"DX NEWS gets better looking every issue! It's great for active DX'ers and those of us who keep up a keen interest in what others are doing DX-wise. Long live the NRC!" (John Daller, N.Y.)

IN THIS ISSUE:
The BCB DXer's Beverage - Gordon Nelson
DX'ing from Florida - Ron F. Schatz
Verification Signers - Ernie Cooper

MORE NEW NRC MEMBERS!
*Rick Matthew, 2972 W. 2nd Ave., Vancouver, Canada.
*Larry Southend, 6900 Juniper Avenue, Riverside, Ca. 92506

Welcome to the NRC, gentlemen, your new member kits are already in the mail and you should be receiving them shortly. We look forward to reading your contributions often!

RENEWALS...
Brauner... Prather... Smedley... Mehan... Vitti... F. Johnson... Feidt... Daller... Martens... Ryden...

PUBLISHING SCHEDULE...
Copy for the next issue, Number 8, should be here in Watertown on or before 11/14 in keeping with our regular scheduled sequence. The next week is a skip for the Thanksgiving holidays; copy deadline for number 9 is 11/28.

PRINTING QUALITY...
After a discouraging start, the printing quality of DX NEWS has continued to improve under our new contract to the point where we're now producing some of the best issues ever. More improvements are to be forthcoming...
The local U.P.S. strike is now finally over and the P.O., says that the NRC Logs clogged up in South Postal will probably be arriving "fairly soon" (where have we heard that before?). According to our records, all of our members who reported to HQ that their Logs had not arrived have been sent instructions on how to go about obtaining a replacement copy. To date we've sent out about 35 replacements and they've all gone through without delay. When the original does arrive, PLEASE send it back and drop us a note telling us when it arrived (and the postmark date, if legible). We are now getting very low on Logs what with three dozen off on a world tour - if you haven't ordered one yet you may well miss out. We are holding off the final decision about a second printing until we get the NRC Latin American Log out of the way...

**Publication Committee Credits...**

Recent attendees at HQ publication sessions have been: Marc DeLorenzo, Tom Holmes, Randy Kane, Mark Katz, Bob Karchevski, Ruth Nelson, Big George Kelley, Chuck and Jackie Rossier. **Thanks also to non-NRCers** Keith McClelland and Don Hughes for helping out with publication. and to Russ Edmunds and Steve Bohac who missed publication but still pitched in.

According to our records, all of the people whose efforts make the NRC and DX News possible every week!

SPECIALS

Fri. Nov. 27 WCRV 1580 Washington, New Jersey 11,000w. 12:01 - 12:30am. This TEST, an NRCA/IREA dual TEST, will feature a tape prepared by NRCAER Dan Meyers of Toledo. It includes Marches, cycle tones, IDs, plus code words yet to be determined. Send your reports to Mr. William Getzenauer, Chief Engineer, Radio Station WCRV, Route 33N, Washington, New Jersey. Of course WCRV is non-directional and should get out well in the East and West zone. Be sure to tune for this TEST and if you don't hear it, please don't forget that little nicety, a thank-you card to Mr. Getzenauer. Info from Dan Meyers.

Mon. Dec. 21 WZS 1430 Hemet, North Carolina 250w. 2:30 - 3:30am. WJAG-780's TEST LAST JANUARY WAS A SUCCESS! Another great dx catch for 53 listeners in 25 states and four provinces (33 East of Norfolk and 20 West of Norfolk, Neb.). Five reports from California, four from both Ohio & Missouri. Richard Wood was the fortunate, while in Hawaii, WJAG thanks those who phoned during the 22 hour ITM TEST and sent tapes. WJAG was asked to withhold testing till 3300am, but didn't. I got a v/q for asking them to stay silent! There was interference also from YV00, Ecu Del Torbes, in San Cristobal, Venezuela. --Ernie Wesołowski: Omaha, Nebraska.

HEARD SINCE LAST ISSUE

1000 KOTD Plattsburgh, Nebraska 1590 KUUU Ex-KHSB
Ernie Wesołowski says KOTD-1000 opened E5 on 10/26 with only 250w, directional, protecting only KB8E, Sioux Falls. Programming begins at Sunrise o/w and polka music. Address is "Broadcast Hill", Plattsburg, Neb. 69068.

Ernie also adds, "WATER WANTED for KW9-880, Lexington, Nebraska." Those who have a vee for KW9-880 are lucky. They were testing last Fall with 50kw, with four towers located six miles N of Holdrege, Neb. Money fell short, the 50w was reassessed. No plans to continue. They want to sell out for 750 on the dollar. It's a class 1-B station.

Dave Copeland phones that he has just received a fine v/q in SS from XEED-1560 for their TEST of 10/5/70! Congrats, Dave - nice catch!

Ernest H. Cooper - 438 East 21 Street - Brooklyn, New York - 11226

Varies in from WIKX-1350 and WIKX-1560, both nice friendly v/ls. WILX will dedicate a half-hour of their E5 to NRCA soon - watch this page for details. Only DX morning was 1112, and started v/someone on 1590 TTI-ing up & down the scale 225-435 & un, no IDs noted. KAY was still on 225 w/religion. W/TNP-610 was an SC & WDAF, first time heard here in about 25 years! HIKO-850, at the Caracol net, was way off all. R. Rambus-570 was on 994, but seemed to have just s/on - great signal, an IPC (Lead-Pipe Cisck). But even louder on 560, & really rocking W/TIL was BBS, giving those call letters after each selection, and using Caribbean-style EE & a most corny show, with selection dedications to kids etc. "From Your Mummy & Daddy" etc. When I heard from your Mummy, I thought it was Egypt. hl- SS chasers, the season is on again! Try these frequencies IDs & even other IDs 570-860-900-990-1030 - and others - for early SS s/on, mostly in Venezuela. BBS-560 comes on around 345 & is on a time 1/2 hours ahead of EST. In Georgetown, Guyana I sent them a report last March, but at a reply, so I think I'll try again - they carry lots of short commercials at the above time. They're easy, v/w/TIML on all-talk & other AMs off. On 550, Radio Horizons in Borota comes on awfully early - they were already on at 1-4 a.m. & they are on EST. Let me remind you to NRCA & to add "Carrier Route 23" to your address, and to address me by the full name, instead of any nicknames. C U 7.
MUSINGS of the Members

