

WHY MAGNETS CAN MAKE YOU LIVE LONGER

Radio-TV EXPERIMENTER

AUGUST-SEPTEMBER 75¢

**WHITE'S
RADIO
LOG**

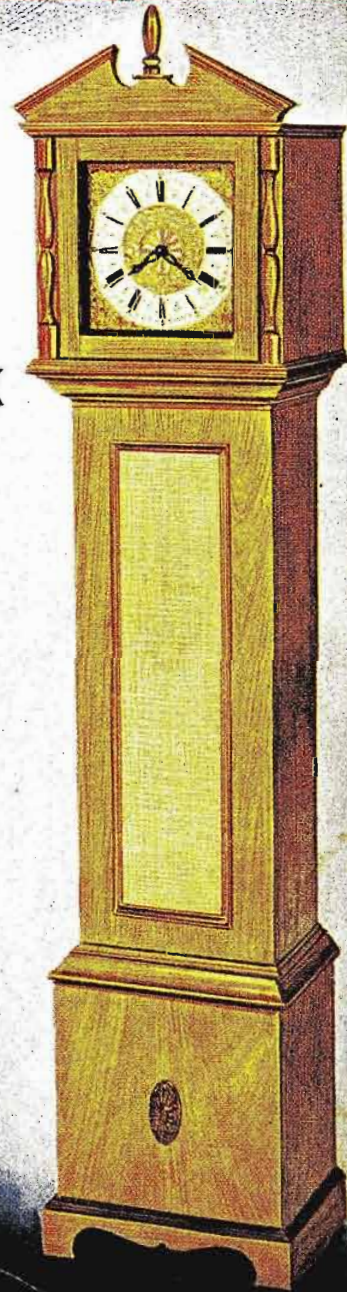
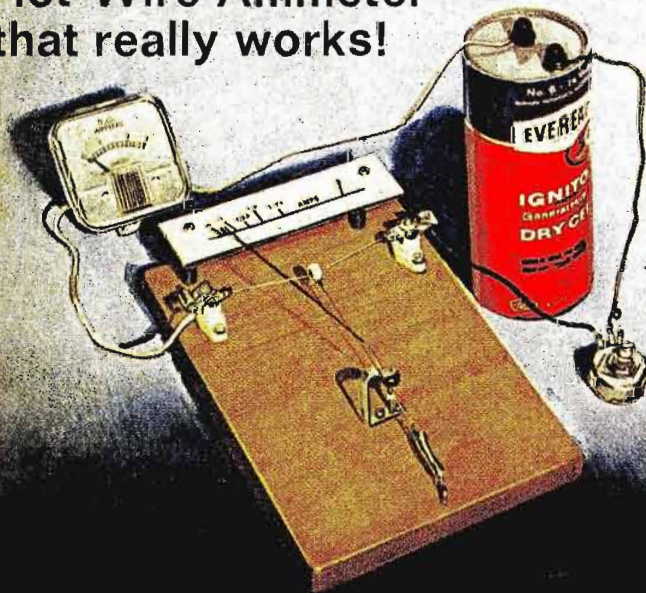
- AM Stations
- Worldwide SW
- Police/Emergency

Science and Electronics

S/E PUTS A SPEAKER IN GRANDFATHER'S CLOCK

You build the grandpa bit first, complete with speaker.
You end with a timepiece that doubles as
the most unusual speaker system going!

Build a
Hot-Wire Ammeter
that really works!



Science-Fair Winner—Electrostatic Battery With Bounce

EICO Makes It Possible

Uncompromising engineering—for value does it!
You save up to 50% with Eico Kits and Wired Equipment.



Cortina Stereo

THE VERDICT IS IN. High fidelity authorities agree:

Cortina's engineering excellence, 100% capability, and compact dramatic esthetics all add up to Total Stereo Performance at lowest cost.

A Silicon Solid-State 70-Watt Stereo Amplifier for \$99.95 kit, \$139.95 wired, including cabinet. Cortina 3070

A Solid-State FM Stereo Tuner for \$99.95 kit, \$139.95 wired, including cabinet. Cortina 3200.

A 70-Watt Solid-State FM Stereo Receiver for \$169.95 kit, \$259.95 wired, including cabinet. Cortina 3570.

NEW Silicon Solid State 150-Watt Stereo Amplifier designed for audio perfectionists. Less than 0.1% harmonic distortion, IM distortion. Less than 0.6% at full output. Controls and inputs for every music source. \$149.95 kit, \$225.00 wired including cabinet. Cortina 3150.

NEW 70-Watt Solid State AM/FM Stereo Receiver for \$189.95 kit, \$279.95 wired including cabinet. Cortina 3770.

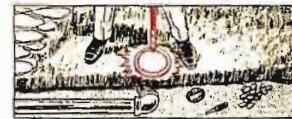
Eicocraft

The newest excitement in kits. 100% solid-state and professional.

Fun to build and use. Expandable, interconnectable. Great as "jiffy" projects and as introductions to electronics. No technical experience needed. Finest parts, pre-drilled etched printed circuit boards, step-by-step instructions.

EC-100 Electronic Siren \$4.95, EC-101 Electronic Burglar Alarm \$6.95, EC-102 Electronic Fire Alarm \$6.95, EC-200 Electronic Intercom \$5.95, EC-300 Audio Power Amplifier \$5.95, EC-400 Electronic Metronome \$3.95, EC-500 Tremolo \$9.95, EC-600 Electronic Light Flasher \$3.95, EC-700 Electronic "Mystifier" \$4.95, EC-800 Photo Cell Nite Lite \$4.95, EC-900 Power Supply \$8.95, EC-1000 Code Oscillator \$2.50, EC-1100 FM Wireless Mike \$9.95, EC-1200 AM Wireless Mike \$9.95, EC-1300 Electronic VOX \$8.95, EC-1400 Solid State FM Radio \$9.95, EC-1500 Solid State AM Radio \$8.95, EC-1600 Electronic Bongos \$7.95

EICOCRAFT



6 EXCITING NEW PROJECTS

EC-1700 Ham/CB Vox \$8.95, EC-1800 Electronic "TOX" \$8.95, EC-1900 "Treasure Finder" \$9.95, EC-2000 Electronic Organ \$9.95, EC-2100 Electronic "Eye" \$9.95, EC-2200 Electronic "Magic" Switch \$9.95

Color n' Sound



Add a new dimension to your music system. Introducing the first inexpensive solid-state electronic system which provides true synchronization of color with sound. Watch the music you love spring to life as a vibrant, ever shifting interplay of colors.

Simply connect to speaker leads of your Hi-Fi system (or radio). Kit can be assembled in several hours — no technical knowledge or experience necessary. Kit \$49.95, Wired \$79.95.

Automotive

EICO 888—Car/Boat Engine Analyzer.

For all 6V/12V systems; 4, 6, 8-cyl. engines.

Now you can keep your car or boat engine in tip-top shape with this solid-state, portable, self-powered universal engine analyzer. Completely tests your total ignition/electrical system.

Complete with a Tune-up & Trouble-shooting Manual. Model 888; \$49.95 kit, \$69.95 wired.



Test Equipment EICO®

100 best buys to choose from.

"The Professionals"
—laboratory precision at lowest cost.

Model 460 Wideband Direct-Coupled 5" Oscilloscope. DC-4.5mc for color and B&W TV service and lab use. Push-pull DC vertical amp., bal. or unbal. input. Automatic sync limiter and amp. \$99.95 kit, \$149.95 wired.

Model 232 Peak-to-Peak VTVM. A must for color or B&W TV and industrial use. 7 non-skip ranges on all 4 functions. With exclusive Uni-Probe.® \$34.95 kit, \$49.95 wired.

FREE 1969 CATALOG

RTVE-8

EICO Electronic Instrument Co., Inc.
283 Maita Street, Brooklyn, N.Y. 11207
 Send me FREE catalog describing the full EICO line of 200 best buys, and name of nearest dealer.

Name _____

Address _____

City _____

State _____ Zip _____

WHITE'S RADIO LOG

An up-to-date Directory of North American
AM, FM, and TV Stations, including special
sections on World-Wide Shortwave Stations
and Emergency Stations for Selected Areas

WHITE'S RADIO LOG CONTENTS FOR 1969*

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| | Canadian AM Stations by Call Letters | |
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* If you save six consecutive issues of Radio-TV Experimenter and Science and Electronics, you will have a complete White's Radio Log. If you have missed an issue, you may be able to get a copy by writing directly to the publisher stating which issue you wish and enclosing \$1.00 for each issue.

