



# DX NEWS

The magazine of the  
National Radio Club

— SINCE 1933 —

Volume 57, No. 16 - January 29, 1990 (ISSN 0737-1659)

## Inside ...

2 .. AM Switch

2 .. Address Changes

7 .. DDXD-E

14 .. DDXD-W

15 .. Formats

17 .. Answer Man

19 .. Q Multiplier

20 .. AM Fidelity

21 .. Sports Networks

22 .. Contests, Sparky

23 .. Labels, labels

## CPC Tests Directory

1-28: WAGL-1560 Lancaster, SC

2-4: WRSW-1480 Warsaw, IN

2-5: WCIL-1020 Carbondale, IL

2-18: WLUS-980 Gainesville, FL

2-19: WIVV-1370 Vieques, PR

**WAGL-1560** - P. O. BOX 28, Lancaster, SC 29720 will conduct a DX TEST on Sunday Morning January 28, 1990 from 0400 to 0430 Eastern Local Time. WAGL will be broadcasting with its daytime 50,000 watts into a directional pattern. This broadcast will be in C-QUAM Stereo and if you do have your stereo light come on please let them know. Please direct reports and thanks to Mr. B. L. Phillips, President. Arranged by the Colorado CPC Machine for the National Radio Club.

**WCIL-1020** - P.O. BOX 700, Carbondale, IL 62903 will conduct a Special DX test broadcast on Monday, February 5, 1990 from 0630 to 0700 ELT. The test will consist of a special test announcement, Morse Code ID's and music. Reception reports are requested. All reports should be sent to Mr. Paul H. McRoy, General Manager. Arranged by the Colorado CPC Machine for the National Radio Club.

**WRSW-1480** - P. O. Box 1448, Warsaw, IN 46580 will conduct a special DX test on February 4, 1990 from 0530 ELT thru 0555 ELT s/on. The test will be conducted using the 1 kW daytime facility. At 0555 WRSW will switch to 500 w. directional. The test will consist of some marches, legal ID's, code ID's and will be interspersed with oldies from their automated normal programming. "In addition to acknowledging reports I will award a special prize to the furthest report of our signal. Regards" James L. Swearingen, Chief Engineer. Our thanks to Mr. Swearingen! Arranged by the Colorado CPC Machine for the National Radio Club.

**WLUS-980** - P. O. Box 1068 Gainesville, FL 32602 will conduct a DX test on Sunday morning, February 18, from 0400- to 0430 EST. Test will consist of voice and code ID's, an explanation of the test, and fast-tempo big-band style music. Power will be, from 0400-0417: 5 kW, 0417-0419: .5 kW; 0419-0421: .25 kW; 0421-1423: .166 kW; then, return to 5 kW. Code ID's will be used during all segments. Our thanks to Mr. Tim McGuire, CE, for this test. Arranged by the Colorado CPC Machine for the National Radio Club.

**WIVV-1370** - P. O. BOX 338, Vieques, PR 00765-0338 will conduct a special DX TEST on February 19, 1990 from 0400 to 0426 Eastern Local Time. At 0426 WIVV will sign on for its normal broadcast day. The test will be run with

5000 watts non-directional. This test will consist of Christian music with frequent voice and code ID's. Our thanks to Mr. James C. French Operations Manager. Arranged by the Colorado CPC Machine for the National Radio Club.

**From the Pub Center ...** The #4 Updater for the NRC AM Radio Log is now available for \$2.00. Order from the Publication Center.

**From Topeka ...** The time is coming when your editor is going to have to think of something intelligent to say to fill this front page ... Several editors, yours truly included, have been under the weather for a short time with the cold or flu bug, but leave it to Chuck Hutton to come up with a better disability: he broke his hand! Hence, no IDXD this week, but he promises one for next week.

**They joined:** Phillip Dampier, Rochester, NY; Robert L. Gaston, Lubbock, TX; Michael Pinto, Armonk, NY; Jack Porter, Toronto, ON, and Sam Rotundo, Utica, NY.

**DXChange:** For sale: Panasonic RF-2800B -tunes .520-30mHz, plus FM, very good condition, used but not abused, recently aligned. Operates on 120v, 230v, batteries. Digital and analog readouts. \$160 includes UPS to your door: Bill Hale- 734 Burlison St. - San Marcos, TX 78666-4335.

## DX Time Machine

### From the pages of DX News

**Twenty-five years ago ...** from the January 30, 1965 DXN: The ten new NRC members included Dave Schmidt, Pennsylvania ... Randall Lyon, Altamont, NY, 15, wrote in his first Musing that his radio equipment included an RCA Radiola, a Knight Ki5 Star Roamer, and a Hallicrafters S-120.

**Ten years ago ...** from the January 28, 1980 DXN: At either end of the band, Dave Yocis, CT, logged TICAL-527 R. Rumbos, Cartago, Costa Rica, on 12-20, and beacon RAB-1613 from Rabinal, Guatemala on December 18 ... Brian Vernon, Yukon T., logged Dubai-1481 on 12-19, and missed work to do it!





1330 WMII	TN Hendersonville	c/o 315 N. 45th St., Louisville, KY 40212	HK
1340 WDKW	MI L'Anse	c/o 2 Castro St., #6, San Francisco, CA 94114	HK
1340 WNNH	NH Madbury	RFD 3, Route 16-N, Dover 03820	TH
1340 KOKC	OK Oklahoma City	101 N.E. 28th St., 73105	HK
1360 KHCN	CO Johnston	26886 W.C.R. 17, 80534	HK
1390 KKDQV	CA FIELDS Landing	c/o Box 3087, Hollywood 90078	HK
1400 WJLD	AL Fairfield	c/o Box 11365, Birmingham 35201	HK
1400 KUNA	CA Indio	82-640 Miles Ave., 92201	TH
1400 WT1J	NH Roxbury	Box 105, Hinsdale 03451	HK
1400 KVRP	TX Stamford	1406 North First, Haskell 79521	WH
1410 WKTH	MI Grand Rapids	38 W. Fulton, 49503	BW
1430 KM1Y	CO Grand Junction	c/o Box 1462, Jeffersonville, IN 47131	HK
1430 WWLO	FL Gainesville	c/o 4610 Briarwood Dr., Sacramento, CA 95821	HK
1430 KYKN	OR Keizer	Box 1430, 97308	TH
1450 KDMN	CO Buena Vista	301 E. Main, 81211	HK
1450 KDMN	CO Buena Vista	or Box 2044, 81211	WH
1450 WAAK	FL Redwater Lake	Box 1195, Redwater Lake, Hawthorne 32640	HK
1460 KWLL	AZ Casa Grande	c/o 4718 Edgewood Dr., Rapid City, SD 57701	HK
1460 KWES	CO Colorado Springs	Box 320, 80901	WH
1460 WOLM	FL Lake Mary	c/o 241 Bentham East, Amherst, NY 14226	HK
1460 WRLB	NJ Florence	c/o Box 457, Burlington 08016	HK
1460 KCKX	OR Stayton	Box 139, 97383	TH
1460 KCKX	OR Stayton	or Box 339, 1080 N. First St., 97383	HK
1470 KSIR	CO Estes Park	1600 Manford Ave., 80517	WH
1470 KSIR	CO Estes Park	or Box 2677, 80517	TH
1480 KYOS	CA Merced	1744 G St., Box 717, 95340	TH
1480 KYOS	CA Merced	or Box 717, 95341	HK
1480 KRAE	WY Cheyenne	2109 E. 10th St., Box 189, 82001	TH
1490 WAJF	AL Decatur	1301 Central Pkwy S.W., 35601	HK
1490 KZAO	AR Dardanelle	c/o Route 2, Box 476, Russellville 72801	HK
1490 KX1Q	IA Indianola	2104 W. Second Ave., 50125	HK
1490 KX1Q	IA Indianola	RR2, 50125	DB
1490 KMCW	MT Great Falls	c/o Box 1462, Jeffersonville, IN 47131	HK
1490 KFCR	SD Custer	c/o Box 971, Hot Springs 57747	HK
1490 KPLT	TX Paris	Box 9, 75461 or 2305 SE 3rd St., 75460	HK
1500 WNZQ	FL Saint Cloud	c/o 10410 Windsor View Dr., Potomac, MD 20854	HK
1500 WCHM	GA Clarksville	Box 468, 30523	HK
1510 WTRJ	OH Troy	c/o Box 336, Cambridge 43725	HK
1520 WDBS	GA Eatonton	Drawer 522, 31024	HK
1520 KFXE	MO Camdenton	c/o Route 3, Box 4881, Lake Rd 54-24, Osage Beach 65065	HK
1530 KHPY	CA Yucaipa	c/o 405 La Cadena Dr., Colton 92324	HK
1550 KITH	CA Apple Valley	10207 E. Ave. R-12, Little Rock 93543	TH
1550 WNTN	MA Newton	143 Rumford Ave., 02166	HK
1550 WNJ0	NJ Seaside Park	c/o Box 446, Lumberton 08048	HK
1550 KXTO	NV Reno	c/o 4604 Hurford Terrace, Encino, CA 91436	HK
1560 WRBJ	AL Dadeville	Box 81, Mark Donnell Rd., 36322	HK
1560 WY2Q	KY Hazard	Box 1981, Main St., 41701	HK
1570 KMAR	LA Winnboro	Box 312, 71295	HK
1570 WLWZ	OH Athens	c/o 2711 Hwy 62, Jefferson, IN 47130	HK
1580 KEZD	CA Windsor	c/o 1854 Tonja Way, Santa Rosa 95401	HK
1590 KSSU	AZ St. Johns	c/o Bold Productions Inc., 16208 S. Finch, Harvey, IL 60636	HK
1600 WLM0	NY Geneseo	125 Main St., 14454	HK
1600 WQ2Q	TN Lebanon	c/o Box 40333, Nashville 37204	HK

Thanks to everyone who submitted the above new or different station addresses following my request in the last couple of DX NEWS. A BIG thank you to the following:

TH- Tim Hall, BM- Bill Moser, WH- Wayne Heinen, HK- Howard Kemp, BW- Bob Walker, PB- Phil Boersma, DB- Doug Beard, HD- G. Harley DeLeurere.

