6AYA (+WA6OEC).....	702	104

40 meter single band

N6BT.....	746	38
K6RU.....	457	35
W6LH (WA6HJV op).....	325	33

20 meter single band

WA6DYZ.....	370	33
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15 meter single band

N6OP (WA6VEF op).....	45	21
N6PO.....	44	7

and a few band QSO/multiplier breakdowns

	<u>N6RO</u>	<u>W6NLZ</u>	<u>K6OQ</u>	<u>K6XV</u>
80M	120/32	85/25	75/26	42/18
40M	638/35	700/35	536/32	607/34
20M	467/46	400/35	448/41	419/42
15M	100/28	80/29	74/15	59/24

CAN-AM RESULTS

WA6VEF.....(PH)	1204	180
	(CW)	669
N7GM/6 (+WB6ION and WA6BMV).....(PH)	722	159
	(CW)	496
K6AYA (+WA6OEC).....(PH)	20	?
	(CW)	295
K6HIH.....(PH)	262	?
	(CW)	167
WA6UOM.....(PH)	107	35
W7XZ.....(CW)	71	43
N6NE.....(CW)	60	25

Others known to have been active: WA6HJV, W6OKK, N6BT, W6BIP, WB6EMR, WA6DYZ, W7XZ, WB6DSV, WB6PCO, WB6UOC, K7SS, N6VB, N6JP, WA6JUD, W6UA, K6XV, N6JV, K6STI, es N6TU.

CALIFORNIA QSO PARTY (from Page 1)

are still some Southern California counties open as well as Far North counties. Please lend a hand. The CQP is one of the best QSO parties around.

After the contest a log committee will be formed to check the logs, tally the scores, and get the results published in a reasonable time period. All inquiries should go to N6VV or N6TU. Please talk it up on and off the air. Gud Ruk!

NCCC Tuesday Night Net August QNI List

3) WA6VEF, K6AYA, 2) WA6BMV, W7XZ, N6KT, WB6UOC, K7OX, N6EE, N6VR, N6NE. 1) K6HIH, WA6OEC, WA7MOX, WB6DSV, N6BT, N6DA, N6RO, WA6HJV, WA6ITR, N6VV, N6TU, and WA6JUD.

**KB!**

THE PRES RELEASE

Ready, Set, Here we go---right into the contest season! Yes, gang, it's September and the time is upon us to get set to K some B this November. But--first things first.

CQP is, of course, prior to SS, and is traditionally the warmer-upper. Be sure and read the CQP article and note the new awards. Lew has been organizing like crazy and has the situation well at hand. He will need some help from a few of us (you) to review the logs when they come in. Please try to spare some time for this effort.

The NCDXCC BoD will be making a decision shortly concerning CQWW and ARRL DX. CQWW is the NCDXC first choice contest, and a well co-ordinated effort along with a great 2-meter net could be loads of fun. ARRL DX is a bit farther away, but please have your opinions ready at the September meeting for the NCDXCC activities. If your grapevine isn't what it used to be, you probably haven't heard of the 30-40 disqualifications in the '77 ARRL DX. The list subtracts over 14 MEG from Frankfurt (at least 6 biggies) including W3WJD phone @ W3BGN phone. PVRC lost W3AU CW, and YGUC lost WLZA both modes. Don't have a complete list, but the NCDXCC just may have done well afterall!!

I received a nice letter from Larry Daily, W6KZJ, and he is back to work. In it, he says, "I also want to thank the gang for all the cards and phone calls and all the help on the night I conked out! I sure hope I don't have to go through that kind of meeting again--HI." Neither do we, Larry--good to have you back. Larry asks for an updated roster (as have many others), and they will be available at the September meeting (this is not a misprint!--VEF).

The NCCC will be entertaining nominations for Secretary/Treasurer at the next meeting. Due to substantial increases in responsibilities at his business, Carl, W6MSF, has reluctantly resigned from this post. The position is, of course, very important, and we need to fill the vacancy now.

