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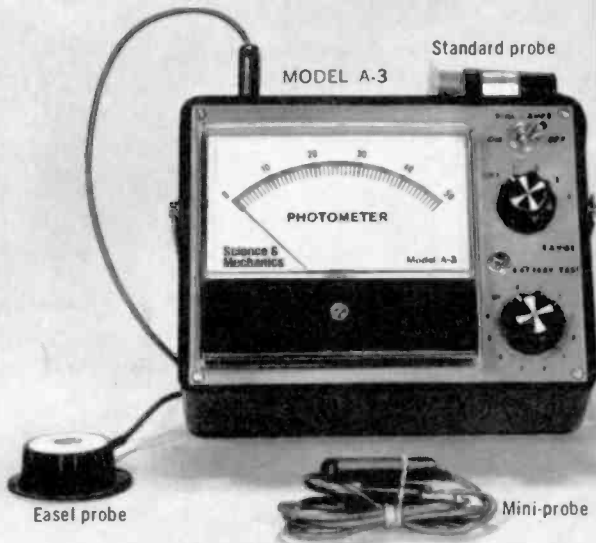
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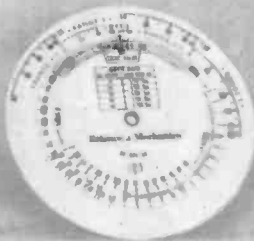


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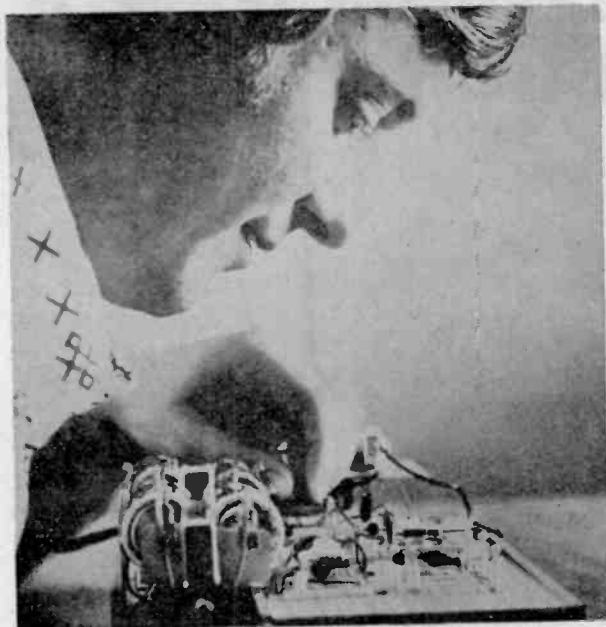
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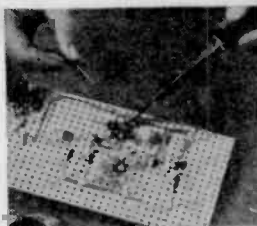
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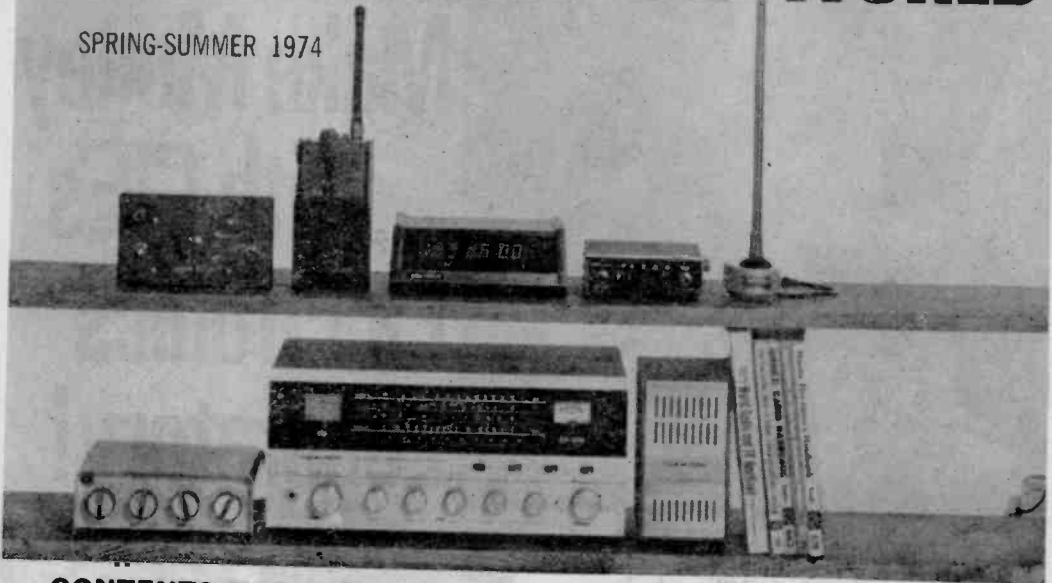
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COMMUNICATIONS WORLD

SPRING-SUMMER 1974



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COMMUNICATIONS WORLD is published semi-annually by Davis Publications, Inc. Editorial and business offices: 229 Park Avenue South, New York, N.Y. 10003. Advertising offices: New York, 229 Park Avenue South, 212-OR 3-1300, Chicago, 520 N. Michigan Ave., 312-527-0330; Los Angeles: J. E. Publishers' Rep. Co., 8560 Sunset Blvd., 213-659-3810. Copyright 1974 by Davis Publications, Co.

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Sky Wire Info

I heard some guys talk about an aperiodic antenna on Channel 15. What are they talking about?

—T.F., Yuma AZ

They are talking about an antenna whose characteristics change very little over a large specified band of frequencies. That's exactly the type of antenna you don't need on CB. If you must listen to transmissions, tune in the ham bands. They talk a lot too, but they make more sense.

I Met the Gent Once

What is Johnson's noise?

—L.S., Portland OR

Johnson's noise or thermal noise are the noise currents produced in sound-reproducing devices such as a telephone tape head, or loudspeaker due to the thermal agitation of the electrons in the conductor. By the way, this noise, which is mostly noticed at the high audio frequencies, can be reduced by the Dolby circuit.

Two for the Money

An old time SWler tells me that he can tell when both the ground wave and ionospheric ray from marine stations are received on his rig. Is he pulling my leg?

—G.H., Charleston SC

He sure can. When the ground wave is very strong and the station's distance from the receiver is the exact skip distance, the sky or ionospheric wave will arrive at the same time. However, the sky wave travels much further, up to the ionosphere and back, so it comes a fraction of a second later than the ground wave. You can tell this is happening by the hollow echo quality of the sound from the loudspeaker. But this happens infrequently, and so what!

QSL Swapper

Hi, Old Man. I'd like to swap my QSL cards for yours. What do you say?

—D.W., Rego Park NY

No. 1 forward QSL cards to only those I contact on the air. And since I have been working 2 meters for the past year, I have no exciting DX requests for my QSL. Just as well, I'd rather spend the time answering letters.

Hank Scott, our Workshop Editor, wants to share his project tips with you. Got a question or a problem with a project you're building—ask Hank! Please remember that Hank's column is limited to answering specific electronic project questions that you send to him. Sorry, he isn't offering a circuit design service. Write to:

**Hank Scott, Workshop Editor
COMMUNICATIONS WORLD
229 Park Avenue South
New York NY 10003**

Stop Help Needed

I have a pocket-size tape recorder that I would like to fit with an automatic end-of-reel stop circuit. How can do it?

—G.F.P., Los Altos CA

My first impulse is to tell you to forget the idea, but—why not? First, remember that anything you add to the recorder should not interfere with the normal action of tape against tape head. Also, try not to add magnetic parts that come near the tape heads or tape. Now, install a "micro" lever-action switch on the recorder's front panel near the tape path. Next add a copper wire shaft to the lever so that it rest against the taut tape. Slip a plastic pulley over the copper wire so that as the tape passes by the pulley will rotate, reducing the friction on the tape. The taut tape should hold the switch action closed. When the tape ends and passes completely onto the take-up reel, the spring action of the switch will automatically open the circuit, because there is no tape to hold the pulley in place.

FM From AM?

How can a crystal-controlled oscillator be frequency controlled?

—L.B., Boise ID

The frequency of a crystal-controlled oscillator is determined by the resonant frequency of the crystal and the reactance of the crystal circuit. So, it is easy enough to connect a variable-capacitance diode across the crystal circuit and vary the diodes capacitance with a varying DC voltage. The frequency of the circuit will vary slightly in step with DC changes. That's FM, boys.

Almost Had it Perfect

I got troubles. I installed a MATV system in my house and it doesn't work. As soon as I connected my TV the reception was lousy. The same is true for the MATV outlets I installed upstairs and in the den. What gives?

—G.H., Macon GA

I didn't print all of your letter to save space, but I did give enough clues so that our readers can see the fault you built in. Unterminated MATV outlets breed ghosts and signal loss. The more, the unmerriest. Pick up some type F connectors and install 75 ohm resistors in

TO: Communications World readers from the Editor of HI-FI STEREO BUYERS' GUIDE

"When you play your recordings you want the best hi-fi components you can get. HI-FI STEREO BUYERS' GUIDE tells you what they are, and whose equipment to buy. In addition to useful, authoritative articles on hi-fi componentry, every issue includes a new products Show Case, unbiased Tested in the Lab reports on quality hi-fi components, and Record and Tape Reviews on the Classics and Pops."

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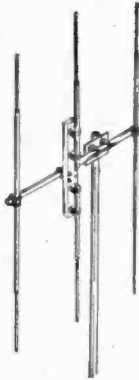
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ASK HANK,

them. Ground one end of the resistor and the other serves as the center terminal as done with coax cables. Terminate each unused MATV outlet with these dummy loads and your one-and-only-TV will get a good signal. When you get another set, remove the dummy load and connect the set. See, it's easy!

Storm Warning

How do I keep lightning from striking my new TV tower?

—S.S., College Point NY

Lower it.

Wants to Get Ahead

hank how can I get ahead be like you write columns for big magazines?

—K.L., Brownsville TX

Learn to right!

Save Two Bucks

Can I use the FCC Rules and Regs in the back of the CB Yearbook instead of buying a copy from the Feds? Why spend the extra cash is my question?

—T.K., Ft. Worth TX

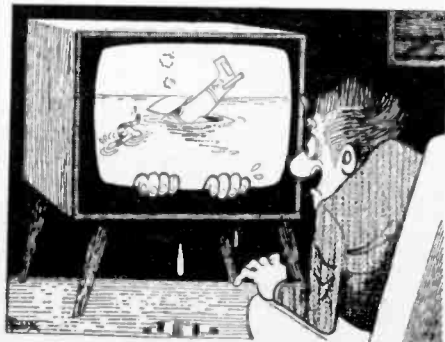
You bet you can, and send 10% of your savings to me. Why? That's my question!

A Four Alarmer

I happened to be in a burning building and could not get my walkie-talkie CB rig to work. Can the plasma gases of the fire do this to radio communications?

—F.H., Detroit MI

I was once in a burlesque house when it was raided and I couldn't hear the band. Everybody has problems. As for yours, I can't answer it, but I advise you to be more selective in the future about the site you transmit from. The first thing people in a burning building should do is get the H—I out, and fast. By the way, do you play with matches?



HE KNOWS!

Lungers Appraised

I have recently received a Tung-Sol CTL-705A rectifier tube. It is from 1943 and is still operating. I would like to know if this tube is worth anything?

—H.R., Sparks NV

Wait till it blows, then you'll find out for sure.

Wants 4 on the Floor

How can I add another speed to my (cheap) cassette tape recorder? It has only one speed now (1 7/8). How about a switch to place a resistor in series with the motor?

—R.H., Port Calborne, Ont.

Can't do. A series resistor will slow the speed but ruin the regulation. Wow will be very high. Some cassettes may even stall the drive mechanism. To make the cassette tape travel faster is done by increasing the capstan diameter, but you may need a machine shop to fabricate the parts. The odds are against you.

Antique Newcomer

Where can I buy an old time receiver? I don't care if I have to restore it.

—H.T., New Orleans LA

One man's junk is another man's riches. Visit a local flea market and see what you can buy. Never can tell what you will find.

Hold that Check

I think it's unfair to charge \$20 for a CB license. I moved and now I've got to let the FCC know. Another \$20 shot to H- -L!

—K.M., Kansas City KA

Save your money, pal! The Communications Fuzz does have a heart. There is no charge for a license modification because of a residence change.

It Bugs Him

My question is about ecology and the role electronics can play in the farmer's life. Why can't farmers use a portable electric insect killer in the fields instead of the chemicals they now use?

—G.C., Greenville SC

Sounds like a good idea, but what will the farmer do about the fumes from the portable electric generator that is gasoline driven? I do believe the price is high and the bugs would not cooperate by flying to the device and committing suicide.

Send 'em Letters

I'm afraid to contact mail order schools advertised in your magazine. Are they really good?

—P.M., Boise ID

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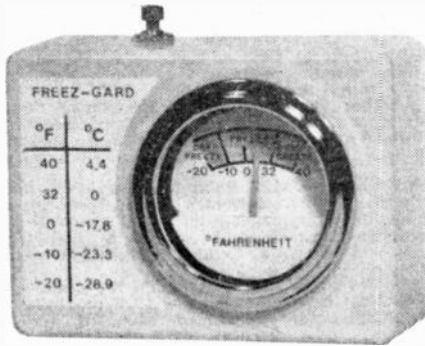


—a single moving part: the outer rotor of the motor and its shaft, of which the turntable platter is effectively an extension. Because the motor rotates exactly at the required speed, there are no intermediary motion-transmitting and speed-reducing elements like idlers, belts, gears or the like. This means that wear is practically nil, and that the turntable will maintain its initial performance almost indefinitely. Price: \$269.95. For more information, circle No. 59 on Reader Service Coupon.

Pushbutton Freezer Thermometer

Procon has introduced a pushbutton freezer thermometer, *Freez-Gard*, which tells at a glance whether the temperature inside a freezer is at the proper level. The device is mounted outside of the freezer and will provide accurate readings while the freezer door is completely shut, thus eliminating the need to open the freezer door to check the temperature. This unique feature is particularly important after power failures, during power reduction, or after large amounts of fresh food have been stored for initial freezing. No electrical connection or special installation is required. The attractively styled thermom-

PRODUCTS



eter, which can be mounted on top or on the side of the freezer, has color-coded temperature zones on the dial for ease of reading. Freez-Gard costs \$12.95 postpaid. For more information, circle No. 57 on Reader Service Coupon.

A Handful

E.F. Johnson has announced a new handheld portable citizens two-way radio equally useful in business or personal applications. The Johnson Messenger 108 is a full performance, single channel, 1.5 watt portable citizens band radio which packs all the performance, punch and dependability for which Johnson is famous at a new low price—under \$100. The American-made radio is compact and rugged. It can take the abuse a portable radio is subject to and still get the message through. For more information, contact the E.F. Johnson Company distributor near you or circle No. 59 on Reader Service Coupon.



Electronic Watchman Phones for Help

How about a low-cost electronic watchman to help protect your unoccupied cottage, ski lodge or other property against losses due to unauthorized entry, heating system failure, dangerous heat build-up, etc. Called the "CareTaker," the solid-state watchman comes with built-in high- and low-temperature sensors, and a remote pressure pad which can be concealed under a mat or rug up to 50 feet away from the unit. The system is plugged into any telephone jack, or connected to a phone line junction block with a simple adapter. When the temperature drops (indicating heating system failure), or rises

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LITERATURE LIBRARY

101. Kit builder? Like weird products? EICO's 1974 catalog takes care of both breeds of buyers at prices you will like.

102. International Crystal has a free catalog for experimenters (crystals, PC boards, transistor RF mixers & amps, and other comm. products).

103. See brochures on Regency's 1974 lineup of CB transceivers & VHF/UHF receivers (public service/business bands—police, fire, etc.)

104. Dynascan's new B&K catalog features test equipment for industrial labs, schools, and TV servicing.

105. Before you build from scratch, check the Fair Radio Sales latest catalog for surplus gear.

106. Get Antenna Specialists' cat. of latest CB and VHF/UHF innovations: base & mobile antennas, test equipment (wattmeters, etc.), accessories.

107. Want a deluxe CB base station? Then get the specs on Tram's super CB rigs.

108. You'll want Xcelite's new ratchet socket wrench set the moment you lay eyes on it. It has eleven sockets from 3/16 inch through 1/2 inch. The set includes a reversible ratchet handle with two spinner extensions—2 inches regular and 5 3/4 inches.

109. Bomar claims to have C/B crystal for every transceiver . . . for every channel. The catalog gives list of crystal to set interchangeability.

110. A Turner amplified mike helps get the most from a CB rig. This free brochure describes line of base & mobile station models.

111. Midland's line of CB (base and mobile) equipment, and marine transceivers and accessories are illustrated in a new 4-color 24-page folder. There's also a separate 8-page, 4-color flyer on scanners.

112. EDI (Electronic Distributors) has a catalog with an index of manufacturers' items literally from A to Z (ADC to Xcelite). Whether you want to spend 29 cents for a pilot-light socket or \$699.95 for a stereo AM/FM receiver, you'll find it here.

113. Get all the facts on Progressive Edu-Kits Home Radio Course. Build 20 radios and electronic circuits; parts, tools, and instructions included.

114. Olson Electronics' 244-page fully-illustrated 1974 catalog carries leading national brand products in all electronics categories.

115. Trigger Electronics has a complete catalog of equipment for those in electronics. Included are kits, parts, ham gear, CB, hi fi and recording equipment.

116. Get the HUSTLER brochure illustrating their complete line of CB and monitor radio antennas.

117. Teaberry's new 6-page folder presents their 6 models of CB transceivers (base and mobile): 1 transceiver for marine-use, and 2 scanner models (the innovative "Crime Fighter" receiver and a pocket-size scanner).

118. Burstein-Applebee's 1974 catalog has 276 pages of radio/TV electronics bargains. Selling for \$2, it is offered free to our readers.

119. Besides Browning's colorful leaflet on their Golden Eagle Mark III base station, their packet includes other surprises. The SST transceiver is claimed to have unparalleled design in the CB world. The LTD is pictured in actual size on a card for you to test on your car's dash. Specifications are given for both the SST and LTD. All literature is in full color.

120. Edmund Scientific's new catalog contains over 4000 products

that embrace many sciences and fields.

121. Cornell Electronics' "Imperial Thrift Tag Sale" Catalog features TV and radio tubes. You can also find almost anything in electronics.

122. Radio Shack's 1974 catalog for electronics enthusiasts has 180 pages, colorfully illustrated—a complete range (kits & wired) of hi-fi, CB, SWL equipment and parts.

123. It's just off the press—Lafayette's all-new 1974 illustrated catalog packed with CB, hi-fi components, test equipment, tools, ham rigs, and more.

124. Mosley Electronics reports that by popular demand the Model A-311 3-element CB beam antenna is being reintroduced. Send for the brochure.

125. RCA Experimenter's Kits for hobbyists, hams, technicians and students are the answer for successful and enjoyable projects.

126. B&F Enterprises has an interesting catalog you'd enjoy scanning. There are geiger counters, logic cards, kits, lenses, etc.