Additional thanx to :

ROBERT EDDY, Owner/GRICE of WVVW-630, St. Mary's, WV.

CHRISTINE KLIK, Syracuse, NY

EDWARD LENDZIOSZEK, Easthampton, MA

Mike Knitter

*Mik*

## Join the Target DX revolution!

What's the best time to hear that elusive station ... can you actually still hear a station from the opposite coast .. if you hear one station in a city, can you expect to hear another? Help yourself by making requests for information ... help others by sharing your experiences through Jim Renfrew's "Target DX" column. There's strength in numbers and shared information ... and what better way to DX than by DX'ing "smart"? Send your requests and tips to Jim at 61 Wilcox St. - Rochester, NY 14604-3832.

## Domestic DX Digest - East

William Hale

734 Burluson  
San Marcos, TX 78666

DX Catches in the Eastern U. S. and Canada, with 24-hr. ELT

### MEDIUM WAVE ramblings

■ Another new reporter checks in this week with his initial report. **Perry Crabill, Jr** of Winchester, Virginia logged the WADN test and a TIS transmission. Keep those reports coming, Perry, and welcome aboard!

■ **Dave Schmidt** writes... "To **RJE**: no construction started on WJHR-1040 (NJ) or WBCQ-1170 (PA) account zoning problems for towers". For me he clears up the Harmonics question... "Main frequency X 2 = 2nd harmonic. Main frequency X 3 = 3rd harmonic". Did they change that rule since I went to school? hi. **Eric Buenehan** writes "WOBS-1570 will verify all reception reports. The Verie Signer is **Ken Kerstiens**, Assistant Engineer, and the address is: 220 Potters Lane, Jeffersonville, IN 47130. [Data] on this one is U1 1500 233 (500 CH). Sked is: 24 hours, silent period Sunday and Monday mornings 0100-0600 ELT".

■ From the **making Amends Dept.**... Reference Issue 12, Tests, the 1530 item from **Phil Boersma** was incorrectly listed as WNCI. Of course it should have read **WYGR**. #\*~!\$\*A@#002\$W computer!!

■ We're not lookin' at another 10 pager, but we do have a splendid turnout for your perusal this week. So sit back, relax, get another brewski...and enjoy.

### SPECIAL

### WMAQ ALL NEWS 67

- 540 WSTH GA COLUMBUS - 1/2 per announcement, now carries **Larry King** (EB-GA)
- 560 WHBQ TN MEMPHIS - 12/21 0128 with hard rock, **Power Rock 56** slogans, CST TCs by female DJ, so maybe **Z-Rock overnights?**; fair with WOOF/WVOC (EB-GA)
- 570 KLDD TX DALLAS - 1/3 0135 with AC, *The new Warm 97.9 FM non-ID* (slogan), simulcasts **97.9 in Dallas** ex:KZEW, change from OLD; good with fair stereo over WWNC (EB-GA) [I thought something was up just before Christmas as they were playing continuous Holiday tunes and IDing as you reported. Was waiting for a report from a Metroplex member to confirm it. But I'll take yours, Eric-Ed.]
- 1010 KBIS AR LITTLE ROCK - 12/29 08[?]26 poor with *Informative, entertaining & ??? ideas* on KBIS; fade up; ex:KLTH; AR #9 (SA-MB)
- 1210 KOKK SD HURON - apparently stayed on day power and pattern several nights in late December; 12/19 1800 with legal ID & ABC Nx in WCAU null; 12/24 0100 poor under WCAU with long sign-off in ingénué; 12/25 2100-2345 very readable during WCAU fades with Bengalis-Vikings game on Vikings Network, WCAU carrying same game on CBS feed; many local ads during timeouts and *Dakota Country KOKK, your home for the Vikings* ID following sponsor billboard at game's end; 1st new SD here since 1976 (SF-TN)
- 1249.5v WTMA SC CHARLESTON - don't think this one has ever recuperated from Hugo; has been drifting off frequency ever since return to the air after the hurricane causing loud het with others on 1250; still about 500 Hz low as of 1/4 (CR-ON)
- 1260 WIBV IL BELLEVILLE - per **Rich Eddie** & White Birch Communications associate **Ralph Ullrich**, WIBV now carries **Talknet & Larry King**; still Transtar AC days, but may go all-talk; net is now MBS (EB-GA)
- 1320 CJMR ON MISSISSAUGA - 1/4 0045-0105 with AC mx & jocks **J.D. Cicolli** and **Dan Woods**; this was **CJMR's first day on 1320**; still using 1190 in the day, but by the time you get this they should be 1320 fulltime; they will carry **Maple Leafs HKY** and **Blue Jays BB** this season; signal doesn't appear to be too devastating; can still listen to 1310 & 1330; WJAS can be hrd in CJMR's null during talk; Thanks, CRTC! (NJW-ON)
- 1520 WSPZ GA DOUGLASVILLE - per **Bill Ailissusksa**, this ContChr stn may go silent during 1990 (EB-GA)

### UNIDs AND UNIDs IdD

- 1190 WMAD WI SUN PRAIRIE - 12/16 0830 probably NOT **Shawn Axelrod's** unID w/BBD I \*think\* WMAD had already gone to CNN Headline News by this date; will check with CE, if I can find him! (DS-W11)
- 1310 UNID ?? - 1/2 0714 under WMTG with *Pure Gold satellite weather* followed by ad for **Main Metal Company** with phone # 874-9606 (CR-ON)

1440 UNID ?? - 12/31 0820 good with ID as *En Sweed(?) en stereo 1440* by female DJ; Mexican mx & *Taco Bell* ad, killed by KKXL @ 0728; also hrd 1/1 0803good with *Taco Bell* ad, several IDs by female as *En Stereo*, *Kators Siegesta* (sorry 'bout the spelling but French is our other language, not Spanish) or by man as *Los Nuevos*; Mexican mx; looped south; faded @ 0835; no CLs hrd (SA-MB)

### DX/EQUIPMENT TESTS

## WINNERADIO 1220AM Stereo

1120 WADN MA CONCORD - 1/8 0201-0210 with code, 3 dots, behind KMOX, mx (female vocal?) followed by V V V in code, then CQ DE ... (code covered @ times by KMOX)...V V V V V DE WADN BT CQ CQ CQ DX TEST...CQ DX DX...QRX; 0204 a 1000 Hz tone for 5 minutes behind KMOX; 0209 VID *Alpha Delta November Concord, Massachusetts...I spell...rest covered by KMOX; 0210 VVV VVV VVV; the code made positive reception possible (PC-VA)*

WADN MA CONCORD - 1/8 0204-0230 with CIDs @ 0204:35 and 0228:55; tone hrd from 0204:55-0209, 0222:50-0225 and 0229:15-0230; very weak under KMOX/Cuba (SF-TN)

WADN MA CONCORD - 1/8 0222-0230 with TTs, code & voice IDs, XR coordinates; signed off with *Thank you for joining us for this DX test of WADN, Concord, Massachusetts. This is Michael J. Kline, NV1L, wishing you the best of reception & 73 (GU-NY)*

WADN MA CONCORD - heard as sked; L&C (MUSCO)

WADN MA CONCORD - 1/8 0200-0300 fair with VIDs, CIDs, TTs; under WNEW splash & over KMOX (BH-NJ)

WADN MA CONCORD - 1/8 0200-0230 easy log of vocal announcements, CIDs & occasional TT; occasional QSB (RUGG)

WADN MA CONCORD - 1/8 DX test actually equalled KMOX in strength a few times; with TTs, CIDs (may have been a bit fast for non-Hams), and spoken station IDs & power/antenna info, first new station heard here since 12/21/86 (STARR)

WADN MA CONCORD - 1/8 0202 DX Test hrd with weak signals, CIDs & TT; under KMOX (KDF-IL)

1220 WKMT NC KINGS MOUNTAIN - 1/6 **not heard** (DS-DE)

WKMT NC KINGS MOUNTAIN - 1/6 **not heard**, just WGAR/CKCW (PRM-NJ)

WKMT NC KINGS MOUNTAIN - 1/6 0100-0300 **not heard**; owns 1220 here evenings with 100 watts, so evidently not on (SF-TN)

WKMT NC KINGS MOUNTAIN - 1/6 **not heard** (MUSCO)

WKMT NC KINGS MOUNTAIN - 1/6 0100 **not heard**, just WGAR/CKCW/unID-FF (BH-NJ)

1370 WMNY SC ELLOREE-SANTEE - 1/8 0421-0436 fair with continuous tone; CIDs @ 0423:20 & 0428:45; one possible VID @ 0436:15, but was buried by then under WSPD/WDEF/WXXI; nothing hrd before 0421 (SF-TN)

WMNY SC ELLOREE-SANTEE - 1/8 **not heard** (MUSCO)

WMNY SC ELLOREE-SANTEE - 1/8 **not heard** (DS-DE)

WMNY SC ELLOREE-SANTEE - 1/8 **not heard** (BH-NJ)

WMNY SC ELLOREE-SANTEE - 1/8 **not heard** thru WFEA/WXXI (RUGG)

WMNY SC ELLOREE-SANTEE - 1/8 0416 hrd possible CID, sounded like WM; TT beginning @ 0419; no ID hrd (KDF-IL)

### TIS & OTHER

530 TIS MD? HAGERSTOWN? - 1/9 0721 weak, relaying the VHF weather b'cast on 162.475 from Hagerstown NWS; QRM from CJFT early, then TIS was weak later with no CJFT (PC-VA)