U. S. FM Stations by States

WHITE'S RADIO LOG

| Location | C.L. | MHz | Location | C.L. | MHz | Location | C.L. | MHz |
|----------------|----------------|-------|--------------------|---------|-------|-------------------|---------|-------|
| Fayetteville | KELD-FM | 103.1 | Los Angeles-Avalon | KBIG-FM | 104.3 | Sierra Madre | KMAX | 107.1 |
| Ft. Smith | KNWA | 103.9 | Los Banos | KLBS-FM | 95.9 | Stanford | KZSU | 90.1 |
| Harrison | KFPW-FM | 94.9 | Los Gatos | KLGS | 95.3 | Stockton | KJAX | 95.3 |
| Hot Springs | KMAG | 99.1 | Marysville | KFRD | 99.9 | Tahoe Valley | KWG-FM | 105.7 |
| Jacksonville | KTCS-FM | 99.9 | Mendocino | KMFB-FM | 92.7 | Thousand Oaks | KTHO-FM | 103.1 |
| Jonesboro | KHOZ-FM | 102.9 | Merced | KAMB | 101.5 | Torrance | KNJO | 95.3 |
| Little Rock | KBHS-FM | 96.7 | Modesto | KBEE-FM | 103.3 | Tracy | KNHS | 89.7 |
| Abbeville | KGUS | 97.5 | Mojave | KTRB-FM | 104.1 | Tulare | KSRT | 100.9 |
| Abertville | KGMR-FM | 100.3 | Monterey | KDOL-FM | 97.7 | Turlock | KBOS | 94.9 |
| Alexander City | KBTM-FM | 101.9 | Newport Beach | KWAY | 96.9 | Twenty-Nine Palms | KOSO | 93.1 |
| Andalusia | KARK | 103.7 | Northridge | KOCM | 103.1 | Ukiah | KDHI-FM | 95.7 |
| Anniston | KAAV-FM | 98.5 | Oakland | KEDC-FM | 88.5 | Vacaville | KUKI-FM | 93.5 |
| Athens | KMMK | 94.1 | Oceanside | KAFE | 98.1 | Ventura-Oxnard | KLIL | 94.3 |
| Auburn | KMYO-FM | 95.7 | Ontario | KUDE | 102.1 | Visalia | KVFS | 95.3 |
| Bay Minette | KFMV | 102.9 | Oxnard | KSOM-FM | 93.5 | Walnut Creek | KVEN-FM | 100.7 |
| Birmingham | KAMS | 103.9 | Pacific Grove | KCMJ | 104.7 | West Covina | KONG-FM | 92.9 |
| Carrollton | KENA-FM | 101.7 | Palm Springs | KOCN | 104.9 | Woodland | KDFM | 92.1 |
| Clanton | KHBM-FM | 93.5 | Pasadena | KGEC | 104.7 | Boulder | KBQB | 98.3 |
| Cullman | KNBY-FM | 105.5 | Redding | KPCS | 89.3 | Colorado Springs | KRBT | 102.5 |
| Decatur | KOSEO | 98.1 | Redondo Beach | KPPC-FM | 106.7 | | | |
| Dotham | KOTN-FM | 92.3 | Redlands | KEWB | 104.3 | | | |
| Enterprise | KOTN-FM | 92.3 | Ridgecrest | KKOP | 93.5 | | | |
| Fairhope | POCHONTAS | 99.5 | Riverside | KCAL-FM | 96.7 | | | |
| Florence | SILGAM SPRINGS | 105.9 | Roseville | KUOR | 94.7 | | | |
| Gadsden | KQUA-FM | 105.9 | Sacramento | KLOA-FM | 105.5 | | | |
| Guntersville | KSPR-FM | 104.9 | Salinas | KBBL | 99.1 | | | |
| Hamilton | KADO | 107.1 | San Bernardino | KACE-FM | 92.7 | | | |
| Homewood | KWYN-FM | 92.7 | San Diego | KDUO | 97.5 | | | |
| Huntsville | | | San Francisco | KUCR | 88.1 | | | |
| Jackson | | | San Jose | KPOP-FM | 93.5 | | | |
| Mobile | | | San Luis Obispo | KPOT | 95.1 | | | |
| Montgomery | | | Santa Ana | KERS | 90.7 | | | |
| Muscle Shoals | | | Santa Barbara | KFBK-FM | 92.5 | | | |
| Oneonta | | | Santa Clara | KEBR | 100.5 | | | |
| Ozark | | | Santa Cruz | KHIQ | 105.1 | | | |
| Roanoke | | | Santa Maria | KJML | 106.5 | | | |
| Scottsboro | | | Santa Monica | KRAK-FM | 92.9 | | | |
| Selma | | | Stockton | KSFM | 95.3 | | | |
| Sylacauga | | | Tahoe Valley | KXOA-FM | 107.9 | | | |
| Tusculum | | | Tampa | KZAP | 98.5 | | | |
| Tuscaloosa | | | Tulsa | KSBW-FM | 102.5 | | | |
| | | | Turlock | KRSA-FM | 100.7 | | | |
| | | | Ukiah | KERR | 103.9 | | | |
| | | | Upland | KVCR | 91.9 | | | |
| | | | Vacaville | KFMW | 99.9 | | | |
| | | | Ventura-Oxnard | KCRS | 89.5 | | | |
| | | | Visalia | KOGO-FM | 94.1 | | | |
| | | | Walnut Creek | KBKB | 101.5 | | | |
| | | | West Covina | KEBS | 89.5 | | | |
| | | | Woodland | KFMB-FM | 100.7 | | | |
| | | | | KFMX | 96.5 | | | |
| | | | | KTTT | 105.3 | | | |
| | | | | KDII | 98.1 | | | |
| | | | | KLRO | 94.9 | | | |
| | | | | KPRI | 106.5 | | | |
| | | | | KSDS | 88.3 | | | |
| | | | | KBBW | 102.9 | | | |
| | | | | KSDO-FM | 103.7 | | | |
| | | | | KSEA | 97.3 | | | |
| | | | | KVFM | 94.3 | | | |
| | | | | KALW | 91.7 | | | |
| | | | | KBRG | 105.3 | | | |
| | | | | KCBS-FM | 98.9 | | | |
| | | | | KDFC | 102.1 | | | |
| | | | | KEAR | 97.3 | | | |
| | | | | KFOG | 104.5 | | | |
| | | | | KFMS | 106.1 | | | |
| | | | | KGO-FM | 105.7 | | | |
| | | | | KIOI | 101.3 | | | |
| | | | | KNBR-FM | 99.7 | | | |
| | | | | KMPX | 106.9 | | | |
| | | | | KOIT | 93.3 | | | |
| | | | | KQED-FM | 88.5 | | | |
| | | | | KRON-FM | 96.5 | | | |
| | | | | KSAN | 94.9 | | | |
| | | | | KCMA | 90.3 | | | |
| | | | | KBRG | 105.3 | | | |
| | | | | KABL-FM | 98.1 | | | |
| | | | | KKHI-FM | 95.7 | | | |
| | | | | KJSJ-FM | 92.3 | | | |
| | | | | KBAY | 100.3 | | | |
| | | | | KRPM | 98.5 | | | |
| | | | | KSJS | 90.7 | | | |
| | | | | KPLX | 106.5 | | | |
| | | | | KATY-FM | 96.1 | | | |
| | | | | KCPR | 91.3 | | | |
| | | | | KSBY-FM | 93.3 | | | |
| | | | | KCSM | 90.9 | | | |
| | | | | KVEZ | 107.7 | | | |
| | | | | KTIM | 100.9 | | | |
| | | | | KWIZ-FM | 96.7 | | | |
| | | | | KVMS | 106.3 | | | |
| | | | | KCSB-FM | 91.5 | | | |
| | | | | KDB-FM | 93.7 | | | |
| | | | | KMUZ | 103.3 | | | |
| | | | | KTMS | 97.5 | | | |
| | | | | KSCU | 90.1 | | | |
| | | | | KREP | 105.7 | | | |
| | | | | KSCO-FM | 99.1 | | | |
| | | | | KXFM | 99.1 | | | |
| | | | | KSMA-FM | 102.5 | | | |
| | | | | KCRW | 89.9 | | | |
| | | | | KSRF | 103.1 | | | |

WHITE'S RADIO LOG

| Location | C.L. | MHz |
|--------------|---------|-------|
| Mt. Vernon | KRNL-FM | 89.7 |
| Muscataine | KWPC-FM | 99.7 |
| Newton | KCOB-FM | 95.9 |
| Oskaloosa | KBOE-FM | 104.9 |
| Pella | KCUJ | 89.1 |
| Sioux Center | KDCR | 91.3 |
| Sioux City | KDVR | 97.9 |
| Spencer | KICD-FM | 107.7 |
| Storm Lake | KAYL-FM | 101.5 |
| Waterloo | KNWS-FM | 101.9 |
| | KWWL-FM | 107.9 |
| | KXEL-FM | 105.7 |
| Waukon | KNEI-FM | 103.9 |
| Waverly | KWAR | 89.1 |

KANSAS

| | | |
|---------------|---------|-------|
| Abilene | KABI-FM | 98.3 |
| Baldwin | KNBU | 86.9 |
| Dodge City | KGNO-FM | 95.5 |
| Emporia | KSTE | 88.7 |
| | KVOE-FM | 104.9 |
| Garden City | KUPK-FM | 97.3 |
| Hutchinson | KSKU | 102.1 |
| Independence | KIND-FM | 101.7 |
| Junction City | KJCK-FM | 94.5 |
| Kansas City | KJCJ-FM | 96.1 |
| | KCKN-FM | 94.1 |
| Larned | KANS-FM | 96.7 |
| Lawrence | KANU | 91.5 |
| | KLWN-FM | 105.9 |
| Leavenworth | KCLO-FM | 98.9 |
| Liberal | KJRL | 99.3 |
| Manhattan | KSDB-FM | 88.1 |
| Newton | KJRG-FM | 92.3 |
| Ottawa | KTIO-FM | 88.1 |
| | KOFO-FM | 95.7 |
| Parsons | KPPS-FM | 91.1 |
| Pratt | KWNS-FM | 93.1 |
| Russell | KRSL-FM | 95.9 |
| Salina | KAFM | 99.9 |
| Scott City | KFLA-FM | 94.5 |
| Topeka | KTDG | 100.3 |
| | KEWI-FM | 107.7 |
| Wichita | WIBW-FM | 97.3 |
| | KFH-FM | 100.3 |
| | KARD | 107.3 |
| | KEYN-FM | 103.7 |
| | KQTY | 101.3 |
| Winfield | KMUW | 89.1 |
| | KSWO | 88.3 |

KENTUCKY

| | | |
|----------------|---------|-------|
| Albany | WANY-FM | 106.3 |
| Ashland | WCMI-FM | 93.7 |
| Beattyville | WLJC | 102.3 |
| Benton | WCBL-FM | 102.3 |
| Bowling Green | WLBJ-FM | 96.7 |
| Campbellsville | WTCO-FM | 103.9 |
| Carrollton | WYCM | 100.1 |
| Central City | WNES-FM | 101.9 |
| Columbia | WAIN-FM | 93.5 |
| Corbin | WCTT-FM | 107.1 |
| | WYGO-FM | 99.3 |
| Cynthiana | WCYN-FM | 102.3 |
| Danville | WHIR-FM | 107.1 |
| Elizabethtown | WQXE | 106.3 |
| Erlanger | WHKY | 100.9 |
| Ft. Campbell | WABD-FM | 107.9 |
| Ft. Knox | WSAC-FM | 105.5 |
| Frankfort | WKYW | 104.9 |
| Fulton | WFUL-FM | 104.9 |
| Georgetown | WRVG | 90.1 |
| Glasgow | WGGC | 95.1 |
| Grayson | WGOH-FM | 102.3 |
| Hazard | WKIC-FM | 101.1 |
| Henderson | WSON-FM | 99.5 |
| Hopkinsville | WHOP-FM | 98.7 |
| Jamestown | WJRS-FM | 103.3 |
| Leitchfield | WMTL-FM | 104.9 |
| Lexington | WBKY | 91.3 |
| | WLAP-FM | 94.5 |
| | WLEX-FM | 98.1 |
| | WVLK-FM | 92.9 |
| Louisville | WFPA | 91.9 |
| | WFPL | 89.3 |
| | WHAS-FM | 97.5 |
| | WKLO-FM | 99.7 |
| | WKRX | 106.9 |
| | WLRN | 102.3 |
| Madisonville | WFMW-FM | 93.9 |
| | WNGO-FM | 94.7 |
| Manchester | WLCO-FM | 102.3 |
| Maysville | WXL-FM | 103.1 |
| Monticello | WFTM-FM | 95.9 |
| Morehead | WFLW-FM | 101.7 |
| | WMOR-FM | 92.1 |

| Location | C.L. | MHz |
|--------------|---------|-------|
| Morganfield | WMKY-FM | 91.1 |
| Murray | WMSK-FM | 95.3 |
| Owensboro | WMST-FM | 105.5 |
| | WAWW | 103.7 |
| | WOMI-FM | 92.5 |
| | WVJS-FM | 96.1 |
| Paducah | WPAD-FM | 96.9 |
| | WKYX-FM | 93.3 |
| Paintsville | WSTP-FM | 100.1 |
| Paris | WPDE-FM | 96.7 |
| Pikeville | WPKE-FM | 92.1 |
| Prestonburg | WDOC-FM | 95.5 |
| | WPRF-FM | 105.5 |
| Richmond | WEKU-FM | 88.9 |
| Russellville | WRUS-FM | 101.1 |
| St. Matthews | WSTM | 103.1 |
| Scottsville | WLCK-FM | 99.3 |
| Somersett | WSEK | 96.7 |
| | WSSC | 90.7 |
| Stanford | WRSL-FM | 95.9 |
| Whitesburg | WTCW-FM | 104.9 |

