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WESTINGHOUSE BROADCASTING COMPANY

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radio capital

WLS MUSICRADIO 89 abc

1090 AM
WILD JAMS

WFEA
AM 1370
Great Songs. Great Memories.

TRADITIONAL
COUNTRY

REAL COUNTRY

WHVW
950 AM

WGN



WLNH
AM/FM

61 WGIR
NEWS/TALK



FOXY 1040

UPSTATE NEW YORK
WACK
AP & ABC

1320 AM
WIDED
CHRISTIAN RADIO
WVLE
BAC 94

NATIONAL
1994
CONVENTION
NASHUA-MANCHESTER, NH
Program Book

RADIO CLUB

SPORTS RADIO WEEI
590 AM BOSTON

WBBM Newsradio 78 920 WHJJ

KZMX
Radio for the Southern Hills
580 AM - 96.7 FM

WHOT

WNRK
1260 AM

WMVU

W. K. A. A.
9-C. N. F.

WSCR RADIO

WSYB
RUTLAND VERMONT

YOUR COUNTRY MUSIC
VOICE IN NASHUA!
WSMN
AM 1590

NEWSTALK
630
KIDO

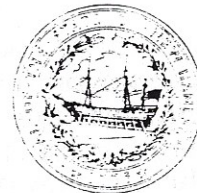
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STATE OF NEW HAMPSHIRE

OFFICE OF THE GOVERNOR



STEPHEN MERRILL
GOVERNOR

September 2, 1994

National Radio Club
c/o Mr. Bruce A. Conti
46 Ridgefield Drive
Nashua, NH 03062-1174

Dear National Radio Club Members:

As Governor of the State of New Hampshire, I would like to extend my personal best wishes regarding the National Radio Club's annual Labor Day weekend convention, which is being held for the first time in the State of New Hampshire.

Whether you are a frequent visitor to New Hampshire or planning your first visit, the State of New Hampshire welcomes you and we hope that you enjoy your visit as much as we enjoy having you here.

Again, welcome and may God bless you.

Very truly yours,

A handwritten signature in cursive script that reads "Stephen Merrill".

Stephen Merrill
Governor

SM/pm

All NRC Convention Attendees:

Welcome to the 1994 National Radio Club Convention. Several activities are scheduled for Friday, Saturday, and Sunday. See the program of events for more details. The hospitality room will be open until midnight on Friday, Saturday, and Sunday, as an informal meeting place, with complimentary beer, soda, and snacks available. Bill Hale has put together a complete set of Graveyard DX Achievements which is on display in the hospitality room.

You have in your hands a piece of Boston radio history. In TV-land, CBS has made an affiliation deal with Westinghouse, which will result in CBS moving to WBZ and NBC moving to WHDH. Meanwhile, another big change which should have taken place by the time you read this involves *Sportsradio* WEEI moving from 590 to 850, and new station *Business 590* WBNW appearing at 590 with Bloomberg programming. WHDH radio will no longer exist, with Rush Limbaugh and Howie Carr moving to WRKO-680.

The move for WEEI can only signal better times for the all-sports/Imus In The Morning format which emulates WFAN-660, but the station still lacks the lucrative major sports contracts. WBZ-1030 has the New England Patriots, UMass Minutemen basketball (WHMP-FM is the flagship), and starting with the 1995 season will have the Boston Bruins. And WRKO-680 has the Boston Red Sox. So for now, WEEI only has the Boston Celtics and Boston College football.

While on the subject of sports, no radio stations in the Boston area, including WEEI, broadcast World Cup Soccer games in English. So soccer fans tuned into WMEX-1150 for Spanish play-by-play from the Colombian *Radio Cadena Central*. While it may have been difficult to understand what was going on, at least you knew when there was a *Goooooooooal!* Anyway, the WEEI-590 logo is on the front, newspaper clippings are in the *Scrapbook* section, and the aircheck cassette includes WEEI-590 and WHDH-850.

While Saturday and Sunday are both filled with scheduled activities, feel free to step out on your own and enjoy the sights and tourist attractions of New Hampshire. Railroad enthusiasts may want to visit the *Old Sandown Railroad Museum* on Route 121A in Sandown. The museum is listed on the National Register of Historic Places, and features all sorts of railroad memorabilia. Those who are interested in astronomy may want to visit *America's Stonehenge* on Route 111 in North Salem. The *Christa McAuliffe Planetarium* in Concord, built in honor of the New Hampshire teacher/astronaut that died in the space shuttle explosion, is also an interesting and educational experience. Hikers will enjoy climbing *Mount Monadnock*, off Route 124 in Jaffrey, the world's second most-climbed mountain. AM/FM DXers might want to do some bandscanning from the top of *South Pack Monadnock* at *Miller State Park* on Route 101 in Temple. There's an auto road and hiking trails to the summit. (You may be better off walking as the road is steep, narrow, and not for the faint of heart.) There is a \$2.50 user's fee for all state parks.

These are just a few suggestions. Take a look at the enclosed New Hampshire map for more ideas. Don't forget, shopping in New Hampshire is tax-free; there's no sales tax. Maps are included in the program book for Merrimack restaurants, and the South Nashua shopping district. If you have any questions or encounter any problems, I'll do my best to help.

Thank you for attending the 1994 National Radio Club Convention, and supporting your NRC! Also, a special thanks to Bob Bittner, John & Linda Bowker, Ken Chatterton, Mark Connelly, Tony Fitzherbert, Scott Fybush, Dick Truax, and the many others who have contributed their time and efforts toward making this convention a success. 73s



Bruce Conti
1994 NRC Convention Host

PROGRAM OF EVENTS

Convention Friday

- 2:00pm Hospitality room opens.
The hospitality room will serve as the convention headquarters. Not sure where events will take place? This is the place to be for the latest on what's happening and casual socializing.
- 8:00pm "Exploring Radio By Commuter Rail" (2 hours).
Tony Fitzherbert presents a slide show featuring locomotives and tower sites.
- 12:00am Hospitality room closes.

Convention Saturday

- 8:00am Hospitality room opens.
- 10:00am Local radio station tours; meet in hospitality room to organize car pooling.
Tours will include a stop at the WFEA-1370 transmitter site to view their "mini-WLW" tower, and a visit to the WGIR-610 and WKBR-1250 multi-tower sites.
- 2:30pm Anheuser-Busch brewery tour; meet in hospitality room.
- 6:00pm NRC Banquet with keynote address from Mr. Bob Bittner of WJIB/WKBR/WNEB.
- ~8:00pm NRC Business Meeting, followed by NRC Auction.
- 12:00am Hospitality room closes.

Convention Sunday

- 8:00am Hospitality room opens.
- 10:00am NRC Verbal Quiz with quizmaster John Bowker.
- 10:30am NRC Quiz (the original classic).
- 11:00am "How To Request A Verification"
We have all had the experience of sending letters to stations, requesting a verification card or letter, only to receive nothing back. Experts in the field will suggest ways to improve your chances of getting a verification in this forum.
- 11:30am "Piracy On The High (and Medium) Frequen-seas"
So you want to operate a radio station, huh? Be a disk jockey and cover the latest ball scores? A political rebel? Who doesn't! Here are some tips based on experience that can keep you from walking the FCC's plank.
- 11:45am "So What Else Is New?"
This will be a potpourri of the latest news about AM radio with a smattering of other stuff just so you will be the best informed club member in the world.
- 2:00pm WBZ and Nantasket Beach trip; meet in hospitality room to organize car pooling.
WBZ newswriter Scott Fybush will be the trip leader, and WBZ engineer Bob Hess will conduct tours of the WBZ-1030 and TV4 plants.
- 8:00pm WNRC Live! - Chris Cuomo and Friends with the hits you remember.
- 12:00am Hospitality room closes.

*Schedule subject to change. Check for postings in hospitality room.

AM BANDSCAN

This AM bandscan represents typical reception in Nashua, New Hampshire, using a stock DX receiver with an internal loop for directional reception. An * indicates the dominant station on a frequency where more than one station are listed. Where no * is indicated and multiple stations are listed, dominance depends upon loop antenna direction, time of reception, and atmospheric conditions.

	DAYTIME	NIGHTTIME
530	WNUE384 MA Tyngsboro	WNUE384 MA Tyngsboro
540	WLIX NY Islip	CIAO ON Brampton WGTO FL Pine Hills WWCS PA Canonsburg CJSB ON Ottawa CBEF ON Windsor
550	* WICE RI Pawtucket WDEV VT Waterbury	* WICE RI Pawtucket WGR NY Buffalo CFNB NB Fredericton
560	* WHYN MA Springfield WGAN ME Portland	* WHYN MA Springfield * WGAN ME Portland WBEB PA Philadelphia CJKL ON Kirkland Lake
570	WMCA NY New York	* WMCA NY New York WSYR NY Syracuse CJEM NB Edmundston
580	WTAG MA Worcester	* WTAG MA Worcester WHP PA Harrisburg CFRA ON Ottawa
590	WEEI MA Boston	* WEEI MA Boston WROW NY Albany WARM PA Scranton CKRS PQ Jonquiere
600	WICC CT Bridgeport	WICC CT Bridgeport WCAO MD Baltimore R.Rebelde Cuba
610	WGIR NH Manchester	WGIR NH Manchester
620	WVMT VT Burlington WZON ME Bangor	WVMT VT Burlington WZON ME Bangor WSKQ NJ Newark
630	WPRO RI Providence	* WPRO RI Providence CFCO ON Chatham CFCY PI Charlottetown
640	WNNZ MA Westfield	WNNZ MA Westfield WHLO OH Akron CHOG ON Richmond Hill
650	---	R.Portenas Venezuela WSM TN Nashville Antena 2 Colombia
660	WFAN NY New York	WFAN NY New York
670	---	WMAQ IL Chicago R.Rebelde Cuba
680	WRKO MA Boston	* WRKO MA Boston WINR NY Binghamton CFTR ON Toronto
690	WADS CT Ansonia	CBF PQ Montreal
700	* WCAT MA Orange CHSJ NB St.John	* WLW OH Cincinnati JBC R.One Jamaica
710	WOR NY New York	* WOR NY New York CKVM PQ Ville-Marie R.Rebelde Cuba
720	---	WGN IL Chicago CHTN PI Charlottetown
730	* WACE MA Chicopee WJTO ME Bath	CKAC PQ Montreal
740	* WJIB MA Cambridge WGSM NY Huntington	WJIB MA Cambridge * CHCM NF Marystown CBL ON Toronto

750	---			WSB	GA	Atlanta
				R.Caracas		Venezuela
760	WVNE	MA	Leicester	WJR	MI	Detroit
770	WABC	NY	New York	WABC	NY	New York
780	---			WBBM	IL	Chicago
				R.Coro		Venezuela
790	WLKW	RI	Providence	* WLKW	RI	Providence
				CIGM	ON	Sudbury
800	* WCCM	MA	Lawrence	WCCM	MA	Lawrence
	CJAD	PQ	Montreal	CKLW	ON	Windsor
				CJAD	PQ	Montreal
810	WGY	NY	Schenectady	* WGY	NY	Schenectady
				CJVA	NB	Caraquet
820	WNYC	NY	New York	WIQT	NY	Horseheads
				WBAP	TX	Fort Worth
				* CHAM	ON	Hamilton
830	WCRN	MA	Cherry Valley (testing)	WCCO	MN	Minneapolis
				* CFJR	ON	Brockville
				Trinity		St.Kitts
840	WRYM	CT	New Britain	WHAS	KY	Louisville
850	WHDH	MA	Boston	* WHDH	MA	Boston
				WRMR	OH	Cleveland
				CKVL	PQ	Verdun
860	WSBS	MA	Great Barrington	CJBC	ON	Toronto
870	WLAM	ME	Gorham	WLAM	ME	Gorham
				WHCU	NY	Ithaca
				* WWL	LA	New Orleans
880	WCBS	NY	New York	WCBS	NY	New York
890	---			WLS	IL	Chicago
900	WMVU	NH	Nashua	CHML	ON	Hamilton
				CKTS	PQ	Sherbrooke
910	WNEZ	CT	New Britian	WNEZ	CT	New Britain
	WABI	ME	Bangor	WABI	ME	Bangor
	WNHV	VT	White River Jct.	WRVH	VA	Richmond
				CKLY	ON	Lindsay
920	WHJJ	RI	Providence	* WHJJ	RI	Providence
				CJCH	NS	Halifax
930	WZNN	NH	Rochester	WZNN	NH	Rochester
				WPAT	NJ	Paterson
				WBEN	NY	Buffalo
940	WGFP	MA	Webster	CFBC	NB	St.John
				CBM	PQ	Montreal
950	WROL	MA	Boston	R.Reloj		Cuba
				WROL	MA	Boston
				WWJ	MI	Detroit
				WIBX	NY	Utica
960	WELI	CT	New Haven	WPEN	PA	Philadelphia
				WELI	CT	New Haven
				CHNS	NS	Halifax
970	WYNZ	ME	Portland	CFFX	ON	Kingston
	WESO	MA	Southbridge	WYNZ	ME	Portland
				WWDJ	NJ	Hackensack
980	WCAP	MA	Lowell	CKCH	PQ	Hull
				WCAP	MA	Lowell
				WTRY	NY	Albany
990	WALE	RI	Providence	WILK	PA	Wilkes-Barre
				* WCMF	NY	Rochester
				WZZD	PA	Philadelphia
1000	---			CKIS	PQ	Montreal
				WMVP	IL	Chicago
				CKBW	NS	Bridgewater
				CFLP	PQ	Rimouski
1010	WINS	NY	New York	RCN		Colombia
				* WINS	NY	New York
1020	WKZE	CT	Sharon	CFRB	ON	Toronto
	* WNTK	NH	Newport	KDKA	PA	Pittsburgh
1030	WBZ	MA	Boston	WBZ	MA	Boston

1040	---			* WHO IA Des Moines
1050	WEVD NY	New York		* WYFX FL Boynton Beach
1060	WBIV MA	Natick		* WEVD NY New York
1070	WNWX NY	Plattsburgh		CHUM ON Toronto
1080	WTIC CT	Hartford		WBIV MA Natick
1090	WILD MA	Boston		* KYW PA Pittsburgh
1100	WHLI NY	Hempstead		CJRP PQ Quebec
1110	* WNNW NH	Salem		CBA NB Moncton
	WHIM RI	Providence		CHOK ON Sarnia
1120	* WADN MA	Concord		WTIC CT Hartford
1130	WBIS CT	Bristol		* WBAL MD Baltimore
1140	---			CKKW ON Kitchener
1150	WMEX MA	Boston		* WWWE OH Cleveland
1160	WSKW ME	Skowhegan		ZDK (Magic) Antigua
				WHIM RI Providence
1170	* WDIS MA	Norfolk		* WBT NC Charlotte
	WKPE MA	Orleans		CKTY ON Sarnia
1180	WJFF RI	Hope Valley		KMOX MO St.Louis
1190	WLIB NY	New York		* WBBR NY New York
1200	WKOX MA	Framingham		WWWW MI Detroit
1210	---			WRVA VA Richmond
1220	WSME ME	Sanford		CJTR PQ Trois-Rivieres
	WKBK NH	Keene		* WMEX MA Boston
	WRIB RI	Providence		WRUN NY Utica
1230	WESX MA	Salem		CKOC ON Hamilton
1240	WFTN NH	Franklin		CJRC PQ Gatineau
1250	* WHAI MA	Greenfield		WSKW ME Skowhegan
	WKBR NH	Manchester		WJJD IL Chicago
	WARE MA	Ware		WOBM NJ Lakewood Township
1260	WEZE MA	Boston		WCCS PA Homer City
				WYNS PA Lehighton
1270	WSPR MA	Springfield		KSL UT Salt Lake City
	WTSN NH	Dover		WWVA WV Wheeling
1280	WABK ME	Gardiner		* WHAM NY Rochester
	WEIM MA	Fitchburg		R.Taino Cuba
				WOWO IN Ft.Wayne
				WKOX MA Framingham
				CFGO ON Ottawa
				WOAI TX San Antonio
				WGMP PA Philadelphia
				WKNR OH Cleveland
				WRIB RI Providence
				CKCW NB Moncton
				CKSM PQ Shawinigan Falls
				WERI RI Westerly
				WFTN NH Franklin
				WWCO CT Waterbury
				* WKBR NH Manchester
				WMTR NJ Morristown
				WTAE PA Pittsburgh
				CHWO ON Oakville
				CBGA PQ Matane
				* WEZE MA Boston
				WBNR NY Beacon
				WNDR NY Syracuse
				CIHI NB Fredericton
				* WSPR MA Springfield
				* WTSN NH Dover
				WXYT MI Detroit
				CFGT PQ Alma
				WABK ME Gardiner
				WADO NY New York
				CJMS PQ Montreal

