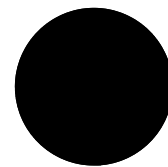

★ **ARRL SS 2000 Unlimited Team Champions** ★

The Black Hole



Official Journal of The Society of Midwest Contesters

Volume XV Issue 2

October 2001

Upcoming Activities

Oceania DX SSB

Oct 6-7

California QSO Party

Oct 6-7

Oceania DX CW

Oct 13-14

PA and RI QSO Parties

Oct 13-14

Illinois QSO Party

Oct 20-21

JARTS RTTY

Oct 20-21

NCJ RTTY Sprint

Oct 21

Arkansas QSO Party

Oct 21

BARTG RTTY Sprint

Oct 27-28

CQWW SSB

Oct 27-28

ARRL Sweepstakes CW

Nov 3-5

ARRL Sweepstakes SSB

Nov 17-19

Countdown to Sweepstakes

by Pat Barkey, N9RV



CW SS is just six weeks away! Will you be ready? We sure hope so. Other clubs will be gunning for us, so we'll have to work harder to repeat on top.

A successful contest effort requires preparation, on the part of all of us. With everything going on in our lives, it can be tough to get all the ducks in a row in time for the contest. Here's a suggested "countdown" to keep on track.

T minus six weeks (that's now!)

Get the contests on your family calendars! Make sure your YL and harmonics know you'll be "busy," and find a way to let your boss let you go (but not permanently!).

Fire up your rig on all bands and see if it's still working. If it's dead, you may still have time to send it out to be fixed, if you do it now. Make note of any SWR abnormalities, sticky relays, noisy fans, RF in shack, etc. that need attention. Give your rotor a spin and see how its doing. Trees have a funny way of growing higher, you know.

Make a list of station fixes that you need to do and prioritize them. If something takes you out on all bands, do that first! But don't sweat it out perfecting the ultimate two radio switch box before you even have a working 40 meter antenna, OK? Remember, 40 is the money band from W9, and that's where you want to be as loud as you can.

Can you borrow an amplifier for the weekend? Even if you have limited time for the contest, you'll make a lot more QSOs with high power. Heck, I'll even loan out my homebrew amp, but you're gonna need a flat bed to haul it off. (Ask K9IG about that).

(Continued on page 3)

The Black Hole



The **Black Hole** is published six times per year by The Society of Midwest Contesters. Permission for use of the materials is hereby granted on the sole condition that credit is given to the source of those materials.

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SMC Badges



KA9CAR

John Dewey

SOCIETY OF MIDWEST CONTESTERS

Club badges can be obtained by sending a check for \$5.50 to:

Midwest Engraving

6920 W. North Ave.

Milwaukee, WI 53213

Phone (414) 258-8655 FAX (414) 258-8656

Be sure to note that it is for a "Black Hole" badge and please allow a couple weeks for delivery.

W9SMC

Official Callsign
of
The Society of Midwest Contesters

SMC Web Page: www.w9smc.com
Reflector: smc@qth.com (members only)

Articles and score rumors are welcome and needed for The Black Hole. We can accept material in any of the following formats.

- 1) MS-DOS disks in most popular word processing formats.
- 2) MS-DOS disks in ASCII format.
- 3) MS-PUBLISHER files
- 4) E-mail: k9qq@hawaii.rr.com
- 5) Hard copy (preferrably typed)

T minus three weeks

Finalize the fundamentals of your station. The layout, the software, the rig/keyer etc. You don't want to be hooking up new boxes in the hours before a contest, believe me! If you're operating from someone else's station, take a trip over there and see if there's anything that needs changing.

You'll also want to make a permanent decision on how you're going to log the contest. Its fun to try new software, but give yourself the three weeks before the contest starts to figure it all out. And don't sweat it if you don't run a computer. Nobody on the air will know!

You should have all of your basic hardware working at this point. Your computers should be talking to your radio, and the flaky problems you know about should all be tracked down and solved.

Start getting in the habit of turning your radio on and listening to the bands a little bit. If you don't get on too much between contests, or haven't perfected your CW to compete with T.R. McElroy, its amazing what a few hours of listening can do for the cobwebs up there. (Note: this isn't recommended for SSB unless you enjoy hearing about other people's medical problems!).