Ernest R Cooper
457 East 2nd Brooklyn, N.Y. 11226

Evidently other people used the same copper-covered wire from its NS to the home's power line, to feed the TV antenna mast, toward the SW, then NW to the West side of the house, down its side, in the window & attached it directly to the A-2 post on the 1949-11 tube Hallicrafters SX-43. The A-2 and ground posts are linked with a wire, & the ground wire is attached to outside water pipe. Bill Jack mentioned somehow I had a stupid loop stick, so I purchased one. I attached it to the A-2 & ground posts, but it had no effect. Maybe the wrong attachment? anyone had experience with them? Along with everyone Out West, KCLR-780 was heard frequently during their tests; NS has commenced, & now, so they were off at 22:05, to return at 8 PM 10/19. JS has been a good listening post overall. JS 96.1, little Rock, testing heard from 5:34 to 3:50 their time. Verified on the back of my report. KRRN-1440, Amarillo, & KDOT, Scottsdale, were reported for 20/10 reception. KEPIX Tepeska, also was heard briefly. The KSWN-1250 came in well, after local KPHO-820 went off. KPHO-960 Tune requested calls at 2:59 their time SM 12/25; NS. The Domestic Log, sent around the Horn on Admiral's place, was heard off, & 10/25. I also sent Air Mail Postage for the L.A. Log out when I entered the Drake Contest; a fairly good start. Best wishes to all.

R. F. SCHEZT - 510 N.E. 158 Street - North Miami Beach, Florida - 33162

Greetings & Sanitations! No, I'm not on furlough; I'm out.
"Veteran" is the term. Well, it's been a long time, so some words of introduction: 6'7" tall, slender, latter 20s, ugly, unpopular, lousy DX'er. I'm originally from Philadelphia & South Jersey, but I've been a resident of Florida since '59, not including three years in Vallejo & San Diego, of course. Other interests include linguistics, science, chemistry, electronics, photography, the NTS list is not all-inclusive. My location is just South of the Dade-Broward county line & two miles South of the Miami TV antenna farm. Ute is the name of my 'bit of unincorporated county, but the city of N.M.B. handles the mail. Equipment includes a Lafayette RX-30, with a recently-added mechanical filter, a four-speed tour-tractor stereo TV, & a spiral loop as tall as I can make it for the contest. I limit my DX to domestic: L.A., etc., but I'm interested in valuable DXing, like KNOX, etc. You hear one, you hear 'em all. The KPS Ogan list is already badly outdated & no longer "deadly accurate". Please bear with us while we get the Ninth Edition ready; it is still several months away, thanks to the IDA's juggling of stations down there. A note on mechanical filters; the MPS supplied by the NRC are simple to install, but many are having problems with them because of a lack of clear instructions in print and strange circuit alterations, practical in theory, designed by ham engineers. Some tips on installation: 1) Add no resistance to the plate voltage line, or you'll deny the tube its full intended voltage swing & thus attenuate the signal something bad. In fact, go ahead & send all 200 volts or so through the prim of the filter, & that's the current for the filter, & the output filtering is guaranteed safe. 2) Stay clear of standard alterations. An alteration with like-value components will work fine for one RX but not for the next. 3) If possible, try a replacement of the first IF can. The results are rewarding in most cases. Well, barring the unforeseeable, Florida will definitely bid for the '72 Convention if I can make it back to San Francisco to place the bid in person, I'll do so. Local phone here is A.C. 305-945-4912, call any time, day or night. TS.

DO BECKETT - Box 134 - Crown Point, Indiana - 46307

Hi. Some really good DX was being heard here on SSS & otherwise, so here goes. 10/17 - WSVL-1520 @ 5 05M EST s/SS on SSS. 10/18 - KSWP-990 @ 2:25 end of r/c w/ per IRCA list, KJXX-950 @ 6:20 s/off, KEBR-950 @ 6:45 s/off, KHL-1510 @ 7:05 s/off & KSWP-990 @ 7:15 s/off. Finally @ 7:17pm WEDR looped & no W's. 10/19 - KWSL-1520, one of my most wanted & never heard stations in South Bend @ 7:30pm, ID as "K-Bough". 10/25 - WPNR-1520 @ 6:16 s/off, KXU-1550 real weak @ 6:55 s/off w/ everybody, KJXU-1520 @ 6:29 s/off. KEBR-1110 a surprise w/real clear signal @ 6:35 to 6:45 s/off w/Klahoma. Evidently KFAB has XX fixed, & the following heard all real well. 10/25 - KSWP-990 @ 3:45 s/off, KCEH-1510 @ 4:30 s/off, KDNL-1150 @ 5:12 s/off, AM 10/25 - KESL-1150 u/jumble @ 12:07, WCMX-1050 r/c-IA @ 12:11, KPS-1480 r/c-2T @ 12:12 @ Lee's Summit, Mo., KZL 560 easy w/VIND WIND w/140. (I'm about 10 miles S of WIND, but they can be pulled pretty good at night), KJRL-1520 start of TT @ 3:13 W/GCY, WPGK-1450 a frequent visitor in South Bend a little tougher w/WVON NSF here at 2 09, KJRL-1400 probably clear to the W, but more work for them, also, I was too tight to the frequency of the AM w/WITE evidently off, & on 1300 evidently WMPR & WRE all unbelievably w/KCWI EP-1300 with all AM & KN/WC, perhaps Kyny or someone giving FSR & a station I was beginning to think didn't exist at all, KJRL-5-3140 for State 88 in 13 months here, plus KEBR-1510 @ 3:47 s/off & W-20 RX. KEBR-B10 @ 6:15pm w/lot's of local spots but For Winson they are & for verie. KJRL-970 briefly @ 6:57 s/off way on top, & KSVN-940 "Voice of the Sand Hill" @ 6:59 s/off w/NO CEM. Also I'm fairly sure that I caught KJRL-730 & KAP- 5-60 as both were giving severe snow WX. Ah, the big one always gets away. 10/19 was a surprise, but too much to explain. 10/20 was a surprise on top of a clear frequency, KJRL-1140 @ 6:45 s/off w/good signal, KXU-1510 @ 6:33pm, WPAF-770 @ 6:40pm (I never did hear WAPB here) & KRAM-880 @ 7pm. Veries: WAPT KCLR WMT WPJW WMRS WQRF V, 1, & KWMY WEL V, 4600 s/off. New IRC log is great and mandatory for all DXers!