LOUISIANA

| | | |
|---------------|---------|-------|
| Alexandria | KALB-FM | 96.9 |
| | KDBS-FM | 100.3 |
| Ames | KLFB | 104.1 |
| Baton Rouge | WJBO-FM | 102.5 |
| | WAFB-FM | 98.1 |
| | WQXY-FM | 100.7 |
| | WYNK-FM | 101.5 |
| | KDLA-FM | 101.7 |
| DeRidder | KLEB-FM | 94.3 |
| Golden Meadow | WTGI | 103.3 |
| Hammond | KCLL | 107.1 |
| Houma | KHOM | 104.1 |
| | KJEF-FM | 92.7 |
| Jennings | KTOC-FM | 104.9 |
| Jonesboro | KRVS-FM | 88.3 |
| Lafayette | KPEL-FM | 99.9 |
| | KSMB | 94.5 |
| Lake Charles | KPLC-FM | 99.5 |
| | KIKS-FM | 96.1 |
| La Place | WCKW | 92.3 |
| Monroe | KMLB-FM | 104.1 |
| | KNOE-FM | 101.9 |
| | KREB | 106.1 |
| Morgan City | KMRC-FM | 96.7 |
| Mt. Vernon | KRNL-FM | 103.3 |
| Natchitoches | KNOC-FM | 97.7 |
| New Iberia | KNIR-FM | 99.1 |
| New Orleans | WBEH | 89.3 |
| | WDSU-FM | 93.3 |
| | WJMR-FM | 97.1 |
| | WRNO | 99.5 |
| | WWOM | 98.5 |
| | WWMT | 95.7 |
| Opelousas | KSLD-FM | 107.1 |
| Ruston | KRUS-FM | 97.3 |
| Shreveport | KRMD-FM | 101.1 |
| | KRCL-FM | 96.5 |
| | KEEL-FM | 93.7 |
| | KWKH-FM | 94.5 |
| Thibodaux | KTIB-FM | 106.3 |
| Ville Platte | KVPI-FM | 93.5 |
| W. Monroe | KVEA | 98.3 |
| Winfield | KVLF-FM | 92.3 |
| Winnsboro | KCRF-FM | 95.9 |

MAINE

| | | |
|------------|---------|-------|
| Augusta | WFAU-FM | 101.3 |
| Bangor | WABI-FM | 97.1 |
| | WMEH-FM | 90.9 |
| Brunswick | WBOR | 91.1 |
| Caribou | WCME-FM | 98.9 |
| Ellsworth | WFST-FM | 97.7 |
| Lewiston | WDEA-FM | 95.7 |
| | WCOU-FM | 93.9 |
| | WRJR | 91.5 |
| Orono | WMEB-FM | 91.9 |
| Portland | WLOB-FM | 97.9 |
| | WPOR-FM | 101.9 |
| | WGAN-FM | 102.9 |
| Rockland | WRKD-FM | 95.5 |
| Waterville | WTVL-FM | 98.3 |

MARYLAND

| | | |
|------------------|---------|-------|
| Annapolis | WNAV-FM | 99.1 |
| | WXTC | 107.9 |
| | WAGE-FM | 101.9 |
| Baltimore | WBJC | 91.5 |
| | WCAO-FM | 102.7 |
| | WFMM-FM | 93.1 |
| | WRBS | 95.1 |
| | WBAL-FM | 97.9 |
| | WTHF-FM | 104.3 |
| | WMAR-FM | 106.5 |
| | WSDI-FM | 92.3 |
| | WTOW-FM | 101.9 |
| Bethesda | WJMD | 94.7 |
| | WHFS | 102.3 |
| Bradbury Heights | WPGC | 95.5 |
| Cambridge | WCEM-FM | 106.3 |
| Catonsville | WBMD-FM | 105.7 |
| Cumberland | WCUM-FM | 102.9 |
| | WKGO | 106.1 |
| Frederick | WFMD-FM | 99.9 |
| Frostburg | WFRB-FM | 105.3 |
| Glen Burnie | WISZ-FM | 95.9 |
| Hagerstown | WJEF-FM | 104.7 |
| | WARK-FM | 106.9 |
| Halfway | WHAG-FM | 96.7 |

| Location | C.L. | MHz |
|----------------|---------|-------|
| Havre de Grace | WASA-FM | 103.7 |
| Oakland | WBUZ | 95.5 |
| | WMSG-FM | 92.1 |
| Salisbury | WBQC-FM | 104.7 |
| | WICD-FM | 94.3 |
| Tacoma Park | WGTS-FM | 91.9 |
| Waldorf | WSMD-FM | 104.1 |
| Westminster | WTTR-FM | 100.7 |

MASSACHUSETTS

| | | |
|--------------|---------|-------|
| Amherst | WAMF | 88.1 |
| | WFCR | 88.5 |
| | WFUA | 91.1 |
| Andover | WBUR | 90.9 |
| Boston | WBZN | 104.1 |
| | WBZ-FM | 106.7 |
| | WCOP-FM | 100.7 |
| | WEEL-FM | 103.3 |
| | WERS | 88.9 |
| | WHDH-FM | 84.9 |
| | WJIB | 98.5 |
| | WROR | 98.5 |
| Brockton | WBET-FM | 97.7 |
| Brookline | WBOS-FM | 92.9 |
| Cambridge | WGBH-FM | 89.7 |
| | WHRB-FM | 95.3 |
| | WTBS | 88.1 |
| Fitchburg | WTBS | 104.1 |
| Frammingham | WKOX-FM | 105.7 |
| Gloucester | WVCA-FM | 104.9 |
| Greenfield | WHAI-FM | 98.3 |
| Haverhill | WHAV-FM | 92.5 |
| Hyannis | WCOD-FM | 106.1 |
| Lawrence | WCCM-FM | 93.7 |
| Lowell | WLLH-FM | 99.3 |
| Lynn | WLWN-FM | 101.7 |
| Medford | WHIL-FM | 107.9 |
| New Bedford | WBSM-FM | 97.3 |
| | WNBH-FM | 98.1 |
| N. Adams | WNMB-FM | 100.1 |
| Northampton | WHMP-FM | 99.3 |
| Pittsfield | WQRB | 101.5 |
| | WBRK-FM | 101.7 |
| | WPLM-FM | 99.1 |
| Plymouth | WESO-FM | 100.1 |
| Southbridge | WMHC | 88.5 |
| S. Hadley | WHYN-FM | 93.1 |
| Springfield | WAIC | 91.9 |
| | WCRV | 102.1 |
| | WCSB | 88.9 |
| | WMAS-FM | 94.7 |
| Taunton | WRLM | 93.3 |
| Walham | WBRS | 91.7 |
| | WCRB-FM | 102.5 |
| | WOCB-FM | 94.9 |
| W. Yarmouth | WCFC | 91.3 |
| Williamstown | WHSR-FM | 91.9 |
| Worcester | WAAF | 107.3 |
| | WSRS | 96.1 |

MICHIGAN

| | | |
|--------------|---------|-------|
| Adrian | WLEN | 103.9 |
| | WVAC | 88.1 |
| Alma | WFYC-FM | 104.9 |
| Alpena | WHSB | 107.7 |
| | WATZ-FM | 93.5 |
| Ann Arbor | WUOM | 91.7 |
| | WOLA-FM | 102.9 |
| | WPAG-FM | 107.1 |
| Bad Axe | WLEW-FM | 92.1 |
| Battle Creek | WKFR-FM | 103.3 |
| Bay City | WBCM-FM | 96.1 |
| | WNEM-FM | 102.5 |
| Benton Hrbr. | WHFB-FM | 99.9 |
| Big Rapids | WBRN-FM | 100.9 |
| Birmingham | WHFI | 94.7 |
| Charlotte | WCER-FM | 92.7 |
| Cheboygan | WCBY-FM | 105.1 |
| Clare | WCRM-FM | 95.3 |
| Coldwater | WANG-FM | 98.3 |
| Dearborn | WKNR-FM | 100.3 |
| Detroit | WDET-FM | 101.9 |
| | WBFG | 88.7 |
| | WHDH | 105.9 |
| | WABX | 99.5 |
| | WDTR | 90.9 |
| | WGPM | 107.5 |
| | WJBK-FM | 93.1 |
| | WMUZ | 103.5 |
| | WGPR | 97.9 |
| | WJR-FM | 96.3 |
| | WDMC-FM | 104.3 |
| | WQRS-FM | 105.1 |
| | WRMK-FM | 98.7 |
| | WWJ-FM | 97.1 |
| | WWWV | 106.7 |
| | WXYZ-FM | 101.1 |
| | WCAR-FM | 92.3 |
| | WKAR-FM | 90.5 |
| | WITL-FM | 100.7 |
| | WWSW | 99.1 |
| | WVIC-FM | 95.7 |
| | WFBE | 95.1 |
| | WGMZ-FM | 107.9 |
| | WMRP-FM | 105.5 |
| | WFUR-FM | 102.9 |
| | WJFM | 93.7 |
| | WLAV-FM | 96.9 |
| | WYON | 101.3 |