1290	WRCP RI WKNE NH	Providence Keene	WRCP RI WKNE NH WNBF NY CJBK ON WQBK NY WERE OH WLOB ME WORC MA WSSJ NJ CIWW ON WARA MA WKAP PA WJAS PA * CKEC NS * WRCA MA WWRV NY WNBH MA WNHC CT WEZS NH WNLK CT WSLR OH WOYK PA CHVR ON WLYN MA WDRC CT CKBC NB CJVL PQ WFEA NH WDEA ME WSPD OH WCQL NH WSYB VT WKDM NY CKPC ON CKLC ON WMZQ VA WKDR VT CHOO ON * WLLH MA WICK PA WPOP CT KQV PA CIGO NS CFMB PQ WLNA NY WHK OH * CJMT PQ WPKS MA WNJR NJ WMRV NY CJCL ON WLPZ ME WVEI MA WKXL NH WBET MA * WGNB NY CKRB PQ WSRO MA WZOU ME WPKW PA CHOW ON WSAR MA CHRD PQ WPOR ME WCSS NY WTOP DC	Providence Keene Binghamton London Rensselaer Cleveland Portland Worcester Camden Ottawa Attleboro Allentown Pittsburgh New Glasgow Waltham New York New Bedford New Haven Laconia (SILENT 8/94) Norwalk Akron York Pembroke Lynn Hartford Bathurst Ste Marie de Beauce Manchester Ellsworth Toledo Portsmouth Rutland New York Brantford Kingston Arlington Burlington Ajax Lowell/Lawrence Scranton Hartford Pittsburgh Port Hawkesbury Montreal Peekskill Cleveland Chicoutimi Everett Newark Endicott Toronto Westbrook Worcester Concord Brockton Albany Ste Georges de Beau Marlborough Lewiston Allentown Welland Fall River Drummondville Portland Amsterdam Washington
1300	WPNH NH	Plymouth		
1310	WJDA MA WLOB ME * WORC MA WICH CT	Quincy Portland Worcester Norwich		
1320	WDER NH	Derry		
1330	WRCA MA	Waltham		
1340	WGAW MA	Gardner		
1350	WEZS NH WNLK CT * WINY CT	Laconia (SILENT 8/94) Norwalk Putnam		
1360	WLYN MA WDRC CT	Lynn Hartford		
1370	WFEA NH	Manchester		
1380	WCQL NH	Portsmouth		
1390	WPLM MA WKDR VT	Plymouth Burlington		
1400	WLLH MA	Lowell/Lawrence		
1410	WPOP CT WMSX MA	Hartford Brockton		
1420	WBSM MA WASR NH	New Bedford Wolfeboro		
1430	* WXKS MA WTTT MA	Everett Amherst		
1440	WLPZ ME	Westbrook		
1450	WVEI MA	Worcester		
1460	WKXL NH WBET MA	Concord Brockton		
1470	* WSRO MA WZOU ME	Marlborough Lewiston		
1480	WSAR MA	Fall River		
1490	WPOR ME WHAV MA	Portland Haverhill		
1500	WFIF CT	Milford		

1510 * WSSH MA Boston
 WNLC CT New London

1520 WGAM MA Greenfield
 1530 WDJZ CT Bridgeport
 1540 WMYF NH Exeter

1550 WNTN MA Newton

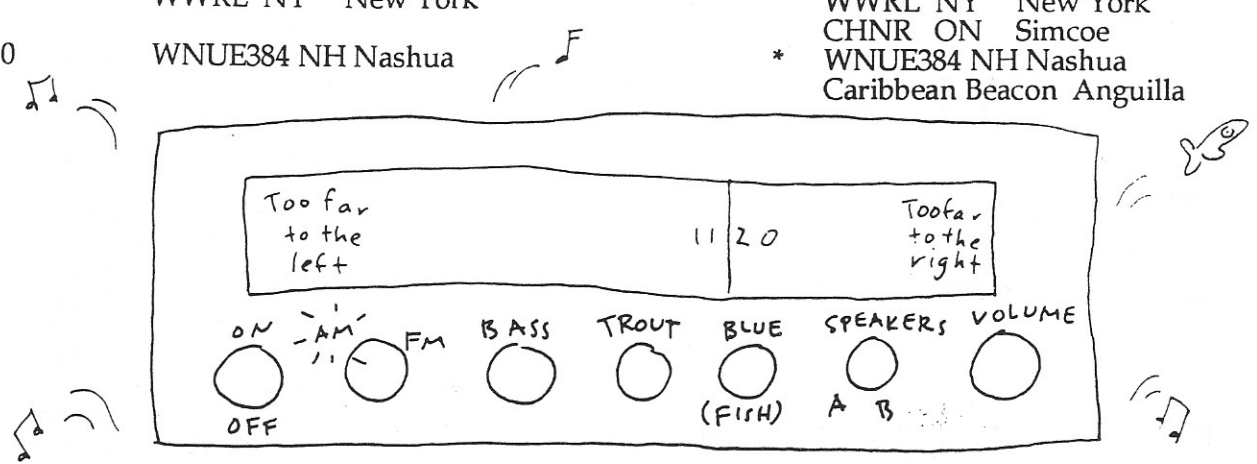
1560 WQEW NY New York
 1570 WPEP MA Taunton
 1580 WLIM NY Patchogue

1590 * WSMN NH Nashua
 WARV RI Warwick

1600 WUNR MA Brookline
 WWRL NY New York

1610 WNUE384 NH Nashua

WSSH MA Boston
 WLAC TN Nashville
 CJRS PQ Sherbrooke
 WWKB NY Buffalo
 WSAI OH Cincinnati
 * WPTR NY Albany
 KXEL IA Waterloo
 CHIN ON Toronto
 WUTQ NY Utica
 WRDM CT Bloomfield
 WARD PA Pittsfield
 * CBE ON Windsor
 WQEW NY New York
 CKLM PQ Laval
 WPGC MD Morningside
 WSRF FL Ft. Lauderdale
 * CBJ PQ Chicoutimi
 * WSMN NH Nashua
 WAKR OH Akron
 WUNR MA Brookline
 WWRL NY New York
 CHNR ON Simcoe
 * WNUE384 NH Nashua
 Caribbean Beacon Anguilla



Get Walden 1120 AM on your radio.

Music, local news, events and international broadcasts from the BBC and CBC.

TV BANDSCAN

CH	CALL	LOCATION	NET
2	WGBH	Boston, MA	PBS 21
3	WCAX	Burlington, VT	CBS 23
4	WBZ	Boston, MA	NBC 25
5	WCVB	Boston, MA	ABC 26
6	WLNE	New Bedford, MA	CBS 27
	WCSH	Portland, ME	NBC 31
7	WHDH	Boston, MA	CBS 33
8	WMTW	Poland Springs, ME	ABC 36
9	WMUR	Manchester, NH	ABC 38
10	WJAR	Providence, RI	NBC 41
11	WENH	Durham, NH	PBS 44
12	WPRI	Providence, RI	ABC 50
13	W13BG	Nashua, NH	Ind 52
	WGME	Portland, ME	CBS 56
			60
			62
			64
			66
			68
			WNHT
			Concord, NH (silent)
			CBS
			WFIT
			Providence, RI
			Ind
			WFXT
			Boston, MA
			FOX
			WMEA
			Bangor, ME
			PBS
			WUNI
			Worcester, MA
			UNI
			WNNE
			White River Jct., VT
			NBC
			W33BG
			Nashua, NH
			Ind
			WSBE
			Providence, RI
			PBS
			WSBK
			Boston, MA
			Ind
			WVTA
			Colchester, VT
			PBS
			WGBX
			Boston, MA
			PBS
			WNDS
			Derry, NH
			Ind
			WEKW
			Keene, NH
			PBS
			WLVI
			Cambridge, MA
			Ind
			WGOT
			Merrimack, NH
			Ind
			WMFP
			Lawrence, MA
			Ind
			WNAC
			Providence, RI
			FOX
			WHSB
			Marlboro, MA
			HSC
			WABU
			Boston, MA
			Ind

W N E D S

FM BANDSCAN


FREQ	CALL	LOCATION	FORMAT
88.1	WMBR	Cambridge, MA (MIT)	Variety
88.3	WGAO	Franklin, MA	Rock
88.5	WFCR	Amherst, MA	NPR
88.9	WERS	Boston, MA (Emerson)	Variety
89.1	WEVO	Concord, NH	NPR
89.7	WGBH	Boston, MA	NPR
90.1	WMEA	Portland, ME	NPR, "Maine Public Radio"
90.3	WEVO	Nashua, NH	NPR
90.5	WICN	Worcester, MA	NPR
90.9	WBUR	Boston, MA (BU)	NPR
91.1	WSMU	Dartmouth, MA	Variety
91.3	WUNH	Durham, NH (UNH)	Variety
91.5	WJUL	Lowell, MA (UMass-Lowell)	Variety
91.9	WUMB	Boston, MA (UMass-Boston)	Variety
92.1	WNHQ	Peterborough, NH	AC, "Q-92"
92.3	WPRO	Providence, RI	CHR, "92-Pro-FM"
92.5	WLYT	Haverhill, MA	Soft AC, "W-Lite"
92.7	WMVY	Tisbury, MA	Light Rock (Martha's Vineyard)
92.9	WBOS	Brookline, MA	Soft Rock
93.1	WMGX	Portland, ME	Rock, "Portland's Variety Station"
93.3	WSNE	Taunton, MA	AC
	WNHI	Loudon, NH	Rock, "Rock n' Roll Hits I-93.3"
93.7	WCGY	Lawrence, MA	Rock
94.1	WFTN	Franklin, NH	CHR, "Mix 94.1"
	WHJY	Providence, RI	Rock, "94 HJY"
94.3	WGLV	Peterborough, NH	ContChr, "Family 104", // 104.3
94.5	WJMN	Boston, MA	UC, "Jamin' 94.5"
94.9	WHOM	Mt. Washington, NH	Soft AC
95.3	WCQL	Portsmouth, NH	OLD, "Cool 95.3"
	WHRB	Cambridge, MA (Harvard)	Variety
95.5	WBRU	Providence, RI (Brown)	Rock
95.7	WZID	Manchester, NH	AC
96.1	WSRS	Worcester, MA	Soft AC
96.3	WRZE	Nantucket, MA	CHR, "The Rose"
96.5	WTIC	Hartford, CT	CHR, "TIC-FM"
96.7	WWEM	Rochester, NH	AC, "Mix 96.7"
96.9	WBCS	Boston, MA	C&W, "Boston's Country Station"
97.3	WJFD	New Bedford, MA	Portuguese
97.5	WOKQ	Dover, NH	C&W, "New Country"
97.7	WCAV	Brockton, MA	C&W, "More Country"
	WINQ	Winchendon, MA	CHR, "Q-FM"
97.9	WCSO	Portland, ME	MoR, "Ocean 98"
98.1	WCTK	New Bedford, MA	C&W, "Cat Country"
	WJJR	Rutland, VT	Soft AC
98.3	WLNH	Laconia, NH	CHR, "The Lakes Region Station"
98.5	WBMX	Boston, MA	AC, "Mix 98.5"
98.7	WXOD	Winchester, NH	OLD, "Oldies 98.7"
	WXZR	East Lyme, CT	Rock, "Z-Rock"
98.9	WXXW	Webster, MA	OLD, "Double-X"
	WCLZ	Brunswick, ME	Rock, "Portland's Album Rock"



93.3 WSNE



WBRU
95.5

99.1	WNNH WPLM	Henniker, NH Plymouth, MA	OLD, "Oldies 99" AC, "Variety 99.1"	
99.3	WHMP	Northampton, MA	CHR, "Hit Music Power"	
99.5	WSSH	Lowell, MA	AC, "Boston's Wish"	
99.7	WNTK	New London, NH	TLK, "The NTK Family", // WNTK-1020	
99.9	WCAT WKZS WQRC	Orange, MA Auburn, ME Barnstable, MA	AC AC, "Kiss 100" Soft AC/BFL	
100.1	WPNH	Plymouth, NH	Rock, "Quality Rock", // WPNH-1300	
100.3	WHEB	Portsmouth, NH	Rock, "Hit Rock 100"	
100.5	WNBX	Lebanon, NH	TLK, // WNTK-1020	
100.7	WZLX	Boston, MA	Rock, "Classic Rock"	100.7 WZLX <i>Boston's Classic Rock</i>
100.9	WYNZ	Portland, ME	OLD	
101.1	WGIR	Manchester, NH	Rock, "Rock 101"	
101.5	WWBB	Providence, RI	OLD, "B-101"	
101.7	WFNX	Lynn, MA	Rock, "Boston Phoenix Radio"	
101.9	WPOR WCIB	Portland, ME Falmouth, MA	C&W, // WPOR-1490 AC, "Lite 102"	
102.1	WZEA	Hampton, NH	CHR, "Seacoast 102"	
102.3	WKXL	Concord, NH	AC/TLK, // WKXL-1450	
102.5	WCRB	Waltham, MA	Classical	
102.7	WEQX	Manchester, VT	Rock, "The Best New Rock"	
102.9	WDRC WBLM	Hartford, CT Portland, ME	OLD Rock, "The Blimp"	
103.3	WODS	Boston, MA	OLD, "Oldies 103"	
103.7	WZPK WKNE	Berlin, NH Keene, NH	CHR, "Peak FM" CHR, "KNE-FM"	103.7 WRX THE CLASSIC ROCK STATION
104.1	WBCN	Boston, MA	Rock, "The Rock of Boston"	
104.3	WGLV	Hartford, VT	ContChr, "Family 104"	
104.5	WXLO	Fitchburg, MA	AC	
104.7	WKPE	Orleans, MA	OLD, "Oldies 104.7"	
104.9	WBOQ WYRY	Gloucester, MA Hinsdale, NH	Classical, "W-Bach" C&W, "Y-105"	
105.1	WWLI	Providence, RI	Soft AC, "Lite 105"	
105.3	WXBB	Kittery, ME	OLD, "Arro - All Rock n' Roll Oldies"	
105.5	WJYY	Concord, NH	Soft Rock, "Easy Rock"	
105.7	WCLB	Framingham, MA	C&W, "Boston's Country Club"	106 WHCN THE ROCK STATION
105.9	WKRH	Bath, ME	Rock	
106.1	WCOD WHDQ	Hyannis, MA Claremont, NH	AC Rock, "Q-106"	
106.3	WHOB	Nashua, NH	CHR, "B-106.3"	
106.7	WMJX	Boston, MA	Soft AC, "Magic 106.7"	
106.9	WSCY	Moultonboro, NH	C&W, "Super Country", // WFTN-1240	
107.1	WERZ WFHN	Exeter, NH Fairhaven, MA	CHR CHR, "Fun 107"	
107.3	WAAF	Worcester, MA	Rock	
107.5	WTHT WFCC	Portland, ME Chatham, MA	C&W Classical	
107.7	WRCI	Hillsborough, NH	Soft Rock, // WJYY-105.5	
107.9	WXKS	Medford, MA	CHR, "Kiss 108"	Kiss 108fm

INTERNATIONAL DX

International DX From New England
Mark Connelly - WA1ION
29 JUL 1994

International DX (reception of stations from countries besides the USA and Canada) is possible from New England in all seasons, although autumn and winter are best. Static (QRN) is the main problem in summer, but it is not usually as serious a problem here as it is in the southeastern states.

Principle areas of interest for the mediumwave DXer are trans-Atlantics from Europe, Africa, Asia (Middle East), and the pan-Americans from South America, the Caribbean, and Central America (including Mexico). St. Pierre et Miquelon on 1375, off the Atlantic coast of Canada, is probably the easiest foreign (non-US/Canada) station for DXers in New England (unless you live in the shadow of WFEA-1370, hi - BC).