BLAKE LAWRENCE - Box 803 - Canon City, Colorado - 81212

10/29. So we meet again! Totals up to 4290 this week with the charted below. This week's total was 2508. 10/25 - KEEK-1370 Cal. in w/c @ 3:12pm; KAKI-1280 Kan. w/ your friend & mine, Miss Dolly, @ 3:55am. A new state logged thanks to WMBT-1440 Ala. w/ID, RX @ 9am. They were in so well I was surprised it was their first time WBTU-1240 Cal. w/ID, 29-29 RX @ 3:46pm. This has to be my best 2508. As near as I can estimate, they are at least 1,000-mile away! They were getting higher S-meter ratings than 1,000 RX, too. SSS: KSVN-920 6.d. @ 6:55pm w/pr, KSWP-990 N.M. @ 7:19pm, KRVN-1020 Tex. w/light ret @ 7:41, and/360-600 & KXWV @ 7:50. 10/26 KESL-1520 Kan. @ 6:51p, KXU-1550 Utah @ 6:55pm, WM-600 La. w/ID @ 6:15pm, etc., KNSL-1510 Montana @ 25-25pm, can this be KSSX, Utah? 10/29 - KJSK-990 Neb. s/off @ 6:40pm, Reports out to KJDL-1440. This is a fantastic article is interesting to Forward to Part II. If anyone is interested in corresponding or trading SCs, please write. I have KJLI-1230 & KDNM-990 SCs, but the KXU ones were a few weeks old. Do other Colorado DXers exist? If so, they must not know how to write, because they never hear, hi. You should come to Colorado to DX - "there seldom is heard a discouraging word" (i.e., "WSS"!). I have an old station list that has KVY on 1100 in Glenwood & Phily's 1090. What happened, pray tell? (That's a long story, hi -ERG) And now there is KNZV had that CP for 880, 50kw! Will they ever switch? I hope not, hi. I found a list of IRC affiliates in Newsweek & checked them against the List. I sent the corrections in to RJE; the info is useful. 73 & lotsa luck.
J. MARINO - 16 Chastain Drive - Windsor, Connecticut - 06095

I have had a great time at the Convention meeting the "Name"

WCR-1530 & Jerry Starr says, what a signal! 9/9 from 7:15pm EDT s/off.

WCR-1350, same signal. 9/15- WCR-1350 easy from 9-10pm w/BBs.

WCR-1015, 10/14 with the additions of WNDM-1000 9:00-3:00, WILD-1000 rough with WCTC splatter from 2:25-8:15pm. I tried for WCR-1070 in Plattsburgh, no luck. 10/17, WILD in Cornwall, N.Y. at 9-9:30pm, no signal. I received DX NDM 10/23 & listing of WILD TEST for the next morning, & I stayed up. I noted s@ @ 12:30am but unk tester @ 12:21 might have been heard. Signal great with 5k but w/ 1k @ 106, WILD was a problem. Lots of reports out, few veriors back. t/f from WCR & W05. 10/25- WILD-1570 s/off @ 5:15pm & later on, WAPA-690 noted @ 7:35-8:30pm, but enough for a report. I had a great time at the Convention meeting the "Name".

JERRY STARR - WHOT Radio - Youngstown, Ohio - 44505

Several days ago one of our DJs who flies his own plane spotted the site of our new local WNR-170 with one-and-a-half towers in the air. This afternoon (9/31) we flew for a closer to the site & found both towers up, painted & lighted already. The location has just been recently cleared of trees & brush & WW a sea of mud, seemingly a marshy area. So it looks like this often-ill-fated station is actually taking form after all this time & several owners later. The original owner of the CF sold it for his costs without ever building or buying anything. The current owner got for their money was a piece of paper from the FCC & a lease on a piece of land far out & on a back road. When the building or foundation so as we assume it will be some time yet before anything hits the air. Probably EFs could be expected before the first of the year. There is an old empty house on the property from which the power for the tower lights coming, so perhaps the problem will be cured as (or is now) housed there. If this is the case, look for EFs any time. More info on this station as soon as I can locate & talk to somebody connected with it. This will be the last we'll hear about this.

