



AUGUST 2002

No. 249

Newsletter of the Ben White Memorial Nets ~ founded 1938

SILENT KEY So sorry to hear of the passing of Don, K2YAI, who became a silent key in July.

(HBN Manager's Comments page 2)

HIT AND BOUNCE SLOW NET (JUNE)

MANAGER'S COMMENTS

C.M. (SAM) Shearer, WB5ZJN, Mgr.
Charles (Chuck) Punzell, N3ON, Asst. Mgr

There were twenty-six hams that checked in this June, and they generated 76 pieces of traffic. With perfect attendance was Gail, K2BCL (30). Close behind were John, VE3DTR and W3QQ (29); Bill, W2MTA and Chuck, N3ON (26); Sam, KG2HA (24); Chuck (22); Carter, N3AO and Jim, WA3DUH (21); and Don, K2YAI (20). As always, if you were able to check in only once, your participation is greatly appreciated. HBSN will not exist unless you are there. Thanks to everyone for your continued participation.

News: No news from the troops, so you'll have to put up with my stuff. I spent a week with my son in Florida. He gave me flying lessons in the mornings, and I logged about 10 ½ hours of instruction that week. In the afternoon we worked on putting his Lycoming 540 engine back together. He had the engine completely overhauled and it was his choice to put it back together. Fortunately, my son has a good friend who worked for Lycoming, and is his "coach" on the rebuild.

To facilitate the refurbishing of my Taylorcraft, I purchased a bead blasting cabinet to clean up the many small pieces on the plane. A 56-year-old aircraft has many little pieces, and most of them are rusted. What a great tool! I will also bead blast the frame.

My wife and I will be taking our annual cross-Ohio bicycle trip. This is a seven-day 350-400 mile trip. We will ride 50-70 miles a day, spend the nights in a tent, and eat as much as we want with no guilt! "You eat to ride and ride to eat." 73, Sam

HBSN MANAGER'S COMMENTS JULY

Twenty-eight staunch hams checked in this July, and they generated 99 pieces of traffic. With perfect

attendance was Bill, W2MTA. Near perfect attendance were John, VE3DTR and Cid, W3QQ (30). Close behind were Chuck, N3ON (26); Sam, KG2HA, Harry, N3AO, Chuck, KX8B, Ad, NR9K (24); and Jim, WA3DUH (22). As always, if you were able to check in only once, your participation is greatly appreciated. HBSN would not exist without your participation. Thanks to everyone for your continued support.

News: We welcome back Mike, WD8DHC. Mike has been in the process of moving, and we all know what a traumatic experience that can be. He now has his rig back up and will be resuming his Friday NCS position in August.

I think we should all give a big ARF ARF to Sam, KG2HA, who has been filling in for Mike while he was moving. Sam, we appreciate your fine work as NCS, and we expect to hear more from you in that position in the future.

Gail, K2BCL, will be starting operational procedures for the removal of cataracts on August 7. We wish him well and look forward to his speedy and complete recovery. Aren't we fortunate to live in a time when such operations are possible? There were times when Gail's condition would have eventually lead to blindness.

As mentioned in last month's "Comments," my wife and I went on our annual bicycle trek across Ohio. The total distance of this year's circuitous route was 448 miles. We rode between 60-70 miles a day, with one "short" day of 53 miles. We experienced 20+ MPH head winds; "hottest-day-of-the-year" temperatures; boring northwest Ohio flat lands – mile after mile of corn on the right, soybeans on the left; two days of rain (You asked, "What do you do when it rains?" "Well, you get wet!" But it is nice to know that when the rain starts squishing through your toes, you can't get any wetter.); and the awesome beautiful country and grueling hills of southern Ohio. Was it enjoyable? Yes. Will we do it again? Yes, most definitely. So, why do we subject ourselves to such punishment? Well, it is a lot like the feeling a mountain climber gets when he or she reaches the summit. It is extremely exhilarating to know that you did it. If you've ever been faced with a

challenge, met that challenge, and experienced the gratifying sense of accomplishment, you'll understand. Plus for one week you have the pleasure of eating as much as you want (without gaining any weight) and the