T minus one week

This is the deadline for getting all of your "extra" stuff going. This can be your second radio, your programmable keyer, or even your little refrigerator to keep your Coke's cold (or Diet RC, if you're N4TZ). There's lots of little gadgets you might want to consider if you want to have more fun and be more competitive -- anything that makes band changing easier is especially encouraged.

Have you gotten on the air with your friends? Not only is it a good way to get the rust out of your system, if you run some signal checks you might get some useful information that will help you with contest strategy. If your antenna is a dud on 80, for example, you won't waste time during the contest finding that out the hard way. Get on the air with a buddy and cycle through the bands. You'll get a feel for how quickly you can band change as a plus.

You should also be getting some ideas of how you're going to run the contest. Maybe you can look at a couple of other people's logs, or some old ones of your own. And if you can't run full time, try to get at least some time in on Saturday night. You don't want to spend all your time on Sunday handing out QSOs to our competition in Northern California if you can help it. SS'ers are going at it all night, so even if you don't get home until midnight, don't be bashful.

T minus one day

Get your sleep and be as physically prepared as possible. No one can operate very well coming off a long car trip, or after spending all day on the tower, for that matter.

Clean and organize your operating area. If you run an amp, or don't have an auto-tune radio, make markings on index cards behind your tuner/loader knobs so you can bandswitch more quickly.

Get your food/drink situation straightened out. And put away the beer and booze! You'll be dropping off just as the contest is heating up.

If you're operating full time, you'll want to have a sheet of paper to keep track of your on/off times. I never trust the software to tell me.

T minus one hour

Relax! Some guys get really anxious at the start of a contest. If you've done your preparation, this is the time to have a nice relaxing chat with your spouse, or catch a few minutes of college football (or whatever they call the sport that Indiana University tries to play on Saturday afternoons). No need to go into a caffeine frenzy or to hyperventilate.

Tune around just enough to get an idea of any conditions, and to peek around for any mults who might be Cqing before the beginning (like KP4 or KP2). Don't worry about starting on the wrong band. If you've done your preparation, you can bandchange quickly, right?

T minus zero

Blastoff! CU in November.

Score Collector Brian, KI0MB

Brian has volunteered to collect scores this season so we can get them all into the newsletter on time. Even if you don't post your score to the SMC Reflector, please send Brian an email with a summary of your score. Send your scores to:

ki0mb@arrl.net

SMC Shirts Available



Thanks to KI9A we now have new SMC shirts available. They're short sleeve Polo shirts, available in two styles: white shirt with "SMC" in black and "name and call" in blue lettering as shown below, or red shirt with black

lettering. The cost is \$20, including shipping. You can email your orders to

AD9P@aol.com (Al) or N0UXQ@aolcom (Sandy)

If you want something a little warmer, or just something a little different, you're in luck. They will do custom work on everything from sweatshirts, to hats, to rig covers.

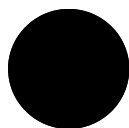
WRTC2002 U.S. Teams

Ari, OH1EH, reports:

The ten US team captains have chosen their partners. The WRTC2002 organizing committee is pleased with the enthusiasm of the U.S. contesting community and wants to thank the leading U.S. contest clubs for their support in the selection process. We are also glad to be able to state that the selections of the clubs were honored to the letter. The following 20 world class contesters will represent the U.S. in the WRTC2002 in Finland.

Teams are listed in the alphabetic order of their captains:

Ralph Bowen,	N5RZ / Rus Healy,	K2UA
Doug Brandon,	N6RT / Andy Blank,	N2NT
Daniel Craig,	N6MJ / David Mueller,	N2NL
John Dorr,	K1AR / Doug Grant,	K1DG
Bill Fisher,	W4AN / John Laney III,	K4BAI
Trey Garlough,	N5KO / James Brooks,	N1YC
Steven London,	N2IC / David Hachadorian,	K6LL
Dave Patton,	NT1N / Mark Oberman,	AG9A
Robert Shohet,	KQ2M / Daniel Handa,	W7WA
Randy Thompson,	K5ZD / Tom Frenaye,	K1KI



My Last Secret - Intimidation - Getting Serious Now

Borrowed from AA5AU, "Low Power SO2R RTTY Contesting" <http://www.geocities.com/aa5au/so2r.html>, page 6.