Use the World Radio & TV Handbook (WRTH) as your main guide to foreign DX. Recent issues of the International DX Digest column in DX News fill in supplementary information about changes and stations that US and Canadian DXers are actually hearing (as well as programming information and when to listen).

The likelihood of hearing foreign stations is affected by the time of day, ionospheric propagation factors related to solar activity (flares, sunspots), and location characteristics such as horizon blockage, ground conductivity, and proximity to sources of interference and electrical noise. Having good reference sources and a solid idea of what to pursue (and when to find it) helps. And, of course, high quality receiving equipment and antennas are recommended.

Mediumwave long-distance skip generally requires darkness along most of the path. Signal strengths are sometimes enhanced when one or both ends of the path are in the transition zone between day and night: e.g. sunset at the western end of the path, sunrise at the eastern end, or the entire path in the "greyline" zone. Trans-Atlantic DX, therefore, can peak up around local sunset in New England, drop off slightly after that, and re-peak around dawn on the transmitter end (e.g. Europe) of the path.

Location plays an important role in signal strength on long-haul (low-angle) skip needed for good mediumwave international reception. At sunset, differences of over 30 dB have been measured between European and African signals received at seashore sites versus those heard at inland sites. At the beach, stations can be audible with simple gear (portable radio, loop) that can't be found inland even with a Beverage and a topnotch communications receiver. As the evening progresses, skip angle becomes higher and the coastal-versus-inland signal strength differences aren't as drastic.

The combination of phased Beverages, a quality receiver, and a shore location is often considered the ultimate setup for foreign DX. If it's a permanent home QTH situation, rather than something hastily scrambled up for a DXpedition, all the better. Neil Kazaross had this from Ogunquit, Maine in 1984 and 1985; his loggings included Ascension Island, Namibia, and numerous Angolans and Brazilians. Sunset openings can sometimes be exploited inland, especially in autumn and winter, but better trans-Atlantic results at these sites will be had around transmitter site dawn. Use the popular GEOCLOCK computer program, the "DX Edge", or other sunrise/sunset maps or tables.

Auroral conditions occur sporadically. High solar activity energizes the auroral zone and causes absorption of high latitude (northern) route domestic and foreign signals. Southerly stations increase their strengths sometimes, or at least they benefit from the reduced interference. Looking for Latin Americans and Africans will be a primary focus during auroral activity.

Many nights are short-skip dominated and finding foreign DX will require effort, skill, and patience - especially when limited by average receivers, antennas, and locations.

Trans-Atlantic DX

For trans-Atlantic work, the best antenna system is one that produces an end-fire or a cardioid (heart-shaped) pattern with maximum pick-up from the east and minimum pick-up (null) from the west. Phased Beverages, phased slopers, loop-versus-whip, and two phased loops at a right angle will generate this pattern. A single wire antenna running from the receiver to the east or northeast, or a loop aligned to favor these directions, can still produce reasonable DX results, especially at a good location.

Trans-Atlantics are on 9 kHz multiple channels, 90 percent of which are on "splits" that do not correspond to the 10 kHz multiple channels used in the Western Hemisphere. Tight filters are often required to separate foreign and domestic stations that may only be 1 kHz apart (examples: Saudi Arabia-1521 and WWKB-1520, Algeria-891 and WLS-890).

The most consistently heard trans-Atlantics are those from the area around the western end of the Mediterranean Sea: Algeria-891, Libya-1251, Morocco-1044, Portugal-666/1035, and numerous stations from Spain including 639, 684, 738, 774, 855, 954, 999, 1107, 1359, and 1584. (Spain-855 is the easiest to catch here in Nashua - BC).

Northern Europeans can come in during the better conditions. These include England-693/882/1215, Norway-1314, Germany-756/1017/1422/1539, Holland-747, France-675/945/1206/1467/1557, and Slovak Republic-1098.

Easy lower-bearing Africans such as Senegal-765, Mauritania-1349, Canary Islands-621/837/1098/1179, and more exotic ones like Angola-1088/1115/1367, and Lesotho-1197 (BBC), are heard best during moderate aurora a bit after local sunset from coastal sites. The Sao Tome VOA relay on 1530 (with English language programming parallel to 7405 kHz) sometimes mixes with WSAI and Vatican after 0300 UTC sign-on. (Sao Tome-1530 has been logged at Mark's Billerica location, and at Tom Beaton's Manchester, MA location. - BC)

Middle East Africans and Asians such as Egypt-1107, Sudan-1296, and Saudi Arabia-1521 peak up well around transmitter-site dawn. The sign-on of the 1521 Saudi at 0300 UTC is often heard. (Sometimes the 1521 signal is strong enough to wipe out WWKB-1520, even on a portable using the internal antenna! - BC) Italy-846/1332/1575, Vatican-1530, and Eastern Europeans (Bulgarians, Romanians, Russians, ex-Yugoslavs, etc.) do best then, too.

An extensive treatment of trans-Atlantic DX possibilities is given in the article "Your First 50 Trans-Atlantic Countries (and then some)" in DX News, V61 #27 (20 JUN 1994).

Pan-American DX

Beverages are best, but a loop can do surprisingly well for DX from South America, Central America, Bermuda, and the Caribbean. Most of the domestic "pest" stations are in a westerly direction at an approximate right angle to the desired DX from the south.

Early evening (just after sunset) may bring in Brazil, the eastern Caribbean, and Venezuela. Also look for Guyana-760 and French Guiana-1070 then. Aurora that improves Africans (relative to co-channel Europeans) affects the pan-Americans similarly. Shore sites facing southeast dramatically outperform inland sites for the first two hours after sunset. As in the case of trans-Atlantics, location effects become less critical later in the evening.

English language stations are good targets for beginners. Stations on 5 kHz splits are not hard to find, which include Antigua-1165, St. Kitts-555, Dominica-595, Montserrat-885, Nevis-895, St. Vincent-705, and Grenada-535 (mixed with powerhouse Spanish language Radio Vision Cristiana from Turks and Caicos). St. Kitts-830, with religion in English sometimes parallel to 7510, often overrides CFJR, YVLT, and WCCO. ZDK-1100 Antigua with Caribbean, as well as American, pop music is sometimes audible with WWWE nulled. Less common are Barbados-900, and British Virgin Islands-780. Anguilla-1610 is easy; the 690 and 1505 are tougher DX. PJB-800 from Bonaire, Netherlands Antillies runs several languages, including English (but mostly Spanish - BC), in its religious format. (Be aware not to confuse PJB with WCCM-800 Lawrence, MA which also carries religion in Spanish at night. - BC) Bermuda-1160, with BBC programming parallel to 5975/6175, sometimes surfaces through a welter of domestics (WSKW/WOBM/WVNJ).



Having a some familiarity with Spanish helps in identifying Venezuelans, Colombians, Cubans, and many of the other Latin American stations. It also helps to distinguish the numerous domestic Spanish language stations from real foreign DX. The Cuban Rebelde outlet on 600 is probably the most consistently heard station from that country. Radio Taino-1180 is also common under WHAM. Venezuelans on 640, 720, 750, and 780 can top the domestics. (Radio Caracas-750 and Radio Coro-780 are heard on just about any given night in Nashua with the domestics nulled. - BC) Big Colombians include Radio Cadena Nacional (RCN = "Erray Say Ennay") which cuts through WABC at times and RCN Antena Dos-650 which often rolls over WSM.

Other languages may be heard: French from Haiti, Guadeloupe (try 640 when Venezuela isn't too strong - BC), and French Guiana, and Portuguese from Brazil. South America's largest country, Brazil, has a few stations that reach New England occasionally. The most common stations from the heavily populated Sao Paulo/Rio de Janeiro region are on 860, 1000, and 1040; fairly common on Cape Cod, Cape Ann, and coastal Maine. They can peak between 11 PM and 3 AM Eastern time, although audibility as early as sunset is possible in spring and summer when the southern hemisphere has more darkness time. Northeastern Brazilians (from Fortaleza, Recife, Sao Luis, Joao Pessoa, etc.) act somewhat like Africans and are best just after sunset. Don't expect casual reception of these; domestic-killing aurora and a high-gain setup (Beverages at the beach) are typical prerequisites. As sunset approaches, use big-gun African stations on 765, 1197, and 1349 to forecast potential DX from Brazil's eastern tip.

Later in the evening, Cubans and Central Americans enter darkness and become receivable. Mexicans are less common here than in any other part of the mainland USA, but a few are heard. Your best bets are 730, 900, and 940 during aurora after midnight (usually 3 AM to pre-dawn hours provide the most consistent reception of Mexico in Nashua - BC); look for otherwise impossible Central Americans then, too. Central Americans are difficult because a greater percentage of their signal paths are over land than the signal paths to north-coastal South America. The power levels in countries such as El Salvador also tend to put such stations at a disadvantage to domestics and to the major Venezuelan and Colombian stations.

Deep South Americans (such as Argentina-870) are rare in New England, but are possible. Best results are between midnight and 4 AM time. At certain times of the year, the signal path can fall entirely within the greyline zone just prior to common dawn along the route. This may give signal strengths a boost. There used to be many more splits from this area to act as beacons: now defunct Paraguay-645 (heard frequently from West Yarmouth, MA in the '70s) comes to mind. Few splits running useful power levels survive today.

Trans-Pacific DX

Trans-Pacific stations are very rare in New England. Best reception would be about an hour before local dawn during October, November, and December. I'd recommend Beverages and a site facing water to the west and northwest: the bay side of Cape Cod from Eastham to Provincetown would be ideal. Look for Austrailia-837, Japan-774, Tahiti-738 and others... but don't hold your breath.



CARACOL



QSL
690 kHz

HCJB
Casilla 17-17-691
Quito, Ecuador

Dear Bruce Conti:

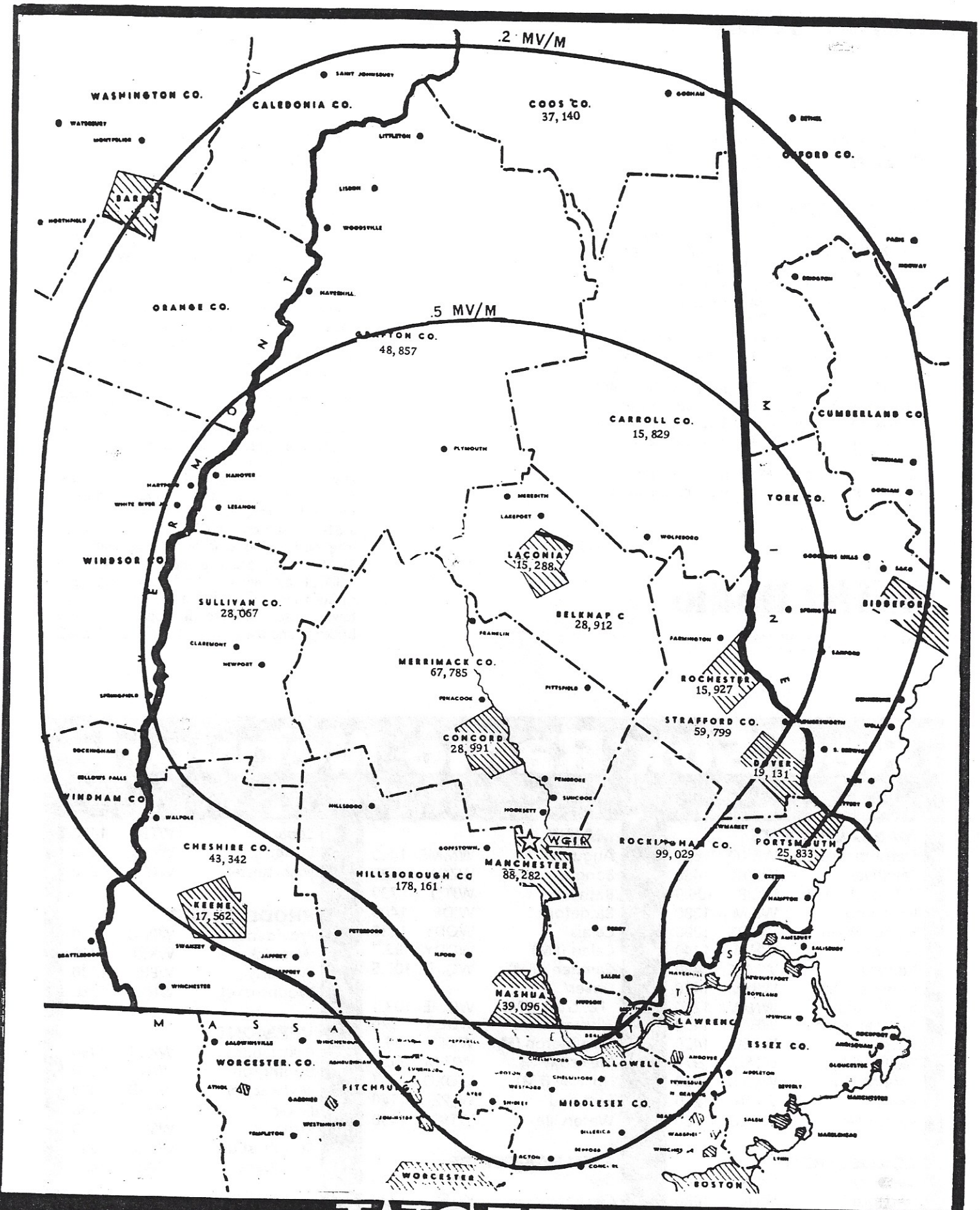
This confirms your reception of HCJB on May 29, 1994
at 0514-0537 UTC on 690 kHz mediumwave.
Transmitter power was 50 kw.

Congratulations and 73!

[Signature]
DX Test Coordinator

HCJB's 690 kHz transmitter is located on the slopes of Pichincha Volcano on Quito's western border.

Andean moonrise over Quito, Ecuador's capital city



WGIR

MANCHESTER, N.H.

5000 WATTS

610 KC

SCRAPBOOK

The New Hampshire Sunday News, May 15, 1994

New Station on the Air

LOUDON: A new FM station, calling itself "I-93 Radio," made its debut last week on Lakes Region airwaves. WNHI (93.3 mH) features the syndicated talk show, "Imus in the Morning," hosted by **John Donald Imus** of WFAN in New York City.

The new station — co-owned by **Lindsay Collins** and **Stu Richter**, who also own WJYY in Concord and WRCI in Hillsborough — airs rock 'n' roll hits from four decades. The 3,000-watt station has its studio and sales office in the Fox Pond Plaza in Loudon and broadcasts from a tower atop Highlands Ski Area in Northfield.

Collins said Lakes Region disc jockey **Dorien Jay** is co-hosting the morning show.

The Washington Post, May 24, 1994

Beam Me Up, Scotty

The folks at all-sports WTEM-AM (570) will have their fingers crossed as engineers test the station's signal from new antenna towers on 65 acres in Germantown this week. All testing will be conducted at off-drive-time hours. General Manager Bennett Zier said he hopes that by moving the signal eight miles northwest, listeners in Fairfax County and parts of Montgomery County will get a "cleaner, clearer signal." And, of course, this will make advertisers happy. Listeners in Southern Maryland, however, are apt to experience difficulty in receiving the station.

The Germantown site was tested last year, but it reportedly failed to impress station engineers. Zier acknowledged Sunday that the site was "not ready" then. WTEM's transmitter and four antennae currently are located on a 51-acre site off Bells Mill Road in Potomac. The partnership that owned the station in 1989 sold the prime property for about \$28 million to a development company that planned to build more than 200 detached homes and town houses, but the developer later went bankrupt and the station's lease was extended.

WHIO Radio



A Communications Service of
Cox Broadcasting Corporation

Red Sox Radio Network

Below is a listing of radio stations in your area that carry Boston Red Sox broadcasts.