Ronald F. Schmitt - 510 N.E. 158 Street - North Miami Beach, Florida - 33162

Greetings & Come on Down! DX CX have improved again over the previous week, just as the best since I got home. On the domestic scene: WODA-1230 is off WWG-125 pm. Still on past 1 1/2 were WQAM-560 WWG-561 WGB-710 WFTM-790 WWG-790 WCR-1260 WWG-1360 WFTM-1340 WODA-1540 & WGB-1580. I would tend to call that a log of M/A area fulltimers. I tell you, ANY DX ten years ago was clearer than our present M/A! Also add relatively "clear" 730K to the "Vox de Cuba" list - rats! Needless to say, I'm a staunch member of the "Move "em to FM" club. hi. Local WNZ-940, only a few miles from here, was a very busy one, and the most of it around 11/2 and not shielded my mechanical filter which could be the reason. I'd drink to J. Conard's beverage. Maybe I can try the same thing using the established phone line, but I can imagine the results: WNZ cracking every tube in the set! By the way, Geoff Fox is on WQAM-97.9, alias 'Mother', daily from 2-5pm. The station must be heard to be believed! I called the FCC monitoring station in Plattsburgh, got a report, and they know of this. I called the FCC monitoring station in Plattsburgh, and they know a lot more than I do at first impression. They keep their info on index cards. Man - how would you like to DX a living? Question: Who speaks in Puerto Lluma, Costa Rica? Both TII-1203 & WMAN-1375 are carrying EE late evenings. Swan Island is now Isla de Cienas & part of Honduras - no longer the CIA's. Cuba's Isla de Pinos had it's name changed to Isla de Youth. Bait and Bobo should be called Bizzle, though Guatemala should be the name if things go wrong, hi. An ERRA-style get-together for Florida is in the planning stage. LXXII et bonum DX.

KEVIN J. WISLOWSKI - 1416 Pasadena Avenue - Omaha, Nebraska - 68107

From an inactive DX, I must confess. Nearly a year has passed since last report, so I will re-introduce myself. I'm single, 30, have 1,065 verios in 47 states, nine provinces & 20 countries in 12 years of DXing. RX is an EQ-1500, I use the 40" loop & have a new den in the basement all set for DXing. Welcome to the Omaha area, Dan Norris. Some late verios are mostly FM. Only AMs are in the 9/16-10/14 period, & these are late evening. After it's been a while since the last personal visit paid off last July. An interesting one, though I won't count it, is from CBED-860 in Field, B.C. logged while in Field on vacation. My only watter & it is an IFRM. Report sent to CBC in Vancouver. Oh yes, our local police on 134m. K1RKU-1990 new call in town, from ex-AMOK. K1R-1000 Platinum, Neb. in the only holder for Nebraska using 100 verio friends. I like to travel & talked to ten Kruse two weeks ago while in Dubuque. Last July while in Canada I visited CKP-550 Prince George BC. & CKPR-860 Prince Rupert B.C. The IFRMs are sure popular along the highways but get out only about ten miles at most. Then "Way Up North" a visit to KEXJ-950 Ketchikan, Alaska. I know now why it's so hard to hear our 50th State. Ketchikan on 950 was the only Alaska station heard on the car radio from just 90 miles S en Prince Rupert B.C. & that was poor. Every thing along the WC S others were heard very well. KLXJ-1500 in Denver, but nothing from KOG-850.

BRUCE WINKELMAN - 14th Avenue Place - Lawrence, Kansas - 66044

Greetings one & all! Right now I am very excited about this DX season. All of my DX has been on SSS the past ten days & it's been productive. Tonight 10/29 I logged what I consider a fantastic catch on SSS. I was logging WODM-1150 for a long overdue report & noticed several stations in the background. When during WODM's ID & commercial @ 6pm. I noticed very clearly in the background the "Yankee Doodle Dandy" ID or VOI. I am familiar with it from my SAM days. I am still quite excited about this even though it's almost an hour since the logging. I heard the Yankee Doodle theme at least four times. This was logged on my car RX, a 63 Chevy Impala in the parking lot behind my dorm. As I justified in being excited about this catch or is this a normal reception on SSS. Have any other DXers who have heard this on SSS or on other DX. 10/29- KPAM-1050 @ 7:45pm s/off. 10/25- KLXJ-950 @ 5:45pm, WCR-1260 @ 6:45pm w/off really buried in the mass. 10/27- WCR-1340 @ 6:01pm w/RX, CKP-940 @ 11:13pm. 10/28- KLXJ-950 @ 5:55pm w/sports, WAPI-1070 @ 6:06pm really battling KFMI, WJDL-1610 @ 6:15pm w/c. 10/29- VOA-1180 caught only the Yankee Doodle theme as mentioned before, KHAD-1607 @ 6:07pm w/RX, WNL-1210 @ 6:08pm w/Al RX & Tom Harmon Sports. All the times except KPAM are EST; KPAM EST. I just received the 10/31 DX MAG & really enjoyed the article on patterns by Paul Hart. Reprint the good work, Paul. Reports out to WQAM KTOA KGRL KWMK WHF WBOP WWJ. Recent verios, very KPMA. That about wraps it up for this time. 73s.
For 8 years now I've been telling you about how wonderful the DX is down here in Florida. I must confess that I've been only half right. True - the location is great, but the DX? We wouldn't wish it on California! A Floridian will DX under static levels that would return a Californian from the dials permanently! This is easy to understand when one considers that Florida averages over 80 thunderstorms per year - more than any other state in the union. Even on a clear night we pick up these tempests on skip as they dump their excessive contents over Maracaibo or San Juan.

Climatically, Florida has two seasons: Summer is hot, humid and rainy; winter is lukewarm and relatively dry. The latter runs from November through April, but the period may be shorter. If we miss the summer static, winter's power-line noise is sure to be around. Especially along the coasts (and we've got 2 of them) salt, and mineral deposits build up on the insulators causing the lines to buzz at teeth-gripping volume, and the rains necessary to wash the deposits away may not come in weeks during Florida's arid winter. Loops seldom help, by the way, as two or more poles roaring at a time is not the exception.

Dismissing our noisy environment, one couldn't ask for a better DX location. Tegucigalpa, capital of Honduras, is only 900 miles from Miami. Barranquilla is 1200 miles to the south. If you like Latin DX, we've got it - both day and night. Our state is as flat as a hotcake, swampy in parts, and surrounded by salt water, so good daytime ground-wave reception as far as 700 miles is regular. Both Bahamian stations and powerful Cubans from Key West to Cape Kennedy, and the same can be said for the more powerful Cubans from Lake Okeechobee on south. In fact, ZNS2 on 1200 kHz completely obliterates two closer domestic stations on the same channel along the SE coast, thanks to the water path. Other "regulars" in South Florida include the J6C-750, 4VEF-1035, 4VE-B30 (behind CMCA), and WWL-870.