### PIRATE ACTIVITY

1620 WJBit NY COTTEKILL - 1/2 0200 fair→poor, but alone on channel with Motown OLD/UC mix, some talk by DJ; distorted audio (EB-GA)

### HARMONICS

2640t WICO MD SALISBURY - 12/31 1730 with ad for something at the Georgetown Plaza and the \_\_\_\_\_ Plaza in Salisbury; year-end C&W countdown; poor (NjW-DX)

### SPURS

1639t WBLL OH BELLFONTAINE - 12/31 2213 horrible spur(?) noted in this area; playing C&W mx & IDing as *AM 1390 WBLL*; legal ID noted @ 2300 (NjW-DX)

### MIDNIGHT TO MIDDAY

540 WYLO WI JACKSON - 12/18 0720-0745 very good with numerous Milwaukee ads including *Teddygrams* (764-BEAR) and a funeral home on Kinnickinnic Ave (easier to say than it looks-Ed.); multiple TCs with WYLO call IDs→ContChr mx (DS-WI1)

550 WDUN GA GAINESVILLE - 1/1 0630 fair with call ID: *Northeastern Georgia's leader for weather information, WDUN AM 55+local nx with Matt Williams and female ??? Gibbons* (CR-ON)

WDRV NC STATESVILLE - 1/1 0623 fair with call ID: *Family Radio AM-55, WDRV+ad for Helen's Cafe 124 East Front Street followed by wx & REL mx; good at 0645 with The Birthday Club giving address as in Log except it's on Signal Hill Drive* (CR-ON)

570 WAAX AL GADSDEN - 1/4 0100 with WAAX Gadsden legal ID→ABC Nx; 1st time hrd on 500-watt night pattern; good→poor over WNNC/KLDD (EB-GA)

580 CKAP ON KAPUSHKASING - 12/20 0559 XLNT with sign-on w/O Canada, anncr w/city mention, address, power of 10/1 Kw→newscast w/top item about US & Panama; a good morning for northern MW DX (MC-ON)

CKPR ON THUNDER BAY - 12/20 0531-0559 with ad for ??? by PeeWee Herman soundalike, anncr with CL IDs and EST TCs; *580 CKPR, the best songs of today & yesterday; POP mx by Leo Sayer, Chicago, Smokey Robinson*, etc; good until CKAP sign-on @ 0559 (MC-ON)

680 WCTT KY CORBIN - 1/3 0051 with C&W mx, CLs, *Country 88 & Country Connection* slogans, sign-off @ 0059; good→fair with WPTF/WODZ (EB-GA)

730 CHYR ON LEAMINGTON - 1/9 0719-0723 poor in computer noise with female anncr, wx, birthday anncts with Leamington, Ontario address, AC mx (DS-WI1)

740 KTRH TX HOUSTON - 12/21 0114 with Houston Rockets b'cast ending, mention of Rockets sesason ticket holders and phone # to call sounded like 627-?600; poor→ with Cuban and another domestic in weakly (MC-ON)

910 WEPG TN SOUTH PITTSBURGH - 12/30 0659 tuned into sign-on annmt, followed by AP Network Nx @ 0700; good signal on a poor morning (KDF-IL)

920 WBAA IN LAFAYETTE - 1/9 0730-0737+ fair→good with NPR talk, ywo *This is WBAA Morning Edition* IDs, Indiana news (DS-WI1)

KDHL MN FARIBAULT - 12/20 0617 w/ad for *Agway Parts*, CST TC, temp of -18, mention of spaghetti dinner at *Basilio's* in Faribault this evening, sports scores mentioning HS BKB game heard last night here on KDHL...; very good (MC-ON)

CJCH NS HALIFAX - 1/6 0057-0101 nicely atop with oldies, ID, *best of the 50s, 60s & today* ID (DX-DE)

930 WRXJ FL JACKSONVILLE - 12/21 0100 with legal ID→satellite-fed ROK, OLD; good→fair with fair stereo over WRRF (EB-GA)

960 WSBT IN SOUTH BEND - 12/4 0700 poor with ID & TC (MS-ON)

1000 WRAR VA TAPPAHANNOCK - 12/30 0715 on w/Jazz mx, AM & FM ID by female, then into local programming (RJV-VA)

1030 WFTK NC WAKE FOREST - 12/4 0740-0800 fair with GOS mx, inspirational talks from RCC Discount Book Store, IDs as *WFTK, the 50,000 watt voice of Christian radio in North Carolina & WFTK Wake Forest-Raleigh-Durham*; unID SS speaker under, possibly KCTA Corpus Christi, TX? (MC-ON)

1160 WKCM KY HAWESVILLE - 12/21 0030 with local promo; poor under Radio Taino (EB-GA)

1180 WJJN IN NEWBURGH - 12/18 0737 with *1180 WJJN* call ID; poor in mush (DS-WI1)

1190 KRDS AZ TOLLESON - 1/7 0828 fair, faded up at end of song, then daily right here on KRDS, then faded (SA-MB)

1200 WOPA IL CHICAGO - 12/25 1740-1745+ good with SS mx, *Radio Exitos* (Hit Radio) jx; 1750 *WOPA 1200 AM, The station you've waited for* (gee, they're writing their slogans for DXers!) in SS; also heard well in Madison around 2000, including legal ID in EE (much weaker during day, difficult to hear in Madison under WMAD splash) (DS-WI1)

1220 WLPO IL LASALLE - 1/6 0104 fair with ad for Ballroom Music pgm, WLPO ID; 1000/500 CP must be on (SA-MB)

CKCW NB MONCTON - 1/6 0130 fair with dual ID for CKCW & CJCW (590), ad, oldies, while looking for WKMT; no WGAR, heavy WCAU splash (DS-DE)

CKCW NB MONCTON - 1/6 0132 good with CKCW *Giant Boom Box* promo; promo for 20-20 weatherline @ 382-2020 @ 0134; ID as: *AM Stereo CKCW Moncton & CJCW(?)*→lite rock; strong at times (PRM-NJ) [Answering your question, Paul...No!-Ed.]

1230 WCMA MS CORINTH - 1/8 0502 briefly atop with program promo including CL mention; probably NSP now (SF-TN)

1240 WIBU WI POYNETTE - 12/30 0802 fair with CLs & it's a couple of minutes past 7 O'Clock; fade up in CHSM splatter; new & WI #67 (SA-MB)

10  
 1250 WTAE PA PITTSBURGH - 1/1 0129 poor with Larry King, ID jx & quickie 1250 WTAE Pittsburgh+MBS Nx (GU-NY)  
 1270 WXYT MI DETROIT - 1/1 0059 fair with Larry King & Michigan State BKB promo; IDd as *The voice of the Spartans*, then *It's one O'Clock*, the call letters to remember: WXYT+NBC Nx (GU-NY)  
 1310 WOKA GA DOUGLAS - 1/2 0651 ending something called Captain Stubbs; legal ID: WOKA AM & FM Douglas, GA+ad for Matthews Furniture; good with WMTG nullid; #50 on 1310 & GA #170 (CR-ON)  
 WFAH OH ALLIANCE - 1/4 0106 out of the nx with temps and non-ID as *Light Hits WFAH+Ambrosia* record; poor with CIWW (Njw-ON)  
 1330 WKDP KY CORBIN - 1/3 0654 just bits & pieces with ad for shoe store in Corbin followed by CL & TC; lost for a couple of minutes but came back with promo for encore presentation of a country countdown of the top hits of the 80s; roughed up pretty bad by WFBC/WEYZ; KY #135 (CR-ON)  
 1340 WDME ME DOVER-FOXCROFT - 1/8 0102-0240 in and out of the mush, virtually certain this was the one with *Black Bears* University HKY thru to post-game show by 0230; sign-off annct @ 0238 mentioned WDME-FM 103.1 and a 1-watt translator at Greenville Airport (RUGG)  
 1350 KSLQ MO WASHINGTON - 12/21 0559 fair with pgm promo, AM-FM ID (though FM isn't listed in my latest FM Atlas); UPI Nx @ 0600; choppy signal thru several others (KDF-IL)  
 1400 KIGO ID ST ANTHONY - 12/30 0835 poor with local ad, then *AM-14 Kee-Go ID*; in a mess; new for ID #13 (SA-MB)  
 KDTA CO DELTA - 12/30 0844 fair with C&W mx, *We're KDTA & we're playing great country music+Sears* ad; new & CO #53 (SA-MB)  
 WATW WI ASHLAND - 12/29 0630 poor with SSB & sign-on; in a real mess; new for WI #66 (SA-MB)  
 CJFP PQ RIVIERE-DU-LOUP - 1/8 0319-0321 in FF, presumably the station, on top, with sports & T&Lmedia Net ID for *Bonjour La Nuit* pgm (RUGG)  
 1410 WZAL GA MC DUNOUGH - 1/2 0800 good with legal ID: *You're listening to 1410, WZAL McDonough, Henry County Radio+NBC Nx*; no sign of usual trio of WING/CKSL/KQV (CR-ON)  
 KQV PA PITTSBURGH - 12/30 0031 easily atop with headline news; local nx & wx preceded (GT-FL)  
 1450 KMRY IA CEDAR RAPIDS - 12/31 0700 poor with *KMRY Cedar Rapids ID*; in a mess, last hrd as KCDR; new for IA #54 (SA-MB)  
 1520 KOMA OK OKLAHOMA CITY - 12/24 0412-0430 w/Christmas mx, CLs often; under WWKB & almost over them! (DT-ON)  
 1550 WAMA FL TAMPA - 12/31 0601 with sign-on announcement in SS[!], prayer, then+local programming; fade under CBE @ 0615; poor+good (RJV-VA)  
 WAMA FL TAMPA - 1/1 Midnight sign-off; totally SS programming included ID (GT-FL)  
 CBE ON WINDSOR - 12/31 0600 on after *O Canada!*, announcement, the CBC Nx (RJV-VA)  
 1560 WFSP WV KINGSWOOD - 12/4 0715 fair with sign-on annct: *This is WFSP in Kingswood, West Virginia returning to the air for another day of broadcasting!*; ment'd XR location, frequency, power of 1 kw & Award-winning news (MS-ON)  
 1580 KNIM MO MARYVILLE - 1/6 0911 fair with ads for Maryville merchants, contest to win tickets for Royals games; wx, TC (SA-MB)  
 1590 WAUB NY AUBURN - 12/24 0403-0408 w/nx, wx, all the state & local nx on WAUB; poor under WAKR (DT-ON)