127. Avanti antennas (mobile and base for CB and VHF/UHF) are fully described and illustrated in new catalog.

128. A new free catalog is available from McGee Radio. It contains electronic product bargains.

129. Semiconductor Supermart is a new 1974 catalog listing project builders' parts, popular CB gear, and test equipment. It features semiconductors—all from Circuit Specialists.

130. Heath's new 1974 full-color catalog is a shopper's dream—chockful of gadgets and goodies everyone would want to own.

COMMUNICATIONS WORLD

Box 886

Ansonia Station

New York, N.Y. 10023

Please arrange to have this literature whose numbers I have circled at right sent to me as soon as possible. I am enclosing 25¢ to cover handling. (No stamps, please).



S/S 1974

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New Products

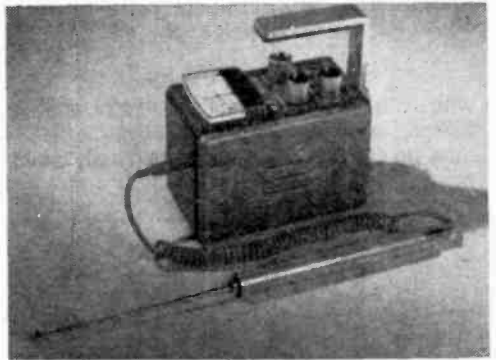


to a dangerous level, or when an intruder activates the pressure pad, the unit instantly opens a phone line and dials any number (either local or long-distance) which has been previously set into the instrument by means of simple panel dials. When the phone is answered, one of two signals is heard, indicating which sensor has been activated, so that the owner can take appropriate action. If the line is busy, or if no one is home, the device continues to re-dial at regular intervals until the phone is finally answered. Price of the "CareTaker" is \$129.50. For all the

facts, circle No. 45 on Reader Service Coupon.

Pinpoints Bugs

A new electronic device developed by the O-Lite Company of Greenwich, Connecticut is designed to detect and locate electronic eavesdroppers or "bugs." Identified as De-Bug Model 37, the device is intended for use by individuals who have reason to suspect that their business or personal secrets are being spied upon. The most common type of "bug" in use today is the miniaturized radio transmitter. Such devices are easily "planted" in electrical outlets, lighting fixtures and all types of furniture. Then their sensitive



Use Coupon on Left!

131. E. F. Johnson's 1974 full line of CB transceivers and accessories equipment is featured in a new 16-page brochure. A 4-color folder on monitor scanner line is also offered.

132. If you want courses in assembling your own TV kits, National Schools has 10 from which to choose. There is a plan for GIs.

133. Get the new free catalog from Howard W. Sams. It describes 100's of books for hobbyists and technicians—books on projects, basic electronics and related subjects.

134. Sprague Products has L.E.D. readouts for those who want to build electronic clocks, calculators, etc. Parts lists and helpful schematics are included.

135. The latest edition of Tab Books' catalog has an extensive listing of TV, radio and general servicing manuals.

136. Leader's catalog features "Instruments to Believe In." They have a complete line for industry, education and service, featuring oscilloscopes/vectorscopes, many generators, accessories, etc.

137. Pace Communications has a packet of information for you. The "Citizens two-way radio" answers all the questions from how to operate one to how much they will cost to operate. A booklet on Pace's scan/monitors to keep you informed is included.

138. Pearce-Simpson has a booklet, "Citizens Band Radios & Scanners," which pictures and describes the various models in this line. A section on CB antennas is included.

139. For the latest information on CB transceivers by Courier, send for their literature.

140. Featured in Siltronix's brochure are single sideband/AM citizen band transceivers, pictured and described with extra features and specifications listed. VFO sliders for monitoring are pictured as well as export models of linear amplifiers.

141. Lee Electronics Labs has an inexpensive circuit analyzer, which is featured in this catalog.

142. Available from Royce Electronics (a new name in electronics manufacturing) is a 16-page catalog for CB'ers. See their base and mobile transceivers, accessories and test instruments.

143. A set of Abraxas/4 speakers contains a rugged 12-inch long-throw woofer with a 22-oz. Alnico magnet, a 5-inch sealed-back rub-

ber-damped midrange, and two 3-inch dome tweeters from Designers Audio Products.

144. For a packetful of material, send for SBE's material on UHF and VHF scanners, CB mobile transceivers, walkie-talkies, slow-scan TV systems, marine-radios, two-way radios, and accessories.

145. For CB'ers from Hy-Gain Electronics Corp. there is a 50-page, 4-color catalog (base, mobile and marine transceivers, antennas, and accessories). Colorful literature illustrating two models of monitor-scanners is also available.

146. Robyn International has 4-color "spec" sheets for each model of their CB (base and mobile) transceivers and monitor-scanner lines.

147. Telex's 4-page, 2-color folder illustrates their new line of boom microphone head-sets for CB'ers and hams, as well as their line of communications headphones.

148. American Trading Corp. offers you two catalogs in 4-color. One features their Electronics 2000/Contact CB, pictured with descriptions and specifications. Their Monitor/Scanner, Surveyor Model 4H 4U, is featured in the second catalog.

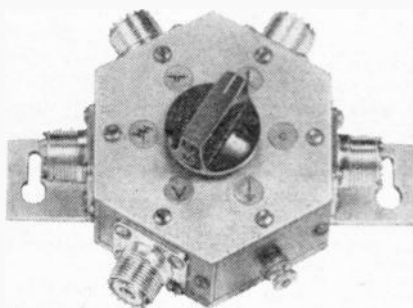
149. Cush Craft has a catalog on Citizens Band Antennas for every purpose. The Ringo base antenna is featured, as is the new Superfire 8-element horizontal/vertical power beam.

New Products

microphones pick up all conversations in the vicinity, and these are transmitted to the eavesdropper at a nearby safe location. Although such devices are illegal, they are very easy to obtain and practically impossible to detect by distant government monitoring stations. No practical protection can be offered by the law. O-Lite Company's new De-Bug Model 37 is as simple to operate as a transistor radio. It is broad-band tuned so that it listens in simultaneously to the entire spread of "bug" frequencies. The presence of a "bug" is detected immediately. In addition, a new verification circuit proves that the detected transmitter is not a faulty electrical device or a nearby radio station, and also helps to locate the intrusion device quickly. Price is \$348.00. For more info, circle No. 46 on Reader Service Coupon.

Antenna Switching

With the new Heathkit HD-1234 Coaxial Switch, amateur radio enthusiasts can now tune up off the air, then immediately switch



to an antenna for normal transmission and reception. The HD-1234 is designed to switch one RF source to any one of several antennas or RF loads while grounding the unused outputs. Two Heathkit Coaxial Switches can be used to switch up to four antennas/loads to four different units (transceivers, transmitters, receivers, etc.) Standing wave ratio to 250 MHz is 1.1:1 maximum. Power capability is 1000 watts (2000 PEP). A bracket is provided for mounting on equipment cabinets, desk or wall. Price of the HD-1234 Coaxial Switch is \$9.95 mail order. For more information and catalog, circle No. 1 on Reader Service Coupon.

Pause To Save Tape Time

Sanyo has introduced a new portable cassette tape recorder, the M2213, having a built-in condenser microphone with pause control, making it practical for the first time to use a tape recorder with a built-in condenser mike. The microphone does away with the need for additional attachments, while the



pause control provides a practical method of recording only what is meant to be retained, eliminating any dead portions of the tape. Listed at \$49.95, the unit weighs only three pounds and is only ten inches in length. Engineered in the unit are features such as automatic recording control, pushbutton operation and built-in AC circuitry or battery operation. For more information, circle No. 51 on Reader Service Coupon.

Big Name Goes Hobby

Modar Electronics Inc., a subsidiary of Motorola, Inc., has entered the amateur radio market with the introduction of the new *Metrum II* by Motorola radio line operating in the 144-148 MHz frequency band. The *Metrum II* (two meter) transceiver is a totally solid-state unit offered in 10-watt and 25-watt versions both switchable to 1-watt. The modern, attractively styled line features a shadow bronze finish, 12-channel capability, the dependable Motorola microphone and field-proved circuitry. It incorporates a rotary on/off volume control, a variable squelch control, an illuminated control instrument



panel, detent high-low power, detent repeater input and two detent auxiliary switches for custom adaptation by the operator. With built-in antenna mismatch protection, the *Metrum II* radio will continue functioning

(Continued on page 108)

communications WORLD Including WHITE'S RADIO LOG

READER SERVICE PAGE

• The Editor of COMMUNICATIONS WORLD offers readers an easy way to get additional information about products and services advertised in this issue. Also, if you would like more information about those short-wave products mentioned in this

issue and keyed with a Reader Service Number, it's yours for the asking. Just follow the instructions below and the literature you requested will be sent to you promptly and at no cost. It will be a pleasure to serve you.

• The coupon below is designed for your convenience. Just circle the numbers that appear next to the advertisement or editorial mention that interests you. Please limit your selections to 20 or less.

Then, carefully print your name and address on the coupon. Cut out the coupon and mail to COMMUNICATIONS WORLD, Box 886, Ansonia Station, New York, N.Y. 10023. Do it today!

Mail Coupon to:

This offer expires JULY 31, 1974

COMMUNICATIONS WORLD

S/S 1974

Box 886 Ansonia Station, New York, N.Y. 10023

• Okay, I want some information and I want it fast. Please arrange to have the literature whose numbers I've circled at right sent to me as soon as possible. I understand this is a free service; however, I must limit the circled items to 20. The best receiver I currently own

is a _____
(Manufacturer) (Model)

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

Name _____

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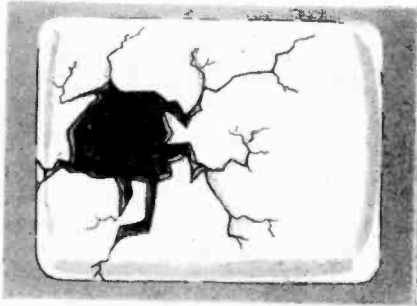
City _____

State _____

Zip _____

Some Common TV Problems and Their Causes

by Jack Schmidt



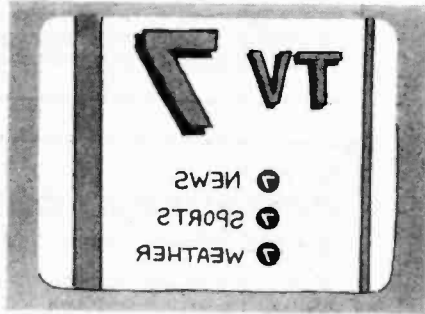
The kids were playing baseball in the familyroom . . . forget it!



This means you have been watching too long and your dinner is burning.



There's nothing wrong with your set! This is an educational channel showing digestion in a rhino's stomach.



Remember the night you made all the adjustments from the back of the set with the aid of a mirror?



Your antenna isn't high enough!



Your set payment is overdue . . .

COMMUNICATIONS WORLD

Including the Complete

WHITE'S RADIO LOG

SPRING-SUMMER 1974



H EY, don't look now but there's a whole new crop of DXers on the scene! If you followed the biggest story out of Washington in 1973, you must have heard about some of them, the Watergate "buggers."

Testimony given before the Congressional committee probing the no-no's committed at the Democratic party headquarters revealed that electronic bugs, a trio of tiny FM transmitters, had been hidden in the telephones. These mini VHF stations, operating on around 130-135 MHz with about 100 milliwatts of power, picked up phone conversations and re-broadcast them. On the other end, less than a quarter mile away, illicit listeners allegedly tuned these DX signals.

OK, so we're only kidding. The Watergate incident and real DXing are no more related than Gravel Gertie and Raquel Welch. Honest-to-goodness DXing is defined as the hobby of tuning in distant and, depending on the station's power, sometimes not so distant radio signals for the sheer fun of it. Without getting political about it—both Parties have roundly denounced the "plumbers" activities—one could hardly term the Watergate caper a hobby pastime!

Still the headlines conjure up some fascinating hypothetical situations. Suppose, for in-

stance, living in the posh apartments there just happened to live a VHF DXer. Now this fellow might find his kicks from tuning his 108-136 MHz aircraft band monitor to the channels used by jets arriving and departing Washington National Airport. An AM receiver, to be sure, but by slope detection the bug's FM signals might be audible. Our bright young lad just might have had the DXing experience of his life!

We doubt you'll ever stumble across a real live situation like this in your DXing activities, but it gives you an idea of the wide variety of radio signals on the airways today.

Yes, there are thousands upon thousands of radio signals crowding the frequency spectrum. Because of this vast array of DXing targets, most hobby monitors tend to specialize.

Some favor the shortwave frequencies, generally considered to be those between about 1605 and 30,000 kilohertz. These are often called SWLs—shortwave listeners. Others tune the standard AM broadcast band for their DX fare. Some listen to the longwaves below 540 kHz, and a growing number DX the very high and ultra high frequencies (VHF-UHF) channels above 30 MHz.

Some listeners break down their monitoring activities by type of transmission, as well as

frequency range. And there are three such broad categories. First there are the broadcast stations. The broadcasters are those which air what we normally think of as programs: music, drama, sports, news and the like—in short, entertainment and information directed to a general radio audience. Most broadcasters operate on the medium and shortwaves. But there are DX devotees of FM and TV broadcast stations as well.

The second category includes the amateur radio transmissions and citizen band stations. These are two-way shortwavers. The transmissions are nominally private—that is, they aren't intended for wide general audiences. Of course, they are easily and commonly heard by DXers who just happen to be listening in. After all, who knows who you might hear: Jordan's King Hussein, Senator Barry Goldwater, Arthur Godfrey, the Maharaja Namgyal of Sikkim—ham operators all. Or perhaps amateur radio monitoring is just a prelude to getting your own ham license.

This type of DXing, however, we leave to the many fine ham and CB magazines. COMMUNICATIONS WORLD covers the otherwise neglected fields of hobby listening.

Utility stations comprise the third broad category. This group is something of a catch-all, including virtually all other stations which are non-amateur and non-broadcast. These are special service stations, communications of a wide variety not intended for general audiences.

Utility stations include police, fire department and governmental agency transmitters, ship-to-shore radio, aeronautical communications, military signals, two-way radio transmissions and one-way point-to-point commercial and government operations, radioteletype and many,

many more. Frequency-wise, utility stations can be found across the entire radio spectrum, from longwave to UHF.

Utility stations, like the hams, aren't intended for public reception, but John Q. DXer can and does hear them. There are certain laws and international regulations which prohibit disclosure to other persons and making personal, beneficial use of information received by such eavesdropping. But if you limit yourself to just-for-fun DXing, you're home-free when you listen to the utility-type signals. Our mail here at COMMUNICATIONS WORLD indicates many of you especially enjoy tuning the broadcast stations, both on shortwave and medium wave.

Broadcast Band DXing. The hobby of listening to the broadcasting stations began more than 50 years ago in the United States. CW gets a few letters from veteran listeners every now and again. They tell of the early days of cat's whisker crystal set listening to the pioneer broadcasters on the medium waves, Pittsburgh's KDKA, WBZ, now in Boston but then at Springfield, Massachusetts, WJZ, New York, and a number of others.

In the early days of broadcasting, listening for distant stations was more common than it is in the roaring '70s. As the newfangled radio caught on, many families gathered around the kitchen table at night, taking turns with the headphones, listening to the crackling sounds from a station halfway across the continent.

Listening clubs sprung up, some of which still exist. Newspapers ran columns for radio hobbyists. As the novelty wore off, most people became interested in the entertainment aspects, not in the mere fact that a station was distant and hard to hear. The networks brought programs from the entertainment capitals of the country, but by way of the local affiliate station, not direct. If one could hear Bob Hope's network radio show from Hollywood, loud and clear via a hometown station, who cared to listen for a weak and static-filled transmission from a Los Angeles station?

Well, some still found DXing a fascinating pastime: a hard core of hobby listeners. These old-timers and a growing number of their latterday counterparts still get their kicks from listening to DX stations on the standard medium wave broadcast bands.

The medium waves, those stations your everyday AM radio will pull in on frequencies from about 540 to 1600 kHz, provide a good introduction to DXing even if you later switch to other types of listening targets and other frequency ranges. And you may find broadcast

Though retired for several years, popular shortwave personality Edward Startz remains a friend of shortwave DXers. For decades Eddy was the host of Radio Nederland's Happy Station program. Here he speaks with a group of SWLs during a visit here.



ON OUR COVER

Plenty of exciting listening hours can be yours with shortwave and action band monitoring equipment like that displayed on our cover for this Spring-Summer issue of Communications World.

Starting at the top left for you build-it-yourself listeners there's Super DXer—a homebrew preselector that adds dBs of gain to any signal sniffer. This project, complete with instructions and where to find parts, appears in the Spring-Summer 1973 issue of Electronics Hobbyist on your newsstand.

Continuing from left to right, top to bottom, a Hy-Gain Hy-Scan 4-channel pocket scanner brings the action band to all who keep in touch while on the go. Complete with the newest flex-style antenna that eliminates breakage when clipped to the belt with a carrying case also shown. This up-to-date portable comes in both VHF and UHF models. For additional information just circle No. 44 on the Reader Service Page.

Keeping correct time is an important element of a DXer's hobby, especially when gathering data for station verifications and for knowing just when to tune for station breaks. The digital clock from Heath was wired by this SWLer for the 24-hour mode and adjusted, of course, for GMT. Circle No. 1 on the Reader Service Page for a complete catalog from Heath.

Continuing along the top shelf, our DXer uses the very compact Pace SCAN-4H in both his shack and

mobile listening posts. Another 4-channel unit, this one has a dual power supply built right in the case for maximum convenience and flexibility. There's even a portable battery pack available that turns it into a back-up unit. Get more information about the Pace scanners by circling No. 43 on the Reader Service Page.

To copy transmissions when mobile with maximum clarity and with a minimum of fading and dropouts, an outdoor-mounted antenna is a must. If you're against punching, drilling, or cutting holes in the chariot, you can use this mounted-without-holes Model HFT from New-Tronics. It's a dual-band Hi-Lo monitor antenna in one neat package. It can even double as a 2-meter and 6-meter 2-way mobile antenna for hams. Circle No. 41 on the Reader Service Page for more information on the Model HFT.

Filling out our listening post, a new Gilfer pre-selector tuned for amateur radio DXing, a Radio Shack shortwave receiver, and some good reading bring us full circle. Gilfer's Model PMII-CX includes antenna tuning and loading controls for perfect antenna matching. Circle No. 42 on the Reader Service Page for more information. The Radio Shack DX-150B with matching speaker is available at the many Radio Shack stores and by mail order. It operates by dry-cell battery, auto, boat, or camper battery, and AC power. Circle No. 40 for more information.

band DXing—which is what hobby fanatics call medium wave listening although there are broadcast bands on shortwave as well—so attractive that you ignore the shortwaves and higher frequencies entirely.

So, BCB DXing, at least at first, requires no special equipment, which is a decided plus for the beginner. Almost any radio will do the trick, from a pocket portable transistor model to an old console set salvaged from the basement. Eventually, no doubt, you'll want a good communications receiver for your tuning, but that's not an essential for openers.