You may think that all our powerful daytimers pose a distressful problem at night, but this is not necessarily the case, for the combination of powerful sky and ground waves tend to cancel each other out. At night ZNS2 disappears behind the din, and HJHJ-600 drowns out powerful CNVK with no apparent trouble.

Nighttime reception, outside the Caribbean area, is not that unusual. Trans-Atlantic reception is normal for the EC, although we're some 1000 miles further from Europe than Boston is. Deep South America is also normal, with Brazil in best but Chile extremely difficult. The impeding Andes make reception west of them a problem in Florida. Here is where California has the Latin edge! Anyway, come on down, and enjoy the best DX this side of Cuba!

THE ALL NEW N. R. C. DOMESTIC DX SUPREMACY RATINGS

Yes, friends, now you can see how GREAT you are, DX-wise, by listing your DOMESTIC totals in the

DOMESTIC DX SUPREMACY RATINGS

Yes, the National Radio Club has decided to rate members according to three categories: Heard, Taped & Verified. List your totals this way: 1) HEARD, Total domestic stations (50 states, D.C., 10 Provinces, 2 Canadian Territories), number of states and number of provinces. Repeat the same three categories for 2) TAPE recordings of stations you have heard and 3) written VERIFICATIONS you have received from heard stations.

Send your listings to: DOMESTIC DX SUPREMACY RATINGS

% BOB KARECHEVSKI, PO Box 3151, Daly City, Calif. 94015

Remember, TAPED STATIONS, to be qualified for listing, must contain at least two of the following three identifiable items; 1) Station CALL LETTERS (not a slogan or partial ID), 2) FREQUENCY (should be identifiable as a frequency, not part of a slogan, etc.), and 3) LOCATION said to identify station, (not as mentioned in a newscast, ad, etc.).

So remember, send your totals to Bob Karchevski and you will receive, at absolutely no cost to you, a one line listing in the N.R.C. DOMESTIC DX SUPREMACY RATINGS.

NOTE: WE ALREADY HAVE ONE ENTRY:

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TD=Total Domestic, S=States, P=Prov., H=Heard, T=Tapes, V=Verifies
Jerry Conrad is now beginning to report some remarkable DX reception with his new Beverage antenna and this would seem to be a good time to present a long-planned article on this unique but little-known type of MW antenna. Very few DX'ers are fortunate enough to have adequate space for the construction of a Beverage antenna; this, plus a shortage of information in the amateur press, has meant almost total neglect of the Beverage for MW DX'ing.

The Beverage type of antenna was first described by Harold H. Beverage in 1923 for the reception of LW signals and belongs to the class of antennas known as wave antennas. While superficially the Beverage seems to be no more than just an unusually long "longwire", it actually operates on an entirely different physical principle from more common types of antenna. The Beverage is most useful on the long and medium wave bands and, like the loop antenna, loses efficiency so rapidly with increasing frequency that it is poorly suited for operation on higher frequencies.

Again as with the loop antenna, the Beverage is useful only for reception and has little application for transmitting; in the case of the loop because of the low radiation resistance in comparison with other losses and in the case of the Beverage due to the excessive ground losses experienced.

The most important application for the Beverage antenna is in the field of radio intelligence monitoring - a potential recognized and exploited by both sides during WWII; the German intelligence agencies regularly monitored MW East Coast U.S. stations from a site near Warnsee while Americans kept abreast of internal Japanese affairs by monitoring low-powered Japanese BCB domestic outlets with Beverage installations on Kauai, Hawaii and later on Guam. Modern installations for this sort of work frequently employ complex arrays of wave antennas arranged in parallel or radial configurations in many ways these represent the "ultimate" in MW DX'ing antennas!

How does a Beverage antenna work? The figure below shows a typical wave antenna for long or medium wave DX'ing; essentially it's nothing more than a very long piece of wire stretched out in a straight line and supported a few feet above the ground. The exact height above the ground is not critical;

3 to 10 feet high is the usual range. Even the length is relatively uncritical - the Beverage is a broadband antenna and the longer it is in terms of signal wavelengths the "tighter" the pattern becomes. The Beverage effect begins to become significant when the antenna reaches about half a wavelength in size; this corresponds to 1825 feet on 540 kHz and 620 feet on 1600 kHz; as shown in figure 2, further increasing the length of the antenna (in terms of wavelengths) has the effect of narrowing the "field of view", reducing the pickup off the sides, and increasing the pickup for stations in the center of the "beam". While not obvious from the pattern diagrams, increased length also results in improved signal-to-noise ratio due to noise phase cancellation effects. With a very long Beverage, say 10 wavelengths (7 miles long on 540!) extremely quite and stable reception can be experienced from stations totally inaudible on other antennas. Before you rush out to set up one of these remarkable antennas, be forewarned that with the present high cost of copper, a thousand feet of 7x22 wire will cost in the vicinity of $20...