well-deserved bragging rights when you get home! 73, Sam, WB5ZJN

HIT AND BOUNCE SLOW NET JUNE REPORT

C.M. (SAM) SHEARER, WB5ZJN, MANAGER

CHARLES (CHUCK) PUNZELL, N3ON, ASST. MANAGER

QNI 339 QTC 76 SESSIONS 30

<u>CALL</u>	<u>NAME</u>	<u>ST</u>	<u>QNI</u>
NG1A	FRED	MA	7
W1KX	BILL	ME	3
W1PID			1
K2BCL	GAIL	NY	30
K2GCE	BILL	NY	1
KG2HA	SAM	NY	24
W2MTA	BILL	NY	26
K2YAI	DON	NY	20
N3AO	CARTER	PA	21
N3COR	DON	WPA	8
N3DE	HARRY	MD	8
VE3DTR	JOHN	ON	29
WA3DUH	JIM	DE	21
KK3F	PAT	MD	2
W3JKX	EARLE	EPA	12
WA3JXW	DUDLEY	EPA	11
N3ON	CHUCK	WPA	26
W3QQ	CID	DE	29
K3RC	BOB	OH	1
WA3YLO	TONY	MD	1
WA4DOX	OBIE	VA	2
W4VLL	VIC	VA	5
WB5ZJN	SAM	OH	17
KX8B	CHUCK	OH	22
K8KV	BEN	FL	1
NR9K	AD	EPA	11

HBSN JULY REPORT

QNI 349 QTC 99 SESSIONS 31

<u>CALL</u>	<u>NAME</u>	<u>ST</u>	<u>QNI</u>
NG1A	FRED	MA	8
W1KX	BILL	ME	6
K2BCL	GAIL	NY	16
KG2HA	SAM	NY	24
W2MTA	BILL	NY	31
K2VX	DAVE	NJ	1
K2YAI	DON	NY	1
N3AO	CARTER	PA	24
N3COR	DON	WPA	10
N3DE	HARRY	MD	5
VE3DTR	JOHN	ON	30
WA3DUH	JIM	DE	22
KK3F	PAT	MD	3
W3JKX	EARLE	EPA	14
WA3JXW	DUDLEY	EPA	12
N3ON	CHUCK	WPA	26
W3QQ	CID	DE	30
K3RC	BOB	OH	2
WA3YLO	TONY	MD	5
WA4DOX	OBIE	VA	1
W4VFJ	CHUCK	NC	1
W4VLL	VIC	VA	8
WB5ZJN	SAM	OH	17
KX8B	CHUCK	OH	24
WD8DHC	MIKE	WV	2
K8KV	BEN	FL	1
KA8WNO	JACK	WV	1
NR9K	AD	EPA	24

HIT AND BOUNCE NET MANAGER'S COMMENTS

Fifty-three stations contributed to our July tally of 607 QNI, 415 QTC, clearing 377. Average time 37 minutes per session. The going got rough some days, but with all the arfers pitching in and helping with relays, etc., we made it through another month with good results.

QNI QTC

Top Dawgs listing 10 or more:

KA8WNO	JACK	WV	26	102
W8RTN	LEE	MI	15	54
NG1A	FRED	MA	12	50
K8LJG	JOHN	MI	17	46
N3QA	CAL	MD	8	23
W2MTA	BILL	NY	30	20
WD8DIN	SIS	NC	28	17
K2BCL	GAIL	PA	15	13
K8KV	BEN	MI	24	10
KA5NNG	MIKE	AR	20	10
N4ABM	OLE	VA	14	10

News: Hopefully, Gail **K2BCL** will be back at the key and checking in by the time you get this newsletter. (Details in Sam's HBSN July comments).

I'm pleased to announce that Mike, **WD8DHC** now has his antenna up and working from his new QTH in Ravenswood, WV. His new address is 507 Wells St. Zip 26164.

David, **K2VX** has relocated to **Reston, VA**. He now resides at 11561 Rolling Green Ct., Unit 101, Zip 20191-2241.

It was good to have **AB4E** QNI (Sunday Aug 4). I know he was there, but I didn't hear him. Hi.

Welcome back to Dave **KC1DI**, Andy **N9KHD**, and Van **W1WCF**. Thanks to our newer members who are becoming regular check-ins- Tom **WW8D**, Woody **WD9F**, Joe **VE3ABG**, Jere **K4FUM**, and Will **K4IWW**. We are happy to have you on HBN.