| Location | C.L. | MHz |
|---------------|---------|-------|
| WOOD-FM | 105.7 | (s) |
| WVGR | 104.1 | |
| WXTO-FM | 97.9 | |
| WZZM-FM | 95.7 | |
| WPLB-FM | 107.3 | |
| WMLP-FM | 93.5 | |
| WBCH-FM | 100.1 | |
| WHPR | 88.1 | |
| WJBL-FM | 94.5 | |
| WHTC-FM | 96.1 | |
| WGGL-FM | 91.1 | |
| WJGS | 98.5 | |
| WIAA | 88.3 | |
| WBBC | 94.1 | |
| WKHM-FM | 106.1 | |
| WMIK | 102.1 | |
| WSEO-FM | 106.5 | |
| WJIM-FM | 97.5 | |
| WILS-FM | 101.7 | |
| WTHM-FM | 103.1 | |
| WNMR | 90.1 | |
| WDMJ-FM | 95.7 | |
| WALM-FM | 96.7 | |
| WQCF-FM | 99.7 | |
| WMOG | 98.9 | |
| WBRB-FM | 102.7 | |
| WCMU | 90.1 | |
| WCEN-FM | 94.5 | |
| WFFM | 106.9 | |
| WNIL-FM | 95.3 | |
| WLDN | 95.5 | |
| WOAP-FM | 103.9 | |
| WJML | 98.9 | |
| WMBN-FM | 96.7 | |
| WHLS-FM | 107.1 | |
| WQAK | 89.3 | |
| WOMC | 104.3 | |
| WSAM-FM | 98.1 | |
| WBSB | 106.3 | |
| WWSW | 107.1 | |
| WRBJ-FM | 92.1 | |
| WSJM-FM | 107.1 | |
| WSandusky | WMJC-FM | 97.7 |
| Southfield | WSHJ | 88.3 |
| Spring Arbor | WSAE | 105.5 |
| Sturgis | WSTR-FM | 103.1 |
| Traverse City | WDRF-FM | 101.9 |
| | WCCW-FM | 92.1 |
| | WTCM-FM | 103.5 |
| | WTSD | 88.1 |
| Waterford | WPHS | 91.5 |
| Warren | WEMU | 88.1 |
| Ypsilanti | | |

MINNESOTA

| | | |
|----------------------|----------|-------|
| Alexandria | KXRA-FM | 92.7 |
| Austin | KAUS-FM | 99.9 |
| Anoka | KTWN | 107.9 |
| Blue Earth | KBWEV-FM | 100.9 |
| Brainerd | KLIZ-FM | 92.1 |
| Breckenridge | KKWB | 101.7 |
| Collegeville | KSJR-FM | 90.1 |
| Duluth | WDIO-FM | 94.9 |
| Faribault | KDHL-FM | 95.9 |
| Fergus Falls | KBRF-FM | 103.3 |
| Fosston | KEHG-FM | 107.1 |
| Golden Valley | KQRS-FM | 92.5 |
| Hibbing | WMFM | 106.3 |
| Hutchinson | KDUZ-FM | 107.1 |
| Litchfield | KLFD-FM | 95.3 |
| Mankato | KMSO | 90.5 |
| | KEYC-FM | 99.1 |
| | KYSM-FM | 103.5 |
| Marshall | KMHL-FM | 100.1 |
| Minneapolis-St. Paul | KTIS-FM | 98.5 |
| | WLDF-FM | 99.5 |
| | KNOF | 95.3 |
| | KTCR-FM | 97.1 |
| | WPBC-FM | 101.3 |
| | WAYL | 93.7 |
| | WCTS-FM | 100.3 |
| Moorhead | KVOX-FM | 99.9 |
| | KCCM-FM | 91.1 |
| | KQWB-FM | 98.7 |
| New Brighton | KSNJ-FM | 91.1 |
| New Uim | KNJL-FM | 93.1 |
| Northfield | WCAL-FM | 89.3 |
| Owatonna | KRFO-FM | 104.9 |
| Park Rapids | WPRM-FM | 103.7 |
| Pipestone | KKLP | 98.7 |
| Red Wing | KCUE-FM | |

| Location | C.L. | MHz | Location | C.L. | MHz | Location | C.L. | MHz | Location | C.L. | MHz |
|-------------|---------|-------|------------------|---------|-------|-----------------|---------|-------|-----------------------|---------|-------|
| Columbia | WFFF-FM | 96.7 | Hastings | KICS-FM | 93.5 | NEW YORK | | | Smithtown | WGSM | 94.3 |
| Columbus | WMBC-FM | 103.1 | Kearney | KOVF-FM | 91.3 | Albany | WAMC | 90.3 | South Bristol | WMIW | 95.1 |
| Corinth | WKOU-FM | 94.3 | Kearney-Holdrege | KRNY-FM | 98.9 | Auburn | WOKC | 106.5 | Springville | WSPB | 86.1 |
| Forest | WQST | 92.5 | Lexington | KRUN-FM | 93.1 | Babylon | WHRL | 103.1 | Syracuse | WAEW | 88.1 |
| Greenville | WGVM-FM | 100.7 | Lincoln | KFMQ | 95.3 | Binghamton | WROW-FM | 95.5 | | WDDS-FM | 93.1 |
| Greenwood | WSWG | 99.1 | | KLIN-FM | 107.3 | | WMBO-FM | 106.9 | | WONO | 107.9 |
| Gulfport | WROA-FM | 107.1 | | KUCV | 91.3 | | WTFM | 103.5 | Troy | WSYR-FM | 94.5 |
| Hattiesburg | WHSY-FM | 104.5 | | KWHG | 102.7 | | WBAB-FM | 102.3 | | WFLY | 92.3 |
| Houston | WFDL-FM | 103.7 | | KFAB-FM | 93.9 | | WNBK-FM | 93.7 | Utica | WRUN-FM | 105.7 |
| Indianola | WNLA-FM | 103.5 | | KGBI-FM | 100.7 | | WHRW | 90.5 | | WIBQ-FM | 94.9 |
| Jackson | WJDX-FM | 102.9 | | KIOS-FM | 90.9 | | WKOP-FM | 99.1 | | WOUR | 96.9 |
| | KFXM | 95.5 | | KOIL-FM | 96.1 | Baldwinsville | WSEN-FM | 92.1 | Wethersfield | | |
| | WJMI | 99.7 | | KOZN | 94.1 | Brooklyn | WNYE | 91.5 | Township | WBIV | 107.7 |
| | WSLI-FM | 96.3 | | WOW-FM | 92.3 | Brookville | WCWP | 88.1 | White Plains | WFAS-FM | 103.9 |
| | WVHO | 94.7 | | KNEW-FM | 94.1 | Buffalo | WBEN-FM | 106.5 | | | |
| | WKDZ-FM | 103.1 | | KAWL-FM | 104.9 | | WADV | 106.5 | | | |
| | WNSL-FM | 100.3 | | | | | WDCX | 99.5 | NORTH CAROLINA | | |
| | WLSM-FM | 107.1 | | | | | WBFO | 88.7 | Ahoskie | WRCS-FM | 99.3 |
| | WSJC-FM | 107.5 | | | | | WBUF | 93.3 | Albemarle | WABZ-FM | 100.9 |
| | WCCA | 105.7 | | | | | WEBR | 94.5 | Asheboro | WGWR-FM | 92.3 |
| | WMMI | 88.1 | | | | | WGR-FM | 96.9 | Asheville | WLOS-FM | 104.3 |
| | WOKK-FM | 97.1 | | | | | WWOL-FM | 104.1 | Bridgeton | WVWB-FM | 97.7 |
| | WCIS-FM | 104.9 | | | | | WWSL-FM | 103.3 | Black Mountain | WMIT | 106.9 |
| | WQNZ | 95.1 | | | | | WBNY-FM | 96.1 | Burgaw | WPGF-FM | 99.9 |
| | WNAU-FM | 103.5 | | | | | WLSU | 96.7 | Burlington-Graham | | |
| | WOOR | 97.5 | | | | | WCSQ | 89.3 | | WBAG-FM | 93.9 |
| | WPMP-FM | 99.1 | | | | | WJIV | 101.9 | | WEBB-FM | 101.1 |
| | WRPM-FM | 107.9 | | | | | WHCL-FM | 88.7 | Chapel Hill | WUNC | 91.5 |
| | WSEL-FM | 96.7 | | | | | WVIV | 101.9 | Charlotte | WBT-FM | 107.9 |
| | WSMU-FM | 106.3 | | | | | WVLC-FM | 106.1 | | WRNA | 95.1 |
| | WELQ-FM | 95.5 | | | | | WKRT-FM | 99.9 | | WSOC-FM | 103.7 |
| | WQMV | 96.7 | | | | | WBLK-FM | 95.7 | | WYFM | 104.7 |
| | WJNS-FM | 92.1 | | | | | WDLR-FM | 105.1 | Clingman's Pk. | WRRZ-FM | 106.9 |
| | | | | | | | WFLR-FM | 95.9 | Concord | WEGO-FM | 97.9 |
| | | | | | | | WECW | 88.1 | Durham | WDNC-FM | 105.1 |
| | | | | | | | WEHH-FM | 94.3 | | WRSR-FM | 107.1 |
| | | | | | | | WENY-FM | 92.7 | Elkin | WIFM-FM | 100.9 |
| | | | | | | | WENE-FM | 105.5 | Fayetteville | WQSM | 98.1 |
| | | | | | | | WSHS | 90.3 | Forest City | WBBO-FM | 93.3 |
| | | | | | | | WGSU | 89.3 | | WAZL-FM | 105.9 |
| | | | | | | | WGSU | 89.3 | | WFSC-FM | 96.7 |
| | | | | | | | WWSC-FM | 95.9 | Franklin | WGNC-FM | 101.9 |
| | | | | | | | WXQL | 107.1 | Gastonia | WQDR | 96.9 |
| | | | | | | | WIGS-FM | 92.7 | Goldsboro | WMEW | 86.7 |
| | | | | | | | WHLI-FM | 98.3 | Greensboro | WQMG-FM | 97.1 |
| | | | | | | | WVHC | 88.7 | | WUAG | 89.9 |
| | | | | | | | WHOF-FM | 103.3 | | WVIT | 107.7 |
| | | | | | | | WHUC-FM | 93.5 | Greenville | WITN-FM | 93.3 |
| | | | | | | | WHCU-FM | 97.3 | Grifton | WHNC-FM | 92.5 |
| | | | | | | | WICB | 91.7 | Henderson | WHKP-FM | 102.5 |
| | | | | | | | WEIV | 103.7 | Hendersonville | WHKY-FM | 102.9 |
| | | | | | | | WVBR-FM | 93.5 | Hickory | WHXP | 95.7 |
| | | | | | | | WJTN-FM | 93.3 | High Point | WHPE-FM | 95.5 |
| | | | | | | | WJNS-FM | 101.7 | | WMFJ-FM | 94.5 |
| | | | | | | | WJZR-FM | 104.9 | | WNOS-FM | 100.3 |
| | | | | | | | WYHQ-FM | 103.3 | | WRCM | 92.1 |
| | | | | | | | WYSL-FM | 91.3 | Jacksonville | WXQB-FM | 105.5 |
| | | | | | | | WYSL-FM | 91.3 | | WRKB-FM | 99.7 |
| | | | | | | | WYSL-FM | 91.3 | Kannapolis | WRNS | 95.1 |
| | | | | | | | WYSL-FM | 91.3 | Kinston | WSTS | 96.5 |
| | | | | | | | WYSL-FM | 91.3 | Laurens | WAFB | 94.5 |
| | | | | | | | WYSL-FM | 91.3 | Lexington | WBUY-FM | 94.3 |
| | | | | | | | WYSL-FM | 91.3 | Lumberton | WTSB-FM | 85.7 |
| | | | | | | | WYSL-FM | 91.3 | | WJSK | 102.3 |
| | | | | | | | WYSL-FM | 91.3 | North Wilkesboro | WKBC-FM | 97.3 |
| | | | | | | | WYSL-FM | 91.3 | Raleigh | WKIX-FM | 96.1 |
| | | | | | | | WYSL-FM | 91.3 | | WKNC-FM | 88.1 |
| | | | | | | | WYSL-FM | 91.3 | | WPTF-FM | 94.7 |
| | | | | | | | WYSL-FM | 91.3 | | WRAL-FM | 101.5 |
| | | | | | | | WYSL-FM | 91.3 | | WSHA | 88.9 |
| | | | | | | | WYSL-FM | 91.3 | Reidsville | WVMO-FM | 102.1 |
| | | | | | | | WYSL-FM | 91.3 | Rocky Mount | WEED-FM | 92.1 |
| | | | | | | | WYSL-FM | 91.3 | | WFMA | 100.7 |
| | | | | | | | WYSL-FM | 91.3 | Rochester | WVOT-FM | 106.1 |
| | | | | | | | WYSL-FM | 91.3 | Roxboro | WRXO-FM | 96.7 |
| | | | | | | | WYSL-FM | 91.3 | Salisbury | WSTP-FM | 106.5 |
| | | | | | | | WYSL-FM | 91.3 | Sanford | WWGP-FM | 105.5 |
| | | | | | | | WYSL-FM | 91.3 | Shelby | WQHS-FM | 96.1 |
| | | | | | | | WYSL-FM | 91.3 | Statesville | WFMX | 103.7 |
| | | | | | | | WYSL-FM | 91.3 | Tabor City | WTAB-FM | 104.9 |
| | | | | | | | WYSL-FM | 91.3 | Tarboro | WGPS-FM | 104.3 |
| | | | | | | | WYSL-FM | 91.3 | Thomasville | WTNC-FM | 98.3 |
| | | | | | | | WYSL-FM | 91.3 | Washington | WITN-FM | 93.3 |
| | | | | | | | WYSL-FM | 91.3 | Williamston | WIAM | 103.7 |
| | | | | | | | WYSL-FM | 91.3 | Wilmington | WPRV | 95.9 |
| | | | | | | | WYSL-FM | 91.3 | | WFGT | 102.7 |
| | | | | | | | WYSL-FM | 91.3 | Wilson | WHSL-FM | 97.3 |
| | | | | | | | WYSL-FM | 91.3 | Winston-Salem | WAAA-FM | 107.5 |
| | | | | | | | WYSL-FM | 91.3 | | WFDD-FM | 88.5 |
| | | | | | | | WYSL-FM | 91.3 | | WEPL | 93.1 |
| | | | | | | | WYSL-FM | 91.3 | | WJSJ-FM | 104.1 |
| | | | | | | | WYSL-FM | 91.3 | | | |
| | | | | | | | WYSL-FM | 91.3 | NORTH DAKOTA | | |
| | | | | | | | WYSL-FM | 91.3 | Bismarck | KFYR-FM | 92.9 |
| | | | | | | | WYSL-FM | 91.3 | | KBMR-FM | 94.5 |
| | | | | | | | WYSL-FM | 91.3 | Devils Lake | KOLR-FM | 96.7 |
| | | | | | | | WYSL-FM | 91.3 | Fargo | KFNW-FM | 97.9 |
| | | | | | | | WYSL-FM | 91.3 | | WDAY-FM | 93.7 |
| | | | | | | | WYSL-FM | 91.3 | | KDSU | 91.9 |
| | | | | | | | WYSL-FM | 91.3 | Grand Forks | KVBC | 94.7 |
| | | | | | | | WYSL-FM | 91.3 | Jamestown | KJSM | 93.3 |
| | | | | | | | WYSL-FM | 91.3 | | KKND | 95.5 |
| | | | | | | | WYSL-FM | 91.3 | Minot | KCJB-FM | 97.1 |
| | | | | | | | WYSL-FM | 91.3 | | | |
| | | | | | | | WYSL-FM | 91.3 | OHIO | | |
| | | | | | | | WYSL-FM | 91.3 | Akron | WAKR-FM | 97.5 |
| | | | | | | | WYSL-FM | 91.3 | | WAPS | 89.1 |
| | | | | | | | WYSL-FM | 91.3 | | WAUP | 88.1 |