MASSACHUSETTS

Flagship: Boston	WRKO	680
Fall River	WSAR	1480
Falmouth (FM)	WCIB	100.9
Fitchburg	WEIM	1280
Framingham	WKOX	1200
Greenfield	WHAI	1240
Milford	WMRC	1490
New Bedford	WBSM	1420
North Adams	WNAW	1230
Northampton	WHMP	1400
Pittsfield	WBEC	1420
Southbridge	WESO	970
Springfield	WHYN	560
Ware	WARE	1250
Worcester	WTAG	580

CONNECTICUT

Danbury	WLAD	800
Hartford	WTIC	1080
New London	WNLC	1510
Old Saybrook	WLIS	1420
Putnam	WINY	1350
Willimantic	WILI	1400

MAINE

Augusta	WMME	1400
Bangor	WZON	620
Bath	WJTO	730
Biddeford	WIDE	1400
Calais	WQDY	1230
Calais (FM)	WQDY	92.7
Camden (FM)	WQSS	102.5
Dover/ Foxcroft (FM)	WDME	103.1
Ellsworth	WDEA	1370
Farmington (FM)	WKTJ	99.3
Mexico (FM)	WTBM	100.7
Norway (FM)	WEXO	92.7
Portland	WLPZ	1140
Waterville	WTVL	1490

NEW HAMPSHIRE

Berlin	WMOU	1230
Claremont	WTSV	1230
Concord	WKXL	1450
Dover	WTSN	1270
Keene	WKNE	1290
Laconia	WEMJ	1490

Lebanon	WTSL	1400
Littleton	WLTN	1400
Manchester	WGIR	610

RHODE ISLAND

Providence	WPRO	630
Warwick	WKRI	1450
Westerly	WERI	1230
Woonsocket	WNRI	1380

VERMONT

Brattleboro	WKVT	1490
Burlington	WJOY	1230
Middlebury	WFAD	1490
Newport	WIKE	1490
Rutland	WSYB	1380
St. Johnsbury	WSTJ	1340
St. Albans	WWSR	1420

FLORIDA

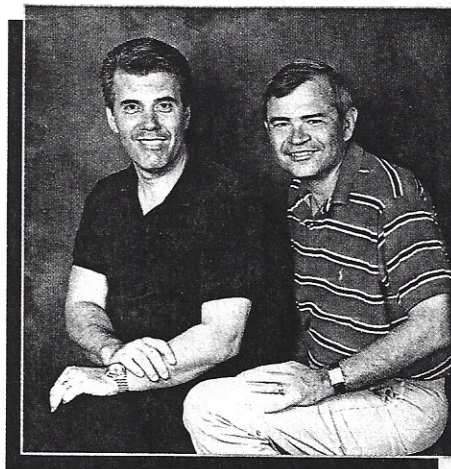
Tampa	WFNS	910
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All stations AM except where noted.

The Red Sox Radio Network will carry every game with Joe Castiglione and Jerry Trupiano handling the play-by-play. WRKO-AM in Boston begins its fifth season as the flagship station for a network of 54 stations which blankets New England.

Castiglione is in his 12th season on Red Sox radio. He had previously covered the Cleveland Indians on TV in 1979 and on cable in 1982. He also broadcast the Milwaukee Brewers on cable in 1981. The Hamden, Conn. native has announced the Cleveland Cavaliers (NBA) on cable, and he did college basketball on New England Sports Network for six winters. Joe has also taught a broadcast journalism course at Northeastern University for several years.

Joining Castiglione for his second year on Red Sox radio is St. Louis native, Jerry Trupiano. Trupiano, who

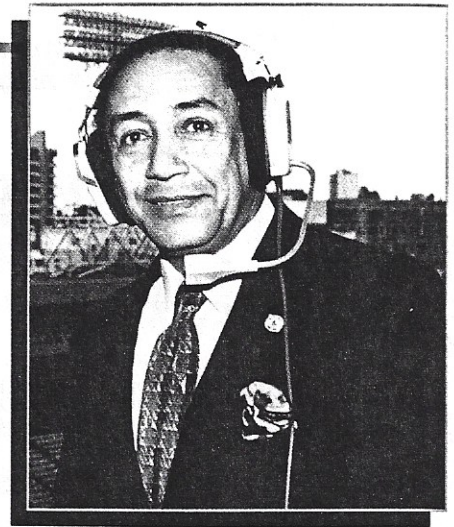


Jerry Trupiano and Joe Castiglione.

replaced Bob Starr, is a graduate of St. Louis University, where he began his busy broadcasting career as a disc jockey on the college radio station. Since then, Jerry has had an impressive list of broadcasting duties. He has covered boxing events, the Houston Aeros of the World Hoc-

key Association (1974), the Houston Rockets (1978-80), Southwest Conference Football (1978-88) and the Houston Oilers (1980-89). He also hosted a talk show for 14 years in Houston. Jerry's baseball broadcasting experience includes play-by-play for the Houston Astros (1985-86) and the

Montreal Expos (1989-90) as well as three games on CBS Radio Game of the Week in 1991.



Bobby Serano

The Red Sox are pleased to be broadcasting to Spanish-speaking Red Sox fans once again this year on WROL-AM. For the second year, all the Red Sox home night games will be broadcast. WROL-AM Boston is the flagship of the Carter Radio Network's five stations (also Hartford, Lawrence, Providence and Springfield) and has been broadcasting Red Sox games in Spanish since 1990. Bobby Serrano returns for his fifth season as broadcaster.

1994 Red Sox Scorebook Magazine, First Edition

RED SOX HISPANIC NETWORK
 WROL-950 WXCT-1220
 WACE-730 WRIB-1220
 WCCM-800

Talks a Great Game

WRKO

The Talk Station / AM 680

112-page book chronicles history of N.H. broadcasting

■ Author proudest of untangling story of TV's beginnings, which led to WMUR being first on air, in March 1954.

By DAVID TIRRELL-WYSOCKI
The Associated Press

MANCHESTER — Who was New Hampshire's first TV anchorman? Which radio announcer's 1963 funeral drew thousands in Keene? What goes on behind the TV camera, or out of earshot in the radio studio? What do radio announcers really look like?

It's all in a just-published history of New Hampshire broadcasting.

The 112-page book has plenty for researchers looking for information about call letters, technical specifications and ownership changes.

But it also describes behind-the-scenes antics, how broadcast pioneers put their reputations and finances on the line and offers mini-histories of some of the state's best-known broadcasters.

"Granite and Ether: A Chronicle of New Hampshire Broadcasting," was more than 2½ years in the making. The title itself is a story, said the primary researcher and author, Ed Brouder.

Granite is an obvious reference to New Hampshire, he said. But ether?

"In the early days, ether was believed to be a property of the atmosphere that conducted electromagnetic waves," he said. The theory was disproved, but the early references to broadcasting always mentioned the gas.

"Newspapers would not say 'So and so's orchestra performed over the air,'" he said. "They would say 'so and so's orchestra was thrown into, or heard on, the ether.'"

Brouder has worked at several Vermont and New Hampshire stations since the early 1970s and owns a broadcast production company in Manchester.

He said he is proudest of untangling the story of television's

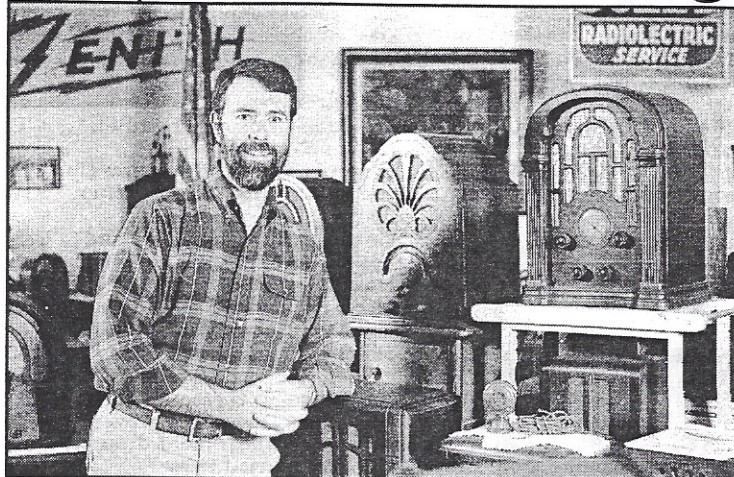


Photo by Jim Cole/The Associated Press

Veteran broadcaster Ed Brouder, researcher and author of "Granite and Ether: A Chronicle of New Hampshire Broadcasting," stands with antique radios in Canterbury on Friday.

beginnings in the state, which included several false starts and political moves and countermoves.

The first TV station, WMUR, went on the air in March 1954, and Manchester almost lost it to Massachusetts when it was sold to a new owner.

TV could have come to Keene earlier. A group had a construction permit for a station there for seven years, but never got the project off the ground. The same happened in Portsmouth, where a group had a license for a Channel 5. It went to Boston instead.

New Hampshire's first commercial radio license went to WEAQ in Berlin in 1922, but there is no evidence the station went on the air.

Seventy-one years later, there are 77 radio and television outlets licensed to the state.

WKAV in Laconia was the first commercial station on the air, in 1922. It broadcast for 10 years until it was silenced by financial problems.

WFEA is the oldest New Hampshire station still on the air, signing on in 1932.

Tom Power was the first TV anchorman, on WMUR. He also had the misfortune of being the first TV anchorman to have a heart attack on the air in 1959, slumping

to the floor as screens went blank. He recovered.

The book contains 166 photos and illustrations ranging from radio towers in an owner's backyard to perhaps the most familiar broadcast personality in state history: "Uncle" Gus Bernier of WMUR's popular children's show.

He said the show began as a fluke in 1959. It ran for 20 years.

Radio personalities were, and often still are, local heroes, even though many could walk down the street without being recognized.

Keene residents shared breakfast with WKNE's Ozzie Wade for 30 years, and thousands turned out for his funeral when he died of a heart attack in 1963.

One mourner said she had not left her home for 22 years, but needed to say good-bye to Wade.

"For 17 years, he started my morning," she said. "It was the least I could do to be here."

The behind-the-scenes stories include a cow wandering into WKXL's ground floor studio in Concord and the time the crew swung a beer bottle back and forth in front of WMUR anchor John Bostwick in the early 1960s. Viewers watched his eyes move left and right as he read the news and tried to figure out what was whizzing by his head.

as a stockbroker in Boston, but was just learning the business of radio — and of running a small business.

"Once you have an understanding of how a small business works, it's not a big stretch to step in and try to run one," says Whitehouse, 47, from Manchester, who owns the business with a silent partner. "It wasn't so much radio as the opportunity to step in and run a small business."

As setbacks go, this registered high on the Richter scale.

"It took all the money we had, and some generous creditors besides, to come back on," says Whitehouse, who could no longer afford to pay staffers. Broadcasters were told to sell their own advertising if they wanted to be paid.

Before he could get his business righted, it got hit with another broadside: kids playing at the station's Danvers' tower site started a fire that damaged the tower and knocked the station off the air again.

This time it was off the air for nine months, and when it resumed operating had been relocated from Pickering Wharf to a converted warehouse. The FCC only permitted it to generate its signal at 125 watts, below the 500 watt directional signal it had been using, which itself had been weak in the market — one-sixth of 3,000-watt competitor WESX in Marblehead.

During any of those times, Whitehouse is asked, did he consider folding?

"With every new catastrophe I thought eventually I'd have to consider that," he says. "We did with the IRS, then with the fire, and then when the transmitter blew out a little while ago — that was short, a passing thought — but with the two big ones, yes."

The station caught a break when Endicott stepped into the picture last fall. John Colantoni of Colantoni Productions, who works in a consulting basis with the school, suggested that the move might benefit both parties; the station needed studio space and the presence of the station on campus would be an enhancement to students considering enrolling in the school's communications department. Colantoni and Tolley have a long-standing business relationship.

WNSH moved in in February, and Whitehouse has been working on an arrangement with the

school's president, Dr. Richard Wiley. That arrangement is still being worked out, but will likely include an internship program for students.

"Especially in the last year, Gary has done more work as far as the operation of the business is concerned," Whitehouse says. "I have done the background work necessary to provide a future for

I f he wants to give an eye-in-the-sky traffic report, he's got to pound his chest to make it sound like a helicopter.

the station ... Somebody's got to keep the day-to-day operation going while somebody else goes and paves the way for the future.

"My priority right now is to finish our deal with Endicott," he says, "because I think that will open the door to coming back to full power."

Whitehouse sees the move to Endicott as more than a turning point.

"It was a Godsend," says Whitehouse, a religious man. "I see a Godly hand in things working out for us, as opposed to it being just coincidence. The things that could have happened to us are so many, from my perspective I see God's hand guiding us though and opening up these opportunities for us, which solved the problems just as they were needed."

"When this deal became a possibility, it appeared there was no door open to us," he adds. "And then the door opened with the college, and a couple of other potential investors made their interest known. Although the deal they wanted was to take ownership away, and we considered that a less attractive option."

Reformatting

Between the IRS shutdown and the fire, Tolley entered the scene. Under the air name Gary Oliver, Tolley started at WNSH as the salesman, host and producer of his own show, "The Lost Decade," playing hits of the 1970s. At that time, WNSH had an all-brokered format, in which indi-

vidual producers would buy time and put on their own shows. It was a business strategy necessitated by the station's financial hardship, but also something becoming more common among AM stations.

"If you had cash and a concept, you could have your own show," says Tolley, who says his advertisers left their dial tuned to 1570, but didn't like the mishmash of styles and varying levels of professionalism.

"I had to convince Neil that it wasn't in the best interests of the station, and that the programing didn't fit the format conducive to local radio," says Tolley, who programmed an adult contemporary format. "The problem with brokered radio is that you don't have continuity. People don't know what they're going to hear when they tune in."

While small stations traditionally pay short money, the jocks at WNSH make less. They make zip. Which gives them little latitude over what they play.

"It's all-volunteer, but they have to do what we want them to do," Tolley says. "This is a professionally-run, -owned and -operated commercial broadcast station."

To make ends meet, they work other jobs. Glen Turner, 23, of Salem works at Penni's grocery store for cash and does drive time three afternoons a week. Clark, who stays at the station during the mid-day shift writing and taping news (or reading it live), supports himself by working as a disk jockey for hire and as a "senior sales associate" at Coconuts record store in Saugus.

"I don't get much sleep," he concedes. "It's a crazy life, but I like it because I'm happy with what I'm doing. I'd been dealing in retail (for Jordan Marsh) for so many years, and in that business something will be due today and you'll get two other things you have to do and you figure out how to juggle them all. If it means putting in 40 hours and then some, you put in the 40 hours and then some."

"If you believe in what you're doing, and feel strongly enough, you're going to do it."

What most of the jocks are looking for is a chance, which will hopefully lead to another chance. Many started in other careers but switched to broadcasting. They

CONTINUED

WNSH

have gone to schools like Northeast Broadcasting School or the Connecticut School of Broadcasting. A number have gotten a foot in the door at other stations, or in other forms of media, but do shifts at WNSH to improve their on-air skills.

Musician Mark Calder, 33, of Beverly runs the control board overnights at all-classical WBACH, a job he got after working as an intern for alternative rock WFNX. He does Friday night shifts at WNSH because running the board alone at WBACH won't help him maximize the gifts of a deep, resonant voice.

"It's one thing to have a great voice and another to know how to use it," he says. "Even though this is a small station, it's practice each week which forces me to pay attention and stay on the ball."

Waltham's Scott Wheeler, 43, works as Boston-based WBCN's "Rock Lobster," making promotional appearances dressed in a 6-foot tall lobster suit. He's also done some substitute DJ work and worked as a producer.

"I was told by Oedipus, the program director, to get commercial radio experience," says Wheeler, who works one afternoon drive shift a week. "All I had at that point was college radio experience ... It's nice that they've given us this opportunity to work for a viable commercial station, as opposed to something on campus that only a small number of kids listen to."

The experience has already paid off for Brendon Lynch, 23, of Salem, WNSH's creative mid-day shift personality. A former producer for Sunny Joe White on WZOU (now Jammin' 94.5), he'd left the

business to work as an EMT, but came back because he missed the business. On Monday he went to Pennsylvania for a job interview, and at mid-week was mulling an offer from a large FM station.

"It happens," he says. "The thing about WNSH is, it may be a small AM station, but it's resume. It's experience."

"And if you look at where it is, Beverly-Salem, somebody in radio looks at that and sees it's just 30 miles north of Boston. For a young guy starting out, it's a great way to get started."

North Shore Sunday reporter David Rattigan formerly worked as a free-lance sports and news broadcaster at WNSH from 1990 through 1991.

Don't touch that dial!