There are plenty of stations to try to tune, both high powered monsters and weak broadcasting outlets. In North America there are

roughly 5,000 different stations and even veterans of decades at the dials haven't heard them all. Another advantage for BCB DXers is the fact that most of the stations you'll hear when you start are programming in English, eliminating one of the problems faced by novice shortwave listeners, the language barrier.

But don't get the idea that medium wave BCB listening is a snap. Yes, you'll probably log quite a few stations from all over the country in short order. But after that it will get harder and harder, with each succeeding new station you hear making it that much more difficult to log the next. After you've been DXing a while, you'll come across a few

FROM BOTTOM TO TOP

Where to DX from 540 kHz to above 30,000 kHz

kH _z	TYPE OF DX	kH _z	TYPE OF DX	kH _z	TYPE OF DX
540-1605	Broadcast	5950-6200	Broadcast	17700-17900	Broadcast
1605-1800	Utility	6200-7000	Utility	17900-21000	Utility
1800-2065	Amateur, Utility	7000-7100	Amateur	21000-21450	Amateur
2065-2300	Utility	7100-7300	Amateur, Broadcast	21450-21750	Broadcast
2300-2500	Broadcast, Utility	7300-9500	Utility	21750-25600	Utility
2500-3200	Utility	9500-9775	Broadcast	25600-26100	Broadcast
3200-3400	Broadcast, Utility	9775-10000	Broadcast, Utility	26100-26960	Utility
3400-3500	Utility	10000-11700	Utility	26960-27230	Amateur, Citizens Band
3500-3900	Amateur, Utility	11700-11975	Broadcast	27230-28000	Utility
3900-4000	Amateur, Broadcast, Utility	11975-14000	Utility	28000-29700	Amateur
4000-4750	Utility	14000-14350	Amateur	29700-30000	Utility
4750-5060	Broadcast	14350-15100	Utility	30000 and above	Amateur, Utility, Broadcast
5060-5950	Utility	15100-15450	Broadcast		
		15450-17700	Utility		

stations speaking Spanish, perhaps a Cuban or a Mexican, and maybe some French-Canadians. Then you will begin to discover that medium wave reception is not limited to domestic stations, but can be international as well.

Far And Away. Under the right conditions and with good quality equipment and listening experience it is possible to hear stations from South America, Africa, Europe, Asia and the Pacific areas on the medium waves! That sounds unbelievable to the uninitiated, we know, but it is true. Experienced BCBers have managed to log 50, 75, 100 or more countries on medium wave!

But before you reach this point in your DXing career, you'll have to know something about the medium waves, the stations that inhabit this portion of the radio spectrum and the hows, whys and whens of DXing. In North America, and most of the western hemisphere, broadcasting stations are located on even frequencies 10 kHz apart, from 540 to 1600 kHz. In Europe and Africa and some other parts of the globe, medium wave station separations are eight or nine kilohertz. The result is that many foreign stations fall "in the cracks" between our domestic broadcasters. And this is what makes overseas broadcasters sometimes audible in the U.S. and Canada. For instance, a powerful Portuguese broadcaster operates on 782 kHz, between our standard channels of 780 and 790 kHz.

Admittedly catching these "split" frequency stations is tough and requires some knowhow and good equipment, but it is possible. Don't expect to do it at first, though. And we have to say, frankly, that many North American BCBers have never managed to latch onto a transatlantic signal on medium wave.

In the U.S. and Canada, the maximum power for a BC band station is 50 kilowatts—50,000 watts. These will usually be the easiest for new DXers to hear. There also are thousands of stations of the local variety which run only 250 watts or so. Overseas and in Latin America some stations operate with consider-

ably more power, some up to a million watts or more! Often DXers mistakenly assume that such mighty operations are illegal. 'Tain't so! Such high power is perfectly legal in those countries.

Since your first BCB loggings will probably be of the home-grown domestic type, it will help you to know that in our part of the world, the 107 different frequencies used in the medium wave range are divided into three basic categories, clear, regional and local channels.

Set your sights first on the "clears." In theory, a true clear channel would have only one station assigned, hence, no interference from other broadcasters. In fact, however, there is only one such frequency left in North America, 700 kHz, where Cincinnati's WLW holds forth alone. Most clear channels, and there are 60 of them on this continent, have several stations assigned. By careful spacing of the stations and directional antenna requirements they operate with a minimum of co-channel interference. American stations are "primary" on most of the "clears," but on some of the frequencies the kingpin station is a Canadian, Mexican, Cuban or Bahamian operation.

The second frequency category is the regional channel. Stations on these channels cover smaller regional areas than do the "clears." There are well over a thousand regional stations, broadcasting on 41 different frequencies. To minimize interference, since a single frequency may be shared by 25 to 50 different U.S. and Canadian stations, power is limited to a maximum of 5,000 watts, some are limited to daylight broadcasting only and there are further antenna restrictions.

Now if you've been doing your arithmetic, you'll realize that we've accounted for 101—60 clear and 41 regional channels—of the 107 frequencies for domestic MWers. What of the six frequencies remaining?

The third station category is the smallest in terms of frequencies but the largest in number of stations. These six channels, 1230, 1240, 1340, 1400, 1450 and 1490 kHz are for local service broadcasters and there are an average of about 175 stations on each of the frequencies. Pure bedlam! Yes, usually these local channels are just that, particularly around dusk when more distant stations start coming in. These stations are severely restricted in terms of broadcasting hours and antenna patterns, and it helps. But still these frequencies can be madhouses with all sorts of signals, from near

DXers are still waiting for a new Guatemalan station to begin regular programming. Thus far the station, Radio Tesulutlan, in the city of Coban, has only run sporadic tests, making it a rather rare catch for DXers. Here is one of the station's announcers at the mike during a test transmission.



and far, mixing it up. No wonder BCbers call this unholy clutch of channels "The Graveyards"!

But these frequencies also provide some of the very best DX targets, small low powered distant stations. Because of the vagaries of reception, on a given Graveyard channel you may find one station dominant on a certain day, another the following evening and still others audible, and more importantly, intelligible, at other times. This uncertainty is what makes DXing the BCB local channels so fascinating and challenging!

Why Does It Work? If you've listened to the radio even casually, undoubtedly you've noticed that AM station reception hundreds and thousands of miles away is possible. But why is this so?

When a radio signal leaves the transmitting antenna there are four ways in which it can propagate to reach the listener. Radio waves travel in straight lines. The first method of propagation is *direct*, line-of-sight, a beeline from the transmitting antenna to your receiving antenna. Obviously, because of the earth's curvature, this is strictly a local phenomenon.

Next there is *ground wave* propagation. The curving earth itself acts as sort of a conductor,

HEY THERE DX'ERS

We're looking for you! We want to know what you look like. Why not send us a picture of you and your DX shack? If you'd like to see yourself in the pages of a future issue of COMMUNICATIONS WORLD, send us a snapshot—any clear photograph will do—of you at your SWLing rig. Tell us a bit about yourself, your listening experiences and what you enjoy most about our hobby. Be sure to identify all the equipment shown in the photo. Other readers like to know about your receiver and associated gear. Sorry, we cannot return photographs.

guiding the radio signal along its surface. But the earth also absorbs some of the signal as it travels outbound from the antenna. Therefore, before too long the signal remaining is too weak to be intelligible. This groundwave range may be a few score miles or a few hundred, depending on the station's power and the terrain over which the signal travels.

A third method of propagation involves *scattered reflection* back to earth from atmospheric

NORTH AMERICAN MEDIUM WAVE FREQUENCIES

<u>kHz</u>	<u>CLASSIFICATION</u>	<u>kHz</u>	<u>CLASSIFICATION</u>	<u>kHz</u>	<u>CLASSIFICATION</u>
540	Clear (Canada)	900	Clear (Mexico)	1260	Regional
550	Regional	910	Regional	1270	Regional
560	Regional	920	Regional	1280	Regional
570	Regional	930	Regional	1290	Regional
580	Regional	940	Clear (Mexico, Canada)	1300	Regional
590	Regional	950	Regional	1310	Regional
600	Regional	960	Regional	1320	Regional
610	Regional	970	Regional	1330	Regional
620	Regional	980	Regional	1340	Local
630	Regional	990	Clear (Canada)	1350	Regional
640	Clear	1000	Clear (US, Mexico)	1360	Regional
650	Clear	1010	Clear (Canada, Cuba)	1370	Regional
660	Clear	1020	Clear	1380	Regional
670	Clear	1030	Clear	1390	Regional
680	Clear	1040	Clear	1400	Local
690	Clear	1050	Clear	1410	Regional
700	Clear	1060	Clear (US, Mexico)	1420	Regional
710	Clear	1070	Clear (US, Canada)	1430	Regional
720	Clear	1080	Clear	1440	Regional
730	Clear (Mexico)	1090	Clear (US, Mexico)	1450	Local
740	Clear (Mexico)	1100	Clear	1460	Regional
750	Clear	1110	Clear	1470	Regional
760	Clear	1120	Clear	1480	Regional
770	Clear	1130	Clear (US, Canada)	1490	Local
780	Clear	1140	Clear (US, Mexico)	1500	Clear
790	Regional	1150	Regional	1510	Clear
800	Clear (Mexico)	1160	Clear	1520	Clear
810	Clear	1170	Clear	1530	Clear
820	Clear	1180	Clear	1540	Clear (Bahamas)
830	Clear	1190	Clear (US, Mexico)	1550	Clear
840	Clear	1200	Clear	1560	Clear (Cuba)
850	Clear	1210	Clear	1570	Clear (Mexico)
860	Clear (Canada)	1220	Clear (Mexico)	1580	Clear (Canada)
870	Clear	1230	Local	1590	Regional
880	Clear	1240	Local	1600	Regional
890	Clear	1250	Regional		

layers in the troposphere. This, however, is a high frequency phenomenon and is not important at medium wave frequencies.

Most BCB reception during the daylight hours is dependent on line-of-sight and ground-wave propagation. And, in fact, if it weren't for the fourth type of propagation, we'd never receive any distant signals on medium or short-wave. This fourth phenomenon is called *ionospheric* or sky wave propagation. The ionosphere is a region of gasses circling the earth in several bands. Solar radiation bombards these gaseous layers causing changes in their densities.

As radio waves travel outward from the antenna they pass through the atmosphere into the ionosphere where they encounter these layers of ionized gas. Under optimum conditions the layers change the direction of the path of the radio signals. This is called refraction, but to simplify things, let's consider it reflection. In short, the layers act as giant mirrors, bouncing back to earth the radio signals which otherwise would be lost forever in space. It is easy to see why DXers call this phenomenon *skip*; the signal skips back to earth a considerable distance from its point of origin. Thus, long distance reception is possible.

Most sky wave propagation is the result of signal reflection from two layers, the "E" region, some 60 to 80 miles up, and especially the "F" layer, perhaps 200 miles high at night. Why don't these layers bring distant medium wave reception during the daytime? The villain is yet another ionospheric layer, tagged the "D" region. This is located at a height of about 50 miles. Unlike the higher layers, the "D" has a dampening effect on radio signals. It tends to absorb, rather than reflect the medium wave signals. They cannot pass through it either and so cannot reach the reflective layers above. The D region is a creature of daylight and as soon

as darkness falls, the layer vanishes until the next dawn. Then, and only then, can the F and to a lesser extent, the E layers do their mirror thing.

So we have the first basic rule of BCB DX-ing. Except for the local stations and relatively close but powerful broadcasters, reception on the medium waves is a nighttime business. Thus the importance of the day-night cycle to the BCB listener.

A second cycle to be considered is the seasonal one, the annual cycle. As we've seen, solar radiation stirs up the ol' D layer. In winter, the hours of daylight are shorter, hence less radiation hits the "D." The absorbing qualities of the layer hamper MW DXing for fewer hours. Also, electrical storms in the atmosphere are less frequent during the colder months, which means less static to mar reception. The second rule then is that winter is generally better than summer for reception.

There is yet another cyclical pattern to consider. The violent flareups on the sun's surface, sunspots, are more numerous at some times than they are at others. The rise and fall in the sunspot count fluctuates over about an 11 year cycle. There is less solar radiation during periods of low sunspot activity. After reaching its high point a few years back, we're now in the trough of the present cycle and for a few more years can expect improved medium wave conditions.

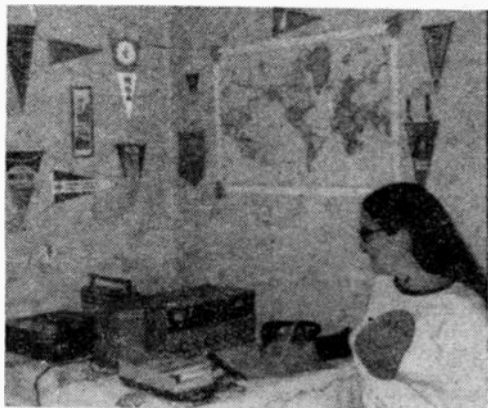
OK, put 'em all together and you've got this picture: One of the best times to DX for the medium wave BCB stations is a winter night during the low point in the sunspot cycle—in other words, just about *now!* So what are you waiting for? Start listening!

Special Tuning Times. Rise and shine, sleeping beauty! If you want to hunt for some real BCB DX, you've got to be willing to lose a few hours of shuteye—once a week that is.

Many broadcasters in North America make use of the wee hours on Monday mornings for their equipment tests and maintenance. These usually are the 24-hour-a-day outlets that DXers term NSPs, that is, "no silent period." But no piece of gear, a radio station's transmitter not excepted, can run continuously without some maintenance. So these theoretically non-stop broadcasters pull the big switch and go silent for a few hours early on Monday, often from about local midnight or 1 a.m. to 4 or 5 a.m.

What's so great about stations signing off?

"Girls read Communications World too!" notes Glenda McCarty, Chanute KA, in her recent letter. Great, Glenda! And we wish more of them would send in their photos to add a little class to CW. Her receiver is a DX150A and her favorite SWBC stations are Radio Nederland, Radio Australia, Radio Canada Int'l. and South Africa's Radio RSA.



Well, remember that often these are the major stations that normally block their own frequencies solidly. On those occasions when they are off, the channels become clear of the worst interference for a few hours, giving the DXer an opportunity to listen for the weaker and more distant stations that share the frequency but are usually blocked out.

Also, the various DX clubs regularly arrange special programs during these Monday hours. As we've mentioned, some stations are required by the conditions of their license from the FCC to operate during daylight hours only. But some make frequency checks during these morning hours. Still others may not normally broadcast in the wee hours, but when contacted by the clubs may schedule special one-time courtesy programs especially for DXers, thus giving hobbyists a chance to hear otherwise "impossible" stations. All in all, you'll find it worth your while to do at least some Monday morning BCB DXing.

An essential for the domestic medium wave DXer is a good log of stations that are on the air. But, DX fans, you've already got one in White's Radio Log, which comprises the last half of the magazine you're reading.

About White's Log. The Spring-Summer 1974 issue of White's Log in this COMMUNICATIONS WORLD marks the golden anniversary of this listing of radio stations. It was back in 1924 that Charles De Witt White, a Providence, RI, publisher brought out his first call book. It was called the *Rhode Island Radio Call Book*. It was followed shortly by *White's Triple List of Radio Broadcasting Stations*. Incidentally, this triple entry log format, separate listings of medium wave stations arranged by frequency, alphabetically by city location and by call letters has been retained to the present.

It was in 1927 that the two publications were merged and were first distributed on a nationwide basis. In later years there were other White's radio publications, including a list of *Sponsored Radio Programs*, *Short-Wave Guide*, and a call book of Canadian stations. In several years during the '20s and '30s, White's was sponsored by various manufacturers as an advertising gimmick. One year it was a shoe company, Enna Jettick, that backed the publication; in the late '30's it was General Electric.

The sales of White's well-known log book grew and reached the million-copy mark. Into the 1950s, White's Radio Log, with its stark black and white cover, appeared quarterly on newsstands across America. In April, 1957, shortly after completing the list of his latest call book, Charles De Witt White, then 76 years old, died.

A short time later, Mrs. W.R. Washburn, his daughter, sold the rights to White's log to the present publisher. Today, Davis Publications, Inc., continues the work begun by White a half century ago. In various formats the log appeared in Davis publications, first the late

LOG ALL STATES ON MEDIUM WAVE

Tuning all 50 States on the broadcast band is tough but possible even in these days of crowded band conditions. These stations may be your best bets.

KHz	CALL	CITY	STATE
550	KFYR	Bismarck	North Dakota
560	WQAM	Miami	Florida
570	WNAX	Yankton	South Dakota
620	KTAR	Phoenix	Arizona
630	KOH	Reno	Nevada
630	WPRO	Providence	Rhode Island
650	WSM	Nashville	Tennessee
650	KORL	Honolulu	Hawaii
700	WLW	Cincinnati	Ohio
750	KFQD	Anchorage	Alaska
750	WSB	Atlanta	Georgia
760	WJR	Detroit	Michigan
770	KOB	Albuquerque	New Mexico
770	WABC	New York City	New York
830	WCCO	Minneapolis	Minnesota
840	WHAS	Louisville	Kentucky
850	WYDE	Birmingham	Alabama
850	KOA	Denver	Colorado
870	WWL	New Orleans	Louisiana
890	WLS	Chicago	Illinois
950	WPAT	Paterson	New Jersey
970	WCSH	Portland	Maine
1000	WHWB	Rutland	Vermont
1020	KDKA	Pittsburgh	Pennsylvania
1030	WBZ	Boston	Massachusetts
1040	WHO	Des Moines	Iowa
1070	WKOW	Madison	Wisconsin
1080	WTIC	Hartford	Connecticut
1090	WBAL	Baltimore	Maryland
1090	KAAY	Little Rock	Arkansas
1110	KFAB	Omaha	Nebraska
1110	WBT	Charlotte	North Carolina
1120	KMOX	St. Louis	Missouri
1140	KGEM	Boise	Idaho
1140	WRVA	Richmond	Virginia
1160	KSL	Salt Lake City	Utah
1170	WVVA	Wheeling	West Virginia
1190	KEX	Portland	Oregon
1190	WOWO	Fort Wayne	Indiana
1200	WOAI	San Antonio	Texas
1250	WREN	Topeka	Kansas
1290	WKNE	Keene	New Hampshire
1370	KXLF	Butte	Montana
1390	WCSC	Charleston	South Carolina
1410	WDOV	Dover	Delaware
1410	KWYO	Sheridan	Wyoming
1510	KGA	Spokane	Washington
1520	KOMA	Oklahoma City	Oklahoma
1530	KFBK	Sacramento	California
1550	WOKJ	Jackson	Mississippi

Radio-TV Experimenter, then *Science and Electronics*, and since 1971, in *COMMUNICATIONS WORLD*.

In today's White's Radio Log you'll find a wealth of information: U.S. AM radio stations by frequency, location and call letters, U.S. FM stations by states and call letters, U.S. TV stations by states, Canadian AM stations by fre-

quency, location and call letters, Canadian FM stations by location, Canadian TV stations by cities, and our popular list of World-Wide Shortwave Stations!