The regional meetings announced new NCCC SS and NCCC/PVRC co-sponsorship of the Club awards. To further add to WA6JUD's and K6ZM's description of SS awards in their JUG article, the NCCC is offering the Sweepstakes Proficiency Award, which has an entry level of 400 QSOs. Each additional 100 Qs is gifted by an endorsement sticker up to six, or

1000 Qs. This level affords a large gold endorsement with the total QSO count imprinted on it. A Clean Sweep receives a red endorsement, and for CW, a count of 70 multipliers also is endorsed. Q counts remain as the KB-1000 with total counts going to each operator and station owner. The basic certificate will resemble more of a DXCC-type quality. The top award is the KB-2000, privately sponsored by W6RGG/N6KB. Bob will foot the entire bill and assures us he will mortgage his gear if necessary to fulfill his promise!! The NCCC/PVRC awards are described in October QST, but last Friday (the 9th) I received word that PVRC had decided against their supporting the project. This was quite a surprise, and Eric, K3NA (secretary of PVRC), was almost speechless. Nevertheless, the NCCC will continue. These awards will generate a dramatic upswing in club competition, and the ARRL and CAC are very enthusiastic. They are:

1. Greatest percentage increase in score over the last 3 years ('75-'77).
  2. Greatest percentage increase over the prior year ('76-'77).
  3. Highest average score per entry.
- To be eligible, a club must have a least twenty entries and at least 200K points during each of the qualifying years on the percentage awards. Talk it up to other clubs you know--it will also be in Radio Club News (ARRL).

I hope everyone had a good time at the Sunnyvale Olympics picnic. See you at the September 26th meeting!

73,

Tom N6BT

NORTH AMERICAN SPRINT RUNS AMOK...

but, nevertheless, here are some scores:

N6BT.....	236/44	W6AQ.....	181/ ?
N6TV.....	223/ ?	(WB6KJI op)	
WA6VEF.....	187/39	W7NI.....	32/ ?
N6TU.....	181/42	K0KX.....	193/36
K6RV.....	196/43	W2GD.....	198/40
N6NE.....	44/21	N2NT.....	210/39
WA7MQX.....	92/32	K6WI.....	152/ ?
W0ZLN.....	271/ ?	N4AA.....	178/37
W6UE.....	189/ ?	K8MR.....	186/36
(WA6OTU op)		K0MM.....	189/39
N6DE/4.....	129/ ?	W2RQ.....	183/35
K3UA.....	214/41	W8KIC.....	190/41
N4BP.....	180/40	K8NZ.....	186/38
W9RI.....	180/40	K3OWN/5.....	130/32
K2NO.....	177/40	N4SA.....	214/ ?

NCCC TELETYPE: HAYWARD

K6AUC celebrated the All Asian CW contest by getting married. Congratulations, John.....N6VB (ex-WB6HBT) operated for a few hours from HV3SJ in Vatican City during a vacation in Italy last month. According to Scott, the East Coast was grossly loud and the West Coast was non-existent.....WB6DSV has upgraded to Extra. FB.....N6BT reports that 40 meters has been very good into EU from 0300-0530Z and long path at about 1400Z.....Reminder: Greater Bay Area Hamfest and Pacific Division Convention at the Royal Coach Inn in San Mateo, October 15th and 16th. Pre-registration is \$14, regular registration is \$16. Pre-reg money should go to GBAH, Box 751, San Mateo, CA, 94401..... "NCCC YOUTHS INVADE SF SECTION"--Fifteen KBers celebrated the end of the AA test and bid farewell to Europe-bound WA6GSN by carpooling it over to San Francisco for Chinese food and a screening of the movie "Star Wars." Included in this more-or-less sane group were N6CY, WA6GSN, WB6SJQ, WA6UOM, WA6VEF, WA6BMV, N6NE, N7GM, N6HT, WB6ION, WLARR, and WA6UOM. Highlight of the evening: the WB6ION carload getting lost on Polk Street..... Erector Set--What's Going Up: W6RGG, 5 on 10 and 6 on 15; N6RO, 6 on 15; W6MSF, 4 on 40; WA6JUD, 5 on 20, 2 on 40, 6 on 15, and 5 on 10; N6EE, 5 on 20 and 2 on 40 at 100'; and N6BV, much aluminum on all bands.....W6RGG is running for SCM in the East Bay Section, and would appreciate the support of all NCCC members in EBay.....SK

SEPTEMBER VHF OSO PARTY SCORES

WA6JUD/6.....	580	35
K6KLY.....	429	37
W6YKM (+K6LXO).....	+310	39
WA6HCI.....	339	30
WA6VEF.....	92	4
WB6SHD.....	79	4
WB6SJQ.....	67	4
WB6NPZ.....	29	7
WB6ION.....	38	2

CALLSIGN OF THE MONTH CLUB

WB6EMA is now N6PO  
 WA6PMK is now K6AV  
 WA7RPI is now N7GM  
 WB6HBT is now N6VB  
 W6GFF is now W6LH  
 WA6QGW is now W6NV

VICE PRESIDENTIAL CONTEST COLUMN de N6TU

"I want YOU," says Uncle Sam, "for the SS contest this November." Rush immediately to your SS recruiting station and volunteer--NOW!