What's playing on the radio station in your town? Here's a rundown:

The graphic features a diagonal radio dial with frequency markers from 540 to 1600. Callouts provide details for several stations:

- WBMT (88.3 FM)**, Boxford. Masconomet Regional High School radio station. 820 watts. 9 a.m. to 9 p.m. Rock, specialty shows.
- WMWM (91.7 FM)**, Salem. 130 watts, Salem State College radio station, 7 a.m. (9 a.m. during the summer) to midnight. Alternative rock music, with rap 3 p.m. to 6 p.m. daily and specialty music shows on weekends.
- WFNX (101.7 FM)**, Lynn. 3,000 watts. 24 hours. Alternative album-oriented rock.
- WROL (950 AM)**, Saugus. 5,000 watts, 1,000 after sunset, 6 a.m. to 8 p.m. (to 1 a.m. on weekends). Brokered, largely religious with Irish Hit Parade on Sunday, The Great Yankee Kitchen. Also flagship for Red Sox broadcasts in Spanish.
- WBOQ a.k.a. WBACH (104.9 FM)**, 3,000 watts, 24 hours. Classical favorites.
- WLYN (1360 AM)**, Lynn. 1,000 watts. 5 a.m. to midnight. Ethnic (Greek, Italian, Haitian) and brokered.
- WNSH (1570 AM)**, Beverly. 125 watts (licensed for 500 watts). 6 a.m. to 10 p.m. Adult contemporary with specialty programming on weekends.
- WESX (1230 AM)**, Marblehead. 1,000 watts. 24 hours. Local news, talk and sports, easy listening music. Special interest shows on weekends.

NBC, and likely Fox, to court Channel 7

By Ed Siegel
GLOBE STAFF

It's going to be Liz and Jack and Connie and Dan. David Letterman will be returning to Channel 4. "The Young and the Restless" will pull up stakes and move from Channel 7 to Channel 4, as will Mike Wallace and Murphy Brown.

WBZ-TV (Ch. 4) set a programming earthquake in motion yesterday when its corporate parent, Westinghouse Broadcasting, ended the station's 46-year affiliation with NBC. WBZ, along with the other four Group W stations, will move to CBS within six months.

And what does this mean for the station that is losing its CBS affiliation? WHDH-TV, Channel 7, will be wooed by NBC and, most likely, Fox Broadcasting. And if Channel 7 does decide to let Fox's Bart Simpson and Aaron Spelling lead them to the promised land of younger viewers, where, oh where, will we find Jerry Seinfeld, Tom Brokaw, Charles Barkley and Jay Leno?

"All I know," said Ed Ansin, owner of Channel 7, "is that when all is said and done there are going to be four networks and three VHF affiliates in Boston." Channels 4, 5 and 7 are the three local broadcast stations — those on the very high frequency band, between 2 and 13 — he's talking about. While UHF (ultra high frequency) stations are not the weak siblings they once were, they are still not in the same league as the VHF's. With Channel 4 about to be married to CBS and Channel 5 committed to a long-term relationship with ABC, that leaves Ansin in the enviable position of being a prize catch for NBC or Fox.

Local newscasts and other local programs like "Chronicle" will stay by and large the same, with some changes possible on Channels 4 and 7 depending on the strengths of the networks. Most syndicated programming — national programs that don't come from the networks — will also stay the same. "Wheel of Fortune" and "Jeopardy" stay on Channel 7; "Oprah" stays with Channel 5; "Entertainment Tonight" and "Maury Povich" with Channel 4.

Aside from that, here's what the new landscape will look like.

Channel 5: WCVB now inherits the stability mantle because its corporate owner, Hearst, and ABC are a happy couple with joint cable ownerships in ESPN, Lifetime and Arts & Entertainment. All ABC programs will continue to be seen on Channel 5. One upcoming change, though, that will have repercussions for the other stations is a move to a 5-6:30 p.m. newscast, with "Inside Edition" probably airing at 7 and "Chronicle" at 7:30.

Channel 7: WHDH owner Ed Ansin will be wooed by NBC like no one since David Letterman. Having lost a strong affiliate in Channel 4, NBC will be desperate to keep a station on the VHF band in Boston, and Ansin is the only game in town. Whatever happens, Ansin will inherit younger demographics. NBC is strong in the 21-54 group and Fox in the 18-34.

Fox owner Rupert Murdoch might not give him the choice of switching, as Murdoch has an option to buy Channel 25. But most broadcasting observers think that he would give that up to put Fox on a VHF station in Boston.

Ansin wants Channel 7 to be the news of choice in Boston. If he were to make the change to Fox, he would keep his 7-9 a.m. newscast and could add a 10-11 p.m. newscast, or even make it a 10 p.m.-midnight program if Fox doesn't come up with a late-night

show. And he inherits a younger audience that seems to like the faster-paced newscast that WHDH has been trying to make its trademark.

To get that, he sacrifices quite a bit from NBC: A nationally known and respected news division; the aforementioned sports franchises (and in Boston the AFC telecasts on NBC are more popular than Fox's NFC games); a prime-time lineup that, though diminished, still delivers more viewers than Fox; and a late-night lineup.

Ansin is going to have to crunch some numbers and decide whether younger demographics and increased opportunities for news outweigh the more traditional advantages of network affiliation.

'All I know is that when all is said and done there are going to be four networks and three VHF affiliates in Boston.'

ED ANSIN

Channel 4's deal with CBS delivers a jolt to Boston TV

Channel 4: WBZ becomes a CBS affiliate, meaning that almost all the soap operas and prime-time programs now seen on Channel 7 will be on Channel 4, along with "The CBS Evening News" and "Late Show with David Letterman."

Whatever the financial benefit to Group W of the new alignment might be, there could be several disadvantages for Channel 4. It has been the stable station in town, never affiliated with any network except NBC, while Channels 5 and 7 have gone through two previous realignments, the last in 1972. Channel 4's audience have been among NBC's most loyal viewers.

Channel 4 loses all the benefits of NBC's carriage of Boston sports teams through national contracts with Major League Baseball, the National Football League and the National Basketball Association. NBC's football contract is with the AFC, which means that almost all the Patriots' away games and some home games will move to the new Boston NBC affiliate. In addition, Channel 4 loses "Today" and such mega-events as the World Series and Super Bowl (on a rotating basis) and the NBA Championships, along with next year's Summer Olympics. Channel 4 also gains, if that's the word, CBS's older demographics and weak prime-time lead-ins to the 11 p.m. news, both of which could mean a decrease in advertising revenue.

One big advantage it gains is the powerful CBS afternoon lineup of soap operas, which will deliver a much larger audience to its new 4-7 p.m. lineup

of programs. (Story, Page 52.) Channel 4 will not preempt "CBS This Morning," but will be able to maintain its Saturday morning newscast rather than show CBS cartoons.

Channel 25: Rupert Murdoch is going to have to crunch some numbers of his own. Gerald Walsh, general manager of WFXT (Ch. 25), says it would be more profitable for Murdoch to own the station than to "rent space" on Channel 7. Walsh also says that the difference between a VHF and UHF station isn't a major factor anymore.

Walsh's colleagues dispute that. One said it's the only factor, and that Ansin will have an enviable choice between Fox and NBC. If he goes with Fox, then Walsh said he would definitely want to be affiliated with NBC.

If NBC goes to a UHF station, does that mean Tom Brokaw's nightly news will be surrounded by reruns of situation comedies? No, said one general manager who didn't want to be identified. An NBC affiliation would change the whole corporate profile of whichever station it went to, and that station would then add a local newscast.

Channel 38: WSBK could decide to give up its sports contracts with the Red Sox, Bruins and Celtics and go with NBC. Rights fees keep going up and availability keeps going down as cable takes more and more games. Sports is also an uncertain business, depending on the success rates of the teams involved.

Channel 56: WLVI is owned by the Tribune Co., which is affiliated with the new Warner network. Does that preclude the station from going with NBC? General manager Peter Temple wouldn't comment, and perhaps that in itself is proof that in the new television environment anything is possible.



NEWS

Boston's TV shuffle will put NBC on Ch. 7

Fox loses its bid to switch affiliation

By Frederic M. Biddle
GLOBE STAFF

WHDH-TV (Ch. 7) yesterday said it will become an NBC-affiliated station, ending the greatest cliffhanger in local broadcast history.

In the 2.1 million television households from Cape Cod to the Rhode Island border to central New Hampshire that watch WHDH and current NBC affiliate WBZ (Ch. 4), a swap of decades-old station identities will result. Sometime between the end of this month and January 1995, Channel 7's current CBS programs will start appearing on Channel 4 and Channel 4's NBC programs will start showing up on 7.

The scenario announced yesterday was the latest in a series of television-station defections and reaffiliations engineered by the nation's four big networks in recent weeks. But Boston's station swap will affect viewers here more straightforwardly than recent reaffiliation deals elsewhere.

Seinfeld and Jay Leno will trade channels with David Letterman and Dan and Connie. There is also the possibility that New England Patriots football games will begin the season on

Channel 4 and end it on Channel 7. Even so, "in the end, we'll have the least interruption in viewing habits this way," said Rosemary Bell, an executive vice president of Needham-based Pro Media, which buys commercial time.

On July 14, CBS began the local round of broadcast musical chairs, announcing it would leave Channel 7 for Channel 4. The move was the result of a long-term affiliation deal the network had struck with Group W Television, which owns Channel 4.

NBC pays top dollar to stay on VHF dial

By Frederic M. Biddle
GLOBE STAFF

No one's calling it a record. But the immense sum NBC will pay as part of the 10-year affiliation deal with WHDH-TV (Ch. 7) that was announced Tuesday further proves how valuable VHF television stations have become to the networks in recent weeks.

The Boston Globe,
August 3, 1994

The Boston Globe,
August 4, 1994

NBC will pay Sunbeam Television Corp., the station's owner, a total of \$100 million to \$150 million over the next 10 years, said industry sources who requested anonymity. A "balloon" provision will increase annual payments in the later years of the affiliation agreement, these sources said, meaning that the payment will be at least 10 times the \$1 million to \$1.25 million a year that CBS, WHDH's current network, pays the station.

A 10- to 15-fold increase for the privilege of renting time on a local station might seem to defy logic. After all, NBC - with its valuable lineup, including everything from Patriots football games to Jay Leno - will be the engine that should boost WHDH's own most profitable programs: its newscasts. And the station shares with NBC the revenues from commercial time sold on network programs, too. And, unlike some affiliation agreements, the one struck between WHDH and NBC doesn't even link payments to ratings performance.

However, because NBC was facing the prospect of searching for a new Boston affiliate on the lower-powered UHF dial (which might have cost it precious ratings points), it was difficult to put a price on affiliation with WHDH. That's what NBC, ABC and CBS have been discovering in other markets in recent weeks, since rival Fox launched its May raid that bumped networks from their affiliates in several big cities. NBC was forced to negotiate with WHDH after Group W Television - which owns WBZ-TV (Ch. 4), NBC's current Boston affiliate - announced a 10-year affiliation deal with CBS last month.

NBC wouldn't comment on the compensation figures. Neither would Ed Ansin, Sunbeam's president, though he did acknowledge that the timing of Sunbeam's purchase of the station last year for \$215 million was "most fortunate."

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250,000 Soul Black Market

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General & Nat'l Sales Mgr., Leroy Garrett;
Regional Sales Mgr., Bruce H. Garrett.

Source: Official 1970 Census of Population, Black population by county

New Hampshire's

95.7 fm WZID

The BEST VARIETY of the 70's, 80's, & 90's.

RADIO HIGHLIGHTS

Convention Saturday

- 7:00am WARE-1250: *Country Good Time Oldies*. All-request C&W oldies with Dick Holden.
- 9:00am WGIR-610: *The Movie Show*. Reviews of current and new movies premiering in the area.
WLKW-790: *Classical Profiles*. Reviews of current releases and artist profiles (AM Stereo).
WCCM-800: *Sid Mark*. Nostalgia.
- 10:00am WEVO-89.1/90.3: *Car Talk*. Entertaining advice on auto repair with hosts Click and Clack.
- 11:00am WRCA-1330: *The Caribbean Connection*. Music and news from the islands with hosts David Martin and Angel (AM Stereo).
WEVO-89.1/90.3: *New Hampshire This Week*. NH news, politics, and current affairs.
WBUR-90.9: *Car Talk*.
WCCM-800: *Caravana Musical Hispana*. Merengue and salsa hits.
- 1:00pm WMEX-1150: *Radio Fabulosa*. Merengue and salsa hits with Jose Alberto, the Boston area's number one Spanish DJ (AM Stereo).
- 2:30pm WGIR-610, WRKO-680, WKXL-1450 & 102.3: Boston Red Sox at Kansas City (subject to change due to baseball strike).
- 3:00pm WRCA-1330: *The Bill Marlowe Show*. Nostalgia and commentaries on today's music, until 8:00pm (AM Stereo).
- 3:30pm WROL-950: *Irish Hit Parade*. "The world's number one Irish music DJ" Paul Sullivan plays the best of traditional music.
- 4:00pm WCAP-980: *Money Talk*. Advice on money and investing.
- 7:00pm WLYT-92.5: *Saturday Night Classics*. All-request oldies.
WMEX-1150: *Radio Concorde*. French-Creole news and music for the Haitian community (AM Stereo).
WBZ-1030: *Lovell Dyett*. Locally produced live talk show, open lines.
- 11:00pm WBZ-1030: *Norm Nathan*. Local live talk, open lines and special guests.

Convention Sunday

- 7:00am WCTK-98.1: *Polish Happy Time*. Polka music and news from Poland, until 10:00am.
- 8:00am WGIR-101.1: *The Wax Museum*. '60s and '70s classic rock, until noon.
- 10:00am WGIR-610: *Sunday Sports Showcase*. Sports news, scores, local talk.
WSSH-1510: *Singles Hotline*. Dating service with Dick Syatt.
- 11:00am WILD-1090: *In Unison*. Frank discussion of current events in Boston area's minority communities.
WEZE-1260: *Park St. Church Sunday Service*. Live from Park St. Church in Boston.
- 12:00pm WILD-1090: *Caribbean Cruise*. The latest dancehall reggae and soca with Jammin' Joe Johnson.
- 1:00pm WBZ-1030: New England Patriots at Miami.
- 6:00pm WCAV-97.7: *Ed Miller & The Detective*. All-request country oldies, until 10:00pm.
- 6:30pm WEZE-1260: *Park St. Church Evening Service*. Live from Park St. Church in Boston.
- 7:00pm WHOB-106.3: *Flashback To The '80s*. 1980s rock requests.
WBMX-98.5: *The Lost 45s*. Barry Scott with songs you thought you'd never hear again on the radio, until 10:00pm.
- 8:00pm WGIR-610, WRKO-680, WKXL-1450 & 102.3: Boston Red Sox at Kansas City (subject to change due to baseball strike).
- 9:00pm WHOB-106.3: *UK Chart Attack*. UK hits and Top 5 countdown.