Another thing no serious medium wave listener should be without is a membership in one of the two fine DX hobby clubs specializing in coverage of BCB activities. The old-timer of the pair is the National Radio Club, which dates back to the early days of DXing in the 1930s. It has a solid record of publishing information-packed bulletins, attractively printed by the off-set method. Its bulletin, *DX News*, is issued some 32 times a year, weekly during the winter DX season. There is material for the beginning listener and more advanced technical topics for the DXer with a few years of experience under his belt. It is an excellent club for the hobbyist with an interest in trying for the rare trans-Atlantic stations as well as domestic DX outlets.

The second BCB specialty club is known as the International Radio Club of America. It publishes 34 bulletins a year for its members. It too provides fine coverage of what's being heard by others, not only the North American and Latin American broadcasters, but also the Asian and Pacific area stations logged by western listeners. The cost of membership varies depending on which club you join—many belong to both—and whether you want your bulletins sent via first or third class mail.

The publishing headquarters of both clubs changed recently and as of this writing we do not have the new official addresses to which you can write for more information. But letters addressed to the publishers, in NRC's case, R.J. Edmunds, Box 946, Wayne, NJ 07470, in the case of IRCA, Father Jack Pejza, 3266 Nutmeg Street, San Diego, CA 92104, should get you what you want to know. For keeping current on the fast changing BCB scene, for learning

what others are hearing and how you can hear these stations too, we can't stress too much the importance of membership in a DX club!

The Pros Tell How. Two top American BCB listeners, (also officials of the National Radio club) are Russ J. Edmunds and Page Taylor. One example of the sort of useful data you can find in the hobby club bulletins is a series of tips for beginning DXers written by these experienced listeners in the pages of the NRC bulletin. Though they've been in the hobby for some years, Edmunds and Taylor recognize that the beginner may feel overwhelmed at first by the quantity and quality of the BCB loggings reported in the club bulletins.

But, they point out, it is realistically possible for the new DXer to log 500 different domestic broadcasters in his first year. And they say this can be done even though the listener is fairly young, hence may not be able to stay up until the wee hours of the morning; has other pressing family responsibilities; or is using average-quality receiving equipment.

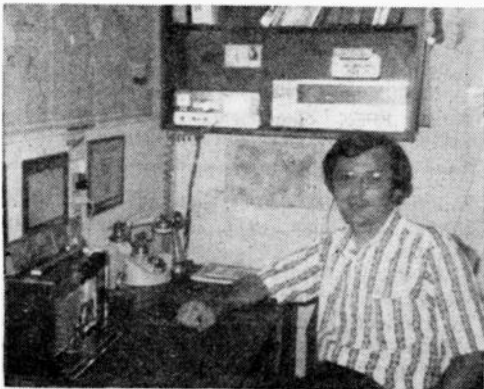
Regardless of where you live, they note, there should be a nucleus of 100 to 150 stations which you will come to consider regulars, including local outlets, semi-locals and a number of the 50,000-watt clear channel stations. Having logged these stations, the newcomer should hunt for the "stations behind the stations." In many instances there will be several dominant stations on many of the regional frequencies. With slightly different propagation during only average reception conditions, each may be audible on different dates. In as little as a month, with these targets alone, it is possible to reach the 200 to 250 station mark, Edmunds and Taylor state.

You may be able to add yet another hundred stations by hunting through the half dozen Graveyard frequencies for the local stations. With conditions of reception varying greatly, even from night to night, without too much trouble and only a little luck, you can add up to ten new stations on each of the six local frequencies in a short period of time.

Noting that concentration on the regional channels may produce similar results, the NRC DXers maintain you should shortly reach the 300 station plateau.

The next two hundred stations logged will be a bit harder, but you will have gained some knowledge of the band and medium wave DXing in general as you've progressed. You will be aware of sign-off times for some of the usual channel blockers. Check these frequencies

North Augusta SC is the home of DXer Ron Fox, who has been tuning shortwave since 1956. Ron usually monitors the ham bands, but he also enjoys general listening on SWBC and the BCB bands. This 31-year-old ex-Navy radioman listens with a Realistic DX150A and a Zenith Trans-Oceanic portable.



just after the dominant stations sign off for stations now audible. You also will have learned something of the seasonal DXing factors that apply to your area.

Edmunds and Taylor state, "It is an often-observed fact that New England is received in the Middle Atlantic States much more readily in the late Spring and early Summer than at any other time, while good East-West openings appear most frequently in early November and through much of February."

Experienced DXers say that the 500-station goal for the first year in the hobby is only a rough average figure. Some manage to hear many more stations on BCB.

Another goal for many BCBers is tuning stations in all 50 of the United States. This is tough these days and many long-time DXers haven't managed it yet. You'll probably manage 40 or so by the time you've hit the 500 station mark, but then the going gets mighty sticky.

Which ones will prove your hardest will vary, depending on where you live and which frequencies are normally blocked for you by local or area stations. We'll bet a cookie that our coldest state, Alaska, will be one of the last ones you get in your 50-state quest. Hawaii, surprisingly enough, probably won't be so hard, even if you live east of the Mississippi.

Foreign BCB. There is a tremendous attraction about listening for foreign medium wave stations. Most listeners find this aspect fascinating, probably because at first the idea of hearing something other than American stations on the AM band is a real novelty.

As we suggested earlier, your first foreign stations, other than the Canadians, if you're a U.S. resident (or a Stateside station for a Canadian), may well be located in Mexico or Cuba. It may be Spanish signals from a powerful outlet like Havana's CMQ on 640 kHz. Or you may think you've tuned a home-grown broadcaster only to find that it's really XETRA, which is located at Tijuana, Mexico, but broadcasts in English to Southern California. Another easily heard Mexican outlet is XERF, Ciudad Acuna, just over the border, a bi-lingual English-Spanish station running 250 kilowatts on 1570.

Commonly logged Spanish-speaking Mexican stations include another one operating with 250 kw., Mexico City's XEW on 900. Or you may find signals from the likes of XEWA, 540, San Luis Potosi; XEX, 730, Mexico City; XEG, 1050, Monterrey; XERCN, 1110, Mexico City; or XEB, 1220, Mexico City.

And there are other stations in the western hemisphere that you should be able to add to your log. One of the best in Central America—and in English to boot—is Radio Belize in British Honduras. It broadcasts on 834 kHz, one of those split frequencies we've mentioned. If you don't get too much splatter from strong stations on 830 and 840 kHz, you may be able

MAJOR BCB STATIONS IN CUBA

kH _Z	CITY	STATION (Network)
550	Pinar del Rio	R. Rebelde
570	Santa Clara	R. Rebelde
590	Havana	R. Rebelde
600	San German	R. Rebelde
630	Santa Clara	R. Liberacion
640	Havana	R. Liberacion
650	Santiago de Cuba	R. Liberacion
660	Santa Clara	R.' Progreso
670	Pinar del Rio	R.' Progreso
690	Havana	R.' Progreso
720	Colon	R. Rebelde
740	Camaguey	R. Liberacion
760	Havana	Reloj Nacional
780	Camaguey	R. Rebelde
830	Havana	R. Cordon
870	Guantanamo	R. Rebelde
950	Havana	R. Musical
1010	Holgulin	R. Revolucion
1060	Havana	R. Enciclopedia
1220	Perico	R. Veintiseis
1290	Guantanamo	R. CMKS
1390	Bayamo	R. Bayamo
1460	Marianao	R. Marianao
1520	Victoria	R. Victoria

to hear this one operating in the "notch." Best time to try would be from local darkness at your location to 0400 GMT.

The most widely logged station in the Caribbean is, without a doubt, the 500-count 'em, 500-kilowatt PJB, Trans World Radio, 800 kHz, on the island of Bonaire in the Netherlands Antilles. This one is so powerful that it has been heard, at one time or another, in virtually all of the continental United States. Unless you have a powerful local station on a nearby frequency, you should hear it too. Trans World Radio is a religious broadcaster and its programs are in Spanish and English during the evening hours. If you are an SWL, you probably will find a shortwave frequency operating in parallel (with the same program) now and again.

Some months ago another Caribbean station, the "Mighty Z," ZBVI, on Tortola in the British West Indies, was a likely BCB catch. It programs music, particularly soul music, six days a week. On Sunday it is easy listening time. Now, though, with Chicago's WBBM operating non-stop on the same 780 kHz frequency, ZBVI is a considerably tougher catch despite its healthy 10 kw of power.

Much easier logging is a rather new station, Radio Paradise, on the island of St. Kitts, which is widely heard during the evening hours on 1265 kHz. This one has a religious orientation.

On the Dutch isle of Saint Maarten there's another station worth your tuning efforts. It is PJD2 and it transmits on yet another split frequency, 1295 kHz.

Further south in the Caribbean island chain

you may log Barbados, which broadcasts on 900 kHz. It is rather hard to hear during the evening hours, but try this one at sign-on time, 0930 GMT.

There are eight different BCBers operating from Jamaica, four each by two separate broadcasting organizations. The Jamaica Broadcasting Corporation uses 560, 620, 700 and 720 kHz; the rival Radio Jamaica Redifusion has stations on 550, 580, 720 and 770 kHz. Programs from both networks are in English.

In Central America, most stations are exclusively Spanish speaking, but a couple to try for are El Salvador's YSS on 655 kHz; Radio Libertad, HOL80, in Panama on 840 kHz; and the widely reported "Estacion Equis"—Station X—YNX in Nicaragua, on 750 kHz.

On the South American continent, most of your receptions will be from the goodly number of outlets in Venezuela and, especially, Colombia. Good Colombian bets include La Voz de Antiquia in Medellin, HJDK, on 750 kHz, late evenings, and HJAI, Radio Tropical, 1040 kHz, Barranquilla. Experienced Latin lovers of DX also report reception of stations in the Andean region, Ecuador and Peru, plus some Brazilian outlets. One of the harder-to-hear countries to the south is Paraguay. But this isn't novice fare!

Language Gap. This is as good a time as any to mention the language problem that all DXers face when they begin tuning for foreign stations, whether on medium or shortwave. "How can I identify stations when I know only English?" is a common question from newer DXers. And it is a problem, but one that can be solved with a little effort.

First, you're not alone in your mono-language situation. The vast majority of listeners know only English, a small group may know an additional language or two—high school Spanish or Polish learned at home as a child—and only a scattered handful of DXers could

be classified as genuine linguists. But it isn't too hard to pick up a couple of tricks that will allow you to get by. The BCB listener has it a bit easier than his shortwave listening brother. Most stations the medium waver will hear broadcast, if not in English, in just a few languages, mostly Spanish, French, Portuguese, and perhaps German. To be sure, later you may hear Arabic speakers from North Africa and some of the less common Europeans, but initially this won't be a problem. West Coasters will come across a few of the Asian languages, mainly Chinese, Japanese and Korean.

Lest the prospect of learning even this minimum group of languages panic you, let's quickly point out that it is not necessary to be fluent in any of them. If you can merely recognize the language when you hear it spoken, and know a few key words in each, you'll be well on your way. Here's one tip: listen to the Voice of America. Most DXers have access to some type of a shortwave receiver, even if they are dyed-in-the-wool MW DXers. Nothing fancy is needed, even a small transistor portable that tunes a portion of the SW bands will do to pick up the powerful signals of VOA's station at Greenville, North Carolina. Regularly listen to the VOA. The voice of good ol' Uncle Sugar broadcasts daily in scores of different languages. Prior to each program the language to be used in that broadcast is announced in English.

Listen to these broadcasts, not for content, since it will all be "Greek" to you, but simply to get a feel for the sound of that language when spoken. Tape some of the broadcasts for further study and later reference, if you wish. Shortly you'll find you can place many of the languages heard into rough categories, depending how they sound to you. There are soft, musical languages, French and Italian, for instance. Then there are others that are harsh and guttural, such as Dutch, German and the Afrikaans of South Africa. Spanish and Portuguese sound somewhat similar. There are the Asian tonal languages, like Chinese, a sing-songy sound that is easier to recognize than describe. With these basic groupings well fixed in your mind, you'll find foreign languages—despite what you may now think—don't all sound alike. There's no way you can mistake French for Chinese, Spanish for German.

The next trick is to learn a few basic key words frequently used in station identifications. Our Key Word Chart should start you off, but you will no doubt add others to your DX vocabulary as you go along. With the Spanish

Who knows what mysteries lurk in the broadcasting bands? The Shadow knows! And so does Dino DiVincenzo, who owns both the shadow and the setup of Dxing equipment shown in this picture. Fifteen-year-old Dino, from Edmonds WA, has been DXing for four years and his favorite QSL is from HRVC in Honduras.



This unique transmitting antenna—completely rotatable towers mounted on rails—was the pride and joy of PCJ, the predecessor of Radio Nederland in the 1930's and '40's. It allowed the Dutch station to beam its programs to any part of the world. Today, of course, better methods are available, and where the old PCJ towers once stood apartment houses now stand.

stations of the western hemisphere, many identify with a slogan, rather than call letters. Identifications often begin "Aqui" (here is . . .), pronounced "ah-key"; or "Este es . . ." (this is . . .), pronounced "ES-tay ess." Others start, simply, "Transmite . . ." (transmitting . . .) and pronounced "trahns-ME-tay." The slogan—La Voz de America Latina, for example—follows . . . "lah bahz day ah-merica lah-teen-ah."

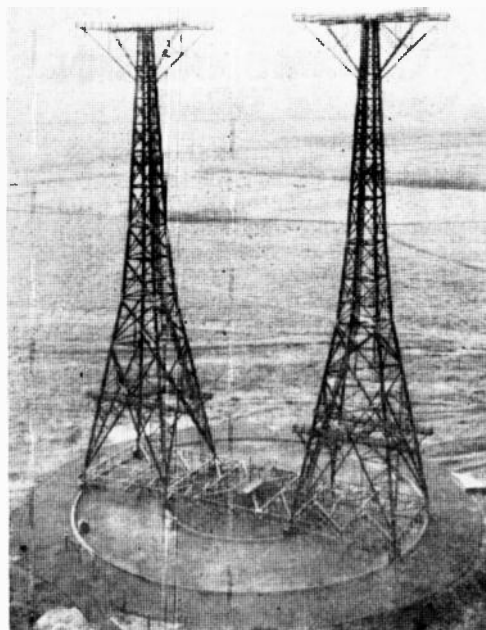
Some Latin stations, particularly the Mexicans, do use call letters, either in place of or in addition to the slogan. Therefore it is useful to learn the sounds of the Spanish alphabet. The CW chart should help phonetically. As with the U.S. and Canadian stations, the best time to catch a foreign station identifying is on the hour. Then perk up your ears and use the key word technique for picking the ID out of the otherwise jumble of language.

Across The Pond. Are you ready to tackle the TA, trans-atlantic, stations? As we've said, they won't be easy, but why not give it a try? Eventually you may succeed and—thrill of thrills—your first TA!

First, though, a few tips from three National Radio Club experts, Edmunds, Taylor and technical whiz, Gordon P. Nelson. There are certain patterns in TA reception. For one thing, reception is more likely in winter than summer. And, even in winter, reception tends to run in patterns, a period of poor overseas reception followed by several days of favorable conditions. Obviously, should you hit a good night, it is worthwhile to check again the next night and for several nights in a row for a possible repeat performance.

If you live close to the eastern seaboard of North America, tune in about local dusk, when as we explained earlier, MW reception distances really begin to stretch out. Since the signals need a path of darkness over the long haul, the reason for this is easily seen—the signal route is in darkness all across the Atlantic, but stations to the west, where it is still light, haven't begun to fade in.

Inland, to midcontinent, perhaps, a better time to tune the TAs is late at night, say 0600 GMT or so. You may then hear the all-night Europeans, plus those just signing on with their morning transmissions. Tune very, very, very slowly, concentrating on the split frequencies between the domestic channels. Listen too for heterodynes, those whistles caused by one station's signal mixing with another. When the



signals are close, as, say a split channel European is to a U.S. station, but not identical in frequency, these heterodynes can be heard. They can be a tip-off that at least some signal is arriving from a station not on the normal U.S. channel and that the situation bears further watching and waiting.

These signals often are subject to deep, slow fades. You may find audible signals for a few seconds or minutes, only to have the signal fade to nothingness. Don't panic, though, wait around for several minutes and it may fade back in.

How do you know where to tune? In other words, is there a good log book of foreign BCB stations? There are three publications we'd particularly recommend. The first is World Radio TV Handbook, an annual published in Denmark, which is an essential tool for all medium wave and shortwave listeners. It is a station list, yes, but also includes a wealth of other data on stations around the world, their addresses, leading personalities, schedules, identifications, powers and interval (or identity) signals.

SOUTH AMERICAN COUNTDOWN

<u>Numeral</u>	<u>Spanish</u>	<u>Portuguese</u>
1	oo-no	oong
2	dohs	doyss
3	tress	trays
4	kwa-troh	kwa-troo
5	sing-koh	sing-koo
6	seh-ees	sayss
7	syeh-teh	sat-chee
8	oh-choh	oy-ton
9	nweh-beh	naw-vee
10	dyess	dahss

The 1974 issue of WRTH should be available just about the time you read this. You may find copies in some of the larger radio parts or ham gear stores, but more likely you'll have to order by mail. One source in the U.S. is Gilfer Associates, Inc., P.O. Box 239, Park Ridge, NJ 07656. You may wish to write Gilfer concerning availability and price.

The second useful publication for BCBers interested in foreign DX is IRCA's Foreign Log, published by International Radio Club of America. It lists all stations actually heard by members of that medium wave club during an entire season, with dates, times and valuable program details to help you ID those broadcasters. It has an alphabetical listing of Latin and Pacific area stations by call letters. In addition there are interesting feature articles on how to DX foreign stations.

Another book for medium wave listeners, but equally useful to shortwave fans, is the just released 17th edition of the GUIDE TO BROADCASTING STATIONS, published by the British magazine, WIRELESS WORLD. It lists thousands of stations, including European long and medium wave broadcasters from 151 to 1612 kHz, and shortwave broadcasting stations in the frequency range from 2500 to past 26000 kHz. It also is available from Gilfer Associates for \$2.50.

Now here are some of the best bets for logging European stations on the medium waves.

Portugal. There are a number of possible catches from this Iberian peninsula country. Radio Clube Portugues at Miramar, on 782 kHz, is a likely place to start for many. Other possibilities are Radio Clube Portugues, 1034 kHz, this outlet of the same broadcasting organization located at Lisbon; or Emissora Nacional, the government station in Lisbon on 665 kHz. The latter operates day and night.

West Germany. The most likely logging will be the monster station—some 800 kilowatts of

power—of Westdeutscher Rundfunk. The transmitter is located at Langenberg and broadcasts on 1586 kHz, very high on the BCB band, and the best time to try is very late at night, say after 0500 GMT. Or there is the VOA relay at Munich on 1196 kHz.

France. Two good bets in La Belle France, both, like all French stations, operated by ORTF, l'Office de Radiodiffusion-Télévision Française. One worth trying is the outlet at Nice on 1554 kHz, the other at Bordeaux on 1205 kHz. We've found Bordeaux the easier, but who knows? Try after 0430 GMT.