Boot Camp will be held on the weekend of October 1st, and many of the recruits will be on field maneuvers during that time. Now is the time to bring out your guns and cannon, and wipe the cobwebs off your gear. This is WAR.

Intelligence and G2 report that the forces of the East are massing and intend to give battle again. Much new artillery is showing up in time for the test. The new awards program is in effect. Chiefs-of-Staff K6ZM and WA6JUD have rounded up all of the SS (activists) co-ordinators, so contact the one nearest you. Don't let November catch you "plucking chickens in Petaluma," but instead "kicking turkeys in Connecticut."

SS '77: A CALL TO ARMS.

MAXI-TEST RESULTS--AUGUST 9th

The August 9th Maxi-Test was low in participation because of a mix-up in the starting time. Rules as published in the NCJ were different from the JUG, and much confusion resulted. Henceforth, the Maxi will begin at 0200Z (7 p.m. local time), with the NCCC net immediately following at 8 p.m.

By the way, the next Maxi-Test is scheduled for October 11th at 0200Z, CW only. An award will be available then to the 1st and 2nd place finishers, and will be retroactive affecting the previous tests.

	<u>Pwr</u>	<u>Qs</u>	<u>Mult</u>	<u>Score</u>
1. N6KB.....	H	55	26	7150
(WA6VEF op)				
2. N6CJ.....	H	49	26	6370
3. N6TU.....	H	44	24	5280
4. WB6DSV.....	L	44	23	5060
5. K6LL.....	H	36	25	4500
6. N6BT.....	L	42	21	4400
7. K6EE/6.....	L	27	14	1890
8. CY4UO.....	L	23	16	1840
9. VE4VV.....	L	22	15	1650
10. WA7QQD.....	H	16	7	560
11. K8NZ.....	H	13	6	390

MORE CALLSIGN OF THE MONTH CLUB MEMBERS

WA6BFL is now N6NE  
 W7OX is now K7OX  
 WA6DYZ is now N6HT  
 and WA6MQS is now N6KT

**1977 CALIFORNIA QSO PARTY**

Sponsored by the Northern California Contest Club

The 1977 California QSO Party will begin at 1800 UTC (11:00 AM PDST) on Saturday October 1, and end at 2400 UTC (5:00 PM PDST) on Sunday, October 2. Of the thirty hour period, the maximum operating time shall not exceed 24 hours. Times on and off must be clearly marked in the log. Each time off shall not be less than 15 minutes.

All amateur bands may be used, and stations may be worked once on phone and once on cw on each band. A California station which changes counties ( i.e. a mobile or portable ) is considered to be a new station and may be contacted again on each band and mode.

California stations will transmit consecutive QSO numbers and county. For county on CW, see abbreviations below. Non California stations will send consecutive QSO numbers and state, Canadian province, or country. California stations may work each other, but contacts between stations outside of California have no contest value. Each complete QSO shall count two points; no credit is allowed for partial contacts. The multiplier for California stations shall be the number of different states plus Canadian districts (VE/VO 1-8, maximum of 8). California stations may count the state of California as one multiplier. Also, DX may be worked for QSO points, but does not count for multipliers. Non-California stations will use as their multiplier the number of different California counties worked (maximum 58). The final score equals total QSO points times the multiplier. Remember to count two points per valid QSO.

Suggested frequencies; cw : 1805, 3560, 7060, 14060, 21060, 28060, ssb: 1815, 3895, 7230, 14280, 21355, 28560, novice: 3725, 7125, 21125, 28125. Try 10 meters on the hour and 15 meters on the half hour between 1800 and 2200 UTC.

Log information should include date, time, band, mode, callsigns worked, and exchanges sent and received. Please remember to number each new multiplier as worked. A summary sheet should be included showing your callsign, name, address, number of QSOs on each band, total number of QSOs, total multiplier (maximum 58), claimed score, and whether the entry is single or multioperator. Summary sheets are available from the NCCC.