TOWER TIPS

Boston Area Transmitter Sites Scott Fybush - Waltham, MA

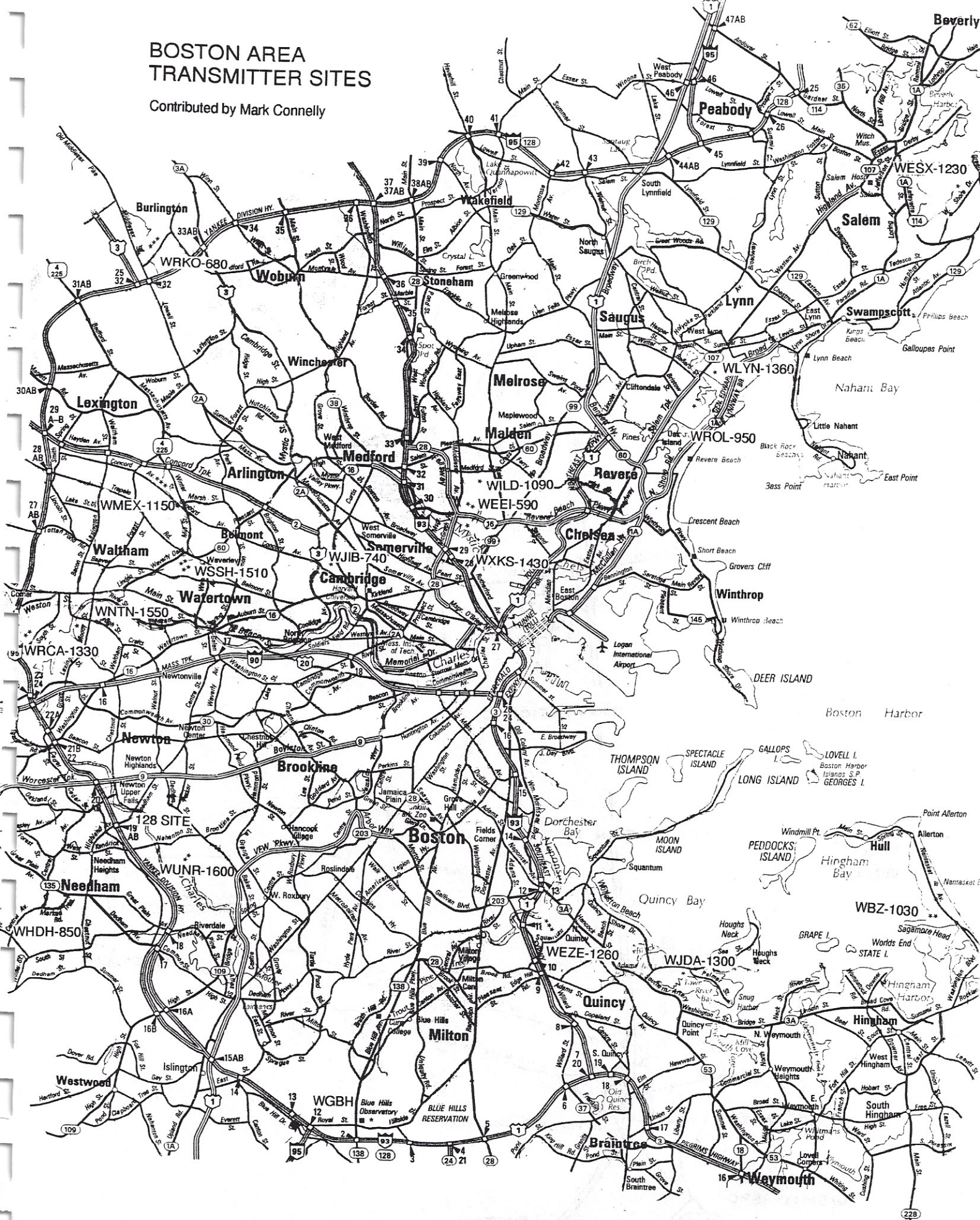
- 590 WEEI - 4753 Mystic Valley Pkwy, Medford.
- 680 WRKO - Next to Burlington Mall, at Routes 3 & 128 (I-95).
- 740 WJIB - At studio, 443 Concord Ave, Cambridge, east of Fresh Pond circle.
- 850 WHDH - Central Ave, Needham, just past the dump.
- 950 WROL - Route 107, Saugus (historic WHDH site, pre-1947).
- 980 WCAP - Totman Road, Lowell.
- 1030 WBZ - 45 Newport Road, Hull (near Nantasket Beach).
- 1060 WBIV - Route 126, Ashland.
- 1090 WILD - Off Route 16, near Wellington Circle, Medford.
- 1120 WADN - Behind shopping plaza on Route 62, Acton.
- 1150 WMEX - Concord Ave, Belmont (also historic 100.7 site).
- 1200 WKOX - At studio, 100 Mt. Wayte Ave, Framingham.
- 1230 WESX - At studio, Nagus Ave, Marblehead.
- 1260 WEZE - Riverside Drive, Milton (off Granite Ave).
- 1300 WJDA - Sea St, Quincy (off of Route 3A).
- 1330 WRCA - Behind WCRB studios, 750 South St, Waltham.
- 1360 WLYN - Route 107, Lynn (also 101.7 backup site).
- 1390 WPLM - At studios off Route 3, Plymouth.
- 1400 WLLH - Along Merrimack River on Pawtucket Blvd, Lowell.
WLLH - Atop building, 46 Amesbury St, Lawrence.
- 1430 WXKS - At studio, 99 Revere Beach Parkway, Medford.
- 1490 WHAV - Observatory Road, Haverhill (with 92.5).
- 1510 WSSH - 411 Waverley Oaks Road (Route 60), Waltham.
- 1550 WNTN - At studio, 143 Rumford Av, Newton.
- 1570 WNSH - Endicott College, Beverly (just moved).
- 1600 WUNR - Saw Mill Brook Parkway, Oak Hill, Newton.

- 88.1 WMBR - Atop graduate dorm, Ames St, Cambridge (MIT).
- 88.9 WERS - One Financial Place, Boston.
- 89.7 WGBH - Great Blue Hill, Milton.
- 90.3 WZBC - Boston College.
- 90.9 WBUR - "FM 128" site, Chestnut St, Newton Lower Falls.
- 91.9 WUMB - Atop water tower, Quincy.
- 92.9 WBOS - "FM 128" site.
- 93.7 WCGY - Chandler Road, Andover (WCCM-800 too!).
- 94.5 WJMN - "FM 128" site.
- 95.3 WHRB - Holyoke Center, Harvard University.
- 96.3 W242AA - At WMBR site.
- 96.9 WBCS - "FM 128" site.
- 98.5 WBMX - "FM 128" site.
- 99.5 WSSH - Holmes Road, Wood Hill, Andover.
- 100.1 WBRS - Rabb Graduate Center, Brandeis Univ, 415 South St., Waltham.
- 100.7 WZLX - Prudential Center, 800 Boylston St, Boston.
- 101.7 WFNX - Next to Malden Hospital, Malden/Medford line.
- 102.5 WCRB - WBZ-TV tower, 350 Cedar St, Needham.
- 103.3 WODS - "FM 128" site.
- 104.1 WBCN - Prudential Center.
- 105.7 WCLB - "FM 128" site.
- 106.7 WMJX - Prudential Center.
- 107.3 WAAF - WSHH-TV tower, 71 Parmenter Road, Hudson.
- 107.9 WXKS - Prudential Center.

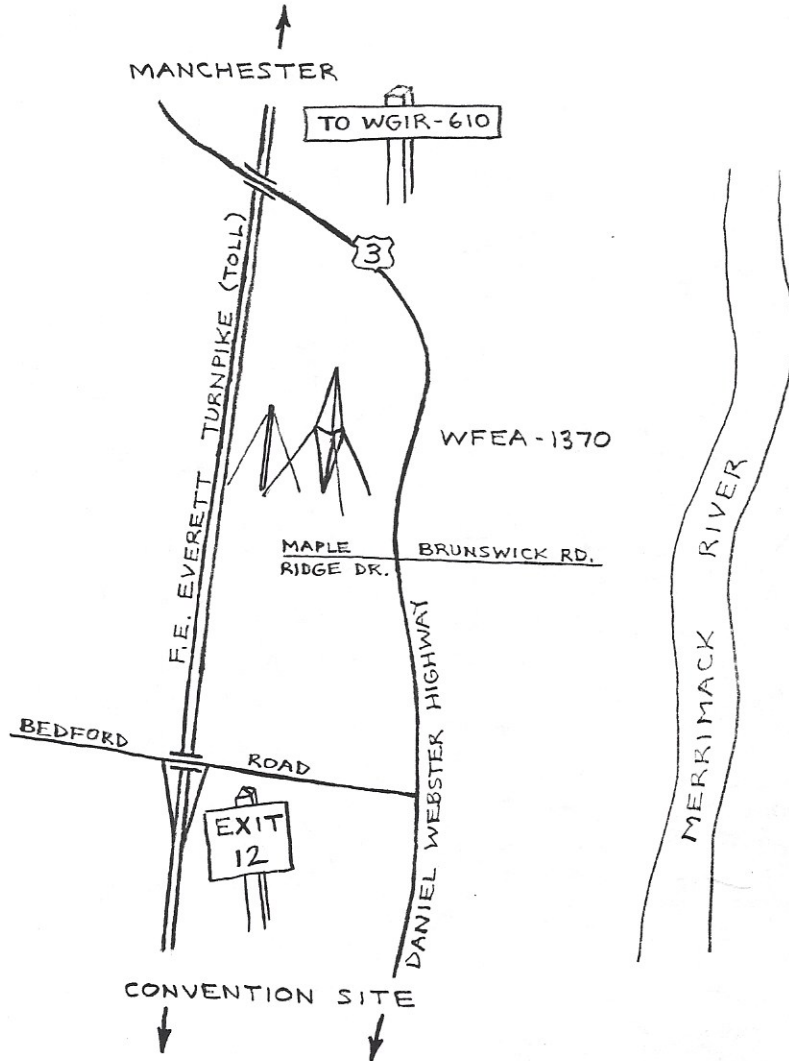


BOSTON AREA TRANSMITTER SITES

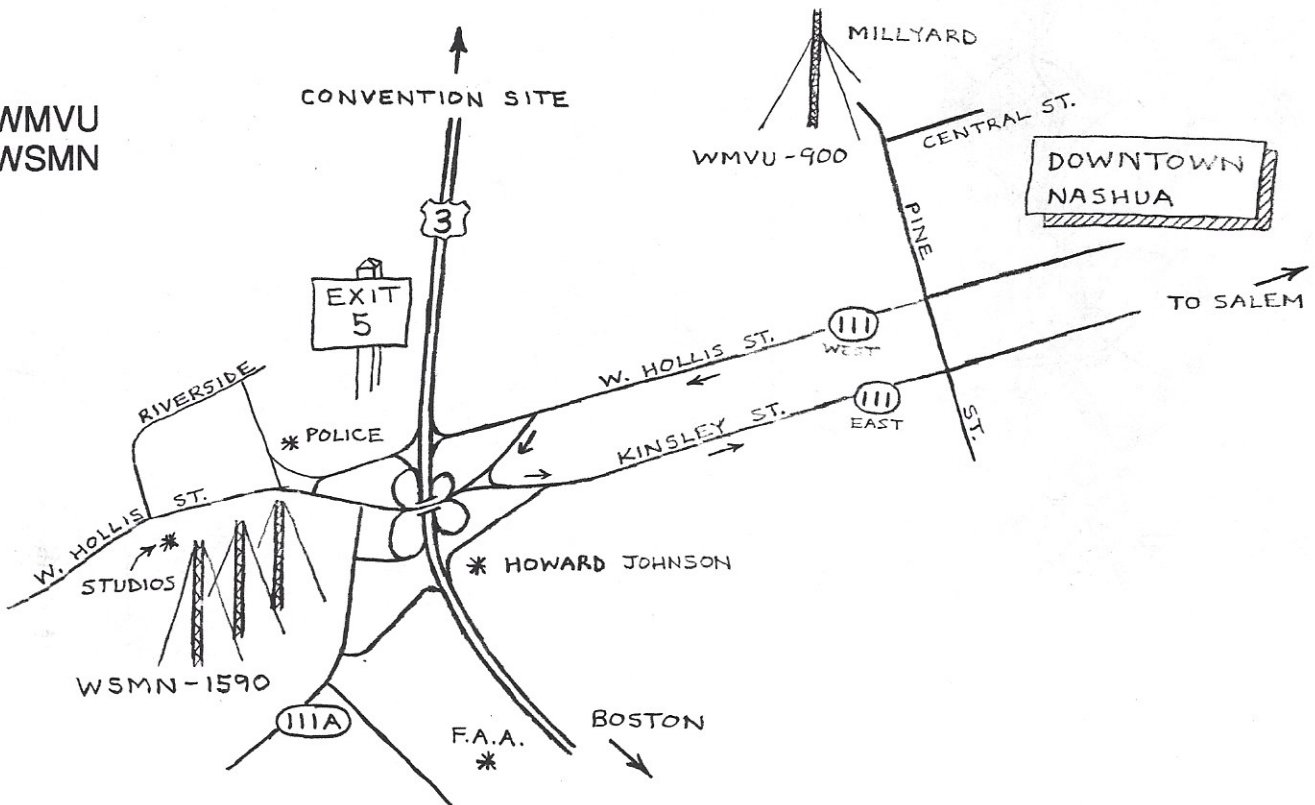
Contributed by Mark Connelly

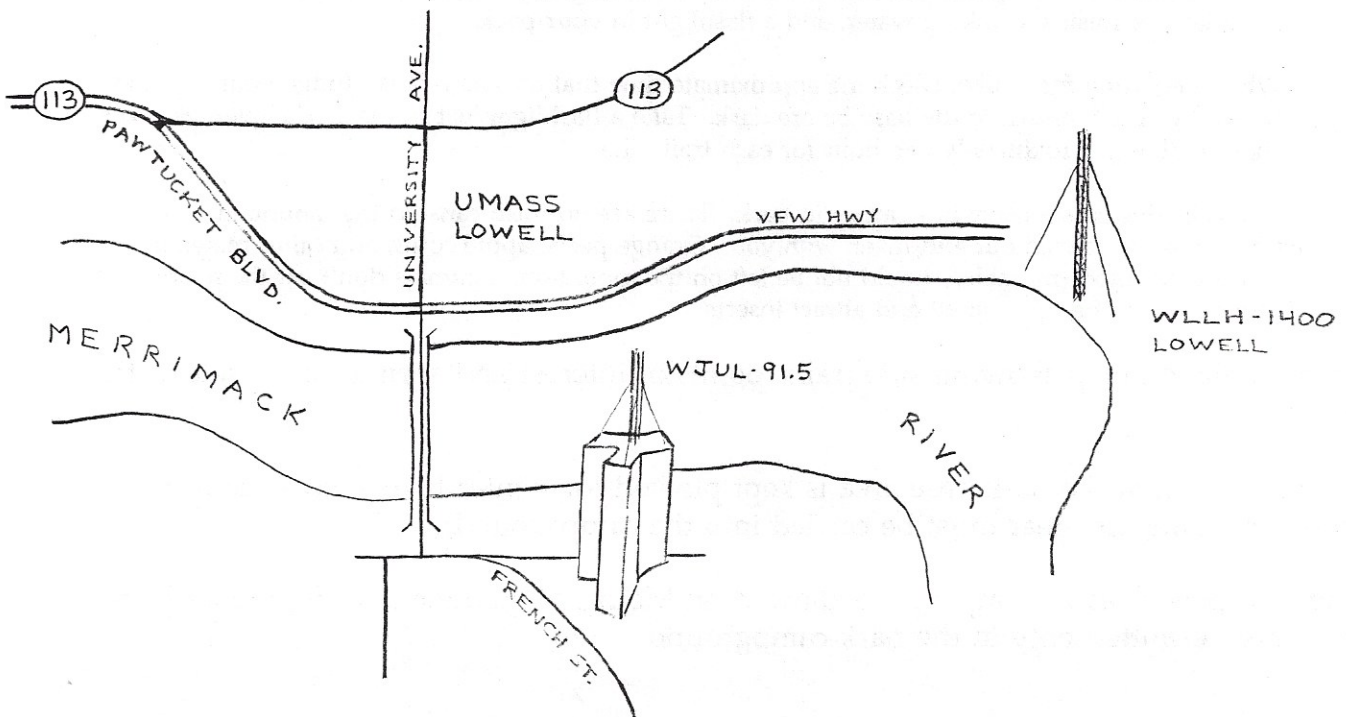
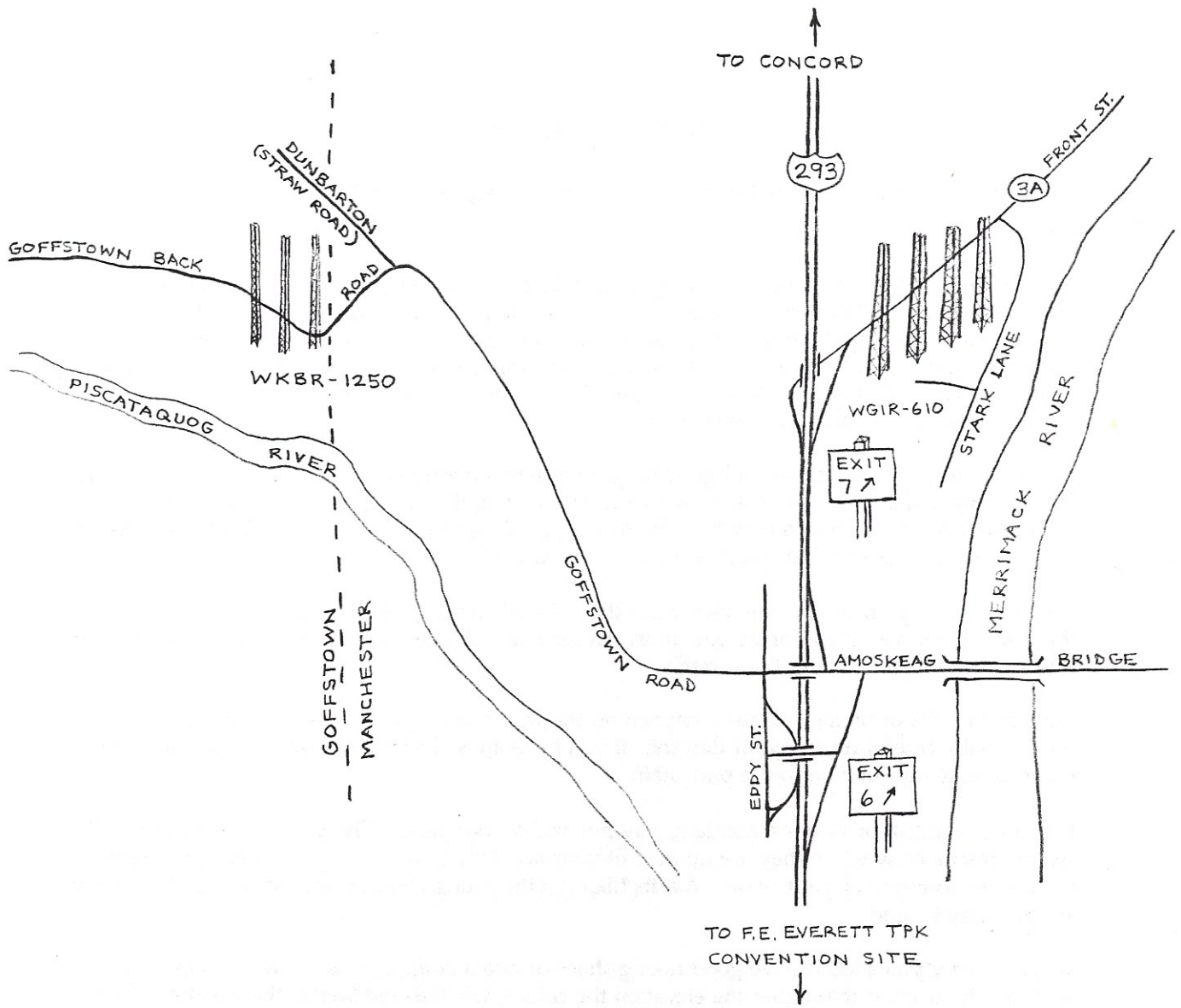