HBN Mgr, cont.

A reminder to all NCS and subs- I (WD8DIN) am unable to QSP NC and SC traffic unless the message has a phone number, in which case I can deliver it by telephone to any city in NC. Others should be routed via **K4IWW** or **W4VFJ**. The last time I tried to QNI the Carolinas Net on 8ØM using the 4ØM loop, I didn't make it. I hope to correct this situation after I return from vacation. **Please hold your net reports until August 26.**

Thanks to all who were there in July. You're much appreciated.

My apologies for the poor quality of the picture (July issue) of Jere, K4FUM. It looks fine on the original copy. Looks like the copy machine needed toner.

Have a safe and happy August and keep cool.
73, ARF -Sis

**Treasurer's Report
N4ABM Ole, Treasurer**

Balance July 15/02 20.35

Jul 22/02	WA4SRD	10
Jul 29/02	AA4AT	20
Aug 4/02	WB4FDT	20

Balance July 29/02 70.35

When making contributions, please make checks payable to:

Merritt W. Olson, 12106 Stirrup Rd., Reston, VA 20191-2104.

Checks are preferred for purposes of record keeping.

Do not send contributions to the editor.

We are most grateful for your donations.

SERVICE MESSAGES

I want to point out a procedure that in most cases mainly hams new to the hobby especially traffic handling. The procedure for servicing a message back to the originating station. Many experienced traffic handlers still use the correct procedure when servicing a message back. I have noticed this for several years how ARL Sixty Seven is being used. This in my case pertains to traffic i have sent out to visitors whom visit my Church for the Sunday AM services. I recently sent two messages to Houston knowing for sure that one of the phone numbers is correct. I received a service message that both of them were undeliverable due to both phone numbers being incorrect. ARL Sixty Seven contains blank spaces for including Addressee Name,

Address, City, State, Zip Code, and phone number. By including this information in a service message not only lets the sender know his message(s) undeliverable, but also confirms whether name, address, and phone number were copied correct. It would really help if stations receiving traffic would confirm that they had received a message correctly. A few years ago i sent a message via CAN cycle 2 addressed to Cedar City Utah with a phone number. I received a service message that addressee not located in Salt Lake City. I took his same message to Cycle 4, and it was successfully sent, and delivered. Accuracy in traffic handling is very important. This becomes more important if a message pertains to an Emergency, or Priority situation. So make every effort to be sure of accuracy in receiving messages for relay, or delivery.

73, Joe **K5UPN**

**Happenings at ARRL
LINE SCORES MOVING FROM QST TO WEB**

-Obie WA4DOX

In case you haven't already heard it from another source, here is the latest lament from the ARRL: -----
Original Message ----- Subject: ARLB046 "Section News," Date: Tue, 23 Jul 2002 13:01:11 -0400....

" Line Scores Moving from QST to Web Starting next January, "Section News" and contest line score results will appear on the ARRL Web site rather than in QST.

Meeting July 19-20 in Windsor, Connecticut, the ARRL Board of Directors voted 9-6 to approve a resolution formally relocating "Section News" to the ARRL Web site. "Section News" has appeared in the League's official journal at least since 1919. The "Section News" Web sites--already in place--will provide the officials of each ARRL section "the capability of an up-to-date information resource that can be tailored to the needs of their section," the resolution said.

The space freed up by relocating "Section News" will allow more in-depth coverage of general news, public service activities and "how-to" articles aimed at involving more amateurs in emergency preparedness. Members unable to use the Web can request their section's reports in hard-copy format. The Board resolution noted that the past six months had given members the opportunity to understand the reasons for relocating "Section News," to discuss alternatives and to better understand and see the advantages of the expanded content available on the Web site.

Voting for the change were Directors Dick Isely, W9GIG (Central); Jay Bellows, KØQB (Dakota); Frank Fallon, N2FF (Hudson); Wade Walstrom, WØEJ

(Midwest); Tom Frenaye, K1KI (New England); Dennis Bodson, W4PWF (Roanoke); Walt Stinson, WØCP (Rocky Mountain); Art Goddard, W6XD (Southwestern); and Coy Day, N5OK (West Gulf).