Certificates will be awarded to the highest scoring station in each California county, state, province and country. A portable station must make a minimum of 20 QSOs to be eligible for a county certificate. Second and third place awards will be made where justified. In addition, certificates will be awarded to the highest scoring mobile station, portable station, and multi-operator station. A certificate will be awarded to the club submitting the highest aggregate score.

All entries must be sent to the NCCC c/o Lew Jenkins, N6VV, 1750 Eucalyptus Ct., Concord, CA, 94521, and must be postmarked not later than October 31, 1977. A large business-size self addressed stamped envelope is requested with each entry. All comments and suggestions will be appreciated.

**COUNTY ABBREVIATIONS**

Alameda	ALAM	Marin	MARI	San Mateo	SMAT
Alpine	ALPI	Mariposa	MPSA	Santa Barbara	SBAR
Amador	AMAD	Mendocino	MEND	Santa Clara	SCLA
Butte	BUTT	Merced	MERC	Santa Cruz	SCRU
Calaveras	CALA	Modoc	MODO	Shasta	SHAS
Colusa	COLU	Mono	MONO	Sierra	SIER
Contra Costa	CONT	Monterey	MONT	Siskiyou	SISK
Del Norte	DELN	Napa	NAPA	Solano	SOLA
El Dorado	ELDO	Nevada	NEVA	Sonoma	SONO
Fresno	FRES	Orange	ORG	Stanislaus	STAN
Glenn	GLEN	Placer	PLAC	Sutter	SUTT
Humboldt	HUMB	Plumas	PLUM	Tehama	TEHA
Imperial	IMPE	Riverside	RIVE	Trinity	TRIN
Inyo	INYO	Sacramento	SACR	Tulare	TULA
Kern	KERN	San Benito	SBEN	Tuolumne	TUOL
Kings	KING	San Bernadino	SBER	Ventura	VENT
Lake	LAKE	San Diego	SDGO	Yolo	YOLO
Lassen	LASS	San Francisco	SF	Yuba	YUBA
Los Angeles	LA	San Joaquin	SJOA		
Madera	MADE	San Luis Obispo	SLO		

# CALIFORNIA QSO PARTY

CALL SIGN

STATE  
OR  
COUNTY

BAND	QSOs	CLASS
10		<input type="radio"/> SINGLE OPERATOR  <input type="radio"/> MULTI OPERATOR Operators
15		
20		
40		
80		
160		
TOTAL QSO		

X 2

Total Multiplier

Final Score

X

=

**CLUB PARTICIPATION**

Mailing Address

Name \_\_\_\_\_

Number and Street \_\_\_\_\_

City, State/Province \_\_\_\_\_

Zip \_\_\_\_\_

I Have observed all competition rules as well as all regulations established for amateur radio in my country. My report is correct and true to the best of my knowledge. I agree to be bound by the decisions of the Contest Committee.

Signature \_\_\_\_\_

Call \_\_\_\_\_

AMERICAN RADIO RELAY LEAGUE  
Pacific Division Elections  
The Candidates With The Tested And Proven Records

CHUCK K6UWR  
Charles R. Breeding  
Candidate for Director

PAT KH6GQW  
J. P. Corrigan  
Candidate for Vice Director

Our Commitment

As your Director and Vice Director, we are committed to involving you in Division affairs by keeping you informed of the activities of your League and by establishing channels of communication through which you can make your thoughts and opinions known. We are equally committed to establishing the Pacific Division as a leader within the League family by more effectively utilizing the talent within the Division to provide intelligent, creative solutions to the many problems confronting the ARRL and amateur radio.

Communication With You

As your Director and Vice Director, we will work toward true two-way communication between ourselves and the Division membership. Only through this type of contact can we function in your best interests. We propose to keep you informed with direct mailings of a Director's newsletter, bulletins to your local clubs, a weekly on-the-air net, an annual Director's meeting, and through appointment of Assistant Directors whom you know and whom you can easily contact. We must rely upon you, however, to communicate your ideas to us either directly or through your clubs and Assistant Directors. We must count upon you to take an active part in the Division if we are to proceed in the best interest of all. It is your ideas and suggestions which will determine the future of the Division, and ultimately the future of the League and Amateur Radio. Your elected officials must respond to you -- and we will!