WFEA



WMVU
WSMN





Hiking Information

The following information may help make your hike up Mount Monadnock safe and enjoyable.

Hiking on the edges of trails, or parallel to them, to avoid puddles, mud or ice causes serious erosion problems. Plants are trampled, soil is compacted, and a way is opened for the uncontrolled flow of water running down the mountain during spring thaws and heavy rains. Deep eroded gullies are quickly cut into the trail detours and are nearly impossible to repair. During wet or icy conditions be prepared to walk on ice, in puddles, and through mud in order to remain well within the bounds of the established trails.

Be sure to use common sense and good judgement when hiking in inclement weather, especially in early spring and late fall. The summit area is bare rock and exposed to wind, rain, and lightning. Rain on the lower mountain may be snow or sleet at higher elevations. A hiker can easily lose the way in heavy clouds or dense fog. If in doubt...**turn back**.

When planning your return trip, remember that all trails leading off the summit **do not** return to the same place. Pay attention as you approach the summit; check your map and look for the right trail markers before leaving the summit.

Remember, 95% of hiking accidents happen on the way down a mountain when hikers are tired. Be especially careful during your descent. If you have an accident and need help, ask a fellow hiker to relay information to the park staff.

If you become lost or have an accident, stay put and do not panic. The park staff will organize a search/rescue crew when they are notified of your accident or absence. It is important to leave word with someone of your plans. Adults hiking with young children should not let them stray ahead or lag behind.

To hike safely you should have good hiking shoes or boots, a light jacket or windbreaker, and a sweater. Remember the higher the elevation the colder, windier and wetter the weather. Warmer gear is needed in the spring and fall. Also carry an emergency supply of foods such as cheese, chocolate, or raisins, drinking water, and a flashlight in your pack.

When preparing for a hike, check the approximate time that darkness falls. Judge your trip and time so you will return to the base before dark. Take a flashlight just in case. The average hiker should allow approximately one hour for each trail mile.

Mt. Monadnock is a carry in - carry out park. There are no trash cans on the mountain. All your trash must be carried out and taken with you. Orange peels, apple cores, and other materials considered "biodegradable" should not be left on the mountain. Animals don't eat them; and in the process of rotting, they smell and attract insects.

A more detailed map showing side trails, points of interest and springs is for sale at the park office.

The parking lot at the park base area is kept plowed for winter hikers, cross country skiers, and campers (gear must be carried into the campground).

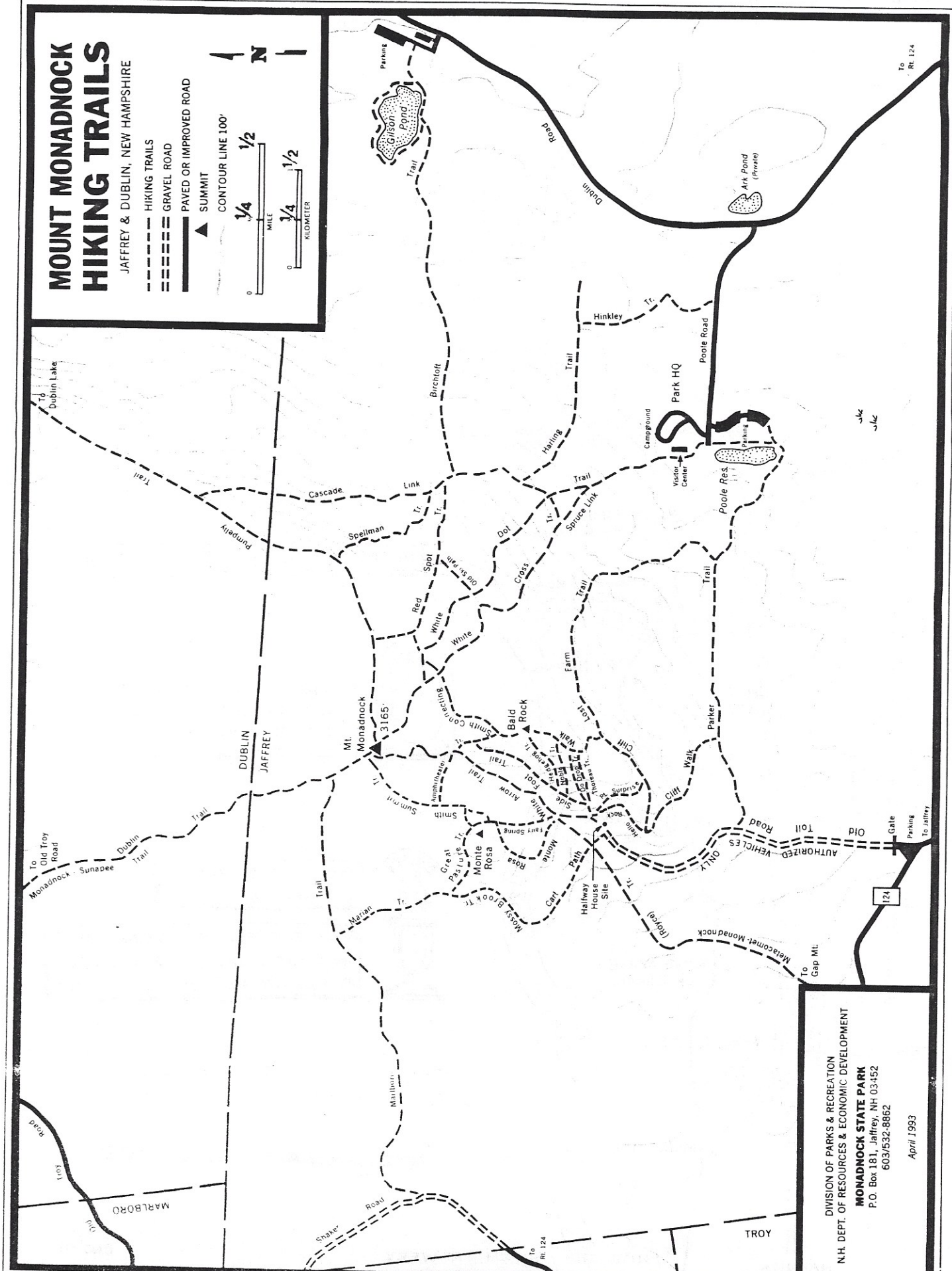
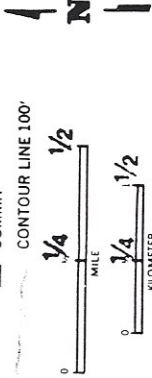
Note: No pets, fires or camping are allowed on Mount Monadnock. Camping and fires are permitted only in the park campground.

MOUNT MONADNOCK HIKING TRAILS

JAFFREY & DUBLIN, NEW HAMPSHIRE

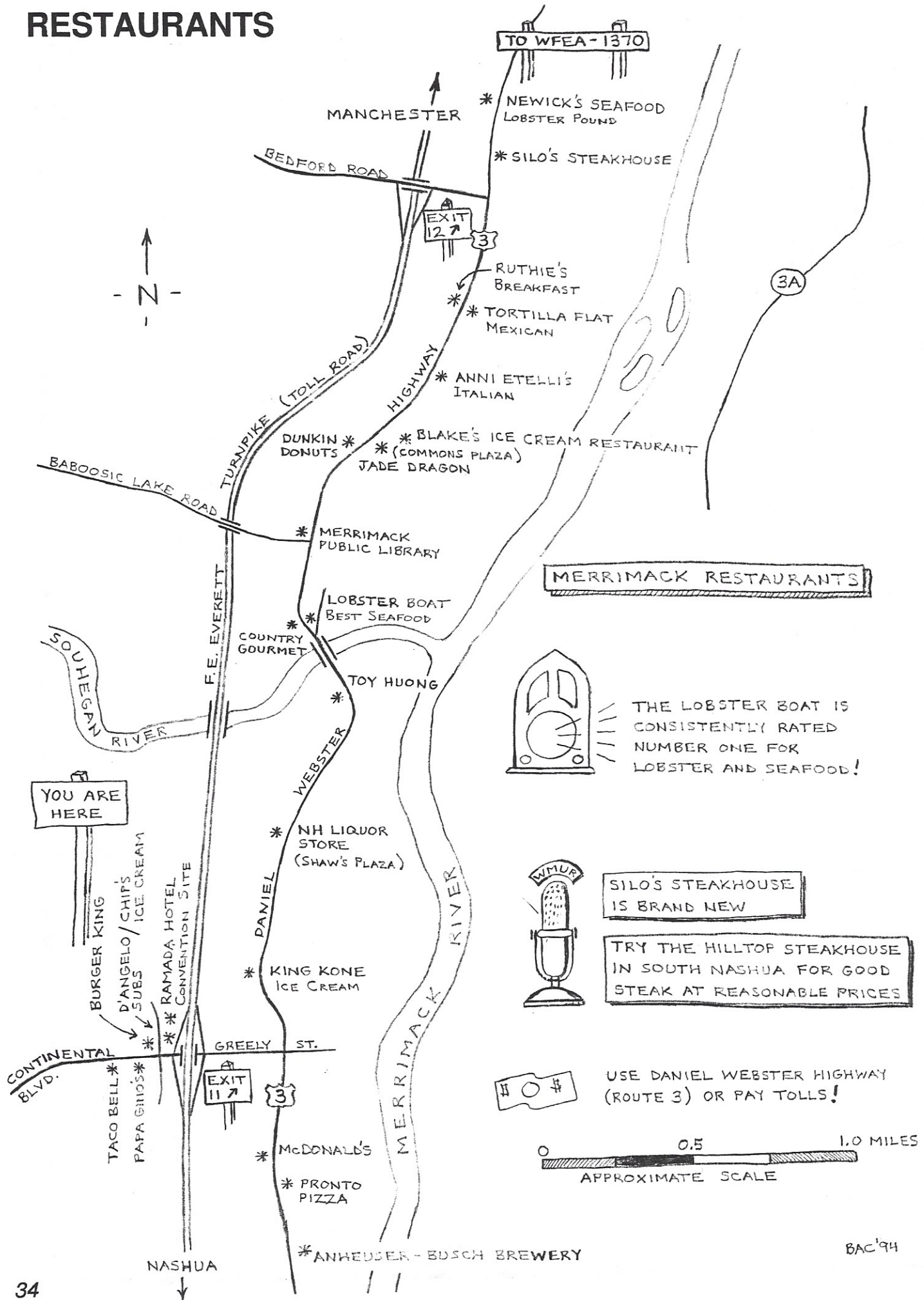
--- HIKING TRAILS
 - - - - - GRAVEL ROAD
 = = = = = PAVED OR IMPROVED ROAD

▲ SUMMIT
 CONTOUR LINE 100'

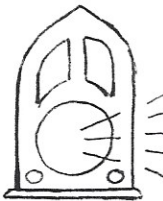


DIVISION OF PARKS & RECREATION
 N.H. DEPT. OF RESOURCES & ECONOMIC DEVELOPMENT
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 P.O. Box 181, Jaffrey, NH 03452
 603/532-8862
 April 1993

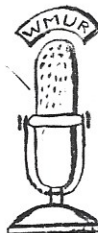
RESTAURANTS



MERRIMACK RESTAURANTS



THE LOBSTER BOAT IS CONSISTENTLY RATED NUMBER ONE FOR LOBSTER AND SEAFOOD!

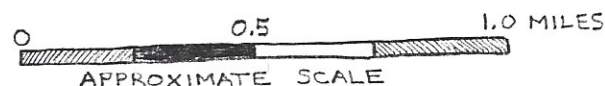


SILO'S STEAKHOUSE IS BRAND NEW

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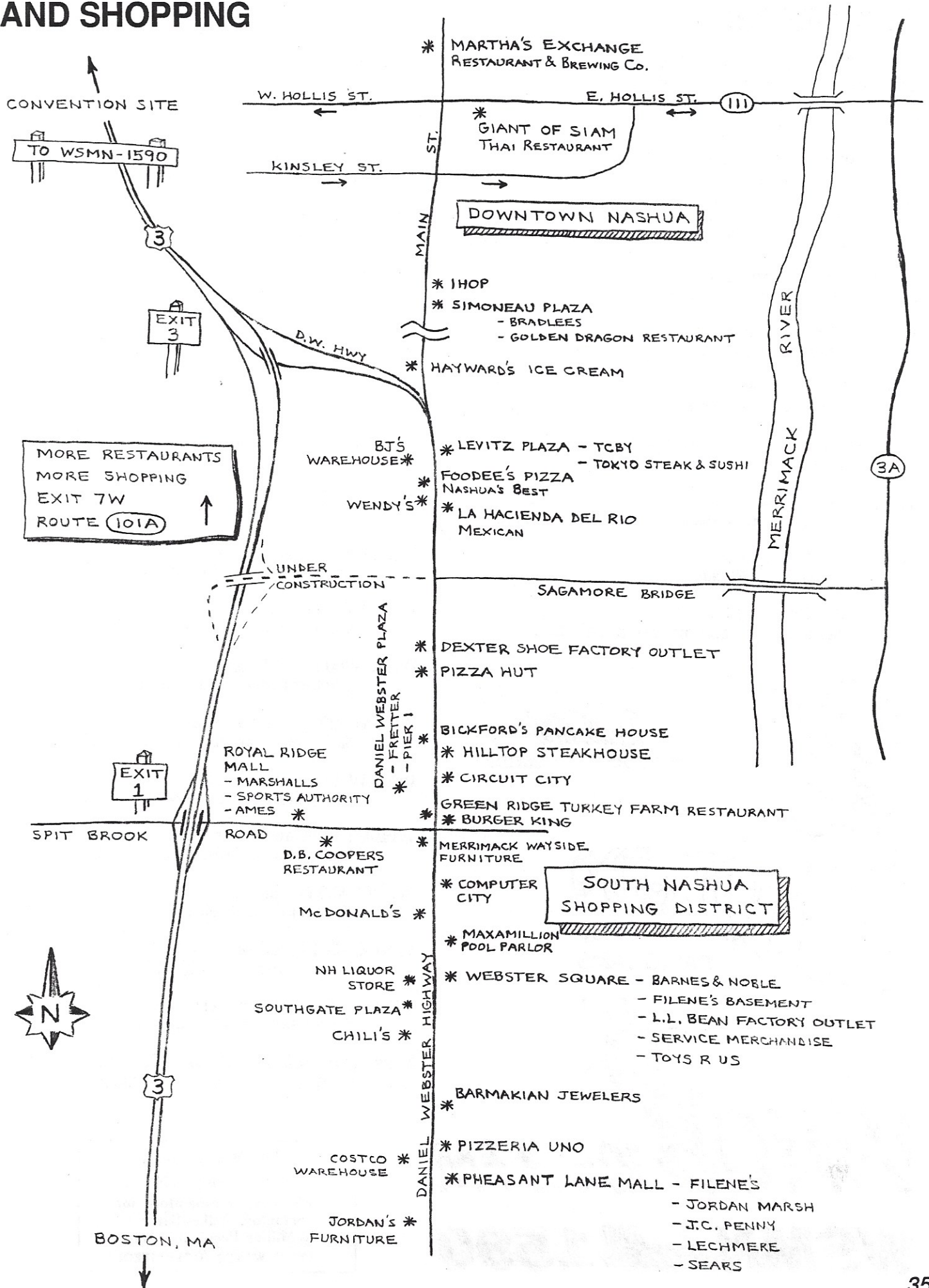


USE DANIEL WEBSTER HIGHWAY (ROUTE 3) OR PAY TOLLS!