| Location | C.L. | MHz | Location | C.L. | MHz | Location | C.L. | MHz | Location | C.L. | MHz |
|---------------------|-----------|-------|------------------------|-----------|-------|----------------------|---------|-------|-----------------|---------|-------|
| | CFQR-FM | 92.5 | Quebec, Que. | CHRC-FM | 98.1 | Smith Falls, Ont. | CJET-FM | 101.1 | Trail, B.C. | CJAT-FM | 106.7 |
| | CJFM-FM | 95.9 | Red Deer, Alta. | CKRD-FM | 98.9 | St. Catharines, Ont. | | | Truro, N.S. | CKCL-FM | 100.9 |
| | CJMS-FM | 94.3 | Regina, Sask. | CFMQ-FM | 92.1 | | CHSC-FM | 105.7 | Vancouver, B.C. | CBU-FM | 105.7 |
| | CKGM-FM | 97.7 | Richibucto, N.B. | CBHM-FM | 98.5 | Sudbury, Ont. | CKTB-FM | 97.7 | | CBUF-FM | 97.7 |
| Mount Timothy, B.C. | CFFM-FM-5 | 99.7 | Rimouski, Que. | CJBR-FM | 101.5 | Sydney, N.S. | CKSO-FM | 92.7 | | CHQM-FM | 103.5 |
| North Bay, Ont. | CKAT-FM | 93.7 | Saint John, N.B. | CFBC-FM | 98.9 | Tillsonburg, Ont. | CJCB-FM | 94.9 | | CKLG-FM | 99.3 |
| Oshawa, Ont. | CKQS-FM | 94.9 | Saskatoon, Sask. | CFMC-FM | 103.9 | Timmins, Ont. | CKOT-FM | 100.5 | Verdun, Que. | CKVL-FM | 96.9 |
| Ottawa, Ont. | CEO-FM | 103.9 | | CJUS-FM | 89.7 | Toronto, Ont. | CKGB-FM | 94.3 | Victoria, B.C. | CFMS-FM | 98.5 |
| | CFMO-FM | 98.9 | Sault Ste. Marie, Ont. | | | | CBL-FM | 94.1 | Windsor, Ont. | CKLW-FM | 93.9 |
| Penticton, B.C. | CKOK-FM | 97.1 | | CJIC-FM | 100.5 | | CHFI-FM | 98.1 | | CKWV-FM | 88.7 |
| Peterborough, Ont. | CHEX-FM | 101.5 | | CKCY-FM | 104.3 | | CHIN-FM | 100.7 | Winnipeg, Man. | CBWF-FM | 98.3 |
| Port Arthur, Ont. | CKPR-FM | 94.3 | Savona, B.C. | CFFM-FM-1 | 101.9 | | CHUM-FM | 104.5 | | CFRW-FM | 84.3 |
| | | | Sherbrooke, Que. | CHLT-FM | 102.7 | | CJRT-FM | 91.1 | | CJOB-FM | 97.5 |
| | | | | | | | CKFM-FM | 99.9 | | CKY-FM | 92.1 |

A THANK YOU NOTE FROM THE EDITORS

Thank you! The Editors of SCIENCE AND ELECTRONICS would like to thank all readers who offered information on station changes, additions and deletions during the past few months. Though many of the letters overlapped, each aided us considerably in the task of making *White's Radio Log* as current as possible at press time. If we left your name out, please forgive us!

John R. Anderson, Burlington, Iowa

David Bartlett, E. Hartford, Conn.

Edward R. Cotten, USS Boxer
John A. Czupowski, Cicero, Ill.
Bruce Hammond, Toledo, Ohio
Larry D. Ingold, APO San Francisco

Jimmy Kennedy, Oak Ridge, Tenn.

James M. Levandoski, Hopkins, Mich.

Joseph Miller, Lansing, Mich.
Alan Mitleider, Clayton, Mo.
Tom Kneitel, New York, N. Y.
Martin Palmer, Vancouver, Wash.

Duane C. Pemberton, Evansville, Ind.

John N. Ramsey, W. Hartford, Conn.

James S. L. Robinson, Goodfellow AFB, Texas

Gladys Sienkiewicz, Brooklyn, N. Y.

Carl Rosell, Kearny, N. J.

Carl E. Seydell, Wichita, Kans.

Thomas Sherman, State College, Pa.

Joe Gronk, New York, N. Y.

Atwood Shupp, Easton, Pa.

John Simpson, Crawfordsville, Ind.

Sheldon Swartz, Sharon, Mass.