Directors Bernie Fuller, N3EFN (Atlantic); Rick Roderick, K5UR (Delta); George Race, WB8BGY (Great Lakes); Greg Milnes, W7OZ (Northwestern); Jim Maxwell, W6CF (Pacific); and Frank Butler, W4RH (Southeastern), voted against the change.

In a separate resolution approved by voice vote, the Board agreed that the ARRL Web site now provides a better medium to report the results of ARRL-sponsored contests, and line scores no longer will appear in QST. The change does not affect ARRL Field Day results, which will continue to be published in the magazine. A Web site established earlier this year now includes, among other features, a searchable database of contest line scores for members and the ability to easily analyze individual and club scores. There's also an on-line Soapbox to post comments and photos immediately after a contest, as well as an expanded narrative for each event. The ARRL also now offers members the free Contest Rate Sheet newsletter, which focuses specifically on contesting.

MORE COSPONSORS SIGN ABOARD CC&R BILL, HR 4720

Bulletin 48 ARLB048 From ARRL Headquarters
Newington CT August 2, 2002(from W1AW
mailing list) - WD8DIN

Additional cosponsors have signed aboard HR 4720, the bill in Congress aimed at providing relief to amateurs faced with private deed covenants, conditions and restrictions--CC&Rs--in erecting antennas. The list of 18 members of Congress who have agreed to cosponsor the measure includes two amateurs. They are Oregon Republican Greg Walden, WB7OCE--one of the two original cosponsors of HR 4720 with Texas Republican Pete Sessions--and Arkansas Democrat Mike Ross, WD5DVR. Walden and Ross are believed to be the only Amateur Radio licensees in the US House of Representatives. New York Democrat Steve Israel introduced HR 4720--the "Amateur Radio Emergency Communications Consistency Act"--on May 14. The measure would require private land-use regulators--such as homeowners' associations--to "reasonably accommodate" Amateur Radio communication consistent with the PRB-1 limited federal preemption. PRB-1 now applies only to states and municipalities.

In addition to Walden, Sessions and Ross, the list of HR 4720 cosponsors now includes Representatives JD Hayworth (R-AZ), Patrick Tiberi (R-OH), Patsy Mink (D-HI), Ken Calvert (R-CA), Rick Boucher (D-VA), Joseph Hoeffel (D-PA), John Duncan Jr (R-TN), Dennis Moore (D-KS), Charles Stenholm (D-TX), David Price (D-NC), Bob Schaffer (R-CO), Sherrod Brown (D-OH), Bart Gordon (D-TN), Charles Taylor (R-NC), and Ralph Hall (D-TX).

Visit the US House of Representatives Write Your Representative Service Web site at <http://www.house.gov/writerep/> for information on how to contact your representative.

The ARRL requests those writing or e-mailing members of Congress--whether or not they are supporting this legislation--to copy ARRL on their correspondence--via e-mail to ccr-bill@arrrl.org or via US Mail to CC&R Bill, ARRL, 225 Main St, Newington, CT 06111.

Correspondents should include the bill number, HR 4720, as well as their name and address on all correspondence.

ACCEPTABLE USE OF ACRONYMS AND PUNCTUATION IN ARRL RADIOGRAMS -WA4DOX

In routine messages, the author doesn't need to try very hard to create a Radiogram that is completely understandable, unambiguous and concise. At other times, such as distress conditions and emergencies, the author needs to try VERY HARD to create a Radiogram that is all of the above. Most Radiograms created under these conditions are technical in nature and often contain special wordings, strategic phrases, etc., that must be clearly understood by the stations who are the intended recipients. Along the way, these Radiograms may be relayed by stations that have no interest in the distress condition or the emergency. The author of the Radiogram must keep in mind that the stations that are relaying these Radiograms must also send what they receive.