MIDDAY TO MIDNIGHT



540 WWCN PA CANONSBURG - 12/23 1704 w/female anncr w/wx forecast, legal ID @ 1706: *This is WWCN Canonsburg, AM Stereo 54, we're all classical, all the time*; poor thru CBEF; new, PA #135; finally IDd this one (MC-ON)  
 600 WICC CT BRIDGEPORT - 12/21 1735 w/female anncr w/3-day forecast from your weather station, WICC & CL again; good but much splash from CKEY-590 & KTB-610 (MC-ON)  
 640 WCRV TN COLLIERVILLE - 12/25 1731 good with LONG talk re: power cut @ 1745; WCRV, *Christian radio your family can depend*; call ID+aped REL pgm (DS-WI2)  
 680 KKYX TX SAN ANTONIO - 12/22 2338 noted because slogan was *68 Country, KKYX* but were playing rock oldies; fair level (GT-FL) [That's one of their slogans, but KKYX does NOT play rock. What you heard may have been crossover hits; Bellamy Bros, Glen Campbell, etc. This date they were playing Christmas selections, as I listen to them-Ed.]  
 830 WWMO NC EDEN - 12/14 1850 good with Southern Gospel; 24-hour mention (SF-TN)

880 WBKZ GA JEFFERSON - 12/22 1715 fair at SSS with ad for Normal Hardware; no additional programming discernable (GT-FL)  
 WRFD OH COLUMBUS-WORTHINGTON - 12/19 1629 w/jazzy version of *Silent Night*, ID @ 1630: *We're Ohio's Christmas music station, 880 WRFD+soul version of White Christmas*; XLNT (NC-ON)  
 KIKR TX CONROE - 12/27 1813 with ID; 1st time here since they were a daytimer on 900; fair over/under WCBS/Cuban (SF-TN)  
 920 CJCH NS HALIFAX - 12/26 2150 with ad for New Years Eve party; showing up here quite frequently evenings with C&W mx (HJH-PA1)  
 940 WINZ FL MIAMI - 1/9 1659 poor with wx ✓ & ...right now it's 79° in Ft Lauderdale, 75° in West Palm Beach...all news, all day... WINZ+CBS Nx (GU-NY) (Bill, how long has it been since you've seen 79°, hi) [No joke, we set a record of 85° on 1/11. I LOVE it-Ed.]  
 WMAZ GA MACON - 12/23 1700 w/legal ID @ :00: *This is AM 940 WMAZ Macon, playing the original hits of the 40s, 50s & 60s*; heard tone & stn+ABC Nx, but not sure sure who; good (MC-ON)  
 WECO TN WARTBURG - 12/23 1655 w/male anncr with dual ID: *WECO AM & WECO FM in Wartburg*; also mentioned Univ of Arkansas as, maybe BKB coverage??; poor thru C&W stn; new, another off the target list (MC-ON)  
 950 WWJ MI DETROIT - 12/20 11808-1825 w/nx, local nx; poor over CKBB (DT-ON)  
 980 WTRY NY TROY - 12/20 1900-1905 w/nx, local wx, SID WTRY; phone #478-WTRY; int CHEX; fair (DT-ON)  
 1000 WRNJ NJ HACKETTSTOWN - 12/21 1629-1635 w/end of Christmas mx, CLs, ABC Nx update about U.S.-Panama struggle, then+local nx by female anncr; ad for Kids in Motion activity pgm at Hackettstown Hospital+Tri-County wx forecast & gone @ 1635 on pwr cut or antenna change; was very good w/WLUP nullid (MC-ON)  
 1020 WPEO IL PEORIA - 12/23 1728-1730 w/black man & woman w/possible REL talk; sign-off by female mentioning CLs/city/power; off @ 1730; fair thru KDKA; new, another one I've wanted for years! (MC-ON)  
 1040 WHBO FL PINELLAS PARK - 1/1 1751 with mx by the Four Seasons & female anncr with 1040 WHBO, *Home of the best oldies* & TC; barely audible under Cuba (GU-NY)  
 1060 WNOE LA NEW ORLEANS - 12/23 1718-1725 w/C&W mx, Country Club mention & ID: *For the very best variety of country favorites, Nw Orleans tunes to Country 101, WNOE+song Open All Night*; very good with KYW nullid (MC-ON)  
 1180 WHJM TN KNOXVILLE - 12/21 1728-1730 w/instrumental mx, sign-off annct mentioning 10 kw power and Knoxville, Tennessee ment'd twice, altho not 100% certain of CLs; very poor thru WHAM; new to this log; now 890 my only frequency without multiple loggings (MC-ON)  
 WHJM TN KNOXVILLE - 1/9 1743 with sign-off; gave studio address as 802 South (?) Central Avenue, Downtown Knoxville, no SSB; fair in WHAM nullid (GU-NY)  
 1200 WOAI TX SAN ANTONIO - 12/22 1911 in with newscast, no legal ID but stories ment'd ...he told WOAI... & ...WOAI Newsradio, city hall; good with others; AU conditions this evening (MC-ON)  
 WAGE VA LEESBURG - 1/2 1640 w/ID, Virginia Nx Network sportscast; 1645 McDonalds ad, 1646 promo for Bridal Expo 90 sponsored by WAGE; poor with CFGO (Njw-ON)  
 1250 WYTH GA MADISON - 12/30 1732 ID hrd after MBS Nx on this aural evening; mostly alone with fair signal at times (HJH-PA2)  
 1260 WUFE GA BAXLEY - 12/30 1754 carrying sports pgm; went+local ads with a mention of Baxley; no ID noted (HJH-PA2)  
 1270 WCGC NC BELMONT - 12/20 1700 fair with Christmas mx, *Your Christmas Station ID, PSA, ABC Nx, ID mentioned Belmont & Gastonia*; never hrd at SSS before (KDF-IL)  
 WTJZ VA NEWPORT NEWS - 12/31 1805 ending Mutual Black Nx, then ID; usual WXYT completely absent (HJH-PA2)  
 1310 WTUX IN INDIANAPOLIS - 12/22 1922 w/forecast, ID: *WTUX plays the music you've been waiting to hear for years, the Music of Your Life, 1310 WTUX+instrumental Christmas mx*; good, 1st time heard in ages...used to be a regular as WIFE (MC-ON)  
 WGH VA NEWPORT NEWS - 1/2 1612 w/CNN Nx, 1614 local traffic read by Teresa sponsored by Golf Digest; fair with CIWW (Njw-ON)  
 1320 WATR CT WATERBURY - 12/19 1559 w/legal ID: *5 degrees at 1320 WATR Waterbury, CBS News is next on the hour*; tone & into CBS Nx (true to his word); good, new to log (MC-ON)  
 KSIV MO CLAYTON - 12/18 1700 ending of REL pgm hosted by Dr. James Dobson, ID just snuck thru as *KSIV Clayton-????* & lost in SSS mess; poor; new to log (MC-ON)

WWWT VT RANDOLPH - 12/20 2324 w/CL ID, ...put another log on the fire and happy holidays, with 1320 3WT; good over POP mx stn, no sign of usual pest WJAS; my 1000th USA stn logged; #1242 -total, #6 VT, and 3rd new stn in consecutive days on this frequency!! (MC-ON) [Congrats on all items!-Ed.]

1330 KVOL LA LAFAYETTE - 12/26 2043 nil+fair with ROK Oldies (GT-FL)

WADJ PA SOMERSET - 12/31 1727 out of the mud momentarily with Radio 13 WADJ+CNN Headline Sports (GU-NY)

WHBL WI SHEBOYGAN - 12/19 1640 w/CL ID, CST TC, congratulating Dan Horne, winner of weekly football pool contest (got 13 of 14 correct) who won about \$125 in prizes; promo for free public transit rides sponsored by WHBL (Ride the bus on us); 1330 Radio, WHBL Sheboygan legal ID & fade out by 1643; good (MC-ON)

1350 WHWH NJ PRINCETON - 12/31 1711 poor with NJ Lottery ad & We hope you enjoyed today's Eagles Football game on Sportsradio 1350, WHWH (GU-NY)

1370 WSPD OH TOLEDO - 12/30 2300 with ad for WSPD Mastercard; unusual here anymore (HJH-PA2)

WJWS VA SOUTH HILL - 12/5 1700 fair with sign-off: On behalf of the management and staff of WJWS... reminding listeners to please drive carefully (MS-ON)

1390 KXSS MN WAITE PARK - 12/29 1740 poor with local ads including Tru Value Hardware in Paynesville; electronic dingles between C&W mx; MN #101; ex:KZXO, KRAR (SA-MB)

1410 WING OH DAYTON - 1/4 1810 w/records by the likes of Boxtops, Chuck Berry, & Freddie & The Dreamers; ID: Solid Gold, WING; request line: 457-1410; overridden by WPOP by 1825, by which time I was in Bloomfield (EJ-NJ)

KQV PA PITTSBURGH - 12/30 1947-2000 w/talk show, mention of Pittsburgh Airport, int WDOE; poor (DT-ON)

1450 WMIQ MI IRON MOUNTAIN - 12/29 1912 fair with You're listening to classic hits radio, WMIQ ID by Juice Newton, Oldies mx; new & MI #56, GY #175 (SA-MB)