R. C. Wheeler, Walla Walla, Wash.

White's World-Wide Shortwave Stations

Continuing with our rundown of some of the bare basics of how to succeed in SWLing without really trying, let's take a brisk look at methods of sending signal strength reports. Mind you, a report of signal strength isn't 100% of a reception report (we discussed the other things in the previous edition), but it's the one thing which really makes the whole thing useful to the broadcaster who hears from you. He makes use of your report by seeing how his signal is getting into your area and can then decide on his future schedules and frequencies.

Saying in your report, "Your signal was readable," or even "strong" is simply not enough to be of any use. There are too many other

factors. In fact, at one time broadcasters demanded that listeners use the old "RST" system of reporting. This indicated Strength, Readability, Tone. Eventually this system was found to be insufficient for many broadcasters faced with today's many spectrum problems. A new system was devised which has become the standard for reception reports; it's a snap to use, it tells the whole story, and we suggest that you incorporate it into all of your reception reports. It's known as the SINPO system and it tells about *Signal strength*, *Interference*, *Noise*, *Propagation disturbances* (fading), and *Overall merit*. Each signal is evaluated for these individual characteristics and then given a number rating for each of them. The numbers range

| QSA | | QRM | | QRN | | QSB | | QRK | |
|-----------------|----------------|--------------|----------|-------------------|----------|-------------------------|----------|---------------|-----------|
| Signal strength | | Interference | | atmospheric Noise | | Propagation disturbance | | Overall merit | |
| 5 | excellent | 5 | NIL | 5 | NIL | 5 | NIL | 5 | excellent |
| 4 | good | 4 | slight | 4 | slight | 4 | slight | 4 | good |
| 3 | fair | 3 | moderate | 3 | moderate | 3 | moderate | 3 | fair |
| 2 | poor | 2 | severe | 2 | severe | 2 | severe | 2 | poor |
| 1 | barely audible | 1 | extreme | 1 | extreme | 1 | extreme | 1 | unusable |

WORLD-WIDE SHORTWAVE STATIONS

from 1 to 5, with 5 being the best possible rating and 1 being the lowest. You would then send out your reception reports with signal ratings which might read SINPO 55555 (which is the best possible rating and would only be awarded to a station whose signal was peeling the paint off your walls). A report of SINPO 34332 would mean that the strength was only fair to begin with, but because of moderate interference and static, combined with moderate fading, the overall merit of the signal was poor.

You should be able to send out top notch reports with this system on the very first few

| kHz | Call | Name | Location |
|------|-------|-----------------|----------------------|
| 2360 | TGBA | R. Maya | Huehuetenango, Guat. |
| 2430 | YVPM | E. Radiofonicas | Caracas, Venez. |
| 2470 | YVNI | R. Carora | Carora, Venez. |
| 2510 | HLK50 | V. Free Korea | Seoul, S. Korea |

90-Meter Band—3200 to 3400 kHz

| | | | |
|------|-------|------------------------|------------------------|
| 3204 | — | Nigerian BC | Ibadan, Nigeria |
| 3230 | VRH8 | Fiji BC | Suva, Fiji Is. |
| 3241 | YDR3 | RRI | Ambon, Indonesia |
| 3255 | ELBC | Liberian BC | Monrovia, Liberia |
| 3265 | HCMZ6 | V. Dorado | Dorado, Ecuador |
| 3284 | VRM9 | Fiji BC | Suva, Fiji Is. |
| 3295 | YDY2 | RRI | Samarinda, Indonesia |
| 3310 | — | R. Clube de Mozambique | Quelimane, Mozamb. |
| 3325 | ZYJ21 | R. Borborema | Campina Grande, Brazil |
| 3335 | ZYR59 | V. do Serato | Pres. Prudente, Brazil |
| 3346 | — | Lusaka Calling | Lusaka, Zambia |
| 3360 | — | R. Peking | Peking, China |
| 3375 | VUD | All India R. | Gauhati, India |
| 3380 | — | R. Mali | Bamako, Mali |
| 3390 | — | R. Peking | Peking, China |
| 3448 | — | RRI | Purwokerto, Indonesia |
| 3815 | HCPZ1 | R. Rumichaca | Tulcan, Ecuador |
| 3910 | CR4AC | R. Barlavento | Cape Verde Is. |
| 3945 | JOZ4 | Nihon Tampa Hoso | Tokyo, Japan |
| 3970 | — | R. Buea | Buea, Cameroon |
| 3980 | — | Nigerian BC | Enugu, Nigeria |
| 3995 | — | RAI | Rome, Italy |
| 4040 | — | R. Erevan | Erevan, USSR |
| 4265 | DAM | (time signals) | Elmshorn, Germany |
| 4500 | VNG | Austral. BC | Lyndhurst, Australia |
| 4665 | -- | R. Baku | Baku, USSR |

60-Meter Band—4750 to 5060 kHz

| | | | |
|------|--------|-------------------|----------------------|
| 4756 | VRH4 | R. Fiji | Suva, Fiji Is. |
| 4762 | OXC4W | R. Inca | Lima, Peru |
| 4770 | YVOE | R. Bolivar | Bolivar, Venez. |
| 4784 | TIRH82 | R. Popular | San Jose, C.R. |
| 4790 | OAX5X | R. Nazca | Lima, Peru |
| 4800 | VUD | All India R. | Hyderabad, India |
| 4810 | — | VTVN | DaNang, S. Vietnam |
| 4820 | HCRT6 | R. Paz y Bien | Ambato, Ecuador |
| 4825 | OAZ6Z | R. Moquegua | Moquegua, Peru |
| 4840 | — | R. Botswana | Gaborone, Botswana |
| 4850 | V3USE | Mauritius BC | Forest Side, Maurit. |
| 4855 | OXC7E | R. Pt. Maldonado | Pt. Maldonado, Peru |
| 4870 | HCGM7 | R. Rio Amazonas | Macuma, Ecuador |
| 4880 | HCWE1 | R. Nac. Espejo | Quito, Ecuador |
| 4890 | YVKB | R. Venezuela | Caracas, Venezuela |
| 4895 | ZYN22 | R. Cultura | Bahia, Brazil |
| 4907 | — | R. Cambodia | Phnom-Penh, Cambodia |
| 4915 | — | R. Accra | Accra, Ghana |
| 4920 | YVKR | R. Caracas | Caracas, Venez. |
| 4934 | OAX5O | R. Concejo Prov. | Abancay, Peru |
| 4940 | OAZ4R | R. San Juan | San Juan, Peru |
| 4950 | HCAV3 | R. Luz y Vida | Quito, Ecuador |
| 4955 | OAX5S | R. Amauta | Huanta, Peru |
| 4967 | — | R. Kuwait | Kuwait |
| 4975 | OXC4H | R. del Pacifico | Lima, Peru |
| 4985 | CP75 | R. Cruz del Sur | La Paz, Bolivia |
| 4995 | ZYX2 | R. Brasil Central | Goiania, Brazil |
| 5000 | WWV | (time signals) | Boulder, Colo. |
| 5095 | OAX2S | R. Jaen | Jaen, Peru |

tries. We are furnishing you with a complete guide to using the SINPO system—good DX!

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| kHz | Call | Name | Location |
|------|-------|------------------|---------------------|
| 5020 | — | R. Niger | Niamey, Niger |
| 5025 | ZYX30 | R. Aquidauana | Aquidauana, Brazil |
| 5033 | CR6RW | R. C. de Cabinda | Cabinda, Angola |
| 5040 | YVQH | R. Maturin | Maturin, Venez. |
| 5055 | CP87 | R. San Rafael | San Rafael, Bolivia |
| 5070 | TGMS | T. Nacional | Mazatenango, Guat. |
| 5170 | — | — | Fukien, China |
| 5500 | — | R. Peking | Peking, China |
| 5850 | — | R. Peking | Peking, China |
| 5920 | — | R. Tashkent | Tashkent, USSR |

49-Meter Band—5950 to 6200 kHz

| | | | |
|------|-------|-----------------------|---------------------------|
| 5954 | TIO | R. Casino | San Jose, C.R. |
| 5955 | CP60 | R. Pio Decimo Segundo | La Paz, Bolivia |
| 5960 | BEP23 | Police BC | Taipei, Taiwan |
| 5965 | HCGE5 | R. Mundial | Quito, Ecuador |
| 5975 | CP44 | R. Nacional | LaPaz, Bolivia |
| 5990 | BED30 | BC of China | Taipei, Taiwan |
| 5995 | — | R. Hanoi | Hanoi, N. Vietnam |
| 5993 | — | R. Mdandaka | Mdandaka, Congo |
| 6000 | OEI20 | R. Osterreich | Vienna, Austria |
| 6005 | CFCW | — | Montreal, Que. |
| 6010 | YSS | R. Nacional | San Salvador, El Salvador |
| 6020 | 4VEB | R. Caraibes | Pt.-au-Prince, Haiti |
| 6025 | CSA52 | R. Nacional | Lisbon, Portugal |
| 6030 | CFVP | — | Calgary, Alta. |
| 6040 | — | V. America | Munich, W. Germany |
| 6045 | OXY4H | R. Santa Rosa | Lima, Peru |
| 6055 | — | R. Kuwait | Kuwait |
| 6060 | LRA31 | R. Nacional | Buenos Aires, Argentina |
| 6070 | — | R. Sofia | Sofia, Bulgaria |
| 6075 | OAX4S | R. Onda Popular | Lima, Peru |
| 6075 | CXA3 | R. Ariel | Montevideo, Uruguay |
| 6080 | 4VHW | R. Haiti | Pt.-au-Prince, Haiti |
| 6090 | ZAA | R. Tirana | Tirana, Albania |
| 6095 | ZYB7 | R. de Sao Paulo | Sao Paulo, Brazil |
| 6105 | — | R. Prague | Prague, Czech. |
| 6110 | HRXW | R. Comayaguela | Tegucigalpa, Honduras |
| 6115 | — | R. C. de Mozambique | Lourenco Marques, Mozamb. |
| 6120 | DZF4 | Call of Orient | Manila, Phil. |
| 6125 | PRG9 | R. Nac de Sao Paulo | Sao Paulo, Brazil |
| 6130 | CHNX | — | Halifax, N.S. |
| 6135 | OXC4M | R. Pasco | Pasco, Peru |
| 6145 | HRXE | R. Mil Treinta | Juticalpa, Hond. |
| 6155 | ZAA | R. Tirana | Tirana, Albania |
| 6165 | — | Swiss BC | Berne, Switz. |
| 6170 | 8FK35 | RRI | Padang, Indonesia |
| 6175 | — | Nigerian BC | Kaduna, Nigeria |
| 6185 | LLI | R. Norway | Oslo, Norway |
| 6190 | VUD | All India R. | Delhi, India |
| 6198 | OAX1B | R. Sudamericana | Lima, Peru |
| 6225 | — | R. Peking | Peking, China |
| 6325 | — | R. Peking | Peking, China |
| 6430 | — | R. Peking | Peking, China |
| 6620 | — | R. Peking | Peking, China |
| 6850 | — | Pathfinders Station | Warsaw, Poland |
| 7055 | — | R. Peking | Peking, China |