RTTY contesting has become very competitive in the past few years. I've always said publicly that my first objective was to compete against myself and how I fared against others in the same class (Low Power in most cases) was secondary. This was true for many years. My first and foremost objective is to have fun. But as the competition becomes stronger, I've turned my focus on winning. I will not sacrifice fun for winning. But if I'm going to go all-out, I might as well try to win something. Intimidation now becomes a factor.

I have always been a big Dale Earnhart fan. For those that are familiar with NASCAR racing in the United States know that Dale was nicknamed "The Intimidator" for his on-track strategies. During every RTTY contest, I bring in my Dale Earnhart drinking mug full of Coca Cola. It has "The Intimidator" on a metal plate glued to the side of it. It reminds me that I need to intimidate as much as possible. So how does this apply to RTTY contesting?

In close competition, intimidation can mean the difference between winning and losing. For those of you that try to win, it's an important strategy. You are probably asking "How in the heck can you intimidate in a RTTY contest when you are running Low Power?"

You can intimidate your competition in several ways. The best way is, in those contests where serial numbers are part of the exchange, to always have higher serial numbers than your competition. If you are giving out serial numbers that are always higher than your competition, then eventually, they could decide that they can never catch you and give up or relax. But don't count on that. Intimidation is a two-way street.

For the casual RTTY contester, not caring what his score is, intimidation is never a factor. But if you've read this article this far, then it means you may be serious about SO2R operating and the strategy associated with it and using it to win. So intimidation should be part of your overall strategy.

In those contests where serial numbers are exchanged, getting a good jump on the competition is extremely important. This is especially true for SO2R operators because you will come across your competition more often and can check to see how they are doing by what serial number they are giving out. So an important strategy, especially in con-

(Continued on page 5)

(Continued from page 4)

tests where progressive serial numbers are part of the exchange, is to get a good start and get your numbers up as high as possible early on in the contest.

By achieving good numbers early in the contest, you may possible "psyche out" your competition into thinking they can never catch you. But the only way to do this, is to make sure, that once you are ahead in the serial number count, is to stay ahead. This means hard work and strategies I'm not ready to reveal just yet.

So what about those contests that don't use progressive serial numbers? How do you intimidate then? In those cases, as with serial number contests, you make your presence known by being active on those bands that are the most active. If someone keeps coming across your signal and you are running a pileup, they are going to know that you are doing well. So in those contests where serial numbers are not part of the exchange, it's important to keep a presence on the bands that are open during peak times and doing well. But if you are CQ'ing with no takers for long periods of time, others are going to take notice. This occurred recently to me when a known competitor was CQ'ing but not making any contacts. I knew he wasn't going to catch me that way. It boosted my confidence.

Contest psychology is an important strategy and not one that be easily explained. There were many times early on in my RTTY contesting career that I was intimidated by other stations because they were doing so much better than me. And even recently, in the 2001 BARTG RTTY Sprint Contest, I was not so much intimidated, but rather "discouraged" that I could not catch W1ZT after giving him nearly an hour headstart. I was late starting the contest and spotted him nearly 50 contacts. During the course of the contest, I closed to within 30 contacts (serial numbers were part of the exchange), but later he took control and put the distance back to 50 contacts and I realized I could not catch him. So in a way, I psyched myself out after getting a late start. OK, I admit it, I was intimidated.

George got a good start and kept at it and intimidated me to the fact that I couldn't catch him. Great job George! Keep up the pressure at all times.

Who Are Your Competitors?