One wavelength:

Two wavelengths:

Figure 2. Rough radial pickup patterns in horizontal plane for typical one and 2 wavelength Beverage antennas.
The next figure explains just how the Beverage antenna works and why the performance depends critically upon the nature of the terrain under the antenna. In the first case we show what happens when an incoming skywave MW signal reflects off a perfectly conductive earth (say you built your wave antenna over a solid silver field for example ...); in the vicinity of the earth the electric component of the signal wavefront is exactly perpendicular to the ground (per basic Maxwell). In the next case we have built the Beverage over a well conductive real earth, say a salt marsh or swamp. Because of the imperfect nature of the ground under the antenna, there will be a small component of the electric field of the wavefront parallel to the ground in the direction of propagation. The poorer the conductivity of the ground under the antenna, the larger this forward component will be; in the last figure the signal is reflected from a poorly conductive ground such as solid Continental Shield granite in New England - the forward component is now quite significant. The Beverage antenna simply sums up all of the forward components from the incoming signal and delivers the summed voltage to the receiver. The better the ground the weaker the forward component and the longer the Beverage must be to deliver the same summed voltage to the receiver; thus the performance of a particular Beverage will depend primarily upon three factors: (a) length of conductor; (b) conductivity of ground under the receiver; and (c) frequency.

Note that the patterns on the preceding page show that the Beverage is basically a symmetrical antenna; pickup will occur from stations both forward and backward in the direction the antenna points. Reception from the back lobe takes place because the summed signal is essentially reflected back towards the receiver from the far end of the antenna if that end is left "free". If instead the far end of the antenna is connected to a good earth ground (copper pipes driven into the ground and soaked with concentrated salt solution, a cold water pipe, etc.) through a resistor of the proper value, the back lobe pickup will be dissipated in the terminating resistor, no reflection will take place from the far end of the wire, and the only signals delivered to the receiver will come from the forward direction! The exact value of the terminating resistor is the same as the characteristic impedance of the wire as considered to be a single transmission line with ground return. This is not an easy quantity to calculate or measure and the value of the resistance is usually determined experimentally by trying different values until back lobe pickup is minimized. Values in the 400 to 1000 ohm range are typical.

Because of daily and seasonal variations in the effective electrical properties of the ground under the antenna, the actual value of the terminating resistor which best reduces back lobe pickup will vary with time; in the most sophisticated modern installations the exact value of the terminating resistance may be remotely changed from the receiver site to optimize performance under specific conditions.

For maximum signal transfer into the receiver the input impedance should also match the characteristic impedance of the antenna lest part of the signal be reflected back towards the far end of the receiver. By the same token, receiver ground should be as good as possible although ordinary capacitive coupling to power line ground will probably prove adequate. Note Nature's little irony in the matter of the necessary connections to earth ground: the poorer the ground conductivity the better the Beverage effect - and the harder it is to make a good earth ground at the ends! Ideally a patch of rocky desert between two salt marshes would be just the thing but try telling that to a real estate agent sometime... The attached maps give a rough idea of the effective ground conductivity in the U.S.; the lower the number the poorer the conductivity and the better the Beverage antenna will perform. Note that sea water in comparison is 5000 or more. In conclusion let us remind you that chopping down power or phone lines for the wire is a federal offense...
NUMBERS ON MAP REPRESENT ESTIMATED EFFECTIVE GROUND CONDUCTIVITY IN MILLIMhos PER METER.
CONDUCTIVITY OF SEAWATER IS NOT SHOWN ON MAP BUT IS
ASSUMED TO BE 5000 MILLIMhos PER METER.

ESTIMATED EFFECTIVE GROUND CONDUCTIVITY IN THE UNITED STATES

FIGURE R3
February 1954
This graph shows the daily values of the Frendricksburg index of geomagnetic/auroral disturbance in the Earth's magnetic field. High values of this index occur during a heavy influx of electrically charged particles into the upper atmosphere as the result of certain types of solar disturbances. The medium-wave signal absorption produced by one of these events is strongest in high latitudes and persists for some days following the initial particle influx. Values of the index above about 20 are inevitably associated with high levels of absorption along high-latitude TA and TP signal paths. Very high values (above about 40) are usually accompanied by E-layer blanketing over North America and Europe; on such nights stations from the South will appear to dominate most channels. Long periods of low geomagnetic/auroral activity are necessary but not sufficient to guarantee excellent high-latitude TA and TP reception—other ionospheric effects such as the "Midwinter Anomaly" may effectively mask what would otherwise be periods of excellent reception on high-latitude paths during periods of continued low geomagnetic/auroral activity.
INTERNATIONAL DX DIGEST

Receptions: (all times in IIX are GMT. Deadline is Wednesday AM box del.)
The Editor calls your attention to some remarkable receptions by Jerry Conrad
in Florida who has recently installed a 1 kilowatt Beverage Wave antenna.
This represents the first known current usage of a Beverage, in the crowded
band or existing here in No. America; Jerry is preparing material describing
the design and installation. The Beverage wave antennas were
in use before WW II but experimental data relating to their use on the MW
bands in a congested area such as Eastern N.A. is almost entirely lacking.
Of course our colleagues in New Zealand have made good use of these antennas over
the years in logging West Coast stations at their local sunset - but on what are
essentially clear channels for them, due to sunset occurring at the times of
recording. Extreme QRM from many bearings are eliminated and tuned
out of Beverage wave antennas as the pickup lobes are narrow. We will have more
information about this hereafter - little-explored topic in upcoming issues of
DX News in the hope that it will spur other DXers who have quizzical, rural
locations with at least a couple thousand feet of open space available to try
these antennas so that we may fully benefit from our DXers.

The minimum usable length seems to be a bit less than the 1000 feet there is
in JFK's run. He is using #22 stranded, insulated, about 3 or 4 feet off the
ground, supported by poles every 75 feet. It runs thru a citrus grove. Anyone who
wants to try duplicating the Beverage Wave can write Jerry and his RR
editor (me) who will send further info. Jerry may try running another 1000 feet,
which theoretically will pull the pickup lobes closer to the wire axis.
We will pass along any further info Jerry sends along as this is something the
DX community has not had much experience with before and it is all new!

Puerto Rico: WHAF San Juan hrd 10/26 IDing at 0745 on AM skd. (Ohio)
WHAF 5027-25 with ID in Spanish, commercials. Completely stop and no loop needed. (Holland, NY)

Mexico: XEPH, Mexico City, "Radio 590" with IDs after each record 0610
10/24 and much Latin type music; not Ranchero. The Cuban wasn't even audible. (Conrad, Fla. roughly between Orlando and Tampa area)

Ecuador: XEPM runs AM sig only fair and local static bothers. (Schatts, Miami area, Fla.)