41-Meter Band—7100 to 7300 kHz

| | | | |
|------|---|-------------|-------------------|
| 7100 | — | R. Budapest | Budapest, Hungary |
|------|---|-------------|-------------------|

| kHz | Call | Name | Location | kHz | Call | Name | Location |
|------|-------|------------------|------------------------|-------|-------|-----------------|----------------------|
| 7105 | — | R. Nepal | Kathmandu, Nepal | 11820 | — | R. Abidjan | Abidjan, Ivory Coast |
| 7115 | — | R. Peking | Peking, China | 11830 | — | V. America | Dixon, Calif. |
| 7125 | — | V. de Revolucion | Conakry, Guinea | 11845 | VUD | All India R. | Delhi, India |
| 7135 | — | R. Monte Carlo | Monte Carlo, Monaco | 11855 | ETLF | R. V. Gospel | Addis Ababa, Eth. |
| 7145 | — | R. Malaysia | Sarawak | 11860 | — | BBC | Ascension I. |
| 7155 | HVJ | Vatican Radio | Vatican City | 11866 | — | R. Lubumbashi | Lubumbashi, Congo |
| 7160 | — | Austr. BC | Darwin, Australia | 11875 | — | R. Japan | Tokyo, Japan |
| 7170 | — | R. Algiers | Algiers, Algeria | 11880 | VLH11 | R. Australia | Melbourne, Australia |
| 7180 | — | R. Liberty | Spain | 11890 | DZE9 | Call of Orient | Manila, Phil. |
| 7190 | — | R. Colombo | Columbo, Ceylon | 11900 | CXA10 | SODRE | Montevideo, Uruguay |
| 7200 | ZAA | R. Tirana | Tirana, Albania | 11910 | VUD | All India R. | Delhi, India |
| 7210 | PCJ | R. Nederland | Hilversum, Netherlands | 11915 | HCJB | V. de los Andes | Quito, Ecuador |
| 7220 | — | R. Liberty | Munich, Germany | 11925 | — | BBC | London, England |
| 7230 | CR6RM | R. Cl. de | Mocamedes, Angola | 11935 | — | R. Nacional | Lisbon, Portugal |
| 7235 | — | RAI | Rome, Italy | 11945 | DMQ11 | Deutsche Welle | Cologne, W. Germany |
| 7240 | — | R. Peking | Peking, China | 11955 | — | R. Warsaw | Warsaw, Poland |
| 7250 | — | R. Singapura | Singapore | 11965 | — | R. Japan | Tokyo, Japan |
| 7260 | — | Gorovit Minsk | Minsk, USSR | 11975 | ELWA | R. ELWA | Monrovia, Liberia |
| 7270 | — | R. RSA | Johannesburg, S. Afr. | 12005 | — | R. Peking | Peking, China |
| 7280 | — | BBC | London, England | 12060 | — | R. Peking | Peking, China |
| 7290 | DMQ7 | Deutsche Welle | Cologne, W. Germany | 13555 | GIC33 | (time signals) | Hailsham, England |
| 7295 | — | R. Athina | Athens, Greece | 15000 | LOL | (time signals) | Buenos Aires, Arg. |
| 7305 | — | R. Novosibirsk | Novosibirsk, USSR | 15095 | — | R. Peking | Peking, China |
| 7335 | CHU | (time signals) | Ottawa, Ont. | | | | |
| 7440 | — | R. Peking | Peking, China | | | | |
| 7620 | — | R. Peking | Peking, China | | | | |
| 7947 | — | R. Peking | Peking, China | | | | |
| 8400 | — | R. Peking | Peking, China | | | | |
| 8638 | DAM | (time signals) | Elmshorn, Germany | | | | |
| 9277 | NPQ | (time signals) | San Francisco, Calif. | | | | |
| 9457 | — | R. Peking | Peking, China | | | | |

31-Meter Band—9500 to 9775 kHz

| | | | |
|-------|--------|--------------------|-----------------------|
| 9500 | — | R. Berlin Int'l | Berlin, E. Germany |
| 9510 | — | BBC | London, England |
| 9515 | — | R. Malaysia | Malaysia |
| 9525 | — | BBC | London, England |
| 9530 | — | V. America | Woolferton, Engl. |
| 9535 | — | Swiss BC | Berne, Switz. |
| 9545 | DMQ9 | Deutsche Welle | Cologne, W. Germany |
| 9550 | — | R. Warsaw | Warsaw, Poland |
| 9555 | — | BBC | London, England |
| 9565 | — | R. Moscow | Moscow, USSR |
| 9570 | — | BBC | Tebrau, Malaysia |
| 9575 | VUB | All India R. | Bombay, India |
| 9585 | — | R-TV Francaise | Paris, France |
| 9590 | — | Swiss BC | Berne, Switz. |
| 9595 | — | Trans World R. | Monte Carlo, Monaco |
| 9600 | XEYU | Universidad Nac. | Mexico City, Mex. |
| 9610 | — | R. Addis Ababa | Addis Ababa, Ethiopia |
| 9615 | TIRICA | V. de la Victor | San Jose, C.R. |
| 9620 | ZYR97 | R. Nova de Julio | Sao Paulo, Brazil |
| 9630 | — | R. Nacional | Lisbon, Portugal |
| 9640 | DMQ9 | Deutsche Welle | Cologne, W. Germany |
| 9645 | TIFC | Faro del Caribe | San Jose, C.R. |
| 9655 | DMQ9 | Deutsche Welle | Cologne, W. Germany |
| 9660 | BED42 | BC of China | Taipei, Taiwan |
| 9675 | — | R. Japan | Tokyo, Japan |
| 9685 | — | R. Erevan | Erevan, USSR |
| 9690 | — | R. Peking | Peking, China |
| 9700 | — | R. Sofia | Sofia, Bulgaria |
| 9710 | — | RAI | Rome, Italy |
| 9720 | — | Swiss BC | Berne, Switz. |
| 9725 | — | BBC | Tebrau, Malaysia |
| 9735 | — | V. America | Dixon, Calif. |
| 9745 | — | R. Mali | Bamako, Mali |
| 9752 | — | R. Suriname | Surinam |
| 9760 | — | R. Hanoi | Hanoi, N. Vietnam |
| 9770 | OEI47 | R. Osterreich | Vienna, Austria |
| 9800 | — | R. Peking | Peking, China |
| 9905 | — | Gorovit Khabarovsk | Khabarovsk, USSR |
| 10000 | WWYH | (time signals) | Honolulu, Hawaii |
| 10530 | — | Gorovit Alma Ata | Alma Ata, USSR |
| 11505 | — | R. Peking | Peking, China |
| 11680 | — | BBC | London, England |

25-Meter Band—11700 to 11975 kHz

| | | | |
|-------|-------|------------------|------------------------|
| 11700 | TGQB | R. Quezaltenango | Quezaltenango, Guat. |
| 11710 | — | R. Brazzaville | Brazzaville, Congo |
| 11720 | — | BBC | Limassol, Cyprus |
| 11730 | ETLF | R. V. Gospel | Addis Ababa, Eth. |
| 11735 | CXA7 | R. Oriental | Montevideo, Uruguay |
| 11745 | — | R. Berlin Int'l | Berlin, E. Germany |
| 11755 | VUD | All India R. | Delhi, India |
| 11760 | — | R. Habana | Havana, Cuba |
| 11775 | — | Swiss BC | Berne, Switzerland |
| 11785 | DMQ11 | Deutsche Welle | Cologne, W. Germany |
| 11790 | WNYW | R. New York W/W | New York, N.Y. |
| 11800 | PCJ | R. Nederland | Hilversum, Netherlands |
| 11805 | — | V. America | Manila, Phil. |
| 11815 | — | R. Free Europe | Lisbon, Portugal |

19-Meter Band—15100 to 15450 kHz

| | | | |
|-------|-------|--------------------|------------------------|
| 15115 | — | Australian BC | Darwin, Austr. |
| 15130 | ETLF | R. V. Gospel | Addis Ababa, Eth. |
| 15135 | PRB23 | R. Panamericana | Sao Paulo, Brazil |
| 15150 | — | R. Kuwait | Kuwait |
| 15160 | — | R. Budapest | Budapest, Hungary |
| 15165 | ZYN7 | Cera R. Clube | Fortaleza, Brazil |
| 15180 | — | Gorovit Sverdlovsk | Sverdlovsk, USSR |
| 15195 | — | V. America | Tangiers, Morocco |
| 15210 | — | V. America | Manila, Phil. |
| 15225 | — | R. Bucharest | Bucharest, Rumania |
| 15236 | — | R. Peking | Peking, China |
| 15250 | — | R. Bucharest | Bucharest, Rumania |
| 15260 | — | BBC | London, England |
| 15270 | CXA18 | SODRE | Montevideo, Uruguay |
| 15285 | — | V. America | Colombo, Ceylon |
| 15300 | DZH9 | Call of Orient | Manila, Phil. |
| 15310 | — | V. Revolucion | Conakry, Guinea |
| 15320 | — | R. Australia | Melbourne, Australia |
| 15335 | VUM | All India R. | Madras, India |
| 15345 | BED49 | BC of China | Taipei, Taiwan |
| 15360 | — | V. America | Manrovia, Liberia |
| 15370 | ZYC9 | R. Tupi | Rio de Janeiro, Brazil |
| 15385 | — | Gorovit Gorki | Gorki, USSR |
| 15400 | — | V. America | Greenville, N.C. |
| 15410 | — | V. America | Greenville, N.C. |
| 15425 | ETLF | R. V. Gospel | Addis Ababa, Eth. |
| 15435 | DMQ15 | Deutsche Welle | Cologne, W. Germany |
| 15445 | — | V. America | Monrovia, Liberia |
| 15520 | — | R. Pyongyang | Pyongyang, N. Korea |
| 17194 | PPR | (time signals) | Rio de Janeiro, Brazil |