Great Britain. Here we have a couple of British Broadcasting Corporation (BBC) operations to suggest. One is 1214 kHz. This is a synchronized programming channel, which means, simply, that stations in several parts of the British Isles use the same frequency for broadcasting the same program. It is, therefore, virtually impossible to determine the exact transmitter location of the signal you're hearing. In fact, what you may be receiving is a mixture—though the same program to be sure—of signals from several of the synchronized stations. Easier, perhaps, is BBC Crowborough on 1295 kHz, which rebroadcasts the BBC's program to Europe in a number of European languages.

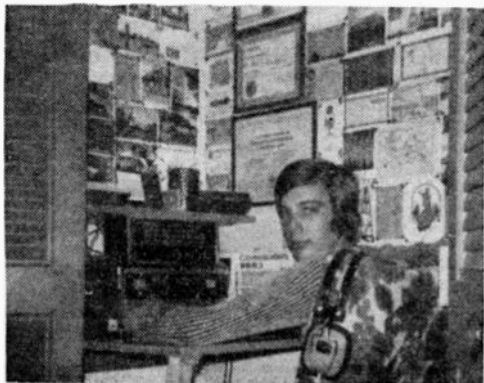
Italy. You're best opportunity for Italian DX is the 24-hour-a-day station in Rome. It belongs to RAI, the Italian government radio network. The station broadcasts on 845 kHz and four languages are used, including some English.

Spain. Three split frequencies offer targets for this southern European country. Try any of this trio of stations operated by the government, Radio Nacional de Espana. There is Seville, 683 kHz, Barcelona, 737 kHz, and Madrid, 584 kHz.

Monaco. A tiny country but not an extreme toughie, as TA DX goes, is Monaco. Radio Monte Carlo broadcasts on 1466 kHz and a good time to try is, again, the very late evening.

Luxembourg. Another small nation with a socko-power station is Radio Luxembourg. This is Europe's original commercial station. It broadcasts in English much of the time and programming may well remind you of State-side formats. The frequency to try is 1439 kHz.

Other Continents On MW. As a group, African stations are much harder to log on medium wave than the Europeans. But there are a couple that are reasonably good targets for the



90 countries and 32 states, that's the tally of Bruce Gladstone, Elk Grove Village IL. Bruce has been DXing for about two years and uses a Hallicrafters S-125 and a Realistic DX150A for receivers. A member of the Canadian International DX Club, he also belongs to an informal group of Windy City listeners known as the CAD-GUYS . . . that's C-A-D, as in Chicago Area DXers.

Here's the home of Auntie BBC. This is Broadcasting House in London, where the programs of the British Broadcasting Corporation originate.

DXer who has heard one or two of the Europeans.

Senegal. After 0600 GMT, tune to 764 kHz, and if conditions are right you may hear some weird chanting in Arabic. This the tip-off that you've logged the medium wave operation at Dakar, on the west coast of Africa. Even DXers on the west coast of North America can hear this one at times, which is really long haul BCB reception.

Sierra Leone. The station at Freetown, operating on 1205 kHz, is one that is heard nearly as often as Senegal.

Libya. The one to try tuning in this North African country is the 1,000 kilowatt, yes, a cool million, broadcasters at Al Beyda. Its frequency is 1124 kHz, and programming features a lot of that Arabic chanting.

For those in the western part of the country, most of these will be especially hard to log. You should set your sights on trans-Pacific broadcasters. Hawaii may well be your first target area as there are several stations, such as KORL, Honolulu, 650 kHz, reported by our California readers. A nice Australian catch is 1550 kHz, 4QD, Emerald, Queensland, and you should be hearing some Japanese, Mainland Chinese and North Korean outlets on several frequencies as well, when you get some



DXing experience.

One final word on foreign BCB listening, and that deals with antennas. Many of the stations mentioned can be heard simply with a long wire antenna. A directional loop antenna, however, can be a great help by allowing you

LOCAL TIME VS. GREENWICH TIME

Greenwich Mean Time	EDT	EST or CDT	CST or MDT	MST or PDT	PST
0000	8 p.m.	7 p.m.	6 p.m.	5 p.m.	4 p.m.
0100	9 p.m.	8 p.m.	7 p.m.	6 p.m.	5 p.m.
0200	10 p.m.	9 p.m.	8 p.m.	7 p.m.	6 p.m.
0300	11 p.m.	10 p.m.	9 p.m.	8 p.m.	7 p.m.
0400	Midnight	11 p.m.	10 p.m.	9 p.m.	8 p.m.
0500	1 a.m.	Midnight	11 p.m.	10 p.m.	9 p.m.
0600	2 a.m.	1 a.m.	Midnight	11 p.m.	10 p.m.
0700	3 a.m.	2 a.m.	1 a.m.	Midnight	11 p.m.
0800	4 a.m.	3 a.m.	2 a.m.	1 a.m.	Midnight
0900	5 a.m.	4 a.m.	3 a.m.	2 a.m.	1 a.m.
1000	6 a.m.	5 a.m.	4 a.m.	3 a.m.	2 a.m.
1100	7 a.m.	6 a.m.	5 a.m.	4 a.m.	3 a.m.
1200	8 a.m.	7 a.m.	6 a.m.	5 a.m.	4 a.m.
1300	9 a.m.	8 a.m.	7 a.m.	6 a.m.	5 a.m.
1400	10 a.m.	9 a.m.	8 a.m.	7 a.m.	6 a.m.
1500	11 a.m.	10 a.m.	9 a.m.	8 a.m.	7 a.m.
1600	Noon	11 a.m.	10 a.m.	9 a.m.	8 a.m.
1700	1 p.m.	Noon	11 a.m.	10 a.m.	9 a.m.
1800	2 p.m.	1 p.m.	Noon	11 a.m.	10 a.m.
1900	3 p.m.	2 p.m.	1 p.m.	Noon	11 a.m.
2000	4 p.m.	3 p.m.	2 p.m.	1 p.m.	Noon
2100	5 p.m.	4 p.m.	3 p.m.	2 p.m.	1 p.m.
2200	6 p.m.	5 p.m.	4 p.m.	3 p.m.	2 p.m.
2300	7 p.m.	6 p.m.	5 p.m.	4 p.m.	3 p.m.

to "null" out objectionable interfering signals from another direction. Both medium wave DX clubs previously mentioned can supply members with detailed plans for constructing their own loop antennas. Now there's another reason for joining up!

Higher Hertz. So far our look at the broadcasting stations of the world has focused on the medium waves, from about 540 to 1600 kHz. Moving higher in the spectrum we come to the shortwaves. Radio physicists define the high frequencies, what we'd call the shortwaves, as the span from 3,000 to 30,000 kilohertz (kHz). Most SWLs are a bit more liberal in their definition, considering stations between 1600 and 30,000 kHz as shortwave DX fare.

Hey, before we go any further, let's pause briefly to clarify the relationship between the various frequency and wave length measuring terms we'll be using. Frequency and wave length are really different ways of expressing the same idea, where you can find certain stations when you tune your receiver. Wave length refers to the length of a particular radio wave, while frequency describes the number of times per second that that wave vibrates.

The formulas for converting one to the other are:

$$\text{Wavelength in meters} = \frac{300,000}{\text{Frequency in kHz}}$$

$$\text{Frequency in kHz} = \frac{300,000}{\text{Wavelength in meters}}$$

In terms of frequency measurement, the basic term used today is Hertz, which means cycles (number of wave "vibrations") per second. In the shortwave range, we are dealing with thousands of Hertz, or kilohertz (kHz). To express the same idea in the older term you would use kilocycles per second (kc/s); it means the same as kHz. In the metric system, as kilo means thousand, mega means million. At the higher SW frequencies, we deal with millions of cycles

per second, hence megahertz (MHz), or megacycles per second (Mc/s) as it was once called. Here's an example that may help. The U.S. government standard time and frequency station at Boulder, Colorado, uses a shortwave frequency of 10,000 kHz, as one of its outlets. This frequency of 10,000 kHz, can be expressed, equally correctly, as, 10,000 kc/s, 10 MHz, or 10 Mc/s. The wavelength equivalent? Using the formula, 300,000 divided by 10,000, or 30 meters.

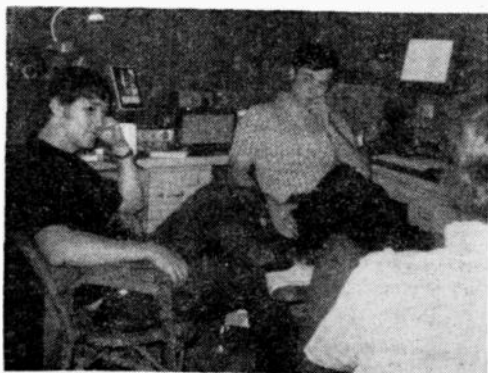
Generally, DXers here usually refer to specific stations by frequency, kHz, kc/s, MHz, or Mc/s, as they individually prefer. CW states frequencies in the now standard kHz and MHz. However, entire shortwave bands are usually referred to in terms of wave length; the 31 meter band, 19 meter band, and so forth. While there is radio action of one sort or another throughout the shortwave range, the broadcast stations, those which air actual programs, are located in a dozen separate bands of frequencies. Each of these shortwave broadcast bands is only a few hundred kilohertz wide. With thousands of stations around the world operating in these bands, it is apparent that each will be loaded with signals, crowding will be the name of the game and mutual interference often a real problem.

Not all broadcasters operate in these SWBC bands. Some, especially the Russians, Chinese, North Vietnamese and Koreans, and some stations in Latin America and other global spots where technical standards are not so high, can be found outside the band limits. In some cases, these deviations from the norms are deliberate; in other instances, faulty equipment and technical know-how are the reason for out-of-band broadcasting. But most of the stations you'll hear will be within the following "Dandy Dozen" SWBC bands.

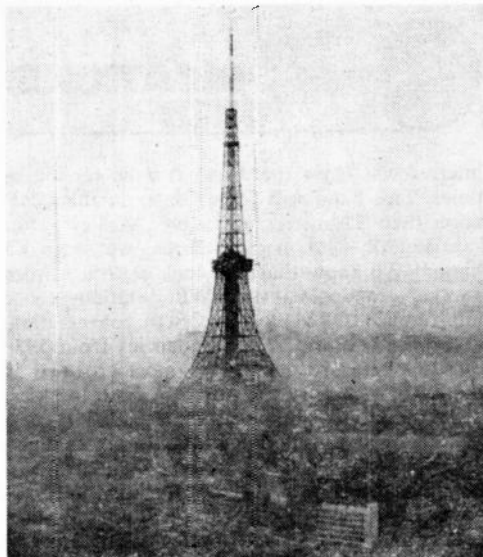
● **11 Meter Band.** This high band includes frequencies from 25600 to 26100 kHz. There are very few stations up in this band these days. Solar eruptions—sunspots, you know—have a definite effect on the high shortwave frequencies. Now that we are approaching a low point in the 11-year sunspot cycle, the upper frequencies are no longer reliable for long distance transmission and most of the stations that were operating here a few years ago have headed to the lower frequencies. A couple of years hence, however, and again there will be SWBC action on 11 meters.

● **13 Meter Band.** Another high band, covering 21450 to 21750 kHz. What can we say? Much of what we noted about 11 meters is true for 13 as well. There are some international broadcasters, the powerful shortwavers whose

A gathering of DXers! Wisconsin listener Gerry Dexter hosts Ralph Perry, Evanston IL, left, and CW's Communications Editor Don Jensen, back to camera, in Dexter's modern and well-equipped DX "shack."



Rising above the Tokyo mists is an Eiffel-like eye of a broadcasting antenna belonging to Nippon Hoso Kyokai, Japan Broadcasting Corporation. The tower is used for TV transmissions.



programs are directed specifically to foreign audiences, still to be found here, but not as many as in, say, 1968, nor as many as there will be again in '78!

● **16 Meter Band.** This SWBC band is located between 17700 and 17900 kHz. To a lesser extent it is like 11 and 13 meters, but still there is DX to be heard on 16 even today. Like the two top bands, in their prime, this is essentially a daylight band. In fact, after the sun sets at your location, you'll find this range of frequencies dies out, signals begin to fade and before long are lost. Then you'll have to tune to a lower frequency band for your SWling activities.

● **19 Meter Band.** This is a good band for daytime DXing these days. The band covers the frequencies from 15100 to 15450 kHz. The band will be open to various parts of the world during daylight, depending on which part of the day you are listening. Mornings and early afternoons you'll find some Latins—Mexico, for example. Afternoons there are some European and Mid-East outlets and, into the early evening, China, Australia, Japan and the like. A few hours after darkness falls at your location the signals will begin to fade away.

● **25 Meter Band.** Twenty-five, the frequencies between 11700 and 11975 kHz, is something of a transition band. On it you will find some daylight DX stations but it also can be a good spot to hunt for signals during the evening hours as well.

At this point, it's time to observe that basically there are two types of shortwave broadcast stations, classified by their intended audiences. The first group contains the so-called international broadcasters. They are specifically seeking listeners outside their home areas, hence they transmit in a variety of foreign languages, including English.

The second group are the local broadcasters. Their programs are intended for home audiences and the shortwave outlets are, more or less, just extensions of their medium wave operations. Often their SW programs are simply

relays of their medium wave station programming.

For the most part, the international broadcasters inhabit the higher shortwave bands. You'll find a few local service-type broadcasters on 25 and 19 meters, but not many. As we head down the dial you'll run across more of the "locals." And the majority of the stations below the 49 meter band will be of the local type.

● **31 Meter Band.** A mix of international broadcasters and some local service stations will be found in the group of frequencies from 9500 to 9775 kHz. The emphasis here is still on these seeking foreign audiences, but there are also such countries represented as Peru, Mexico, Chile, etc., whose programs are aimed at their domestic listeners.

This is a good spot to tune late in the afternoon and through the nighttime hours. Now it is one of the best bands for evening reception in English of the many European broadcasters.

● **41 Meter Band.** This is one of two SWBC bands which is shared with amateur (ham) radio operators. During this point in the sunspot cycle, with most international broadcasters heading for the lower frequencies, "41" is quite active, between about 7100 and 7300 kHz. The

FOREIGN BCB DX'ING—WHEN TO TUNE

<u>Station Location</u>	<u>Eastern North America</u>	<u>Western North America</u>
Central American and Caribbean	Year around, winter best	Year around, winter best
Northern South America	Year around, winter best	Year around, winter best
Southern South America	Spring, summer, fall	Summer
Australia and New Zealand	Spring, fall	Spring
Asia	Fall	Fall, winter
Europe	Fall, winter	Winter
North Africa	Fall, winter	Winter
South Africa	Spring	Unlikely

interference from the hams can be terrific at times. This band will "open" later in the afternoon than 31 meters and close "earlier" after sunrise. All right, ham brethren, we *are* a bit biased! We know that you look at things from another standpoint: the SWBC stations cause interference (QRM) to your QSO's, conversation.

● **49 Meter Band.** The frequencies from 5950 to 6200 kHz are among the most crowded in the SWBC category. It is used by both the local and international broadcasters. It is a darkness band; you won't find much here during daylight, save for maybe a few local-type Canadian outlets. But from dusk to dawn it really comes alive. In the evening there are powerful Europeans and low-wattage Latin American and African stations battling it out for supremacy on their particular frequencies.

● **60 Meter Band.** The frequencies from 4750 to 5060 kHz comprise "Sixty"—one of a small handful of so-called Tropical Bands. Why tropical? Now we're really among the low shortwave frequency local stations. And it seems most of these stations are in the tropical regions of South America, Africa, Asia and Oceania. The band is useful only from a short time before sunset at your location to shortly after sunrise.

From late afternoon to supertime, look for the African outlets. As evening comes, the Spanish and Portuguese speaking stations from south of the border will start to fade in and will hold up until they sign off, which, depending on the station, may be from 0200 to 0700 or later, GMT. About 0300 to 0700 GMT you'll find the Africans beginning to sign on. Around 0800 or 0900 the Latins, especially the Brazilians, will begin to sign on for the day and good reception is possible. Around dawn it is time to check out the Asian and Pacific stations before the propagation changes with coming daylight and 60 again is dead.

● **75 Meter Band.** As with 41 meters, this band

is shared with the hams, 3900-4000 kHz. But there aren't too many SWBCers operating here. Nonetheless, those that do use "75" include some of the top DX around, the Falkland Islands in the far south Atlantic, and Greenland, to name two. As far as characteristics of the band, they are similar to the next range we'll mention.

● **90 Meter Band.** The frequencies from 3200 to 3400 kHz make up another of the Tropical Bands. It comes alive at night, though there aren't as many stations audible here as in the 60 meter band. It is a good place to hunt the Latins, Africans, New Guineans, Asians and—in the dead of winter—the home service stations in the Indian subcontinent, Kashmir, Pakistan and the like.

● **120 Meter Band.** This bottom band, 2300 to 2495 kHz, is the last of the "Tropicals" and the final SWBC range. Activity isn't too great but there are some rarely heard stations that do broadcast here. On many nights you'll be lucky to hear a single station on 120 meters, but when conditions are right, you might bring in a half dozen or more toughies from South America, or, mornings, a difficult New Guinean.

Shortwave And The Receiver. Knowing where to tune for those shortwave broadcast signals is just half the battle. The sticky part is being able to bring them in on your receiver.

Obviously, some of the stations you'll find listed in the White's Radio Log list of Worldwide Shortwave Stations, at the back of this issue of CW, will be easy to hear. These, for the most part, will be powerful international broadcasters, beaming their programs to you and other shortwave listeners around the world. Other stations will be much harder to hear. And so it should be, or else DXing the SWBC frequencies would be no challenge at all. Here at COMMUNICATIONS WORLD we maintain that hearing the real DX broadcasters is the result of about three different factors. The first and most important is your experience in the hobby. As you get a feel for the hobby and learn more and more about what stations are broadcasting at what time, propagation conditions and all the rest of the SWLing ins and outs, you'll find it easier to hear the tough-to-log broadcasters.

A second aspect of DXing, inevitably, is just plain dumb luck—being in the right spot on the dial at the right time to hear an elusive broadcast station just when conditions are right. This adds mystery to the quest and is something of an equalizer, allowing even relatively inexperi-

Busily jotting down notes of the programs he has tuned in is Leonidas "El Chumbiao" Aleman, Weston, Ontario. Leonidas is a member of a local organization called Uruguay Radio Club and, needless to say, Latin American programs are his favorites. "Los saluda un lector de la revista Communications World," he writes. Muchas gracia, Leonidas!



enced listeners to hear stations some of their more experienced DX brethren haven't yet tuned.

The third angle to consider is the DXing equipment you use. A good receiver will help you to hear the DX more consistently. But don't let the price tags on the ultra fancy and sophisticated rigs cause your morale to nosedive. We'll tell you flat out that top quality equipment definitely is *not* the real key to DXing. Plenty of excellent DX catches have been made on mediocre receivers by SWLs who really knew their stuff. As a rule of thumb, our advice is simply, get the best quality receiver that you can afford. If that means \$50, ok. If you've got \$1500 burning a hole in your jeans (have we any readers who fit that description?) then buy a one and a half kilobuck rig.