Mexico: XEPO Monterey at 0910 10/25 pretty much dominating the channel with a very nice ID at 0910. No Cuban in sight; seems the Beverage null is sometimes more useful than its pickup lobe. (Conrad, Fla)

Hawaii: KEOI Honolulu at 0305 and later, 0310. Unh here but always a thrill to hear this one. Good sig but exceedingly high QRM from some thunderstorms in the Atlantic just off Oahu made copy rough. They have a great many more commercials than they used to; still easy-listen
music. Rot as strong as KEOI the night before, but still good. (Conrad, Ill)

El Salvador: YSR hrd with good strength 10/26 at 0352 with ID then a special 15 min. "El Salvador National News" by Mr. Sanchez Hernandez. (Chicago, Ill., New Orleans, N.Y.) (Welcome to IIX, Craig, hope to hear from you again ed)

Mexico: XHFRM now using "Radio Juventud" and no longer gives call letter ID. (Conrad, Ill)

6 watt ID here on the R-396A; might be West Indies but not sure. Has been noted by a couple other DXers who thought it was Anteply. (Conrad, Guatemala) Radio Fabulosa, KFU Cartagena City, 0915 10/26. This one has Latin rhythms and some maracas. First time I heard this one since they were on 885 several years ago. The Cuban was atop the channel but Fabulosa was only about 3 db below them. (Conrad, Fla.)

Mexico: CETMA, Tijuana 0800 10/26 for the first time in years. I even tuned in on it which was a nice change. For the Navy Nurse Corps and easy listen all in Eng. An amazing signal, even with
and at times over CW. (Conrad, Fla)
unID. Possibly Cuban CMQ, as it loops in that direction, but relays CNEF. I only hear CMQ  days, and they were solid on 1300 every forenoon after monitoring 1302. (Schatz, Fla) (is CMQ on 1300 now? —ed.)

Mexico, XMEF, the "CNM" outlet in Matamoros at 0600 1/24 with the "works" at 0600, & calling, slogan etc. A nice signal, but some "gialiera" into. No ID noted here 10/30 here. (Conrad)

EL Salvador, YSW, San Miguel, "Radio Novedades" is in fair every given. Give call and slogan; the latter differing from FERIS. (Schatz, Fla)

3 Cuba, Premia CMQ Havana with INMID program; no local ID noted 0520-0600. Can anyone confirm this is they? (Edmunds, MD)

From time to time, little powerful signal present 0500 any morning. They are the 2nd best European, after 1306. (Schatz)

Cuba, the name "Siboney" comes from the Cuban Indians. When the Spaniards arrived on the island of Cuba, they were known by that name. Mexican Indians are Artecas. (Obj.P., D.R.) (Edmunds, MD) —ed.

Mexico, XEMG Rogales at 0700 1/26 with complete ID for ranchero style program. Very strong but still a nice tape. (Conrad)

Costa Rica, TTRM, Puerto Limon. This one has more, and better English than its neighbor TQ. Try late evenings in East. (Schatz, Fla)

unID. Who here carries Wolfman Jack a in XJXU etc. Was audible on loop; mixed with KREO on E.W, looped West I/26 central Mexico. (Conrad)

Cuba, CMQ is a new one in Camagery province. Strong but extremely distorted. Gave signal enough here. (Schatz, Fla)

unID. Had what I think might be Togo. A very suspicious hot here a bit higher in freq than Tiran and hrd on the E.W. which is very directional to Africa so could be them. (Jerry is running with the far end undermindings... —ed.) Was heard 1/26 only, but very weak. (Conrad) (The word is that Togo is now using 20 kw? —ed.)

The "Mexican" I was hearing here is KHRX, Corpus Christi, Texas. They do not give English IDs on the hour; have not hrd call letters in either Eng or SS except at s/off. They play ranchero, too, just to liven things up a bit. (Conrad, Flk) (Someone notify H. Joplin, quick!) Mexico, XEMG at 0710 1/26 for one I've looked for for some time. They were used to be very strong in Ky. They were here, too, MM over WING and KKV. Many Radio Sinfonola IDs and great ranchero mx. s/off at 0700. (Comm Cub. CMQ. Fora Soriano "Radio Tabajal" seems to be the new slogan. Phoning out aboriginal words thru the garage isn't easy. (Schatz, Flk)

Chi. CMJQ, Palma Soriano "Radio Tabajal" reported here by FNC Monitoring stn in Fort Lauderdale. Have to visit some day! (Schatz, Miami Flk)

unID. Premia C.R. or Salvador from format, mostly soft mx and amas but no noticeable IDs in fady sigs to 0510 s/off 1/26. Very resonant and deep voice anew. (Edmunds, MD)

Colombia! Looped properly, Format too, for unID 88 with 0455 s/off/1/26 "Radio Classic" on Radio San Juan. (Edmunds, Md)

Hawaii, KMMU under KREK 1/25 0830 with easy-listening, Only audible on the Beverage wave; not even KREK could be heard on the loop! Hrd again 11/3 just after KMMU s/off 0800 with talk about old time islanders with canoes; at 0830 "at the top of your dial, KMMU, 1500 Honolulu" and also had some name on the loop. KREK was heard more early in the day. (Conrad, Flk)

Mexico, XEMG, "Radio Prilecor" hrd for the first time IDing this way at 0650 10/25 with ranchero mx. Is this a name change from "Radio Difusora Comerciales"? (Obj. D.Rep.)