We Offer Experience

Both of us currently are serving you as Sections Communications Managers and Assistant Directors of the Pacific Division. We both have extensive backgrounds in League matters and experience working with the membership. We are active in almost every phase of amateur radio and we intend to serve every interest without conflict or bias. We believe we are uniquely qualified to serve you as your Director and Vice Director.

A Vice Director In Hawaii?

The Pacific Division stretches from eastern Nevada to Guam, but historically both our Director and Vice Director have come from the San Francisco Bay Area. We believe the lack of geographical diversity limits the information available to the Division's top leadership since both officers hear the same local viewpoints, and little, if any, input comes from the more distant regions. We think a Vice Director located in Hawaii will provide us with a wider range of alternatives and will permit involvement of more members in Division activities. As to the **physical** separation between the Director and Vice Director, we do not see this creating any communication problems, for, as candidates, we have maintained almost weekly schedules on 20 meters and know we can speak directly whenever the need arises.

You And The Future

We are committed to work for you, but first we need your help! We need your support during the campaign and we need your vote at election time! Most importantly, we need your active participation in the Division after we have been elected Director and Vice Director.

MINI-CONTEST RESULTS

Aug. 16. Exchange: RST and no. of different amateur antennas at station. Multiplier: no. of different antenna totals of stations worked. Five minutes CW, 5 minutes SSB.

High Power		Low Power	
N6RZ	18 9	1st	WB6DSV 16 10
K6HIH	16 9	2nd	WB6MQK 16 9
W7OX	16 9		WA6VEF 16 9
N6DA	16 8	3rd	N6TU 17 8

W7XZ 13/8 LP, K6STI 12/7 LP, K6AYA 10/6 LP, K6XO 10/6 HP, WA6UOM 8/5 LP, WB6ITN 4/4 LP, WA6OEC/M6 4/4 LP, W6LH (WA6HJV op.) 1/1 LP, K7NHV/6 1/1 LP, N6RO 1/1 LP.

Aug. 23. Exchange: RST and age. Multiplier: different ages on both modes. Length: 5 minutes CW, 5 minutes SSB.

High Power		Low Power	
N6TU	20 19	1st	WA6BMV 19 18
WA6MQS	13 12	2nd	WA6VEF 18 18
K6AYA	12 10	3rd	N6VR 17 17

K6STI 15/15 LP, WB6UOC 15/15 LP, W7XZ 15/12 LP, WA6JUD 12/9 HP, N6YR 9/9 LP, and WA6OEC 1/1 LP

Aug. 30. Exchange: RST and no. of different amateur antennas. Multiplier: no. of different antenna totals of stations worked. Five minutes CW, 5 minutes SSB.

High Power		Low Power	
N6ZZ	18 7	1st	WB6MQK 18 8
K6HIH	21 5	2nd	WA6BMV 14 7
K6AYA	13 5	3rd	K6STI 16 6
			WB6UOC 16 6
			W7XZ 16 6

WA6VEF 15/5 LP and WA7MQX 6/4 LP.

Sept. 6. Exchange: RST and no. of different amateur antennas at station. Scoring: QSO points times different antenna totals of stations worked. 1 point for working a station on only one mode, 3 points for working a station both modes. Low power. Length: 5 minutes CW, 5 minutes SSB.

1st Place	WB6MQK	22 pts	8
2nd Place	N6BT	23 pts	6
3rd Place	K6HIH	27 pts	5

WA6HJV 18 pts/7, WA6VEF 22 pts/5, and K6AYA 18 pts/5.

These tubes are needed for the WR6ADM NCCC repeater. If you have any of these to spare, please contact W6RGG:

1	OD3A/OD3	2	12AT7	10	6BH6
2	2050	1	6AL5	2	6AK6
3	6AM4	5	12AX7	1	6AK5
1	6CB6	1	6360	2	6939
		1	8072		

CONTRABAND CORNER

For Sale: Heath HW 2021 2 mtr HT with 6 Xtals, 3 offset Xtals, touch tone pad, carrying case, rubber duckie ant, nicads, battery charger, and 10 watt amp, all for \$150. WA6BMV, 522-3178.

Wanted: Inexpensive tower section, tri-bander, and/or linear amplifier. WB6BWP, 656-0478.

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