1480 WCNS PA LATROBE - 12/30 2333 ID, then+ROK OLD (HJH-PA2)

WSAY VA SALEM - 1/6 2035 in loud at times with local ads and Baptist College Buccaneers vs Radford Islanders BKB (HJH-PA1)

1490 WHAV MA HAVERHILL - 1/3 1920 up briefly for a promo of HS BKB coverage (HJH-PA1)

1500 KSTP MN ST PAUL - 12/22 1930 in with annr wishing listeners ...a Merry Christmas from KSTP+Pro Football Today pgm @ 1931; very good, WTOP usually dominant this time of day (MC-ON)

1510 WAQX NY SYRACUSE - 12/31 1647-1700 w/lost & found animals show, wx; poor, suddenly disappeared @ 1700 (change of power/ant; listed as NSP, but also D3 (DT-ON)

1530 WRKT PA NORTH EAST - 12/30 1423-1449 Rocket 101 with female announcer playing ROK OLD by The Beatles, Bob Segar, ELU, & Donnie Iris; poor with WCKY (Njw-DX)

1550 WYNX GA SMYRNA - 12/23 1720-1725 w/Allison for WYNX Radio; Silent Night under CBE/unID; poor (DT-ON)

1560 KLTI MO MACON - 12/21 1700-1705 very poor with ad for a TV & appliance place in downtown Macon; C&W mx; under WQXR (DT-ON)

1570 WFLR NY DUNDEE - 12/21 1700-1705 w/wx, WFLR 5:04; poor under CFOR (DT-ON)

WQTV PA LATROBE - 12/31 1915-1923 w/talk, Steelers score, wx; poor (DT-ON)

1580 KTGR MO COLUMBIA - 12/18 1930-1950+ fair in mess with C&W mx; 1935 TC, 1944 1580 KTGR call ID+wx forecast, then Seattle-L.A. NFL FB on CBS (DS-WI1)

WVOF NC CAMP LE JEUNE-JACKSONVILLE - 12/30 1704 w/ContChr mx, & all-new AM 1580, Eastern Carolina's Christian Connection; off @ 1716 after anmt (RJV-VA)

WVOF NC CAMP LE JEUNE - 12/21 1708-1715 w/REL mx, sign-off; fair over CBJ (DT-ON)

WTTN WI WATERTOWN - 12/22 2224 w/ID that seemed to be Hometown Radio, constant ???, 1580 AM WTTN and into instrumental mx; fair+good, no sign of CBJ! (MC-ON)

1590 WWCC PA HONESDALE - 12/29 1630 fair with Stuck All Over You by the Desert Roses, then a female DJ with non-ID: Your country cousin, WCC & mention of Wayne County; lost suddenly with probable power cut; PA #225 (CR-ON)

WHIM PA MOUNT CARMEL - 12/29 1623 briefly with call ID: AM Stereo 1590, WHIM followed by ad for car parts store ending with ...your Motorcraft headquarters in Mount Carmel; lost to WCBG (CR-ON)

1600 WXXot FL ORLANDO - 12/26 1844 fair with GOS mx; IDs as The Gospel Explosion; wx for Orlando & Space Coast @ 1845; no CLs heard, but presumed the one (GT-FL)

WUNR MA BROOKLINE - 12/21 2350-0012 ment of downtown Brookline & CLs; under WIXY & likely WAAM (DT-ON)

## REPORTERS:

CR-ON CHARLES REH//Leamington, ON//R-390A, Sanserino Loop, Realistic TR-3000 open reel

SA-MB SHAWN AXELROD//Winnipeg, MB//R-70 + 3' loop, 100' LW + Mini Tun-3

GT-FL GERRY THOMAS//Pensacola, FL//R70 + Superloop

RJV-VA BOB VANCE//Ft Belvoir, VA//R-390A

EJ-NJ ED JANUSZ//On the road in Elmwood Park, NJ//'85 Reliant w/Gulf Regular

EB-GA ERIC BUENEMAN//Woodstock, GA//DX-200, TM-152, SM-2

MC-ON MIKE CSORBAY//Canfield, ON//ICF-2010, Palomar Loop/gold printer ribbon

DS-DE DAVE SCHMIDT//New Castle, DE//Superadio, R390A + loop

DT-ON DON TRELFOED//Scarborough, ON//DX-440 + LW

PRM-NJ PAUL MOUNT//Teaneck, NJ//TRF 12-655

SF-TN STEVE FRANCIS//Alcoa, TN//TRF

PC-VA PERRY BRABILL, JR//Winchester, VA//R-5000 + 65' L-antenna

KDF-IL KARL FORTH//Chicago, IL//HQ-160, IC-R70

RUGG-PQ ANDY RUGG//Nuns' Island, PQ//R-390A + LW//PM:1/8//Rec'd:1/12

STARR JERRY STARR//Hubbard, OH//HQ-180A, 4' loop, LW assortment, inverted L's, 75' vertical

MUSCO RON MUSCO//Poquonock, CT//

DS-WI1 DOUG SMITH//Madison, WI//Sony Superradio II barefoot (SONY Superradio II??-EdJ)

DS-WI2 DOUG SMITH//Menomonee Falls, WI//Kenwood TS-4305 + ham trap vertical

GU-NY GUIDO URZI//Mastic Beach, NY//R-5000 + Palomar Loop

BH-NJ BOB HARRISON//Union, NJ//GE Superadio

Njw-ON NIEL WOLFISH//Willowdale, ON//ICF-2010 + broken SM-2

Njw-DX NIEL WOLFISH//Dunedin, ON//ICOM R71A, beverages, diet Coke, mineral water, submarine sandwiches

HJH-PA1 HARRY HAYES//Wilkes-Barre, PA//Superadio + Superloop

HJH-PA2 HARRY HAYES//Thornhurst, PA//Superadio

## GRAVEYARD DX ACHIEVEMENTS UPDATE (all new records)

1230:

WJBB AL Haleyville	Steve Francis	Alcoa, TN	232
WTCJ IN Tell City	Steve Francis	Alcoa	210
WITH MD Baltimore	Steve Francis	Alcoa	464
WSKY NC Asheville	Steve Francis	Alcoa	84
WAIM SC Anderson	Steve Francis	Alcoa	112
WKCE TN Harriman	Steve Francis	Alcoa	52
WAMM VA Woodstock	Steve Francis	Alcoa	365

## SOME ABBREVIATIONS &amp; SPECIAL SYMBOLS USED IN DDXD-E

TTtest tones OCopen carrier TCtime check RSregular schedule QRNinterference QTHlocation  
 SIDSinging ID CIDcode ID Jxjingle mxmusic nxnews wxweather SSBStar Spangled Banner LSR  
 local sunrise SRSsunrise skip LSSlocal sunset SSSsunset skip PSRA: Pre-Sunrise Authority  
 PSSA:Post-Sunset Authority HShigh school FBfootball BBbaseball HKVhockey BKBbasketball :OO  
 on the hour Hparallel with +to or into \$stereo SSspanish FFfrench EEEnglish POLpolitical  
 GOSgospel RELreligion or religious ACadual contemporary BBDbig band OLDoldies ROKrock 'n'  
 roll CHRcontemporary hit radio ContChrcontemporary Christian C&Wcountry & western EZLeasy  
 Listening UCurban contemporary APAssociated Press Radio UPIUnited Press International MBS  
 Mutual Broadcasting System USRNUnited Stns Radio Net NPR: National Public Radio IRN:Interstate  
 Radio Net

Need to renew? Expired? The mailing label will tell you.

73 Bill

## Facts About NRC's DX Audio Service

The DX Audio Service, now in its third year of operation, provides the ONLY monthly broadcast news cassette service to the DX community.

The DX Audio Service, available to anyone anywhere, is designed to inform the radio listener in a way that is pleasing and informative. Many of the announcers on the service are professional broadcasters giving their free time to give the listener the finest service available.

DXAS was started to provide broadcast information, both AM and FM to the blind DX listener. It has evolved into a service which provides useful material to all types of listeners. Many of our subscribers listen to the tape to and from their place of work while driving down the road.

One-year subscription, subscriber keeps the cassette each month: \$25

One-year subscription, subscriber returns the cassette each month by the 18th of the month for reduplication: \$12  
 Sample copy, back issues of DXAS: \$3

Cassettes are mailed by First Class mail, on or about the 20th of the month. Information, subscriptions, renewals, sample copies: write to NRC DX Audio Service - P. O. Box 24 - Cambridge, WI 53523-0024. For back issues: NRC Publications Center.