It's hard to intimidate your competitors if you don't know who they are. That's why I mentioned that intimidation can be a two-way street. In any form of contesting, it is very hard to determine who your competition is because it changes just about every contest. Only experience can

tell you who might be your competition. It's pretty easy to figure out that AA5AU is going to be operating Low Power in any contest that offers that category. But what if I decide to go High Power? You are running Low Power and you see me with a way higher serial number count and you get discouraged. You have psyched yourself out. Don't do this. Remember, having fun is the utmost importance in contesting. If you spend too much time thinking about your competition, you've defeated that purpose. You may as well give up contesting altogether. With experience you will know who your competitors are. If you don't, it's not a bad idea to think that everyone is your competitor as long as you don't let it psyche you out. Sometimes, knowing someone is ahead of you, even if it is a multi-operator station, can inspire you to do better. It should. Try very hard not to get discouraged. Even if you if don't win the World title, you can always win something else. Don't give up. You will never know how well you have done until the final results are published. NEVER GIVE UP!

Dual Monitors on Writelog

By Brian Smith, KI0MB

You spent money on Writelog and you love the features it has. You can change the fonts, resize the text and windows and tune your rig by scrolling your mouse wheel. But is that all you can do with Writelog? Can't you do some of these things with TR, CT or NA? Is there more you can do? Why of course there is.

Did you know that you can have two monitors displaying information at the same time? Do you have an AGP or PCI video card on your Windows '98 machine? Then you may have all you need. There is no need to buy an expensive dual head video card.

Why would you want to do this? Well have you ever run out of space on your desktop? Have you ever wished you could view the band map at the same time your logging screen was active? Ever wish you could watch the network gab and packet spots on one screen while logging on another? This is something you can do with two monitors.

If you would like to get dual monitors working on a PC, you need Windows 98. Check out Microsoft's list of video card chips that support dual monitors.

You need at least one card that is capable of this, because the resources normally taken by a single video card need to be "shared" across two. One card needs to "share" its

(Continued on page 6)

Revised SPRINT Results

Here are the updated team results for the February CW Sprint. The teams that were left out of the results, but re-registered last week are included. Our apologies to them for not having their scores included in the initial results....

73 Tree N6TR

TEAM SCORES

1. SCCC #1

W6EEN	17088
K6LL	16611
N6ZZ	15888
K6LA	15312
N6CW	15190
AC6T	14736
N6AA	14490
N6VR	14304
K6NA	13500
K6RO	13066

	150185

2. SMC #1

K9XD	16100
AG9A	15318
K9NW	15264
WB0O	14758
WE9V	14064
W9RE	13816
KA9FOX	13140
K9ZO	12972
WT9U	10965

	126397

11. SMC #2

WI9WI,K9MMS,K9GY,K9MOT,W9LO,WA9IRV,AE9B
..... 42328

13. SMC #3

W7UQ,K9KM,K9IG 22890

WRITELOG 2-Radio Box

Check it out at:

http://www.writelog.com/SO2R/w5XD_multikeyer.htm

Team Champions 2000 Stew Perry Challenge

Congratulations SMC on another team championship. Special Congrats to Plaque winners K9DX and WA9IRV. Check it out at:

<http://web.jzap.com/k7rat/stew00.html>

(Continued from page 5)

resources with the other card. This card needs to be the master card, the card that first comes up on cold boot.

How do you determine which card is the master? If you're using two PCI cards, the one nearest the CPU will boot first. If you're using one AGP and one PCI, the PCI will always boot first. You might have a BIOS that lets you manually determine whether an AGP or PCI video card is the master. You'll have to poke around in your BIOS to find out.

Now it's time to configure Windows for dual monitor support:

- Left-click your start menu.
- Scroll over settings and left-click the control panel.
- When the control panel opens, double-click the display properties icon.
- When the display properties dialog box appears, single-click the Settings tab.
- On the Settings tab, change the display pull-down menu to the new card you just installed.
- Now, check the box marked "Extend my Windows desktop onto this monitor."
- Hit the Apply button when you've finished making the changes.
- Presto! You now have an extended desktop that spans two monitors.

Windows '98 allows you to tell it how you have the monitors physically positioned as well. You can set the monitors side-by-side or one on top of the other. It is up to you.

KX9X/8 and NM9H/8

By Sean Kutzko, KX9X

Well, the trip to EN57 was a big success. Matt (NM9H) & I left last Thursday at 3AM (ugh). Stopped for a coffee north of Bloomington around 4:30AM and discovered that, in my sleep-deprived state, I forgot to put the coax feed to the 2m FM vertical in the car...it had been dragging down the highway since we left! the PL-259 was ground down to nothing. I'll be visiting Radio Shack really soon. Until then, you won't hear me mobile on .195 for a while.