But this is not a perfect world, and traffic handlers are not perfect people, thus acronyms which are not well known or easily deciphered, can throw the recipient for a loop, should one letter be confused by the relay station and be sent on "as received", whether the error was on the part of the sending station or on the part of the receiving station. As long as the group doing the originating, relaying and delivering of tactical messages related to an emergency or distress condition are all made up of the same group, i.e. all RACES operators who know the RACES manual front-to-back,

then acronyms are the easiest and most efficient means to "get the word out". Should these messages have to pass through another group, i.e. ARES, NTS, TCC, who aren't privy to the fine points of RACES organization or operation, then the acronyms should be replaced by words, i.e. SPELLED OUT, such that even a letter error here or there will not obscure the meaning of the message to the recipient. "VDEM" should be "VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT", etc. Yes, this contributes to wordiness, but wordiness is preferable to not being able to make sense of a high-precedence message that may contain error-laden acronyms. Traffic handlers get higher scores copying real words and lower scores copying cryptic acronyms. Keep that in mind.

Regarding punctuation. The slash "/" is widely used in the addressee portion of many Radiograms where the addressees are Mr. and Mrs. It is widely accepted that "M/M" is suitable for "MR AND MRS". Another acceptable use of the slash in the addressee is "In Care Of" and is sent as "C/O". In Net Reports, and related administrative Radiograms, the slash is used to denote functions, traffic counts, net durations and so on, such that their meaning is clearly understood by the recipient. An example is shown below:

257 R WB4UHC 20 SEAFORD VA MAY 31
WA4DOX VNL SAT MAY 25
QNI 7 QTC 3/2 QND 13/18 QNS WB4UHC/NCS
AA4AT/4RN KG4OTL/VLN K3SS K4IX N3FDR
WB4FDT X 73 JOHN

Any punctuation symbol can be used in a Radiogram if it is SPELLED OUT. In a tactical message, where a distinct passage must be relayed to a recipient EXACTLY as it was encountered, the use of punctuation may be a MUST and not a MAYBE. The following text is an example: The victim, whose name was withheld, said, "it was not my fault." In a radiogram, this would be re-worded to: THE VICTIM COMMA WHOSE NAME WAS WITHHELD COMMA SAID COMMA QUOTE IT WAS NOT MY FAULT PERIOD UNQUOTE The recipient would receive this passage exactly as the author had encountered it. In place of UNQUOTE, ENDQUOTE may also be used. In the same manner, PARENTHESIS, OPEN PARENTHESIS, CLOSED PARENTHESIS, COLON, SEMICOLON, DASH, UNDERLINE or UNDERSCORE, APOSTROPHE, AT, AMPERSAND, EXCLAMATION, ASTERISK, CARET, TILDE, BACKSLASH, CURLY BRACE, BRACKET - whatever punctuation you wish to use has a name, PLUS, MINUS, EQUALS, whatever you use, just substitute the word and it is perfectly acceptable to put into a radiogram. Sure, it may seem cumbersome, but just try to do this on CW:

<http://home.usit.net/~pob/wa4dox/index.html> In a Radiogram it is simple and clearly understood:

HTTP COLON SLASH SLASH HOME DOT
USIT DOT NET SLASH TILDE POB SLASH
WA4DOX SLASH INDEX DOT HTML Similarly:
<http://fbox.vt.edu/P/pob/vn> HTTP COLON SLASH
SLASH FBOX DOT VT DOT EDU SLASH CAPITAL
LETTER P SLASH POB SLASH VN

Note that all letters are assumed to be lower case and the only capital letter is clearly SPELLED OUT. While the question mark is not used, the word "QUERY" denotes a question being asked: ARL FIFTY WE ENJOYED YOUR VISIT X WHEN DO YOU THINK YOU CAN RETURN QUERY X LOVE Obviously, from the text itself, a question is being asked, but not all such questions are obvious to detect, so "QUERY" eliminates the doubt. Note the use of "X", the separator, which is usually substituted for a period.



A SHORT COURSE IN ELECTRICITY FOR MECHANICAL ENGINEERS

Submitted by KA5NNG

1. Most electricity is manufactured in power stations, where it is fed into wires that are then wound around large drums.
2. Some electricity, however, does not need to go along wires: that used in lightning, for example, and in portable radios. This kind of electricity is not generated, but is just lying about in the air, loose.
3. Electricity makes a low, humming noise. This noise may be pitched at different levels for use in doorbells, telephones and electric organs.

4. Electricity has to be grounded. That is to say, it has to be connected to the ground before it can function, except in the case of airplanes, which have separate arrangements.

5. Although electricity does not leak out of an empty light socket, that light socket is nevertheless live if you happen to shove your finger in it when the switch is on. So, if it is not leaking, what is it doing?