# Domestic DX Digest - West

**Wayne Heinen**  
4131 S. Andes Way  
Aurora, CO 80013  
(303) 699-6335 (prepaid only)  
DX Catches in the Western U. S. and Canada, with 24-hr. ELT

## DX TESTS!

1120 WADN MA Concord  
1/8 0215-0216 Taped code ID in Null/Fade of KMOX. Partially intelligible and a taped report off to Michael Kline. MA #2. (WH-CO)

## SPECIAL!

1440 KPUR TX Amarillo  
12/27 2154 Latin Pop & Ranchera Mx, 2201 EE/SS legal ID "Estereo catorce cuarenta" (Stereo 1440) w/ more Mx & dedications in SS. Apparent format change from T-40. (0W-CO)

1590 KDLB OK Henryetta  
Possibly SILENT. Report returned by PO "Box Closed Out of Business, No Forwarding Order". Call to Phone company showed no listing for KDLB. (0W-CO)

## Midnight to Midday!

1370 KXTL MT Butte  
0430 1/8 Noted w/ Best of King, SID & Mutual Mx o/u KSOP w/C&W while looking for WMNY. (WH-CO)

1400 KTMC OK McAlester  
1/2 0109 Tail end of s/off by man "...Clay Communications Inc. and is authorised to operate on the assigned frequency of 1400 kHz with a power of 1000 watts unlimited hours..." Instrumental SSB OK#37 (0W-CO)

1450 KUUB MT Bozeman  
1/11 0230 "KUUB, Bozeman with the latest news & Information and live via satellite here's Mutual News" MBS Nx. (0W-CO)

1480 KKCQ MN Fosston  
12/27 0943 Lcl spots w/ ments of Fosston. CST TC, and temp "At North Country radio we have 21 degrees" Male/Female ann's lost to QRM. (0W-CO)

1480 KGCX MT Sidney  
12/27 1005 Ann Mark Roberts w/ MT & ND Nx; Wx Williston ND & Sidney, MOR Mx @ 1008. Mixing w/KRAE,KLMS,KHQ. (0W-CO)

## Midday to Midnight!

1230 KEXO CO Grand Junction  
12/29 2257 End of Tom Snyder show, ID 2300 "From Western Colorado's Original Oldies station AM 1230 KEXO, Grand Junction" ABC Nx Fair (0W-CO)

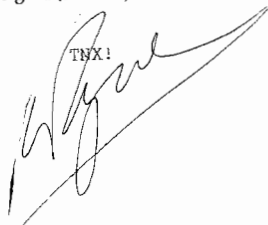
1460 KTLK TX Lubbock  
1/3 1801 Canned ID "Lubbock's original Tejano Station, 1460 KTLK" then Latin Mx w/ female DJ SS/EE announcements. Canned EE slogan for each song Fair signal (0W-CO)

## CONTRIBUTORS!

(0W-CO) John Wilkins Wheat Thin, CO <  
>R-1000, 2'6" loop  
(WH-CO) Wayne Heinen Aurora, CO <  
>R-390A, RW-TRF-655, 4' NRC loop

**Kline**  
AM 1140

THX!



# Formats

**Tony Fitzherbert**  
356 Jackman Avenue  
Fairfield, CT 06430

Changes in programming status; reported by NRC members and others

Happy New Year! We have a new source of formats for our column! Geov Parrish, of IRCA and I are exchanging columns, so we will have a Formats column again! Geov is a bit of an "information fanatic" and he noted that I goofed in the last column!! WBIV is, of course, on 1060, NOT 1160! Mia culpa! This column is, for the most part from Geov, and I have added some other items, heard on trips back and forth to Beantown.

How the AM Dial has sub-specialized! In looking at AM's serving the inner Boston suburbs, it is interesting how some local full service voices now neither offer anything resembling full service, nor do they serve the majority of the population of their city of license. Cases in point...WNTN-1550 went on the air in the late 60's to serve the city of Newton...it is brokered ethnic now. WCRB-1330 was on the air 35 years ago in Waltham (it was a fine arts station), and it now is WRCA, a combination of show tunes and sports. WGTR-1060 began operations at least 15 years ago as a full service 1000 watt daytimer to Natick and Wellesley, and it now is all ethnic, and is WBIV - and you will not even hear a Natick High sports score on the station!!! WKOX-1190 moved to 1200, increased power, and is now the full service voice for the whole area. WJDA-1300, Quincy and WESX, owned by the same people, are still very good full service profit centers for the South and North Shores respectively. WMBO-1570, Beverly began operations 15 years ago as full service to Beverly and Danvers, and now is sort of an A/C outlet, as WNSH for "North Shore Hits". WCAS-740, Cambridge served Watertown, Cambridge, Arlington, Somerville (included in the call) plus Belmont, 30 years ago, (with all news for a while), and it then went oldies, folk music, and AOR, before it became WLVG, a Black gospel station. WLYN-1360 was the voice of that 100,000 population city, plus Saugus and Marblehead, for decades, before it became an AOR station, with its FM. Today, it is WNSR, and I believe is still brokered ethnic programming. The jewel in the suburban AM crown is new WADN-Concord which programs folk music to Boston plus the western suburbs...and is the most interesting and enjoyable station of the group (and most informative if you listen to the CBC-BBC feed).

The formats (and get yours in, too!!)...

**WGOW**  
NEWS/TALK 1150

560 WEBC MN DULUTH - is now all talk (GP).  
570 KLDL TX DALLAS - is now "Warm" Ac//FM (GP)  
590 KID ID IDAHO FALLS - talk (GP).  
610 KSPN CO VAIL - was silent, and is back with tourist and travel info.(GP).  
680 KNBR CA SAN FRANCISCO - is now all talk.(GP).  
690 WADS CT ANSONIA - drops Spanish // of 1490 West Springfield for NOS, MYL, and lots of Naugatuck Valley news, sports, and info, still some ethnic on weekends (TF).  
700 WCAT MA ORANGE - now SMN "Heat" CHR(GP).  
760 WENO TN NASHVILLE - new station, religion (GP).  
770 WAIS OH BUCHTEL - SMN adult standards(GP).  
780 WPTN TN COOKVILLE - is rock oldies (GP).  
810 WCTA TN ALAMO - is easy listening with its FM (GP).  
950 WJPC IL CHICAGO - this long time Black AC station has been sold, and will try to excite Chicago with my favorite (ecth!!) format, motivational talk (Ye editor, from GP).  
960 KABL CA OAKLAND - All vocal EZL//FM (GP).  
1040 KCBR CO MONUMENT - was KKRE, religion, now to be "Colorado Business Radio"(GP).  
1050 KFVR WA DISHMAN - Drake soft AC (GP).  
1120 WDFV VA DUFFIELD - new, bluegrass music(GP). Subdivison of CWM (TF).  
1130 KLKY AZ PRESCOTT - now Drake soft AC (GP).  
1130 WAMG TN GALLATIN - 50's and 60's rock music (GP).

## The Broadcaster's Guide to DX

A tri-fold guide for use with reception reports explaining DX'ing, how the NRC was formed, and the importance of QSL's to DX'ers. Versions also available in Spanish and French. US\$1.50 for 20. Available from the Pub Center.

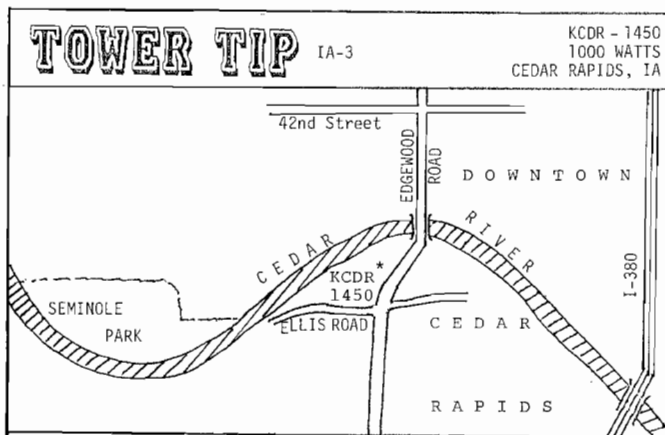


- 1170 WJCC MA Norfolk - easy listening music, Mutual net, lots of local news for towns whose stations have gone to other formats (TF).
- 1190 WHUM PA HUGHESVILLE - drops CWM for BRN Business news (GP).
- 1200 KYOO MO BOLIVAR - News/talk/variety (GP).
- 1230 WTKX FL PENSACOLA - was WBOP, Black, now "progressive rock" (from GP).
- 1240 WDNE WV ELKINS - is CWM //FM(GP).
- 1250 WNVL KY NICHOLASVILLE - Drake CWM (GP).
- 1270 WILE OH CAMBRIDGE - is Unis. adults standards (GP).
- 1280 WYSY IL AURORA - AC//FM(GP).
- 1290 KIIN AZ TUCSON - Ex-WCUB, now CWM//FM(GP).
- 1310 KIOT CA BARSTOW - Silent pending sale (GP).
- 1310 WICH CT NORWICH - Rock oldies (TF).
- 1310 WORC MA WORCESTER - Rock oldies (GP).
- 1340 WBLB VA PULASKI - Now Religion(GP).
- 1350 WGAD AL GADSDEN - Unis. AC (GP).
- 1350 WBSK VA PORTSMOUTH - Was WRAP, is Black AC (GP).
- 1360 KASH CA MODESTO - Dropped Money Radio for news/talk Unis News. (GP).
- 1370 KFON TX ROLLINGWOOD - ABC Talk, BRN Business news (G).
- 1380 KIPQ HI PEARL CITY - Was silent, to be non-commercial variety (GP).
- 1380 WMP5 TN MILLINGTON - Contemporary Religion (GP).
- 1390 WNLF MI CHARLOTTE - Drops Rel., CWM (GP).
- 1400 WELL MI BATTLE CREEK - Now SMN adult standards (GP).
- 1400 KGBX MO SPRINGFIELD - Now AC/oldies //FM (GP).
- 1440 WBCM MI BAY CITY - Unis. CWM (GP).
- 1450 WSRZ FL SARASOTA - SMN "Pure Gold" Oldies (GP).
- 1470 WOJY PA FARRELL - Now easy listening "Joy"//FM (GP).
- 1480 WJLE TN SMITHVILLE - Gospel//FM (GP).
- 1490 WXLS TN CHATTANOOGA - CWM Oldies (GP).
- 1510 WINU IL HIGHLAND - Adult standards (GP).
- 1510 KIDZ MO INDEPENDENCE - was silent, to come back with syndicated children's format (GP).
- 1560 WSQR IL SYCAMORE - Rock oldies (GP).
- 1580 WMRE TN KNOXVILLE - Silent, pending sale (GP).
- 1580 WPUV VA PULASKI - Bluegrass music (GP).
- 1590 WWRP TN ALGOOD - RELIGION (GP).

**WQAM**  
56 COUNTRY

All for this time. With a great deal of thanks to Geov Parrish, we have a good column. For the rest of you, get those formats in so that the rest of the NRC readership may be edified (Hi!).

73's *[Signature]*



WHAT TO LOOK FOR: A single short tower just off Edgewood Road.