We arrived at FJ McLain State Park in the "Youpee" around 2:30pm Eastern time. The cabin we rented was 200 feet from Lake Superior and overlooked the lake; beautiful scenery. The cabin itself was about 15'x15' or so. It had electricity, a table, a tiny refrigerator, a 2-burner hot plate, and bunk beds. It was clean, dry, and cheap; more than adequate for what we needed. We unloaded the car, threw everything into the cabin temporarily, and drove back to town for supplies and provisions. Once we got the groceries, Matt went looking for a fishing license. We were turned away by two places before we found a 7-11 that sold them. However, there was a problem since Matt was not a Michigan resident. After much waiting, the girls behind the counter got it figured out and Matt got his fishing license. Back to camp we go.

We unloaded the truck, put the food away, popped open some beers and proceeded immediately to getting the antennas up in the air. We had a 3-element Cushcraft 6m yagi that went up about 25' and an 11-element 2m beam up about 25'. Each antenna on separate masts. Thanks to proper labeling and pre-measuring of all antenna parts long in advance, the antennas were assembled very quickly. The masts were a bit troublesome, but we eventually got that figured out, too. Ran back in the cabin, got the radio gear hooked up, and we were QRV on 6 and 2 by 6pm. However, no propagation at all. We ended up eating a big dinner by the campfire and remarked how odd it was that the sun was still in the sky until 11pm. Man, we were NORTH.

Friday morning we got up late and turned on the rigs. No propagation. Putzed around camp and saw some of the local sites. Still no propagation. Drank a beer or 3 and decided to put up the long wire for HF. Matt used his fishing pole and shot the thing about 45'-50' off the ground, in some of the (many) trees we had. So, we had a 110' dipole fed with open wire at 50' or so. We were playing well on HF, too.

Friday was spent listening intently to 6m and 2m, working DX on 15m SSB and drinking. No propagation on 6m or 2m all day.

Saturday: woke up late, got on 6m and 2m. Nothing...no prop at all. We started to get worried. Double-checked the antennas and feedline; all was well. We wondered if the band would open for the contest. To kill time before the contest, we did what you're supposed to do when you're on vacation; we drank, ate, dozed a bit, and drank a lot more. The contest was going to start at 2pm Eastern. We left the 6m rig on the wheel time, but hadn't read a peep on the calling frequency. About 20 minutes before the contest started, 6m opens up to Oklahoma and north Texas! We worked several guys, and have faith the contest will go well. Matt jumps on 6m, I jump on 2m, and we wait for the contest to start

The Contest: Started off with a minor opening to TX/OK... Nothing too exciting to write home about. Hey, at least we were working guys. I kept trying 2m, but the only folks I'd worked were K9IZ, in EN67 next door.

About 90 minutes into the contest, Matt got an odd look on his face. He pulled the headphones out of the jack, and I heard a very watery, distorted signal coming out of the speaker.

AURORA!!

Immediately, we sprang out of our chairs and ran outside to point both antennas north. Matt & I changed places and he worked 2m CW while I ran stations on 6m SSB. We worked a TON of "regional" grids, including down to EN50 and EN60. We easily could have worked stations here in the K9CU area, but nobody was active at that point. Worked 27 stations on 2m, including EN18 (just south of Winnepeg) and FN13 (Syracuse, NY). Also worked as far south as EN70 (NE of Indianapolis) on the Aurora! It was a good opening. 6m Aurora grids were as far west as EN08 (north Dakota) and as far east as EN07 (WAY up in VE3-land) and as far south and EM79 (south of Indianapolis).

When the Aurora died, 2m died, too. 6m stayed open to New Mexico and Colorado. Eventually, that opening died, too. We ended up going to sleep around Midnight, as we had meteor scatter schedules to keep in the early morning. We ended up missing a 6m opening to the east coast that took place around 2AM, but such is life.

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Got up at 6:15am to make the 5 meteor scatter skeds. None of them were successful. However, 6m opened up again around 8AM to GA, MS, and LA. Again, not a big opening, but we were working guys.