6. Electricity is made up of two ingredients, negative and positive. One ingredient travels along a wire covered with black plastic, the other in a wire covered with white plastic. When these two wires meet in what we call a plug, the different ingredients are mixed together to form electricity.

7. Electricity may be stored in batteries. Big batteries do not necessarily hold more electricity than small batteries. In big batteries, the electricity is just shoveled in, while in small batteries (transistors) it is packed flat.

Incurious people are content to take all this for granted. They press a switch and the light comes on--and that is all they know about the miracle in their homes. This has never been enough for me. I have to know how things work; and if I cannot find out from some technical handbook, then I combine such information as I already have with simple logic. Thus it is easy to deduce that the light switch controls a small clamp or vise that grips the wire very hard, so that the electricity cannot get through. When the switch is flicked on, the vise is relaxed and the electricity travels to the light bulb where a bit of wire, called the element is left bare. Here, for the first time, we can actually SEE the electricity, in the form of spark. This spark is enlarged many hundreds of times by the curved bulb, which is made of magnifying glass.

- Authored by British novelist/writer Keith Waterhouse.

Note of Thanks....

I was very honored and pleased to receive the W4SUS award and wished to thank the nominating committee for considering me.

I have enjoyed HBN for many years (close to 20 I think) and well remember working with such good ops as Larry. I have been using the paddle exclusively and enjoying it.

Marcia, KW1U

The Missing Q signals

Some Q signals have never made it to the ARRL's official list. Here are some that many agree would be useful in appropriate situations. As with regular Q signals, each can be a statement or a question, depending on whether a question mark follows it.

QBA - My antenna is BIG!

QBA? - How big is your antenna?

QBO - Don't sit next to that guy in the meeting.

QBO? - Buddy, can you spare some soap?

QCW - I am going to whistle Morse Code on FM (or SSB)

QCW? - Why are you whistling Morse?

QDR - Darn Right the frequency is busy! (In response to QRL)

QDR? - Do you have a Receiver? (In response to QRL)

QFH - This frequency is MINE! - go elsewhere.

QFH? - Is this frequency hogged?

QLF - I am sending with my left foot.

QLF? - Are you sending with your left foot?

QOK - Your last transmission was OKie Dokie.

QOK? - Was my last transmission OK?

QRC - Warning, rag chewer on frequency.

QRC? - Are you a rag chewer?

QWC? - Who cares?

QWC - I don't care

QZZ - I fell asleep at the mike.

QZZ? - Is that a 60Hz hum, or are you snoring?

Some interesting predictions from "200 Meters & Down", [c. 1936, p 180 et seq.]:

"Whither Amateur Radio"

"It would be idle to speculate on technical progress in specific terms beyond the immediate present. The most immediate "revolutionary" change on the horizon of radio communication is probably single-side-band transmission and reception.....Such a system is inevitable, and its use will arise in the very near future.....Beyond question, the general adoption of these methods will be the next important change in the art."

"What will they [amateurs] discover in the future? I cannot say, precisely; no one can.....Many writers prophesy that one day you will be able to see what is going on anywhere in the world at any moment. They say, too, that one day you will be able to converse, instantaneously, with any person anywhere on earth, be he on a street corner in Marseilles...on an air freighter hovering above Vladivostok...[etc.]

".....Experience with the importance of this characteristic [record communication] lends validity to the statement that eventually automatic record communication will become commonplace, representing a convenient and satisfactory replacement of the telegraph code." **-KA5NNG.**

EXCERPT FROM "ORIGIN OF PROSIGNS" (arri web)

"In sending formal messages by CW, the first thing a beginner hears is "don't send punctuation. Separate the parts of the address from each other with the prosign AA." This is ironic, because in the American Morse Code the sound didahdidah is a comma and was doubtless the origin of our prosign. Originally, a correctly addressed letter was punctuated with commas following the name and the street address, each of which was (and still is) on a separate line although the commas have been dropped, even in mail addresses on letters. The comma was transmitted by Morse operators and thus, AA came to mean that the receiving operator should "drop down one line" when sent after each part of the address and it is so defined in the operating manuals of the time".

TRAFFIC CALL -WWW - Back issues of TC on the web (January through April 2002) are accessible again. However, that site is under new ownership. It has relocated and has been "in the process" for about six weeks. The web pages are up, but the Site Manager is not.