CONTRIBUTED BY: Doug Beard, Springville, IA

Send information about a.m. radio towers in your area to John D. Bowker 14 Canoe Brook Drive, Princeton Jct., NJ 08550. Provide a simple sketch, please. Bowker will redraw the map for DX NEWS.

## The Answer Man R. J. Edmunds

"No Question Is A Dumb Question"

753 Valley Road  
Blue Bell, PA 19422-2052

Answers to members' questions, from the basic to the technical

Happy 1990! Of course, I could have said that last column, and it would have been when you read it, but now it is even as I write it, hi. I would like to ask that you not use the words "The Answer Man" or "NRC Answer Man" or the like on the envelopes of your letters for the column. That's just the name of the column, and the postman gets a bit confused by it. Also, please remember that this is a voluntary thing, and that I can't provide an instant response in all cases, even if I don't have to research the answers. If you want an answer quickly, and before the column hits print, please include an SASE, and I'll photocopy that portion of the column which includes your material and send it back. Even at that, though, it must wait until I'm ready to do another column -- you may have just missed the last one. Okay, that out of the way, let's get on with regularness:

**QUESTION:** What is the significance of the "K" and "W" prefixes for station calls in the U. S. ?

**ANSWER:** Well, I don't rightly remember, as it happened before my time, but the answer originates in call-sign allocations by the initial multinational radio treaty when most radio was either government or amateur. All countries (at the time, which was pre-1920) were assigned alpha or alphanumeric prefixes, and somehow or other we got K, W, and parts of N, and A. N has been primarily used for military until about 12 or so years ago, when it was opened up for amateur use. A continues to be used mostly by government, although it was used for bicentennial commemorative amateur calls during 1976-77. It could be far worse, for example, Israel, which wasn't a country until 1948, has the prefix "4X".

**QUESTION:** What is the significance and history of the directional antenna designations used in the log ?

**ANSWER:** Aha! Another long ago and far away question, hi. In the beginning, of course, antennas were whatever worked. A single vertical antenna was, by default, nondirectional. A lone horizontal antenna was directional, and the only designations needed were v and h, but that was before the log. When we hobby-type folks first started keeping track of such things, we adopted FCC designations for daytime, nighttime, and unlimited-hours operations of D-, N-, and U-. The numerics were simple: a 1 meant nondirectional, a 3 meant directional day only, a 2 meant directional night only, and a 4 meant directional both day and night. A little later, 4 was amended to mean using the same pattern, and 5 was added to cover different patterns. When presunrise authority came upon us, all of the other combinations were born.

**QUESTION:** What kind of wire is best for a random length longwire -- solid, stranded, shielded, insulated ? What is the best way to hang one ?

**ANSWER:** That may depend somewhat on your situation. A wire under 25 or 30 feet will be fine with whatever is available, assuming that it's erected high enough to avoid being a tripping hazard. For a longer wire, most DX'ers prefer stranded antenna cable, of at least one eighth inch in diameter. This provides strength, and a greater surface area for reception. Shielded wire doesn't offer anything to the antenna, only as a lead-in. If used, all conductors and the shield should be tied firmly together. Plastic insulation is optional, and it tends to limit availability and increase cost on larger-diameter stranded stock.

As to mounting, I would recommend the use of ceramic egg-type insulators to electrically separate the antenna from the mount. If you're in a wind and/or ice prone location, old-fashioned screen-door springs (the kind used for the old wooden frame screen doors, not the high-tension kind now in use) between the mounting point and the egg insulator will reduce the likelihood of breakage. If you're mounting to a structure, a heavy eye hook into a solid area is good. If you're using a tree, use a loop of wire up to 50% larger than the tree diameter at that point, and try to position it where a branch grows out, with the loop above the branch. Before tying it off, run the wire through an appropriate length scrap of rubber garden hose

to protect the tree from damage. Finally, use an approved lightning arrester to direct lightning surges to an exterior ground.

**QUESTION:** How much help is an external antenna tuner for BCB when used with a communications receiver having internal antenna tuning?

**ANSWER:** Quite a bit. So much so that I've never used that combination without an external tuner. I've also always built my own. (Refer to the article in the NRC Antenna Reference Manual, Vol. 1). The more stages of antenna tuning, within reason, the better. The nominal cost of building one will be more than offset by enhanced performance. You won't be able to tune out strong locals with it, but you will be able to peak up marginal signals quite nicely.

**QUESTION:** How frequently should tubes be checked or changed on a communications receiver? What else should be checked regularly?

**ANSWER:** I would check the tubes at least once a year. Pay particular attention to the rectifier, power amplifier, and detectors, as they tend to wear the most quickly. Any tube which tests out as borderline or below, or which demonstrates a consistent "leak" on a tube tester should be replaced. You may not notice any obvious change, but it can mean the difference between catching a weak one or not later on.

Check all transformers and tubular capacitors visually for signs of leakage at the same time as you check your tubes. At the same time, either vacuuming or blowing out the dust underneath the chassis and in and around the plates of tuning capacitors would also be helpful.

**QUESTION:** When I'm trying to tape my DX, I get a funny buzzing sound in the audio. What's happening here?

**ANSWER:** Probably a case of a "floating ground". Unless all of your equipment is solidly and electrically grounded by a ground bus to a common point, you may have the receiver, antenna, taper, and any other electrical accessories all at different grounds, and the difference between them can create this effect. This is especially prevalent when you have homebrew connection or control boxes in line with the audio. I had one case where I ultimately had to totally isolate the aluminum box into which I'd built the connections and switches for my audio filters, tape, speaker/phones from any other ground using rubber grommets so that the box itself was nowhere in circuit. If you suspect this is an issue, first try connecting things without the box. If the problem goes away, that's the answer. If it's not possible to use a common bus for ground, you could try tying the recorder and receiver grounds together, if you can get at the recorder ground. Before doing that, though, use a voltmeter on a very low scale to try to measure any differential to prevent a shock hazard or possible equipment damage. If you're using a small portable cassette recorder, you probably won't get rid of the problem that way.

That should do it for this time -- I do have other questions still in the research stages. 73's

*JK*

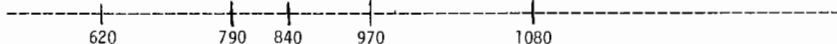
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## CITY QUIZ

John S. Bowker, Valparaiso, IN

QUIZ # 47

Only one city in the United States has stations operating at the five dial positions shown below. Of course, there may be other stations in this city too! Can you spot the city?



Here is a hint; it is one of these: Louisville, Hartford-New Britain, Mobile. (The answer will appear at the end of the next City Quiz in DX News.)  
The answer to City Quiz # 46 Fort Worth

## Add a Q-Multiplier, SB-620 to the R-390A ... by Wayne Heinen

Many articles were written in the late 1960's and early 1970's concerning the use of narrow mechanical filters (4). Q-Multipliers and Heathkit SB-620 Scanalyzer's (1) for single side band exulted carrier reception (2) and detection of sub-audible heterodynes (3). The majority of these articles dealt with the venerable HQ-180A and HQ-150 Rx's. (4)

Ever since I acquired my R-390A in 1983, I have wanted to install a Q-Multiplier. The best place for a Q-Multiplier is at the plate of the last (455kHz) mixer (Pin 1 V204). This tube is located in a very difficult place to access on the rear of the RF Chassis section.

I have experimented in the past with connecting a Q-Multiplier to the plate of the 1st IF section. This worked but, seemed to produce a degraded signal. Apparently, there was detuning action between the Q-Multiplier and the IF strip. Since the 390A's IF transformers are sealed and stagger tuned to obtain the best possible performance from the mechanical filters, I decided not to mess with them.

I recently acquired a Steve Bohac modified HQ-180A that included, among other goodies, a Heathkit SB-620 Scanalyzer. This device will yield the best results when connected to the 455 kHz mixer. In order to play with this new toy, I had to take a serious look at making some sort of connection to good ol' Pin 1 of V204.

The solution to the problem turned out to be extremely simple. If your R-390A has a cover over the RF Chassis, simply remove it and put a 7 pin miniature test socket between the 6C4 and the chassis tube socket. This supplies an easy solder connection at Pin 1.

My R390A is housed in a custom 19" rack mount style cabinet with a opening 16" high. (I found this at a used equipment place in Englewood and traded my original R-390A cabinet for it, I haven't seen another like it.) This cabinet holds both the R-390A and my CV-591 SSB adapter. I had removed my RF chassis cover when I installed both units in the cabinet. There are 40 tubes between the two rigs and they generate a lot of heat. I have never noticed any degradation of the R-390A's performance with the cover removed.

I experimented with the value ranges of capacitance listed in the Scanalyzer's manual for commercial receivers and found that a 7pf capacitor gave the best overall performance with the R-390A.

The 7pf capacitor was mounted directly to the center lug of a BNC jack for the Scanalyzer. I noticed no difference in the operation of the Q-Multiplier with the additional small capacitance in this portion of the line.

I completed the project by mounting a small brass plate at the rear of the cabinet and installing three BNC chassis mount jacks. The two Q-Multiplier jacks are tied together on the receiver side of the 7pf capacitor and connected to Pin 1 of the test socket mounted at V204 with an 18" piece of RG-174/U coax. This allows the receiver to slide completely out of the cabinet for maintenance and periodic cleaning. The ground connection was made to the brass plate with a lug to the screw that holds the plate in place. The ground at the receiver connection was secured with a lug to the screw just to the right and behind V204. This is one of the mounting screws for the RF Chassis cover. With the connections made and all the accessories plugged in and turned on, a slight adjustment was required to T208 to peak it.

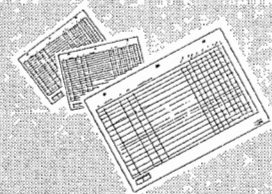
I am currently using two Heathkit Q-multipliers, one as a notch and the other as a peak along with the SB-620. The video display has helped me to slide the notch on top of an offending het and place the peak where it belongs in order to use the 2 kHz mechanical filter in the R-390A with effectiveness. It has helped make the routine splits more readable and assisted in working on some muddy channels where suspected Mexicans have been slightly off frequency.