Most of Sunday was totally dead. We worked a few uys to the south early in the AM, and then got a decent opening to the East coast again around 5pm or so. After 7pm, we heard nothing but signals bouncing off meteors. Matt managed a couple of QSO's that way, but they took a lot of time. Ended the contest with 194 Q's and 109 grids on 6m, 29 Q's and 24 grids on 2m.

Monday ,we got up late, went out and played golf. I took Matt for \$15. Came back to the cabin, drank a lot, ate a lot, and listened for any band openings. 6m opened up to Colorado around 6pm Eastern time. Worked a bunch of Rocy Mountain VHF Society guys (I run into them every time I go to CO in August), who spotted us in the hopes of getting a bunch of guys to work us.

I'm monitoring the 6m caling frequency when I get up from my chair to go do something. Suddenly, Matt says, "Hey! Did I just hear something about San Francisco?" Checked the band again, and sure enough, there was a station in San Fran in CM87. We had double-hop E-skip propagation to the West Coast!

Worked as many as we could, but it was still early on the west coast and folks were still at work. KB6NAN spotted us and kept calling in to let us know we were still making it out there. We were into San Fran and Los Angeles for over 2 hours, but we only worked 18 guys. It was a real happy moment for those who got in the log, but what a letdown for us. There are no active hams in EN57, and everybody who worked us from CA kept telling us how rare we were and to PLEASE stay on and keep working as many as we could. Nobody was there to work, though. The band closed to CA and popped open to CO and WY. Worked that until around 9pm or so, when the band died for good. We drank and ate and drank by the campfire.

Tuesday: No propagation at all... none... not a bit. Spent all day using the CT contest software to send CQ on CW every 10 seconds. Nobody responded. It was a long day full of beer, food, fire, and no propagation.

Wednesday: Time to pack it up. Unfortunately, it was raining all morning. We got soaked as we took down the antenna and masts. Packed it up and we were on the road by Noon. Crashed south of Rockford, got up late and madeit to town Thursday afternoon. I've been

sleeping and being a bum ever since.

One thing I failed to mention earlier is that the cabin had a notebook kept in a drawer. This notebook was a journal, full of entries by all sorts of people that had stayed in the cabin over the years, going back to 1997. Mat & I made several entries to the notebook, trying to explain why we were there and how ham radio worked. Matt even made a stab at trying to explain aurora and meteor-scatter propagation. I'm sure we came off like a couple of geeks. We left a grid square map with all the grids colored in that we talked to while up there. Who knows... maybe somebody will think it's cool and get their license out of it.

Overall, a lot of fun and a big success. We ate well, we sure as heck drank well, and we got just over 300 QSO's in the log from a very rare grid square. I've already received about 20 QSL's for our operation up there. There will be photos up as soon as Matt gets them to me. I'll let you know when those photos are up at my web site.

Matt & I have decided we're going to keep doing these VHF operations on a regular basis. The antennas are small and it's a lot of fun to get out for a while and do VHF contests. I'd encourage everybody to check it out...you'll have a good time.

CT1BOH Propagation Site

If you are getting ready for a contest. and need to check what propagation will be like He has collected the needed information from different sources into a page for quick check, available at:

<http://www.qsl.net/ct1boh/propagat.htm>

The site includes

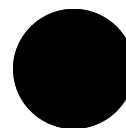
Real time Aurora graph

Real time K indices graph (NEW)

Short historical WWV numbers graph

Last and current cycle SSN numbers Graph

Comparison cycle 21,22,23 graph



K9ZO SMC Picnic 2001



WX9U's TOP 7 HIGHLIGHT PICKS:

7. Demo on a spud launcher by K9IOC. Shooting spuds 200-300" high across Rt 9 from Ralph's back yard and maybe 700-1000' out!

6. K9IOC entrepreneurial savvy! He had 5 spud guns in his trunk (and for sale) and I'm the proud owner of one now. Gonna get new Longwires up!

5. Sean, KX9X, made a special homebrew beer just for the picnic. Real nice label on the bottles and sure to become a collector's item.