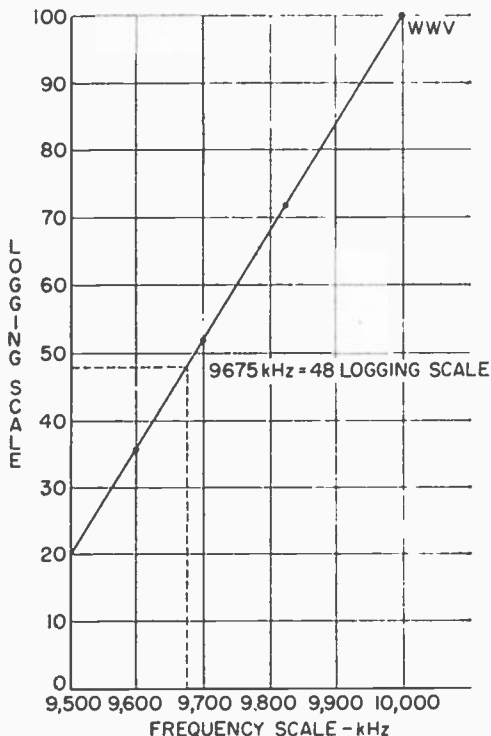
Most SWLs who stick with the hobby for some years become inveterate horsetraders. They will start with a relatively inexpensive communications receiver, use it for a couple of years, getting to know it well and the DX it will deliver. Then they trade up for a better receiver. If there is one failing of the cheaper model sets it is in the area of frequency readout. Frequently we get letters from readers telling us that they want to tune certain stations but that the dial markings on their radios are so vague, so crowded together that they can't tell if they're tuning, say, 9540, 9575, 9650, or in extreme cases they can't even distinguish stations several hundred kHz apart. In short it isn't enough to know, from reading CW, that a station operates on a certain frequency. You have to be able to tune your rig to precisely that spot.

And, gang, we must admit this is well-nigh impossible with the cheaper receivers and, especially, many of the small portable sets. You are just going to have to be content with more or less random hit-or-miss tuning, rather than hunting for specific stations on specific frequencies.

In the price class above \$120 or so, it does become possible to find with a good degree of accuracy, the frequencies you want to tune. In these receivers you get a reasonably good bandspread tuning—call it fine tuning if you will—that will separate the band frequencies enough to allow this. While most are not specifically marked with the frequencies of the shortwave broadcast bands, they do have what is called a logging scale, divisions marked, simply, 1-100.

A technique that will help in frequency pinpointing uses a simple linear graph. On a sheet of graph paper, mark the divisions on one scale from one to one hundred. On the other scale, plot the frequencies included in the particular band you want to tune—one graph for each of the 12 shortwave broadcast bands.

How To Graph. For an example, let's work with the popular 31 meter band. First set your bandspread dial to 100 on the logging scale. And whenever you use this graph in the future, always follow this step. Second, tune the main



tuning until you can hear WWV, the standard time and frequency station on exactly 10,000 kHz. This is the first point to mark on your graph, at the intersection of the coordinate Logging Scale: 100, and Frequency: 10000 kHz. Next tune down the band for other stations. As you come across them and, from their announced frequencies, you'll know where to plot them on your graph, against the appropriate logging scale reading to which you're tuned. Eventually you'll have eight or nine points plotted on your graph. Connect these with a straight line and your graph for that band is completed.

To use the graph, let us suppose you want to find a station on 9675 kHz. Check the graph, find the appropriate logging scale value for that frequency—on our sample graph it is 48—and tune your receiver to that mark on the logging scale. Give or take a few kHz, depending on the accuracy of your plotting, you should be on target. Important! You must always make sure that your key station, in this case WWV, 10,000 kHz, appears at 100 on your logging scale before you start or your graph technique won't be accurate when you seek other stations in the band. You can do the same thing, make graphs, for each of the bands you tune.

Some receivers in the mid-price range have a built in device known as a frequency calibrator. Calibrators are also available as outboard equipment and can be bought separately, either pre-built or in kit form. These gadgets, when

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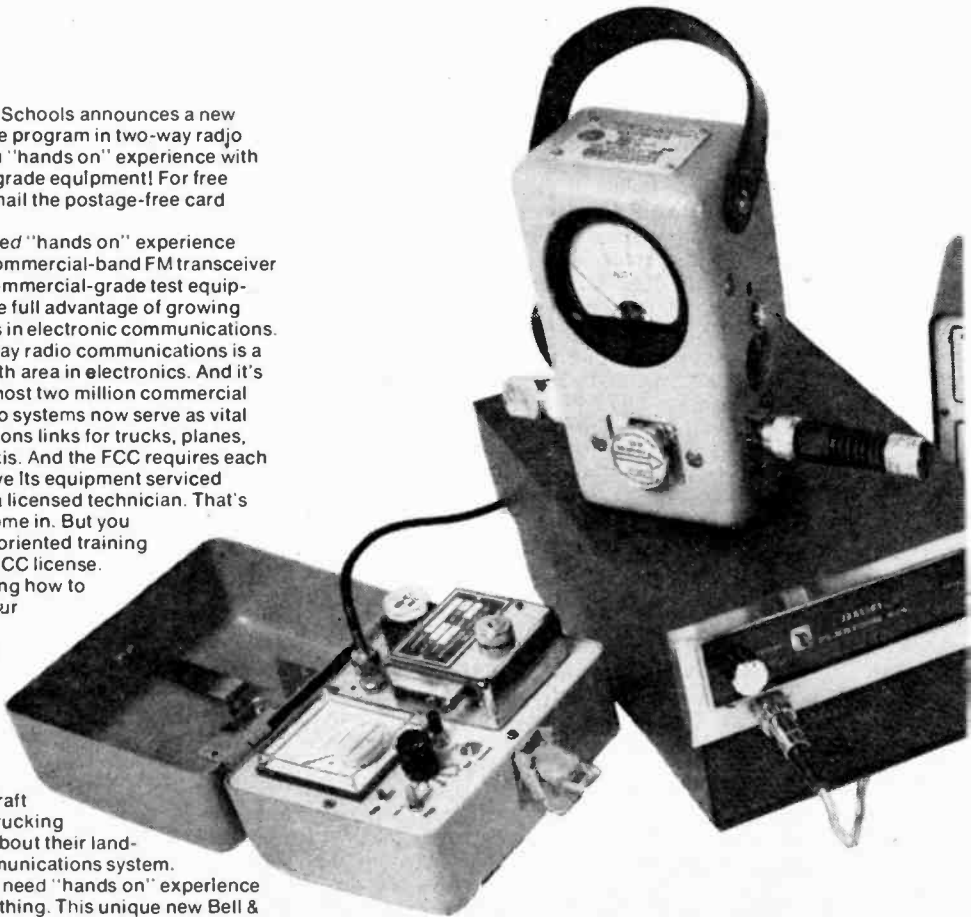
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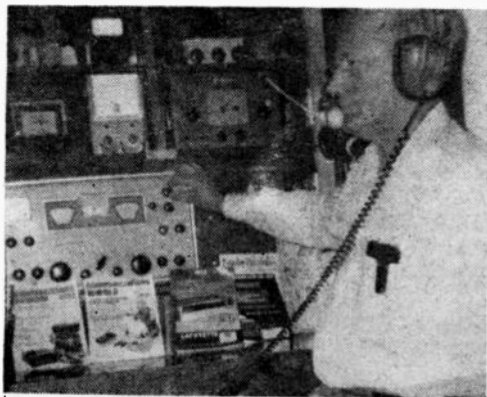
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switched in, provide audio tones in your receiver at precise spots, often every 100 kHz. Some models also provide tones every 50 kHz, 10 kHz, even every 1 kHz. With these accurate frequency markers it is very easy to construct highly accurate frequency graphs.

Even more accurate is the frequency meter. It works essentially like the crystal-controlled frequency calibrator. However it is tunable to the precise frequency you desire. You don't have to settle for audio markers on only certain fixed frequencies as your tuning guideposts. You can tune, using charts that accompany the frequency meter, to the wanted frequency. The device will cause the audio tone to be hard on that channel and you must only tune your receiver until you hear the marker and you can be sure you're on the exact spot you want.

Frequency meters, at least those that are within the price range of the average DXer, are available only as military surplus gear. The most common and popular model is known as the BC221, Army Signal Corps surplus. This is World War II vintage stuff, mostly, but there are many in the hands of hams and SWLs. Some can be found advertised by dealers specializing in military surplus gear. Or you may find them on the block at ham radio outings and hamfests. The price varies with supply and demand at any particular time. During last summer, we spotted several at local ham gatherings that were being offered for \$40 to \$60.

When you get up into the receiver price range from, say, \$300 or so, you will find many rigs that offer good to excellent frequency readout without the need of graphs or extra accessories. When you choose a receiver, don't forget that there are many good buys in the used market. Most stores handling communications receivers accept older rigs in trade on new models. And, since we've noted DXers often trade up, it is possible to find somewhat older but still very



good sets on the used market. By buying used equipment it is possible to save a real bundle of cash and wind up with a better receiver for the money than you could afford if you insisted on new merchandise. But a used receiver is only as good as the reliability and reputation of the seller. Know your dealer and you won't get burned.

The shortwave broadcast band is kaleidoscopic. The picture is constantly changing. This is because, as we've noted, reception conditions change greatly, from season to season, day to day, hour to hour. Another reason is that the stations that inhabit the shortwave frequencies are changeable. Frequencies are altered, schedules change, longtime broadcasters suddenly vanish from the air (temporarily or permanently), new stations come on.

It is impossible to present anything like an overall, up-to-the-minute view of the DX scene, and this is one of SWLings attractions: you're never really sure what the next listening session will bring. But what we can do is to give you something of an overview, a representative sampling of SWBC operation around the world.

An inevitable problem we face is that from the time this is written until the moment when you read this page, the DX situation has changed to some degree. Some stations will have modified their schedules. More will probably have changed frequency. The result is that you may not find these stations exactly when and where we note them. Chances are, though, you'll find many of them on other frequencies, often in the same SWBC band, if you hunt a bit.

We will look at various regions of the globe, reviewing five different broadcasting operations in each, giving you some tips on logging these stations. We'll list each quintet more or less in order of their difficulty, with the easier to hear stations first and progressing to some real toughies.

North American DX. One of the first stations you're apt to hear on SWBC is our own Voice of America. The VOA is the official broadcasting operation of the United States and it broadcasts in scores of languages to audiences around the world. The Voice has a huge modern transmitting complex located at Greenville, North Carolina, with smaller broadcasting plants at Bethany, Ohio, and Dixon, California.

But not all VOA programs you hear will be broadcast from Stateside transmitters. The Voice of America owns or leases broadcasting facilities in other countries abroad, including Greece, Great Britain, the Philippines, Morocco

And here we have Fred Baumann, a Salem IN listener with a real nice array of gear. Recently retired at 65, Fred has been enjoying his hobby more than ever lately. He began back in 1922 with a crystal set built on an oatmeal box. We suspect he gets much better results with a top-flight receiver like his Hammarlund HQ180.

and West Germany. These bases are used for relaying shortwave programs to areas not suitably served by the transmitters in North America. And VOA transmitters do not always broadcast Voice of America programs. Several other broadcasting services, the American Forces Radio and TV Service, the United Nations and the Organization of American States air programs over VOA facilities.

Voice of America, Greenville, N.C., 15160 kHz, 2345 GMT, relaying programs of the Organization of American States; Greenville, N.C., 15235 kHz, 1900 GMT, Polish program.

To the north, the most easily heard short-waver is the Canadian Broadcasting Corporation. The CBC transmitters are located on Canada's east coast, at Sackville, New Brunswick, although programs are produced in the studios in Montreal. Canada has a wide range of broadcasts for overseas listeners in a number of languages, but one of the more interesting programs of the CBC is directed to Canadians living in the remote and isolated northern regions. The Northern Service beams daily programs in English, French and Eskimo to the folks in the Yukon and Northwest Territories. **Canadian Broadcasting Corporation**, Sackville, N.B., 11720 kHz, 0200 GMT, Northern Service newscast; Sackville, N.B. 15190 kHz, 0100 GMT, Radio Canada International's foreign service in English.

A representative voice of our southern North American neighbor, Mexico is XERMX, Radio Mexico. Periodically, this station has tried its hand at some international-type programming for overseas and continental listeners in several languages, including English. At the moment, though, programs have been almost exclusively in Spanish. However, XERMX's signals are strong and it isn't too difficult to make out the identifications, even in Spanish.

Radio Mexico, XERMX, Mexico City, 15125 kHz, 2330 GMT, Spanish language announcements and a musical program known as "La Discoteca."

Besides the government-owned Canadian Broadcasting Corporation, Canada also has a half dozen private, commercial shortwave broadcasters. These are relatively low powered stations, broadcast for regional Canadian audiences by duplicating the programs offered by their medium wave outlets. One such private broadcaster is CFRX, operated by CFRB, Ltd., a Toronto, Ontario broadcaster. It serves as a relay of the BCBC, CFRB, bringing its programs to listeners who can't rely on the medium wave channel for reliable reception. It is a 1000-watt station and programs 24 hours a day.

CFRX, Toronto, Ontario, 6070 kHz, can be heard during the evening hours in North America with programs of CFRB, sounding much like a popular music format U.S. commercial BCB station.

Toughest to hear of the private Canadian SWBCers is a tiny station in Vancouver, British Columbia. It is CKFX, a shortwave version of

medium wave outlet CWFX. This outlet runs a miniscule 10—count 'em—10 watts! Still, it has been heard on occasion as far east as Maryland.

CKFX, Vancouver, Br. Columbia, 6080 kHz, when reported it has been logged during the wee hours of the morning when interference is at a minimum, relaying the medium wave programs of commercial CWFX.

Tuning Central America. Together with the tail of the North American continent, Central America, we'll lump the shortwave broadcast stations of the Caribbean region.

Far and away the strongest signals are those of Radio Havana Cuba, which can be easily logged each night during the English language segments of the station's programming day. The propaganda gets a bit thick at times, but it can be interesting to hear what our not-so-friendly southern neighbor has to say about the Yankee government. And the music programs often are very enjoyable.

Radio Havana Cuba, Havana, 11760 kHz, 0445 GMT, Havana rebroadcasts Hanoi's Voice of Vietnam program to American listeners; Havana, 15230 kHz, 0400 GMT, with Radio Havana Cuba's own English language service.

Costa Rica has a rather widely heard station known as TIFC, Faro del Caribe. This outlet, like a number of the more powerful stations in Latin America is a religiously oriented operation, a missionary station. The Spanish slogan translates into English as The Lighthouse of the Caribbean. Much of TIFC's programming is in Spanish, but during the evening hours you will find some English religious programs as well. **Faro Del Caribe**, TIFC, San Jose, Costa Rica, 9645 kHz, listen during the mid-evening hours for English religious programming until sign off shortly after 0400 GMT. Or try a recently activated frequency, 6175 kHz.

Back to the warm waters of the Caribbean, not far from Cuba, is the island of Haiti. Not much in the way of shortwave representation from this French-Creole-speaking black nation of the Antilles, but there is one broadcaster that can be heard with some regularity in North America. This is Haiti's Gospel station, 4VEH, at Cap Haitien. Another missionary type station, it too has English language broadcasts. **Radio 4VEH**, Cap Haitien, Haiti, 9770 kHz. Your best bet to hear 4VEH in English is during the pre-dawn hours, say about 1100 GMT.

Number four on our hit parade of Middle American SWBC stations is still another religious station, this one located in Guatemala. The station is Radio Cultural, TGNA—the call letters stand for "Telling the Good News Abroad—and it is located in Guatemala City, "land of eternal spring." It too has nightly English language programs, plus a greater number of Spanish transmissions.

Finally, before we head yet further south, a harder Central American station. It is Radio Mar, a Spanish-speaking outlet—no English

here—located at Puerto Cabezas in Nicaragua. It is, in many ways, typical of the type of small, commercial local service shortwave stations throughout Latin America. It is of special interest in that it is, at this writing, the only way most U.S. listeners will be able to log Nicaragua.

Radio MAR, Puerto Cabezas, Nicaragua, 9590 kHz. A "sometimes station," often totally inaudible, but occasionally well heard with Spanish programming during the 1300-1600 GMT period.

DXing South America. The two best bets for newer SWLs are both missionary type broadcasters, one in Ecuador, the other on Bonaire in the Dutch Antilles, just off the northern coast of South America.

First is the old timer, **HCJB**, the Voice of the Andes, in Quito, Ecuador, which has been broadcasting since the 1930's. HCJB, unlike most Latin American religious stations, has global outlook on broadcasting. Its programs, in addition to Spanish, Portuguese, the Andean Mountain Indian languages and English, also are transmitted in such languages as Chinese, Russian, Polish and Rumanian. English-speaking SWLs also are attracted to its regular program for hobby listeners, "DX Party Line."

Voice of the Andes, HCJB, Quito, Ecuador, 11745 kHz, English may be heard around 0300 GMT. Or, in the mornings, try 15115 about 1300 GMT.

Our second religious station is **PJB**, Trans World Radio, on Bonaire. The organization behind this station also operates Trans World Radio in the tiny European country of Monaco, and soon is to build another in Africa.

Trans World Radio, PJB, Bonaire, Netherlands Antilles, 15255 kHz. For one of the English

language broadcasts, try this frequency around 1230 GMT. In the early evening, 11815 kHz is another good channel.

There are not many South American stations that make a deliberate effort to reach overseas listeners, but another of the exceptions is the international station of the Argentine government, **Radiodifusión Argentina al Exterior**, or simply, **RAE**. It sometimes announces as "RAE," pronounced "rye." The station is located in Buenos Aires and can be heard in English at times.

Radiodifusión Argentina Al Exterior, Buenos Aires, Argentina, 9690 kHz. There are two time-periods to try for English programs, 0300 and 0600 GMT.

With close to a thousand local service Spanish-speaking and several hundred Portuguese-Brazilian stations to choose from, making a selection for our review is not easy. But, more or less at random, we'll focus on one of the Venezuelans you should be able to hear. It is **Radio Rumbos**, the key station in a radio network of the same name. It is located in Caracas. **Radio Rumbos**, Caracas, Venezuela, 4970 kHz. Typical Latin American fare from this Venezuelan outlet, a mixture of music, including some U.S. melodies and jazz, Spanish announcements and commercials. Before we leave the western hemisphere, here's one of the toughest of the tough. It is the **Falkland Islands Broadcasting Service**. Falkland Islands? Look on your map, south and east of Argentina, down near Antarctica! This English speaking local station runs only 500 watts and is considered among the hardest-to-hear of any SWBC stations. However it has been reported as logged in the U.S. perhaps a half dozen times in the past 20 years.

Falkland Islands Broadcasting Service, Port Stanley, Falkland Islands, 3958 kHz (frequency varies). Around 0100 GMT, but don't hold your breath waiting to hear it.