16-Meter Band—17700 to 17900 kHz

| | | | |
|-------|------|------------------|-----------------------|
| 17705 | VUD | All India R. | Delhi, India |
| 17720 | — | R. Tunis | Tunis, Tunisia |
| 17745 | — | BBC | London, England |
| 17755 | — | V. America | Manila, Phil. |
| 17770 | — | RAI | Rome, Italy |
| 17775 | — | V. America | Monrovia, Liberia |
| 17775 | — | R. Moscow | Moscow, USSR |
| 17795 | — | R. Budapest | Budapest, Hungary |
| 17805 | — | R. Free Europe | Lisbon, Portugal |
| 17805 | — | R. RSA | Johannesburg, S. Afr. |
| 17815 | — | RAI | Rome, Italy |
| 17820 | — | V. America relay | Poro, Phil. |
| 17845 | — | R. Prague | Prague, Czech. |
| 17855 | HCJB | V. Andes | Quito, Ecuador |

13-Meter Band—21450 to 21750 kHz

| | | | |
|-------|-----|----------------|-----------------------|
| 21450 | — | R. Prague | Prague, Czech. |
| 21455 | — | V. Nigeria | Lagos, Nigeria |
| 21470 | — | BBC | London, England |
| 21580 | — | R-TV Francaise | Paris, France |
| — | — | V. Nigeria | Lagos, Nigeria |
| 21500 | — | R. Brazzaville | Brazzaville, Congo |
| 21535 | — | R. RSA | Johannesburg, S. Afr. |
| 21540 | HER | Swiss BC | Berne, Switz. |
| 25610 | — | R. Nederland | Hilversum, Neth. |
| 25650 | — | BBC | London, England |
| 25730 | LLL | R. Norway | Oslo, Norway |
| 25790 | — | R. RSA | Johannesburg, S. Afr. |
| 25900 | LLA | R. Norway | Oslo, Norway |

White's Emergency Radio Station Listings for the Boston Area

□ RADIO-TV EXPERIMENTER and SCIENCE AND ELECTRONICS furnishes this exclusive listing of emergency radio stations as an aid to our many readers now engaged in the fascinating and rapidly growing hobby of monitoring emergency radio communications. We have and will be publishing similar lists devoted to different metropolitan areas in forthcoming issues so that you'll be able to accumulate a sizable array of this difficult-to-obtain data. Refer to the index on page 81 for our 1969 program.

If you desire to obtain similar lists from other areas in the United States that have not or will not be published in this magazine in 1969, then we suggest you write to Communications Research Bureau, Box 56, Commack, N. Y. 11725. They may have a list of emergency radio services that covers your locality. Include a stamped, self-addressed envelope with your request.

| Station | Police | Fire |
|----------------------------|--------|---------------|
| BOSTON POLICE DEPT. | | |
| KCA860 | 158.97 | KCF751 453.35 |
| KCC768-84 | 39.02 | KGR364 453.20 |
| KCC918 | 39.02 | KGR365 453.40 |
| KCD937 | 39.02 | KGR366 453.30 |
| KCF712 | 39.02 | |

| Station | Police | Fire |
|--------------------------|--------------|--------|
| BOSTON FIRE DEPT. | | |
| KCA591 | 33.74 153.89 | 154.22 |
| KJS733-5 | 33.74 153.89 | |
| KJW560 | 33.74 153.89 | |

MUNICIPAL DEPARTMENTS

| Station | Police | Fire |
|------------|----------------|-----------------|
| Abington | KBE498 155.73 | KCD823 33.90 |
| Acton | KCB875 155.01 | mobiles 45.60 |
| Amesbury | | KCV354 154.07 |
| | | KCV354 154.145 |
| Andover | KCB262 39.10 | KCF313 33.66 |
| | | KCF313 154.07 |
| | | KJD876 33.66 |
| Arlington | | KCR311 154.22 |
| Ashburnham | | KCB404 33.70 |
| | | KCB404 33.82 |
| Ashland | KCE327 155.79 | KCF945 46.46 |
| Auburn | KCB970 155.55 | KBT465 33.62 |
| | | KCN817 33.62 |
| Avon | KCI1271 155.73 | KCD727 46.14 |
| Ayer | KCF802 39.42 | KAQ921 46.14 |
| Bedford | KCF442 158.73 | KBT205 33.66 |
| | | KBT205 154.34 |
| Bellingham | KCE915 39.42 | KEP595 33.54 |
| Belmont | KAX786 155.655 | KCD849 154.13 |
| | KCA969 155.655 | KCD849 154.22 |
| | KCA969 158.97 | |
| Berlin | mobiles 37.10 | |
| Beverly | KCA875 45.58 | KAY259 154.07 |
| | KCA875 158.97 | |
| Billerica | KCB490 155.13 | KCF312 33.66 |
| Blackstone | KCI228 155.79 | KGT480 33.62 |
| Bolton | | KBA887 33.70 |
| Boxford | mobiles 44.74 | KCH315 154.07 |
| Boylston | KFV420 37.10 | KCF337 33.70 |
| Braintree | KCA780 155.49 | KCC352 46.14 |
| | KCA780 158.97 | |
| Brockton | KCB421 155.685 | KCA403 154.31 |
| | KCB421 155.73 | |
| Brookline | KCA975 39.94 | KCF364 33.78 |
| | | KCF364 154.22 |
| | | KCF366-70 33.78 |
| Burlington | KCA953 155.13 | KAX310 154.34 |
| Cambridge | | KCB290 33.94 |
| | | KCB290 154.22 |
| | | KCB290 154.355 |

| Station | Police | Fire |
|----------------|----------------|-----------------|
| Canton | KCB417 155.73 | KCB746 33.50 |
| Carlisle | KEM569 155.01 | KCF311 33.66 |
| Charlton | KCB296 155.07 | KCD975 33.62 |
| Chelmsford | KCF493 155.67 | KCF310 33.66 |
| Chelsea | KCA343 45.10 | KDD985 154.22 |
| | | KDD985 154.325 |
| Clinton | KCA896 37.10 | KCH246 33.70 |
| | | KCH246 154.31 |
| Cohasset | KCA446 155.07 | KCH618 154.19 |
| Concord | KCA685 155.01 | KCD596 46.50 |
| Deedham | KJU853 39.08 | |
| | KCA957 155.61 | |
| Dover | KCG758 155.31 | KCA303 33.50 |
| Dracut | mobiles 155.67 | KCB745 33.66 |
| | mobiles 155.85 | KCB745 154.44 |
| Dudley | KCC416 155.43 | KCH427 33.62 |
| Dunstable | mobiles 39.42 | KCF309 33.66 |
| | | KJS918 33.66 |
| Duxbury | KCA707 39.22 | KCA351 33.90 |
| E. Boxford | KJD278 45.14 | |
| E. Bridgewater | KCC354 155.73 | KCC350 33.90 |
| | | KBW838 153.98 |
| | | KAY985 33.62 |
| E. Douglas | | mobiles 33.50 |
| Easton | KCF692 155.73 | KCI370 155.82 |
| Essex | | KCH424 154.31 |
| Everett | KCA634 155.595 | |
| | KCA634 158.97 | |
| Fitchburg | KCA852 155.61 | KCB764 154.25 |
| Foxboro | KCA855 155.37 | KCF297 33.50 |
| Frammingham | KCA458 39.52 | KCC457 33.98 |
| Franklin | KCA462 39.42 | KCY582 33.50 |
| | | KCY582 33.54 |
| Gardner | KCB401 155.73 | KCA395 33.70 |
| | | KCB308 154.13 |
| | | KCD690 154.07 |
| | | KCD690 154.07 |
| | | KCF979 154.13 |
| Georgetown | KFN667 155.01 | |
| Gloucester | KCA632 155.55 | KDV782-3 154.16 |
| | KCA632 158.97 | KDV820 154.16 |
| | | KDQ249 154.07 |
| | | KDQ249 154.16 |
| | | KJE242 same |
| Groton | KCA850 39.42 | KAP589 46.14 |
| Groveland | KAW496 155.01 | KCF251 154.01 |
| | | KCF251 154.07 |
| Hamilton | KDE633 158.97 | |
| Hanover | KA9875 155.73 | KCH519 33.56 |
| | | KCH519 33.90 |
| Hanson | KCF898 155.73 | KCD453 33.90 |
| Harvard | KFI514 159.09 | KCC582 33.70 |
| | | KCF977 33.70 |
| Haverhill | KCA865 155.01 | KCA434 154.01 |
| Hingham | KCA987 155.07 | KCA638 154.19 |
| Holbrook | KCC756 155.49 | KCC742 46.14 |
| | | KCF402 46.14 |
| | | KCC705 33.70 |
| Holden | KCE221 39.42 | KCE745 46.46 |
| Holliston | | KCG489 33.62 |
| Hopedale | | KCE204 46.46 |
| Hookinton | KJD275 39.42 | KCB364 33.70 |
| Huobardsston | | KCI1278 33.98 |
| Hudson | KCA952 155.13 | KCI1278 46.42 |
| | | KCB458 154.19 |
| Hull | KCA956 155.07 | KBA346 154.07 |
| Ipswich | KCA926 45.90 | |
| | KCA926 158.97 | |
| Kingston | KCH720 39.22 | KCB479 33.90 |
| Lancaster | KCF779 37.10 | KEM722 33.70 |
| Lawrence | KCA382 155.37 | KAR981 153.95 |
| | | KJG925 154.025 |
| Leicester | KBC762 45.18 | KCD904 33.62 |
| | | KDU288 33.62 |
| Leominster | KAQ389 45.66 | KCB360 33.70 |
| | KCA684 45.66 | KCE365 33.70 |
| Lexington | KJE225 155.535 | |
| | KJE225 158.97 | |
| Littleton | | KDG722 33.66 |
| Lowell | KCA861 155.67 | KCF947 33.66 |
| | | KCF947 154.01 |
| Lunenburg | KCH343 155.76 | KAX916 33.70 |
| Lynn | KCA702 45.46 | KCC886 154.415 |
| | KCA702 158.97 | |
| Lynnfield Ctr. | KCB224 39.10 | |
| Malden | KCA854 156.21 | KCH732 154.25 |
| | KCA854 158.97 | |
| Manchester | KCA850 158.73 | KCX954 154.07 |
| | KCA850 158.97 | |
| Mansfield | KCA888 39.54 | KCA328 33.50 |
| Marblehead | KCA728 156.33 | KCH550 154.07 |
| | | KCH550 154.37 |