4. The group photos taken were great, especially the ones shot of everyone bending over with their rear end pointed at the camera. This possibly will be sent to PVRC and NCCC.

3. Lots of war stories.

2. Lots of tower/antenna talk.

And the number 1 WX9U pick: Ralph and Connie's great hospitality as usual. Great food, FANTASTIC time. Even the 80% chance of rain didn't materialize! Not one drop from 11am to when I left around 5:30pm.

THANKS RALPH!!!!

Phil WX9U



Photos courtesy of Joe, K8JP



Host Ralph, K9ZO

Help!
I need help identifying
all the people in these
pictures. I'll republish
this once I get them

K9QQ/KH6



SMC Score Rumors

2001 FALL CW SPRINT

AG9A HP 339 47 70 150 119 15,933 SMC #1
 @K9RS
 N9RV HP 332 46 72 137 123 15,272 SMC #1
 K9NW HP 317 48 80 126 111 15,216 SMC#1
 @K9UWA
 N2NC HP 295 47 13,865 SMC
 @K9QVB
 K9XD LP 274 49 53 118 103 13,426 SMC #1
 K9PG op
 WB0O HP 290 42 65 108 117 12,180 SMC
 K0OU HP 267 44 40 131 96 11,748 SMC #1
 KG9X 258 42 75 112 71 11,094 SMC #2
 W0UY 127 37 49 75 3 4,969
 AI9X 9 7 4 5 0 63 SMC #3
 KJ9C LP 159 37 58 71 30 5,838 SMC #4
 AK9F LP 99 32 0 99 0 3,168 SMC #3
 W9LYA 51 35 15 25 11 1,785 SMC #4

SAC, CW

K9NW SOAB HP IN 215 QSOS 101 Mults 34,845
 (score to MRRC)
 KA0GGI SOAB LP MO 146 QSOS 23 Mults

DARC WAE SSB

K9NW
 BAND QSO QTC Cty Mult

 40 10 10 5 15
 20 220 220 35 70
 15 363 363 41 82
 10 39 39 14 28

 Totals 632 632 95 195 = 246,480

June VHF QSO Party

	50	144	220	432	M	
NV8V	115	105			71	15,260
K9NW	13	35			23	1,104
W9LYA	26	13		5	22	1,078
AB9BH	77	34			8	5,715
W9RM	167				67	10,000
WK9O		9			4	36
W9SZ		11	6	8	24	936
K9RN	211	146	20	51	123	61,377
KG9PF	200	83	30	54	102	46,002
(KG9PF, K9IJ, KB9LNE)						
KI0MB	56	9			34	2,210
KA0GGI		36	19		27	1,998
WO9S	80	69	20		55	10,395

N2BJ	QSO's	QSO Points	GRIDS
6M	335	335	101
2M	184	184	43
222MHz	67	134	23
432Mhz	92	184	29
903MHz	12	36	9
1296 MHz	27	81	13
2304MHZ	5	20	4
Total	722	974	222
TOTAL POINTS	216,228		

K9PW Single Op Low Power/Portable at EN52sa

	QSOs	Grids
50	464	121
144	204	51
222	56	24
432	96	30
903	13	11
1.2	24	13
2.3	6	5
3.4	4	4
5.7	5	5
10G	5	5
TOTAL	877	269

ARRL Sep VHF 01

	50	144	432	M	
W9LYA	3	4	3	7	91
K9NW	20			12	240
@K9UWA					
W9SZ	14			11	154
WB9Z	QSO's	Grids			
6m	108	42			
2m	172	50			
222	42	26			
432	58	28			
1.2	13	13			
Totals	393	159			84,588

Best DX K8GP in FM08 in 1.2 ghz.

N2BJ	QSOs	Q	PTS	MULTs
50 MHz	127	127	40	
144 MHz	189	189	49	
222 MHz	56	112	24	
432 MHz	88	176	32	
902 MHz	14	42	12	
1296 MHz	21	63	15	
2304 MHz	1	4	1	
TOTAL	496	713	173	123,349



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Jon Ogden, NA9D
905 Surey Ln.
Algonquin, IL 60102

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together today!**



The Society of Midwest Contesters

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FIRST CLASS MAIL