Notes:

- (1) NRC Reprint R15 Review of the Heathkit SB-620 by Robert Foxworth. (Non Member Price: \$6.40)
- (2) NRC reprint R2-SSB reception on BCB w/ Mechanical Filters by Gordon Nelson. (Non Member Price: \$ 4.20)
- (3) NRC Reprint R3- Sub- Audible Heterodynes on BCB by Gordon Nelson. (Non Member Price: \$ 1.70)
- (4) Catalog with numerous other reprints available from NRC Pub Center, BOX 164, Mannsville, NY 13661 for US \$1.00.

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## AM RADIO IN HIGH FIDELITY

by  
John D. Bowker

AM radio stations don't sound as good as FM stations. It's funny, isn't it, that so much money is spent by AM broadcasters on stereo, expensive microphones, complicated antenna systems and goodness knows what else, and yet they just don't sound as good as the low cost FM stations. Is the difference because FM is received in stereo? Well, maybe that contributes a little, but let's face it. Stereo wouldn't make up all of the difference between the two sounds. AM sounds are muffled compared to FM.

Here's why. An AM radio signal is made up of three parts. There is the "carrier wave". This wave is a pure frequency transmitted on the assigned channel of the AM station (that is, the carrier wave of WGN is on a frequency of 720,000 cycles-per-second, better known as 720 kilohertz). But the only time WGN transmits only its carrier is when there is no sound being transmitted. As soon as any sound (audio) is sent out the frequency of the sound is transmitted right along with the carrier. For example, when the 800 Hertz tone signal is transmitted, WGN puts out three signals, the carrier and two sidebands. One sideband is a frequency just 800 Hertz above the WGN carrier and the other sideband is a frequency just below the WGN carrier. Thus, the three signals in this case would be the carrier at 720 kHz, the upper sideband at 720.8 kHz and the lower sideband at 719.2 kHz. When WTOP broadcasts the same time signal, it transmits its 1500 kHz carrier, an upper sideband of 1500.8 kHz and a lower sideband of 1499.2 kHz. And, of course, all stations operate the same way, so you can do the arithmetic for stations in your area.

Now, most audio consists of voice or music. The frequency range with all the overtones ranges from about 40 Hertz to maybe 10,000 Hertz. An AM station can accurately transmit these frequencies about the same as an FM station and most AM stations do! This means that KMOX will be transmitting frequencies ranging from the lowest of the lower sideband to the highest of the upper sideband. This works out to 1120-10 kHz to 1120+10 kHz; thus KMOX covers the radio spectrum from 1110 to 1130 kHz. This explains why our St. Louis readers have trouble tuning in to KFAB at 1110, or KWKH at 1130 kHz.

Can the AM broadcasters do this legally? Sure! FCC Rule Section 73.44 currently places limits on the emissions starting at 10,200 Hertz (10.2 kHz) going out to 30,000 Hertz. At one time stations such as WABC and WNBC in New York were transmitting audio out to over 20,000 Hertz, and many stations still put out a relatively wideband signal. The National Radio Standards Committee (NRSC) is now asking for FCC rules to narrow this range a bit but still to allow plenty of bandwidth for excellent sound quality by AM stations.

So the radio receiver manufacturers look at all this data and have to balance the amount of selectivity they build into the radio versus the amount of high fidelity they allow for the audio. If they design the radio with "wide-band" circuits from the antenna to the loudspeaker, the AM radio will sound terrific on local stations. But if you live 20 miles out of town or more you'll probably not be able to receive any clear stations! This is because the radio will be receiving a lesser amount of radio signal from the station you want to hear as you move out of town. When you increase the sound to hear it better, a more distant station assigned to the adjacent frequency will also get louder on your radio. However, if the radio is designed for narrower-band operation, the chance of another station giving interference is much less. In fact, if the radio is designed to pass only 5,000 Hertz, there will rarely be any interference from stations on adjacent channels. How will the radio sound? I suggest you answer that question by turning on just about any AM radio in your house! My guess is that it has a 5,000 Hertz passband. So the muffled sound is most often a function of the receiver, not the broadcast station.

Of course, the regulators have long since recognized that a 5,000 Hertz audio fidelity is really not very good, so they overcome the major problems by spreading out stations on adjacent frequencies to cities some distance apart. It is the author's view, therefore, that most present-day AM radios could be built with better fidelity but the wider bandwidth circuits cost a bit more, and the radio audience isn't complaining with a unified voice, and the sales of radios are very price sensitive, and we have grown used to the poor quality over many years. The result is that AM radio has come to mean muffled and lack-lustre sound.

But just wait! If all of the new NRSC recommendations are implemented and more than just one or two radio receiver manufacturers build a better radio, we'll all be in for a treat maybe about the time AM stations start appearing on the new AM channels just above 1600 kHz, and that could come in the early 1990s.

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# Sports Networks

**Barry S. Finkel**

10314 S. Oakley  
Chicago, IL 60643

Network listings for stations programming team sports

First - as many of you know, the Metropolitan Opera, while very professional, is not associated with sports. I happen to enjoy opera, and I had a listing of their radio network. So I sent it in without an accompanying sports column. Now for this column, which comes in its entirety from Ken Ouyshuk, who was very busy at the Chicago Public Library "warehouse" downtown.

NBA - Atlanta Hawks are on W651 at 640 on the dial, not 920 as listed previously.  
New Jersey Nets are on 1050 WLVD, not 1130 WNJW; this is per "Long Island Newsday"

#### Continental Basketball Association

Columbus Horizon	1230 WCOL OH
Quad Cities Thunder	1230 WMBZ IL
Rockford Lightning	1440 WROR IL
San Jose	1500 ESJX CA
Tulsa Fast Breakers	1270 KWPB OK
Sioux Falls Sky Force	1140 K500 SD
Pensacola	
Grand Rapids	
Omaha Racers	
Topeka Sizzlers	1430 W114
Santa Barbara	
Wichita Falls	

#### American Indoor Soccer Association

Canton	
Hershey	
Atlanta	105.7 -GA
Memphis Rogues	1430 WDBZ-TN
Milwaukee Wave	1340 WLZR-WI
Chicago Power	92.7 WGBR-IL
Indiana Kicks	
Dayton	

#### Major Indoor Soccer League

Baltimore Blast	600 WCAO-MD
Wichita Kings	1240 KSZN-KS **
Cleveland Crunch	1300 WERE-OH
Kansas City Comets	980 KMBZ-KS
Dallas Sidekicks	570 KLDD-TX
San Diego Sockers	690 XETRA-BC
Tacoma	
St. Louis Storm	1430 W11 -MO
** Kings also on 1260 KWHK-KS and 1550 K1NO-KS	

STEREO



#### NBA Orlando Magic Dave Steele

740 WWNZ-FL	1230 W5BB-FL	1290 WTMC-FL	1400 WNSI-FL	1490 WXVQ-FL
1150 WNDP-FL	WG6G-FL	1350 WLRQ-FL	1490 WS1R-FL	

#### NBA Minnesota Timberwolves Kevin Harlan (per Bill Moser)

730 KWOA-MN	920 KDHL-MN	1230 KWNO-MN	1380 KLIZ-MN	1450 KBMW-ND	1480 KKCC-MN
790 KFGO-ND	1060 KFIL-MN	1320 WNFQ-MN	1390 KRFO-MN	1460 KKAQ-MN	1600 KLLR-MN
860 WNUJ-MN	1130 WDBY-MN	1340 KRCC-MN	1400 KMHL-MN	1480 KAUS-MN	

Finally, Eric Norberg writes with a correction and addendum to the Metropolitan Opera list. 1550 in San Francisco is KKHI, not the typo I keyed. In Corvallis, Oregon there are two stations that carry the broadcasts - 550 KOAC as well as the previously listed 1450 KBPS.

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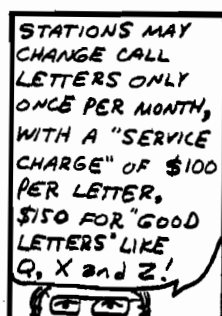
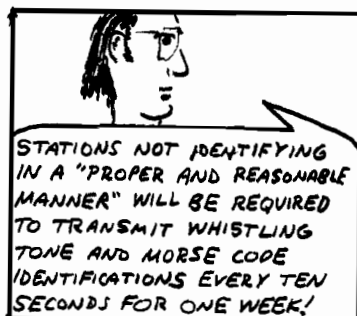
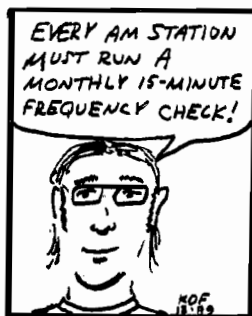
	A	B	C	D	E	F	G	H	I
Robert Kramer, Chicago, IL	4190	1575	235	2	19	0	1	0	1
Rick Dau, Oakland, IA	3309	1194	107	7	82	1	0	0	0
Robert Vance, Ft. Belvoir	1890	1070	15	6	52	0	0	0	0
Dave Johnson, Gainesville, FL	1105	665	0	2	39	0	0	0	0
Nancy Hardy, Aberdeen, WA	788	743	2	1	0	0	0	0	0
Dave Hascall, Portville, IN	659	289	8	1	24	1	0	0	0
Bill Hardy, Aberdeen, WA	273	228	1	1	1	0	0	0	0
Dale Park, nr Honolulu, HI	166	106	5	0	1	0	0	0	0
Mike Hogan, Burnham, IL	0	0	0	0	0	0	0	0	0

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SECOND REPORT OF NEW STATION: KCCV-760 KS RK-IL

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