Mexico, XEMF, a listed daytimer, gave call 0100 11/1 which was 8pm here. Do Mexican daytimers s/off at 109 there? Also, they gave call as "Radio Difusora Comerciales"? Have not hrd the "y" so pronounced. (Conrad)

Australia. Had great signal from WPI 0945 to CME s/off and they were
Australia. Had great signal from 4QD 0945 to CHE s/on and they were
hard thru CHE for another 15 minutes or so. They had news cast at 1145
and some music afterwards which I could identify. Recorded. This is the
first EODA reception of 4QD I can recall in years. (Conrad, Fla.)

1550 Mexico. KGUN Tucson 10/25 0615 with many "bo" ideas and much music.
Amazingly strong for only 1 kw and FM they were even stronger. (Conrad)

1562 Int. Waters; Radio Veronica had 11/4 0650-0702 with up tempo MoR, 6 pips
on the hour and a commercial after that. (Head, NY)

1580 Colombia. Armonia Zapaquirifes, Zapaquiripes for the first time on
10/25 with pop music, ID'd at 0956. (Ohio)

1600 Colombia. Radio Ciudad Maiagro, Armenia. Moved to assigned freq ex-1958
(and perhaps on NDB's recommendation; see verification section in TDMD
July 5, 1969-c.o.) (Ohio)

A few verbes here, including HJLB and some odds and ends but I am exhausted
and it's getting late so will send this off now, and leave the rest of the page
for BRC use.

73. RE.
Greetings, again, peoples: This one is small, and hopefully, I'll make few mistakes, since I'm out of correction presently. We now have enough people for typing correctors & each, and I'm hoping to get that done and ready for publication by Thanksgiving.

A bit of random comment, at the outset: I note with interest Harry Halms' comments on DX-ers verifying reports. Aside from the obvious fact that I signed last year's WW4 test, and will do so for future WW4 tests, or, more precisely, we used printed cards and I verified them (since I did much of the test), I see no difference. I agree with Harry that a DX'er tends to be much more careful in verifying than the average engineer, etc. and I see no reason that he cannot be considered a "SSL Manager" on a temporary basis. I know of instances where DX-ers do all verifying for a station, because the station won't do it. If the verification is legitimately checked against program logs or whatever, it matters not to me who signs it. If a DX'er does, one thing is sure, it most certainly is NOT an "automatic" veri, and therefore is more valid than many 'veris' signed by station personnel. Nuff said.

midnight to sunrise

Satellite

[960] GLK-920 - Easy 10/26 RX w/ WIND off 01:00 (Don Egbert, Crown Pt., Ind) **I'll assume EST times throughout on this -- this is -- this is not DX at time-change, Ht-RJE)

[1250] KAILO-2R Fair 10/26 w/ WIDE apparently off all AM (Egbert)
[1250] WREL-IT -X Fair 10/26 w/ WIDE apparently off all AM (Egbert)
[1140] KERL-1490 -W Rel off 10/25 (Egbert)
[1140] WREL-IT -X Rel off 10/25 (Egbert)

Hrd W/ WIDE off 10/25 (Mark Katz, Brighten, Ga) 01:55/EDT

sunset & evening

Surprisingly strong w/ no WY 10/26 1850 w/ many local spots (DE)
10/26 s/off 1846 SSB (DE)
10/26 1850 s/off in clear aurora w/ mentions of the "aurora bulbs" (DE)
10/26 1857 s/off, (DE)
10/26 strong on SS 1830-1830 s/off w/ "Oklahoma" (DE)
Good 1816 10/26 w/ WIDE looped (DE)
Hrd 10/25 w/ Cowboy FB to 1858 s/off w/ no WIDE (DE)
In 10/26 after KERL's s/off to 1915 s/off (DE)
In on. Hrd W/ repeat of HS FB game, ad, ID 1653-1700 lps w/ 11/3/10 WIDE (RJE)
Unn. atop channel W/ WR 1650-1700 s/off 11/3 (RJE)
Atop channel 1700-1715 s/off 11/3, unn. (RJE)
Hrd W/ WIDE off 10/26 w/ ID 1575-1600 lps w/ 11/3/10 WIDE (RJE)
10/26 W/ many local spots, 1850 (DE)

We'll be looking for YOUR muscle for the next "attitude": We are getting on the average, about ten LESS than we used to get just a year or so ago. How come? We know most of you love the technical articles, DIVD, DXDO, and special features. We hope you haven't forgotten the oldest section of all in DXW -- Musings of the members! At one time, in fact, it was the EMPIRE DX NEWS! Lots of PR-Cers have paid us compliments on this section down through the years -- how about you lads pitching in and keeping the section alive, interesting, and BIG?
NOTE regarding NRC mechanical filters. I think Ron was out of the NRC when our fairly comprehensive 19 page article on mechanical filters appeared in DX NEWS. In it we covered various alternative methods for adding MFs to receivers; the Lafayette filters described in that article are electrically identical to those available today and are in fact produced by the same manufacturer. The 10,000 ohm resistor shown in the conversion instructions is specified by the manufacturer as the appropriate value to properly match the input impedance of the transformer; I also independently verified that this is the correct value by checking the transformer with an RF impedance bridge. There is some drop in plate voltage across the load resistor but only rarely is this a problem; we discussed in detail ways to avoid shifting the mixer operating point unduly in the first article. The miniature IF transformers supplied by Kosakai are extremely delicate and burn out immediately when subjected to excessive current flow. If you happen to install the transformer without the coupling capacitor, there is a very good chance that the steady-state plate current will blow the transformer; if the mixer happens to be a low current device, transients can still kill the transformer nevertheless. Kosakai did not design these transformers to operate without the coupling capacitors and will not refund or exchange transformers blown by omission of the coupling capacitors. I once accidentally blow one by shorting out the coupling capacitor and I know of other DXers who have had similar experiences. As the writer in the 1965 issue of Radio TV Experimenter said, "Do not try to feed the voltages through the &s; they sure way to blow twenty bucks."

*GPN