BAC'94

AND SHOPPING



AIRCHECKS

The following is a listing of the airchecks on the souvenir cassette tape included with the convention program book, continuing a new tradition as started by Ron Musco and the 1993 Enfield, CT convention. Enjoy!

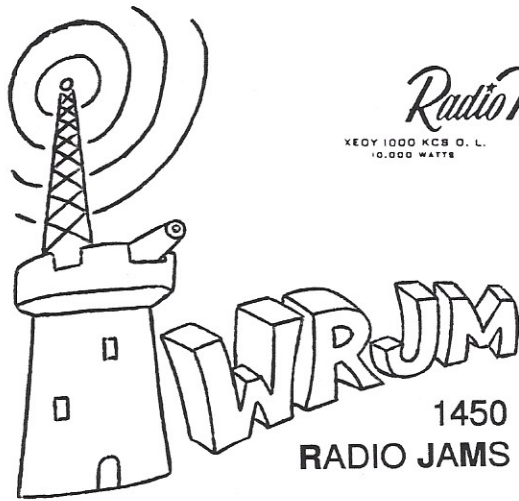
SIDE ONE (45 min)

- WMVU-900 Nashua, NH
Headline news and sign-off.
- CKTS-900 Sherbrooke, PQ
Heard after WMVU sign-off, relaying CJAD.
- WSMN-1590 Nashua, NH
Nashua Country and *Direct Line News*.
- WGIR-610 Manchester, NH
New Hampshire's Morning News and promos.
- WBZ-1030 Boston, MA
Norm Nathan celebrates 50 years on WBZ!
- WEEI-590 Boston, MA & WVEI-1440 Worcester, MA
Sports Huddle and plenty of jingles.
- WVNE-760 Leicester, MA
Life-Changing Radio and *Focus On The Family*.
- WROL-950 Boston, MA
The Irish Hit Parade.
- WHDH-850 Boston, MA
News in the morning and talk all day.

SIDE TWO (45 min)

- WRKO-680 Boston, MA
The Talk Station and home of the Red Sox.
- WJIB-740 Cambridge, MA
The NRC's Bob Bittner takes your requests!
- WNUE384-530 Tyngsboro, MA & -1610 Nashua, NH
Don't speed through the construction zone!
- WSRO-1470 Marlboro & WGAW-1340 Gardner, MA
NASCAR racing from NH on *Great Radio*.
- WDER-1320 Derry, NH
Contemporary Christian music.
- WILD-1090 Boston, MA
WILD jams with Skyy on your radio.
- WNTN-1550 Newton, MA
Contemporary classics and an early sign-off.
- WMEX-1150 Boston, MA
Spanish DJ Jose Alberto says ¡Whimex!
- WLLH-1400 Lowell, MA
Music, memories and *Radio Hit Musical*.
- WCAP-980 Lowell, MA
Greater Lowell's talk radio.
- WCCM-800 Lawrence, MA
Backyard Barbecue and Red Sox Hispanic net.
- WNNW-1110 Salem, NH
CNN Radio Noticias y buenas noches.
- WFEA-1370 Manchester, NH
Hits from the '40s, '50s, and '60s.
- WEVO-90.3 Nashua, NH
Translator and relay frequencies.
- WNHQ-92.1 Peterborough, NH
New Hampshire's Q-92.1.
- WGIR-FM-101.1 Manchester, NH
Someone stole my kiska!

Missing In Action: WKBR-1250 was silent when the airchecks were recorded.



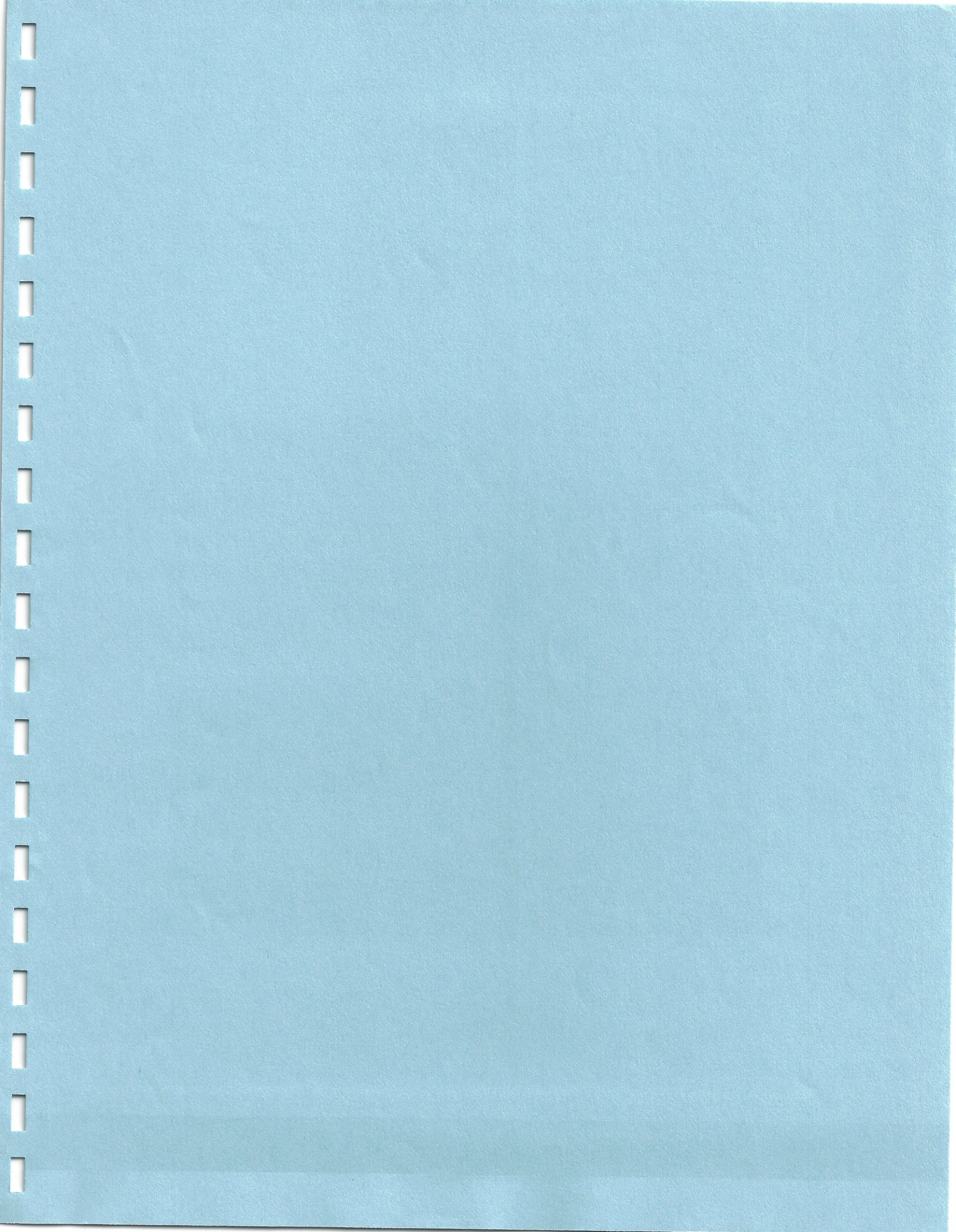
WHOB 106.3 FM

WSMN AM STEREO 1590

WYZZ (FM)

(Pronounced WHIZ)

FM Stereo & Fine Music for
Scranton, Wilkes-Barre, &
16 Million People in 6 States
50,000 WATTS (DOLBYIZED)



NATIONAL RADIO CLUB
DX AUDIO SERVICE

1994 VERBAL QUIZ*

SUNDAY MORNING at 10:00 am

Everyone is welcome!

Free Coffee!



RULES AND REGULATIONS

Rule: 1. All data taken from the 1993 NRC Log book. AM Switch updates may be used but are not required. The quiz will be in three Sections: AM stations by frequency, AM stations by City, and AM stations by call sign.

Rule: 2. Players must raise a numbered card to be recognized. The cards will be passed out at the start of the Verbal Quiz. The Quizmaster will select the person with the first card raised by calling out the card number. The Quizmaster, or his designated alternate, will be the final authority on debated answers or other matters pertaining to the Quiz. A Player with consistently wrong or hesitant answers may not be selected by the Quizmaster to answer further questions.

Rule: 3. The Player with the first correct answer to each question will receive a score on the master scoresheet by the Scorekeeper. Wrong answers will also be scored *against* the player. The number of correct scores, minus the incorrect scores, for each player, will determine the winner of each Section. A Tiebreaker Quiz will follow the third Section for any ties in any of the Sections, if needed.

Rule: 4. Three prizes will be awarded, one to the winner of each of the three Quiz Sections.

*The Verbal Quiz should not be confused with the annual NRC Written Exam that will be given afterward, nor is it affiliated with the Columbia School of Broadcasting.

NATIONAL RADIO CLUB

ANNOUNCES

SEMINARS

HOW TO REQUEST A VERIFICATION

Sunday morning, 11:00 am

(30 minutes)

We have all had the experience of sending letters to stations requesting a verification card or letter, only to receive nothing back. Experts in the field will suggest ways to improve your chances of getting a verification.

PIRACY ON THE HIGH (AND MEDIUM) FREQUEN-SEAS

Sunday morning, 11:30 am

(15 minutes)

So you want to operate a radio station, huh? Be a disk jockey and cover the latest ball scores? Who doesn't! Here are some tips based on experience that can keep you from walking the FCC's plank.

SO WHAT ELSE IS NEW?

Sunday morning, 11:45 am

(15 minutes)

This will be a potpourri of the latest news about AM radio with a smattering of other stuff just so you will be the best informed Club Member in the world.

*Free coffee provided by the New England Association of Fast-Talking Announcers (NEAFTA).

The 1994 NRC Quiz

A test of your knowledge of radio stations in New England, across North America, and around the world; trivia and other useless stuff that only a National Radio Club member would know.

RULES:

1. Questions not answered are incorrect.
2. Final authority for correct answers is the judgement of the convention host.
3. Only one answer per entry. Multiple entries are counted as incorrect.
4. Talking or consulting with others is not permitted during the quiz.
5. This is a closed-book quiz. No reference materials permitted.
6. There is no rule number 6 (of course).
7. Each correct answer is worth two (2) points.
8. Bonus point questions are worth (1) point.
9. Good Luck!

1. Significant changes occurred on Boston's AM radio dial over the past week. Answer the following questions with the correct call letters.
 - a. What are the call letters of the new Bloomberg business station on 590? _____
 - b. Rush Limbaugh moved from WHDH to what station? _____
 - c. What station will be the new voice of Boston Bruins hockey beginning with the 1995 season? _____

BONUS POINT: What Boston TV channels are exchanging network affiliations? _____

2. Answer the following questions about New Hampshire radio history with the correct call letters.
 - a. What was New Hampshire's first commercially licensed radio station? _____
 - b. What was the first commercially licensed radio station to go on the air in New Hampshire? _____
 - c. What is the oldest New Hampshire radio station on the air today? _____

BONUS POINT: What was Nashua's first radio station? _____

3. What do the following call letters stand for?
 - a. WLS = W _____ L _____ S _____
 - b. KHND = H _____ N _____ D _____
 - c. WRJM = R _____ J. M _____

BONUS POINT: CJBC = J _____ B _____ C _____

4. Identify by call letters the following radio stations using these Spanish slogans.
 - a. "La N Once-Diez" _____
 - b. "Radiolandia"/"Radio Tropical" _____
 - c. "Radio Hit Musical" _____

BONUS POINT: "Radio Internacional, el corazon de la ciudad." _____

5. Identify by call letters what station is relayed by ...
 - a. ... CKTS-900? _____
 - b. ... WGAW-1340? _____
 - c. ... CHCM-740? _____

BONUS POINT: ... WNBX-100.5? _____

6. Name the New England city with stations licensed to the following frequencies.
 - a. 1350, 1490 _____
 - b. 560, 970, 1310, 1490 _____
 - c. 960, 1300, 1340 _____

BONUS POINT: 980, 1400 _____

7. Identify the frequency ...

a. ... fit for a KING. _____

b. ... where people say WHAT. _____

c. ... that's a WISE choice. _____

BONUS POINT: ... that you can't WORM your way out of. _____

8. Identify with the correct call letters the New England station licensed to the frequency ...

a. ... 640. _____

b. ... 630. _____

c. ... 690. _____

BONUS POINT: ... 700. _____

9. What are the frequencies of the following single AM station locations?

a. Conway, NH _____

b. Beverly, MA _____

c. Franklin, NH _____

BONUS POINT: Newport, RI _____

10. Listed below are classic Boston call letters. Where are they now?

a. WMEX-1510 _____

b. WCOP-1150 _____

c. WRYT-950 _____

BONUS POINT: WACQ-1150 _____

11. What was the last year when the NRC Convention was held in the city of ...

a. ... KDKA? _____

b. ... KSSS? _____

c. ... WJIB? _____

BONUS POINT: ... CJAD? _____

12. What were the call letters of these stations before they changed to ...

a. ... WGIR-610? _____

b. ... WHJJ-920? _____

c. ... WWKB-1520? _____

BONUS POINT: ... KPOP-1360? _____

13. Name the station from . . . (call letters or nickname OK)

- a. . . Venezuela on 750. _____
- b. . . Antigua on 1100. _____
- c. . . Netherlands Antillies on 800. _____

BONUS POINT: . . . Florida on 710. _____

14. What do the following call letters stand for?

- a. WEEI = E _____ E _____ I _____
- b. WTIC = T _____ I _____ C _____
- c. WNBH = N _____ B _____ H _____

BONUS POINT: What is the frequency of WNBH? _____

15. How many AM radio stations (not including TIS) are on the air in . . .

- a. . . New Hampshire? _____
- b. . . Rhode Island? _____
- c. . . Vermont? _____

BONUS POINT: How many are silent in New Hampshire? _____

16. Where in the world is . . .

- a. . . KCHS-1400? _____
- b. . . WSDM-1130? _____
- c. . . WARE-1250? _____

BONUS POINT: . . . KTOP-1490? _____

SCORING: - Each question is worth two points (a. is worth two points, b. is worth two points,...); each BONUS POINT is worth one point.

- Maximum possible score: 96 plus 16 BONUS POINTS = 112.

YOUR FINAL SCORE _____