Over The Waves. Next our SWBC survey of the world jumps the South Atlantic from Latin America to Africa. As far as broadcasting is concerned, Africa is really the emerging continent. Numerous high powered transmitters have been installed in African countries in recent years. There was a time when the experienced DXer might have a dozen African countries logged. Today, his score is probably over the 50 country mark on this continent alone. Making a conscious effort to attract an inter-

As his wall attests, Kevin Nelson collects pennants from shortwave stations. This Holton KS DXer has 15 of them, including prized pennants from stations in Spain, Sweden, Mexico, Australia, and Finland. His favorite DX catches are Liberia, Costa Rica, and Ghana. By now we hope Kevin has received his hoped-for QSLs from New Zealand and Austria. The receiver? Another DX150B.



national audience, and generally succeeding, is South Africa's Radio RSA at Johannesburg. It is one of the more popular of the shortwave stations you can easily hear. But South Africa also has a home service network, three actually, a commercial service known as Springbok Radio, plus home services in English and Afrikaans, a language stemming from Dutch. **Radio RSA**, Johannesburg, South Africa, 15220 kHz. Look for some English here around 1400 GMT, or on other frequencies in several shortwave broadcast bands during the evening hours. **South African Broadcasting Corp.**, Johannesburg, South Africa, 3250 kHz. A commercial home service has been heard with good signals, pop music, commercials and all, about 0230 GMT.

Also widely heard in North America is Egypt's Radio Cairo. While its exotic Arabic chanting and music is fun to listen to, many listeners will, of course, prefer to tune into Cairo's international service broadcasts in English. But just in case you're game to try to ID it during the Arabic programming, listen for this announcement, "Huna Kahira" (Here is Cairo).

Radio Cairo, Cairo, Egypt, 9475 kHz. An easy frequency to find, below and well apart from the pack of 31 meter stations, listen about 0230 GMT for English.

For pop music, many South Africans, it is said, listen to the English programs from a shortwave station just over the border in Portuguese Mozambique. In Mozambique, the Portuguese territory on Africa's east coast, the big gun in broadcasting is Radio Clube Mozambique. RCM also has services in Portuguese and African languages.

Radio Clube Mozambique, Lorenzo Marques, Mozambique, 4925 kHz. As this is written, this is one of the better frequencies for this station, about 0330 GMT. Beira, Mozambique, 4890 kHz. This is supposedly one of the regional channels of RCM. It can be heard about 0400 GMT, usually with African music and programming.

Hopping back to Africa's West Coast, we come to Nigeria, a country with a strong English heritage, hence there are plenty of English programs from the national station at the capital, Lagos, and from a series of regional stations of the Nigerian Broadcasting Corporation. Our pick as one of the not-so-easy-ones is the NBC regional outlet at Calabar.

Nigerian Broadcasting Corp., Calabar, Nigeria, 6144 kHz. In the East, try late afternoons, about 2245 GMT. Further west listen about 0530 GMT.

For the hardest of our African quintet, how about a commercial broadcaster in the remote southern country of Swaziland? Right now the only way to hear this country is to catch the programs of Swazi Radio. This station, owned in part by American interests, programs pop and western music, aiming at a South African audience. It is in competition with South

Africa's own stations and the previously mentioned Radio Clube Mozambique.

Swazi Radio, Mbabane, Swaziland, 6155 kHz. Hard because of regular interference from European outlets on the same frequency, but occasionally audible after 0400 GMT.

Next we turn northward to Europe, where we'll find a glory load of stations to tune in the western part of the continent. Since there are a number of stations and you are equally likely to hear most of them, our selections will be more or less random picks from the grab bag.

Perhaps the most popular station among SWLs today, and in recent years, is Holland's Radio Nederland at Hilversum. This station's history goes back decades to the very early years of broadcasting. Then it was known as PCJ, but since the end of World War II, when the Dutch government took it over, it has been Radio Nederland. Radio Nederland really caters to foreign audiences and there are plenty of good programs to be heard. These include everything from the famed Amsterdam Concertgebouw Orchestra to the light-hearted Happy Station program.

Radio Nederland, Hilversum, Holland, 11730 kHz. Listen in at 0200 GMT, for English language fare, depending on the night, the "His and Hers Show," the "Happy Station" program or some other interesting programming.

Another European station that caters to English speaking audiences with its programs is the Swiss Broadcasting Corporation. This one broadcasts from Bern.

Swiss Broadcasting Corp., Bern, Switzerland, 9535 and 11715 kHz. You can hear this one signing on its English transmission at about 0145 GMT.

A bit more difficult, but only because it has an abbreviated English service, is Vatican Radio. The international voice of Roman Catholicism isn't a hard station if you know when to look for it. This station produces its programs within the tiny Vatican State in the heart of Rome. Its powerful transmitters are located in the countryside outside the Italian capital. However, both studios and transmitter are, by treaty, part of the independent Vatican, not Italy.

Vatican Radio, Vatican City, 11845 kHz. You should find an English newscast at 0100 GMT.

Not as widely heard as some of the other European stations is Radio Norway. The reason, again, is that the programs from the land of the midnight sun are somewhat limited, especially when it comes to broadcasts in English to North America. Still, with a bit of patience and knowing when to tune, you should be able to add this one to your log also.

Radio Norway, Oslo, Norway, 15175 kHz. Listen at 2000 GMT for the Sunday program, "Norway Today."

We'll cap our look at European broadcasting with one of the toughest of all continental stations on shortwave. It is the Polish Pathfinders Station, located in the Polish capital of War-

saw. Odds of hearing this station are stacked against you, without a doubt. The station is operated by the Polish Pathfinders Union, a youth organization, and the programs are tailored for the musical tastes of people, with, we suppose, ideological commentary.

Polish Pathfinders Station, Warsaw, Poland, 7306 kHz. This one broadcasts with only 350 watts of power and if it is to be heard at all it will be in the heart of winter, perhaps on a Sunday morning around 0900 GMT.

Mid East DXing. Like Africa, there is a growing importance given broadcasting in this politically lively corner of the world. A relatively recent entrant in the high power battle of the airways is Israel. The Israel Broadcasting Authority, IBA, recently installed a trio of 300-kilowatt shortwave outlets that put out strong signals. Secondly, even more recently IBA initiated its first broadcasts directed specifically to North America.

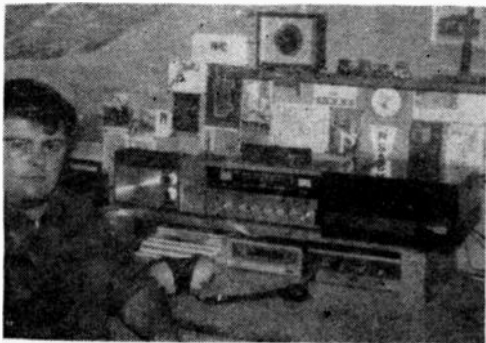
Israel Broadcasting Authority, Jerusalem, Israel, 9009, 9585 and 11960 kHz. Programs to North America and Europe can be heard on these frequencies at 0500 GMT. Easiest frequency to find is 9009 kHz. Jerusalem, Israel, 11700, 15160 and 17715 kHz. Another transmission to North America is aired at 11300 GMT.

One of the stronger Arab voices in this part of the world comes from tiny, oil-rich Kuwait. You shouldn't have too much difficulty in hearing its programs during the afternoon hours.

Kuwait Broadcasting Service, Kuwait, Arabian Gulf, 15415 kHz. English programs from Kuwait can be heard from about 1800 to 1900 GMT.

Great Britain, which in addition to its shortwave transmitters on the "tight little island" itself has relay stations in various areas of the globe, serves the Middle East from a station on the Mediterranean island of Cyprus.

British Broadcasting Corporation, Limassol, Cyprus, 15420 kHz. You may hear this station, carrying the BBC's World Service programming, about 1900 GMT.



Iraq is yet another voice in the Arab world. The station to look for here is the government's Radio Baghdad. And, in continuing with our basic format of listing our target stations in order of their difficulty to hear, Radio Baghdad will probably be a bit tougher to log than the Mid East stations spotlighted above.

Radio Baghdad, Baghdad, Iraq, 9745 kHz. Your radio carpet can take you to old Baghdad if you tune around 2000 GMT.

Hardest of our eastern quintet is Radio Dubai, at Dubai, one of those mini-sheikhdoms that comprise the Union of Arab Emirates. If this spot rings no bell with you, check your map. It is on the coast of the Arabian peninsula, somewhat down the coast from the previously mentioned Kuwait.

Radio Dubai, Dubai, United Arab Emirates, 6040 kHz. This is hard, but try during midwinter just about dawn.

Tuning The Asians. Again there are a number of Asian stations that you should not find too elusive in your DX quest.

Mainland China should be one of the easier Asian countries for you to log. Radio Peking has toned down its anti-American slant with the easing of U.S.-Chinese tensions, however don't expect to hear too many kind words about Uncle Sammy.

Radio Peking, Peking, People's Republic of China, 15060 kHz. You can find this station broadcasting in English around 0200 GMT. Peking, People's Republic of China, 15095 Hkz. For an alternate, tune 35 kHz up the dial around 0400 GMT.

Another international broadcaster with a large American audience is Radio Japan. Japan's national station really tries to win listening friends with a variety of English language programs. And for those who report their receptions of Radio Japan, there are QSL cards that are hard to beat for colorfulness and attractive design.

Radio Japan, Tokyo, Japan, 15445 kHz. One of several times during the day when you can catch English programs is around 2345 GMT. Far East Network, Tokyo, Japan, 6155 kHz. A much harder way to add Japan to your logged totals on SWBC is this all-English American station, a branch of our American Forces Radio and TV Service. Try during the pre-dawn period in much of the U.S.

Sri Lanka? Where's that? Well, Sri Lanka is the new name for Ceylon, the large Asiatic island off the tip of the Indian subcontinent. There are two major broadcasting stations for you to tune.

"I enjoy tuning in all the bands," writes Barry Washburn, Glens Falls NY. Barry's gear includes a Lafayette FM tuner, a Realistic DX150B for AM, BCB, and SWBC listening, and a Realistic Astronaut 5 for VHF. On shortwave Barry has confirmed 25 out of 35 countries heard.

WORLD TIME BY COUNTRY

It is tomorrow in Australia when it's still today here in North America. Though it's the witching hour in the U.S., African stations are beginning their breakfast hour programming. When you rise in the morning it is bedtime somewhere else in the world. To compute the time anywhere in the world, add (+) or subtract (-) the number of hours indicated to or from Greenwich Mean Time (GMT) to obtain local time anywhere on the globe. Figures in parentheses indicate daylight savings time during the particular country's summer months.

Afghanistan	+4½	Czechoslovakia	+1	Lebanon	+2	Singapore	+7½
Alaska	-8	Dahomey	+1	Liberia	-¾	Solomon Is.	+11
Albania	+1	Denmark	+1	Luxembourg	+1	Somalia	+3
Algeria	0	Ecuador	-5	Libya	+2	South Africa	+2
Argentina	-4(-3)	Egypt	+2(+3)	Malawi	+2	South Yemen	+3
Armenia	0	El Salvador	-6	Malaysia	+7½	Spain	+1
Australia		Ethiopia	+3	Malagasy Rep.	+3	Sudan	+2
Eastern	+10	Falkland Is.	-4(-3)	Maldives Is.	+5½	Surinam	-3¼
Central	+9½	Fiji Is.	+12	Mali	0	Sweden	+1
Western	+8	Finland	+2	Mauritania	0	Switzerland	+1
Austria	+1	France	+1	Marshall Is.	+12	Syria	+2(+3)
Azores	-1	Gabon	+1	Martinique	-4	Tahiti	-10
Bahamas	-5	Gambia	0	Mauritius	+4	Tanzania	+3
Belgium	+1	Germany	+1	Mexico	-6	Thailand	+7
Bermuda	-4	Ghana	0	Monaco	+1	Timor	+8
Bolivia	-4	Gilbert Is.	+12	Mongolia	+8	Togo	0
Botswana	+2	Greece	+2	Morocco	0	Tunisia	+1
Brazil		Guam	+10	Mozambique	+2	Turkey	+2
Eastern	-3(-2)	Guatemala	-6	Nepal	+5.40	Uganda	+3
Central	-4(-3)	Guyana	-3¼	Neth. Antilles	-4	Upper Volta	0
Western	-5(-4)	Guiana, Fr.	-3	New Caledonia	+11	Uruguay	-3
Brunei	+8	Guinea	0	New Guinea	+10	USSR	
Bulgaria	+2	Eq. Guinea	+1	New Hebrides	+11	Moscow	+3
Burma	+6½	Guinea, Port.	-1	New Zealand	+12	Baku	+4
Burundi	+2	Haiti	-5	Nicaragua	-6	Sverdlovsk	+5
Cambodia	+7	Hawaii	-10	Niger	+1	Tashkent	+6
Cameroun	+1	Holland	+1	Nigeria	+1	Novosibirsk	+7
Canada		Honduras	-5(-6)	Norway	+1	Irkutsk	+8
Atlantic	-4(-3)	Honduras, Br.	-6(-5½)	Pakistan	+5	Yakutsk	+9
Eastern	-5(-4)	Hong Kong	+8(+9)	Panama	-5	Kabarovsk	+10
Central	-6(-5)	Hungary	+1	Papua Terr.	+10	Magadan	+11
Mountain	-7(-6)	Iceland	-1(0)	Paraguay	-4	Petropavlovsk	+12
Pacific	-8(-7)	India	+5½	Peru	-5	Anadyr	+13
Yukon	-9(-8)	Indonesia		Philippines	+8	USA	
Canary Is.	0	West	+7	Poland	+1	Eastern	-5(-4)
Cape Verde Is.	-2	Central	+8	Portugal	+1	Central	-6(-5)
Cent. Afr. Rep.	+1	East	+9	Qatar	+4	Mountain	-7(-6)
Ceylon	+5½	Iran	+3½	Reunion	+4	Pacific	-8(-7)
Chad	+1	Iraq	+3	Rhodesia	+2	Vatican	+1
Chile	-4	Israel	+2	Rumania	+2	Venezuela	-4
China		Italy	+1(+2)	Rwanda	+2	Vietnam, S.	+8
East	+8	Ivory Coast	0	Ryukyu Is.	+9	Vietnam, N.	+7
West	+6	Japan	+9	Sabah	+8	Windward Is.	-4
Colombia	-5	Jordan	+2	Sao Tome	0	Yemen	+3
Cook Is.	-10½	Kenya	+3	Sarawak	+8	Yugoslavia	+1
Costa Rica	-6	Korea	+9	Senegal	0	Zambia	+2
Cuba	-5	Kuwait	+3	Seychelles	-4		
Cyprus	+2	Laos	+7	Sierra Leone	0		

Sri Lanka Broadcasting Corporation, Colombo, Sri Lanka, 11800 kHz. Programs in the Hindi language, with English identifications on the half hour, from 1400 GMT. Voice Of America, Colombo, Sri Lanka, 11835 hHz. Try this VOA relay station about the same time. Programs are in Asian languages with occasional English IDs.

A tougher target is Thailand. In addition to the more commonly heard Radio Thailand, a government outlet, a better DX catch is the

commercial Thai TV-Radio at Bangkok.

THAI TV, Bangkok, Thailand, 7106 kHz. Listen for this one in Thai, with Southeast Asian music, around dawn and a little after.

Now, finally in our Asian Jaunt, here's a real backbreaker bit of DX that will challenge you. High in the foothills of the Himalayas is Srinigar, capital of Kashmir. Kashmir is part of India and its shortwave station is linked to the Indian broadcasting network, All India Radio.

However, while the other domestic AIR outlets use the All India Radio identifications, the Srinigar station calls itself Radio Kashmir. Radio Kashmir, Srinigar, Kashmir, India, 3277 kHz. Try this elusive one during the winter season shortly after daybreak at your location.

Pacific Radio Waves. Next and last in our global radio junket is that nebulous continental area known as Oceania. This part of the world includes Australia, New Zealand, New Guinea and all the many South Sea isles.

Easiest of all in this region is Australia. The Aussies hyped up their short wave operations with some 250 kilowatt transmitters some time back making a fairly easy catch even simpler. Radio Australia, Melbourne, Australia, 11785 kHz. Plenty of English programs from this down under station; listen in about 1400 GMT. Australian Broadcasting Commission, Sydney, Australia, 6090 kHz. This is one of the Australian home service stations that you may tune about 1200 GMT.

New Zealand stations run nowhere near the power of the major Australian broadcasters on shortwave, still if you look for the "Zedders" your hunt should be rewarded with a logging of Radio New Zealand.

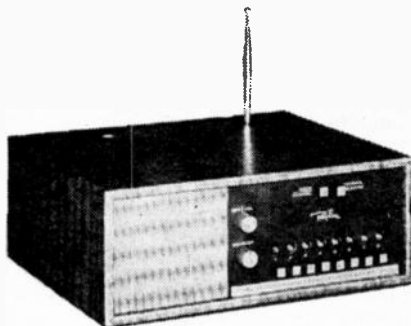
Radio New Zealand, Wellington, New Zealand, 6080 and 9540 kHz. This one should be audible during the period from around 0630 to 0830 GMT.

Out in the islands, a station that seems to have a special attraction to many listeners is Radio Tahiti. And, luckily, this exotic bit of France in the Pacific isn't really that hard to tune in.

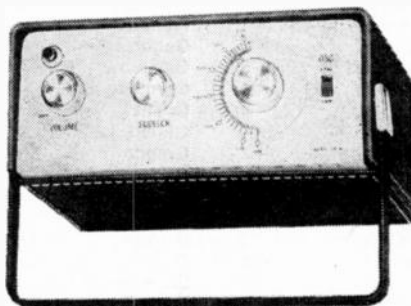
Radio Tahiti, Papeete, Tahiti, 15170 kHz. With music that runs the gamut from U.S. pops to Polynesian melodies, listen for this station from its sign-on at 0300 GMT.



AIRCRAFT BAND



Regency TME-8A 8-channel scanner, \$149.00
Circle No. 60 on the Reader Service Page



Heathkit GR-98 crystal/tune portable
Circle No. 1 on the Reader Service Page

Australia administers half of the island of New Guinea and a number of smaller off-shore islands. One of these islands is Truk, of World War II fame. And one of the Australian Administration shortwave broadcasting stations is located at Rabaul, on Truk. It is a nice catch for DXers and if signals are strong enough, as they sometimes are, you'll have a chance to really hear what pidgin English sounds like. Radio Rabaul, Rabaul, Truk, Territories of Papua and New Guinea, 3385 kHz. Again, look for this station early in the morning, about sunrise.

And last but not least, one of the two or three hardest stations in the entire world to log, Radio Cook Islands. So rare and elusive is this station that North American DXers aren't entirely sure that it is still on the air. But recently a listener in New Zealand reported it still active, so it is worth a try.

Thomas B. Byrd, Buffalo NY, has been interested in communications for a decade. The 33-year-old radio fan is both a DXer and a citizen's band radio operator. His Realistic DX150A is used for SWBC listening, and Tom has fifty countries verified so far. The CB transceiver is a Lafayette with a ground plane antenna. VHF-UHF tuning is done with a Regency Executive Scanner.

THE TEN CODE

Most law enforcement agencies around the country use special codes in their transmissions to simplify the handling of routine messages and to provide a form of security against eavesdropping. The most commonly used and least secure system is known popularly as the APSCO 10-code and is basic to most police departments.