Hopefully all will be back in full operation by the end of August, and I shall replace January 2002 with the May issue (on the hitandbounce site) when I return from vacation, and if need be, will find a new server and add the latest issues.

HBN Monthly Total July:

DATE	QNI	QTC	QSP	TIME
1	18	5	5	28
2	19	8	6	37
3	12	12	11	26
4	23	8	8	33
5	18	9	9	39
6	18	9	9	23
7	18	18	18	27
8	19	5	4	23
9	21	16	16	33
10	19	22	16	45
11	18	1	1	24
12	22	30	30	79
13	24	23	23	34
14	20	16	14	31
15	21	8	8	29
16	19	18	15	33
17	22	17	16	50
18	21	9	8	41
19	19	15	15	53
20	29	22	19	60
21	9	11	8	32
22	19	13	13	39
23	21	9	7	35
24	21	24	24	44
25	22	12	12	41
26	18	3	3	28
27	21	27	21	51
28	13	15	8	30
29	19	9	9	31
30	22	10	10	35
31	22	11	11	35

HBN QNL JULY

CALL NAME STATE QNI QTC

NG1A	FRED	MA	12	50
KC1DI	DAVE	ME	1	
W1KX	BILL	ME	8	
KWIU	MARCIA	MA	19	5
W1WCG	VAN	CT	1	1
K2BCL	GAIL	PA	15	13
WA2CUW	TOM	NJ	7	
W2EAG	MARK	MA	3	1
W2MTA	BILL	NY	30	20
K2VX	DAVID	VA	3	
VE3ABG	JOE	ON	5	
N3AO	CARTER	PA	2	1
N3DE	HARRY	MD	8	
KJ3E	AL	MD	4	1
KK3F	PAT	MD	26	9
N3FDR	RICHARD	VA	1	
W3JKX	EARL	PA	20	
WA3JXW	DUDLEY	PA	4	1
K3MIY	RON	PA	7	
K3NNI	JOHN	MD	1	1
N3QA	CAL	MD	8	23
K3RC	BOB	OH	19	
WA3UNX	DON	PA	14	9
WA3YLO	TONY	MD	2	3
N4ABM	OLE	VA	14	10
AA4AT	ART	VA	15	4
WA4DOX	OBIE	VA	4	5
K4FUM	JERE	GA	26	
WX4H	MORT	FL	30	6
K4IWW	WILL	NC	19	1
AF4QZ	ADAM	SC	1	
W4VFJ	CHAS	NC	2	
W4VLL	VIC	VA	11	3
KA5NNG	MIKE	AR	20	10
K5UPN	JOE	TX	10	
KB5W	JIM	MS	1	
KX8B	CHUCK	OH	19	1
WW8D	TOM	WV	4	
WD8DHC	MIKE	WV	2	
WD8DIN	SIS	NC	28	17
WB8KPE	DON	PA	3	
K8KV	BEN	MI	24	10
K8LJG	JOHN	MI	17	46
AA8PI	DON	MI	24	5
W8RTN	LEE	MI	15	54
WB8SIW	JIM	MI	2	
KA8VWE	WALLY	OH	15	3
KA8WNO	JACK	WV	26	102
WD9F	WOODY	IL	6	
KB9IOT	DAVID	WI	7	
N9KHD	ANDY	WI	2	
K9PUI	DICK	IN	8	
WØGRW	GEB	MN	26	

HBSN 3714 KHz 7:30 AM ET Daily		
Sunday	VE3DTR	John
Monday	W2MTA	Bill
Tuesday	NR9K	Ad
Wednesday	WB5ZJN	Sam
Thursday	N3ON	Chuck
Friday	WD8DHC	Mike
Saturday	N3COR	Don

HBN 7042 KHz 8:30 AM ET Daily		
Use alt 7114 KHz on contest days		
Sunday	W2MTA	Bill
Monday	KA8WNO	Jack
Tuesday	WA3UNX	Don
Wednesday	N4ABM	Ole
Thursday	K3MIY	Ron
Friday	WD8DIN	Sis
Saturday	WA4DOX	Obie

[I got it right this time. Hi.]



TRAFFIC CALL

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