10-0 —Caution	10-36—Correct time	10-68—Dispatch information
10-1 —Unable copy—change location	10-37—(Investigate) suspicious vehicle	10-69—Message received
10-2 —Signal good	10-38—Stopping suspicious vehicle	10-70—Fire alarm
10-3 —Stop transmitting	10-39—Urgent—use light, siren	10-71—Advise nature of fire
10-4 —Acknowledgment (OK)	10-40—Silent run—no light, siren	10-72—Report progress on fire
10-5 —Relay	10-41—Beginning tour of duty	10-73—Smoke report
10-6 —Busy—unless urgent	10-42—Ending tour of duty	10-74—Negative
10-7 —Out of service	10-43—Information	10-75—In contact with.....
10-8 —In service	10-44—Permission to leave	10-76—En route
10-9 —Repeat	10-45—Animal carcass at.....	10-77—ETA (Estimated Time Arrival)
10-10—Fight in progress	10-46—Assist motorist	10-78—Need assistance
10-11—Dog case	10-47—Emergency road repair at.....	10-79—Notify coroner
10-12—Stand by (stop)	10-48—Traffic standard repair at.....	10-80—Chase in progress
10-13—Weather—road report	10-49—Traffic light out at.....	10-81—Breatherlizer report
10-14—Prowler report	10-50—Accident (F, PI, PD)	10-82—Reserve lodging
10-15—Civil disturbance	10-51—Wrecker needed	10-83—Work school xing at
10-16—Domestic problem	10-52—Ambulance needed	10-84—If meeting
10-17—Meet complainant	10-53—Road blocked at.....	advise ETA
10-18—Quickly	10-54—Livestock on highway	10-85—Delayed due to
10-19—Return to.....	10-55—Intoxicated driver	10-86—Officer/operator on duty
10-20—Location	10-56—Intoxicated pedestrian	10-87—Pickup/distribute checks
10-21—Call.....by telephone	10-57—Hit and run (F, PI, PD)	10-88—Present telephone # of
10-22—Disregard	10-58—Direct traffic	10-89—Bomb threat
10-23—Arrived at scene	10-59—Convoy or escort	10-90—Bank alarm at
10-24—Assignment completed	10-60—Squad in vicinity	10-91—Pick up prisoner/subject
10-25—Report in person (meet).....	10-61—Personnel in area	10-92—Improperly parked vehicle
10-26—Detaining subject, expedite	10-62—Reply to message	10-93—Blockade
10-27—(Drivers) license information	10-63—Prepare make written copy	10-94—Drag racing
10-28—Vehicle registration information	10-64—Message for local delivery	10-95—Frisoner/subject in custody
10-29—Check for wanted	10-65—Net message assignment	10-96—Mental subject
10-30—Unnecessary use of radio	10-66—Message cancellation	10-97—Check (test) signal
10-31—Crime in progress	10-67—Clear for net message	10-98—Prison/jail break
10-32—Man with gun		10-99—Wanted/stolen indicated
10-33—Emergency		
10-34—Riot		
10-35—Major crime alert		

Radio Cook Islands, Rarotonga, Cook Islands, 5045 kHz. Here is a real "iffy" one. If it remains on the shortwaves, if it can be heard in the U.S. today, if it really broadcasts on 5045 (there have been reports of the frequency varying to 5049 kHz), the best time should be about 0700 GMT or so. Now, there are a number of stations of varying degrees of difficulty for you to try to tune. Our overview has been merely a sampling of the DX buffet laid out for your DX nibbling. There are plenty of other stations in all parts of the world, some easier, some harder to hear than those we've highlighted.

Communications Monitoring. Thus far we've focused attention on the broadcast type stations on medium and shortwaves. But, as we noted at the outset, many radio hobbyists these days are

turning their attention to non-broadcast stations operating in the very high frequency (VHF) and ultra high frequency (UHF) ranges.

These high band stations are, for the most part, two-way communications, but some are only one-way operations. All are non-broadcast type utility transmissions, as we defined earlier. These VHF/UHF operations include the communications of law enforcement agencies and governmental public safety departments, such as police, sheriff's officers, highway patrols and fire departments. Some are private concerns, business radio, trucking and taxi operators, railroads and, well the list goes on and on.

Much of the communications monitoring done by DXers centers on the VHF frequencies, broadly from 30 to 300 MHz. This is a mighty

big chunk of the radio spectrum and, in fact, most of the radio activity is located in two separate and distinct VHF ranges. The so called VHF low band covers the frequencies from about 30 to 50 MHz. The VHF high band includes those channels from about 150 to 174 kHz. Additionally, there is an aircraft communications band from 108 to 136 MHz. The ultra high frequency communications band, 450 to 470 MHz, is becoming popular with monitors.

The first thing to realize about VHF/UHF listening is that your shortwave receiver won't do the trick. You will need a second receiver designed to tune these rarified frequencies. A few bucks, under a twenty dollar bill, will buy you

DUAL BAND MONITORS

Electra Bearcat III scanner, \$159.95
Circle No. 58 on Reader Service Page

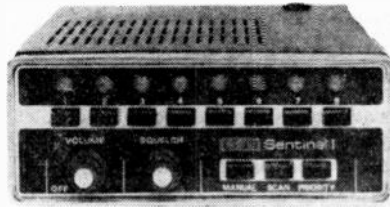


POLICE VHF FREQUENCIES

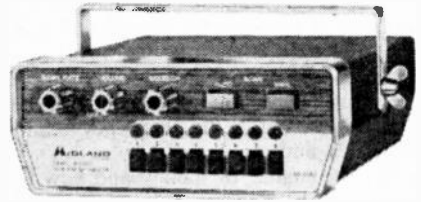
This is a selected list of VHF high band frequencies used by police departments across the country. Many police agencies use more than one frequency.

State	City	MHz			
Alabama	Birmingham	158.850	Illinois	Chicago	158.880
	Montgomery	155.250		Bloomington	155.130
	Huntsville	155.415		Champaign	155.610
	Decatur	155.010		Peoria	154.370
Alaska	Fairbanks	155.010	Indiana	Bloomington	155.130
	Anchorage	155.010		Ft. Wayne	155.370
	Kodiak	155.010		Gary	155.010
	Nome	155.550	Indianapolis	155.010	
Arizona	Mesa	155.010	Iowa	Des Moines	158.690
	Phoenix	154.755		Dubuque	155.190
	Tucson	154.725		Iowa City	155.370
	Yuma	155.250		Mason City	155.250
Arkansas	Hot Springs	155.415	Kansas	Emporia	155.550
	Little Rock	155.610		Topeka	155.535
	Pine Bluff	155.430		Wichita	154.725
	California	Los Angeles	155.860	Kentucky	Hopkinsville
San Diego		158.730	Lexington		155.370
San Francisco		155.550	Louisville		155.370
Oakland		156.370	Paducah		154.815
Colorado	Denver	158.910	Louisiana	New Orleans	155.310
	Pueblo	155.070		Baton Rouge	155.730
	Colorado Spngs	155.010		Shreveport	155.010
	Longmont	156.210		Maine	Aususta
Connecticut	New Haven	158.790	Lewiston		158.790
	New Milford	154.860	Portland		155.490
	Hartford	154.695	Maryland	Annapolis	159.210
Delaware	Dover	155.310		Baltimore	154.650
	Florida	Wilmington	155.130	Massachusetts	Boston
Miami		155.190	Holyoke		158.970
Daytona Beach		155.250	Lynn		158.970
Jacksonville		155.370	Michigan		Ann Arbor
Georgia	Tampa	155.370		Detroit	156.090
	Atlanta	155.370		Grand Rapids	154.740
	Augusta	155.370		Niles	154.370
	Columbus	155.090	Minnesota	Minneapolis	154.740
Valdosta	159.190	Duluth		155.010	
Hawaii	Honolulu	155.070		St. Paul	155.370
	Idaho	Boise		155.670	Winona
Lewiston		154.950	Mississippi	Jackson	155.070
Idaho Falls		154.450		Laurel	155.010
				Tupelo	155.580

SBE Sentinel I
8-channel scanner
Circle No. 50 on
Reader Service Page



E. F. Johnson Duo Band Scanner for \$169.95
Circle No. 48 on the Reader Service Page



Midland dual band 13-930, \$199.95
Circle No. 52 on Reader Service Page

POLICE VHF FREQUENCIES (Continued)

State	City	MHz		City	MHz
Missouri	St. Louis	155.610	Rhode Island	Philadelphia	154.650
	Kansas City	154.860		Erie	155.010
	Columbia	155.310		Harrisburg	156.210
	Springfield	155.370		Cranston	155.250
Montana	Helena	159.150	Newport	155.730	
	Butte	155.010	Pawtucket	158.970	
Nebraska	Lincoln	155.250	Providence	155.610	
	North Platte	155.010	South Carolina	Charleston	155.250
Nevada	Omaha	156.210	Columbia	155.370	
	Carson City	155.250	Spartanburg	154.785	
	Las Vegas	154.740	South Dakota	Sioux Falls	155.070
New Hampshire	Reno	154.860	Rapid City	155.430	
	Manchester	156.210	Tennessee	Kingsport	155.010
New Jersey	Nashua	155.130	Memphis	158.790	
	Atlantic City	155.130	Nashville	155.130	
New Mexico	Newark	156.210	Texas	Ft. Worth	158.730
	Jersey City	158.970	Dallas	155.370	
	Albuquerque	155.490	El Paso	155.250	
New York	Hobbs	159.030	Houston	154.755	
	Roswell	155.610	Utah	Salt Lake City	155.010
	Albany	155.550	Ogden	154.845	
North Carolina	New York City	151.370	Provo	155.190	
	Buffalo	155.580	Vermont	Montpelier	155.010
	Rochester	155.370	Burlington	155.370	
	Asheville	155.430	Virginia	Norfolk	155.310
North Dakota	Durham	155.190	Richmond	155.010	
	Greensboro	155.190	Roanoke	155.130	
	Raleigh	155.790	Fredericksburg	154.725	
	Bismarck	155.595	Washington	Seattle	155.010
Ohio	Grand Forks	155.130	Yakima	156.150	
	Minot	155.790	Spokane	159.150	
	Akron	155.370	Tacoma	154.920	
Oklahoma	Cleveland	155.010	West Virginia	Charleston	159.150
	Cincinnati	158.850	Huntington	155.520	
	Columbus	154.650	Parkersburg	155.490	
	Muskogee	154.725	Wheeling	154.950	
Oregon	Oklahoma City	155.670	Wisconsin	Green Bay	159.090
	Lawton	155.610	Kenosha	155.370	
	Tulsa	155.670	Madison	158.850	
Pennsylvania	Eugene	155.550	Milwaukee	155.370	
	Portland	155.190	Wyoming	Casper	154.800
	Salem	155.730	Cheyenne	155.490	
	Pittsburgh	157.030	Rawlins	159.150	

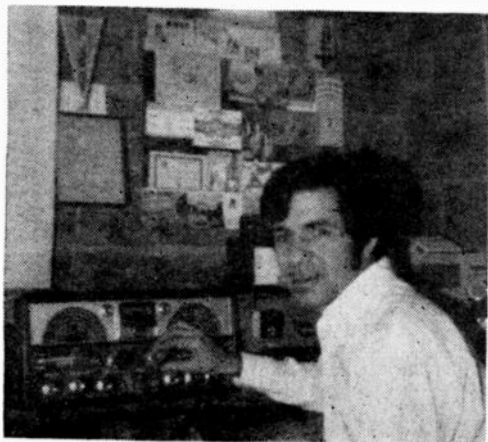
a tiny foreign-made transistorized portable—enough to get you started. In this price range you'll find a receiver that probably will cover the 150-174 MHz VHF channels, often labeled the "Police Band," plus standard AM broadcast frequencies. Often such an inexpensive set will do a good enough job, with its short, built-in whip antenna, on the local VHF outlets. You may choose to fork out more dollars for a receiver that has all the options, both VHF and UHF coverage, automatic frequency scanning, noise squelch and much more.

Besides the matter of money and how much of it you want to spend on a receiver, there are other factors that should influence your decision. Which frequencies do you want to tune? Low band VHF? High band VHF, Perhaps both? And what about the UHF channels? And then there are the aeronautical frequencies mentioned above.

Rockbound Or Slider? Do you want a tunable receiver, one that lets you tune across an entire band as you would dial a shortwave set? Or, if you're interested in a few particular VHF channels used by police and governmental agencies in your neighborhood, perhaps a crystal controlled frequency set is your cup of tea.

A turnable receiver permits you to continuously tune from one end of a band to the other, while the crystal controlled spots you on only a series of preselected frequencies. You choose those frequencies you want to listen to; the frequencies of certain selected stations in your area. You buy crystals "ground" for those specific channels and install them in your receiver. To receive other frequencies you must replace those crystals with ones ground for the new desired channels.

The advantage of a tunable set is that you are not restricted to a handful of pre-determined



MORE DUAL BAND MONITORS

Robyn Model 200, VHF-Hi, UHF to 512 MHz, \$179.95
Circle No. 53 on the Reader Service Page



frequencies. You can sweep the band, but finding specific stations requires careful tuning. The crystal controlled set is a snap to tune; switch to the appropriate channel and you're on target for the specific station you want to monitor. But random tuning is out. There are compromise designs, however, sets which are tunable but also have provisions for switching to one or a few fixed crystal controlled channels if you wish.

Another type of compromise is offered by the scanner receivers. These are crystal controlled, usually with about eight different channel spots available. But they feature scanning circuitry that automatically sweeps across the series of crystal controlled frequencies, stopping and locking in whenever a signal is encountered on one of these channels. When the transmission stops, the set continues to scan looking for another signal. The scanner circuitry gives you pinpoint accuracy when you want to find a certain frequency. But it also allows you to keep tabs on other selected channels automatically.

Another useful circuit in many VHF/UHF receivers is the squelch. It is, simply, a receiver silencing device. The speaker is activated only when a transmission is received. Other times, when there is nothing to be heard except band noise and static, the speaker is silent. The switching in and out of the speaker is done automatically. You hear only the communications, not the annoying noise between actual communications.

After eight years as a radio amateur, Jerry Pumo, Jr., Union NJ, discovered SWling, and now enjoys both aspects of the radio hobby. Jerry listens to SWBC, amateur stations, utility transmissions, and police and fire department frequencies. For shortwave he uses a Hallicrafters SX100; a home-built receiver does the trick on VHF.



Radio Shack PRO-28 Tuning or Xtal
Circle No. 55 on Reader Service Page

Pace Scan 216
VHF-Hi, UHF, \$179.95
Circle No. 56 on the
Reader Service Page



Again, we repeat—because a number of readers haven't got the message that police and fire calls on VHF/UHF cannot be heard on a standard shortwave receiver—you need a special set to monitor these and other services.

For more information on receivers and antennas for VHF-UHF monitoring, here are some of the manufacturers and sellers of these products. Check also the Literature Library pages in this issue of COMMUNICATIONS WORLD.

Antenna Specialists Co., 12435 Euclid Ave.,
 Cleveland OH 44106

Avanti Research and Development Corp.,
 35 W. Fullerton Ave., Addison IL 60101

Cash Craft Corp., 621 Hayward St., Man-
 chester NH 03103

Electra Corp., 300 S. County Line Rd.,
 Cumberland IN 46229

E. F. Johnson Co., Waseca MN 56093

Fanon/Courier Corp., 175 East William St.,
 Hopelawn, Perth Amboy NJ 08861

Gladding Corp., Pearce-Simpson Division,

P.O. Box 800, Biscayne Annex, Miami FL
 33152

Gonset, Division of Aerotron, Inc., PO Box
 6527, Raleigh NC 27608

Gotham, 1805 Purdy Ave., Miami Beach FL
 33139

Hallierafters Co., 600 Hicks Rd., Rolling
 Meadows IL 60008

Heath Company, Benton Harbor MI 49022

Hy-Gain Electronics Corp., Rt. 3, Lincoln
 NE 68505

Lafayette Radio Electronics, 111 Jericho
 Turnpike, Syosset NY 11791

Midland Communicatons Co., 1909 Vernon
 St., N. Kansas City MO 64116

Mosley Electronics, Inc., 4610 N. Lindberg,
 Bridgeton MO 63044

New-Tronics Corp., 15800 Commerce Park
 Drive, Brook Park OH 44142

Pace Division, Pathcom, Inc., PO Box 306,
 Harbor City CA 90710

Pal Electronics Co., 6931 Westminster Ave.,

FIRE DEPARTMENT FREQUENCIES

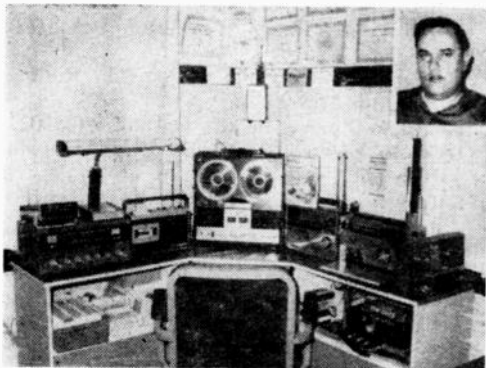
This is a selected list of VHF frequencies, low and high band, used by firefighters in various cities in the U.S.

State	City	MHz	State	City	MHz
Arizona	Tucson	46.06	New Jersey	Paterson	46.38
California	Los Angeles	33.84	New York	Buffalo	46.38
	San Franciscoc	46.18		Rochester	46.10
Connecticut	New Haven	33.82		Syracuse	46.22
Delaware	Wilmington	33.78	North Carolina	Charlotte	33.94
Florida	Miami	33.72	Ohio	Cleveland	33.90
	St. Petersburg	42.12		Cincinnati	33.90
Kansas	Wichita	46.14	Pennsylvania	Philadelphia	153.95
Kentucky	Louisville	33.86	Tennessee	Nashville	33.90
Maryland	Baltimore	46.50	Texas	Dallas	46.34
Massachusetts	Boston	33.74		Ft. Worth	46.06
Nebraska	Omaha	154.19	Vermont	Burlington	33.78
Nevada	Reno	46.06	Washington	Seattle	33.90

COMMUNICATIONS WORLD

Westminster CA 92683
 Radio Shack, 2617 W. Seventh St., Ft. Worth TX 76107
 Regency Electronics Inc., 7900 Pendleton Pike, Indianapolis IN 46226
 Robyn International, PO Box 478, Northland Dr., Rockford MI 49341
 Shakespeare, P.O. Drawer 246, Columbia SC 29202
 Teaberry Electronics Corp., 3401 N. Shade-land, Indianapolis IN 46226
 Unimetrics, 32 West Mall, Plainview NJ 11803

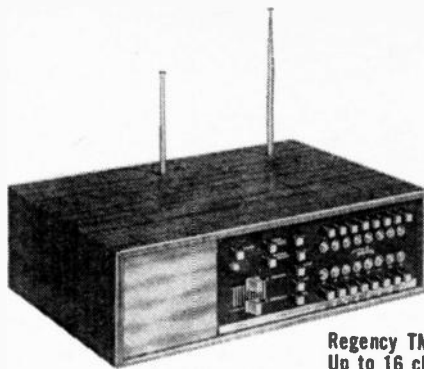
Monitoring The Action Band. When you swing into action on the VHF or UHF bands, chances are you'll be attracted to the police agency communications. Most police communications are routine, to be sure, but there are moments of real drama and excitement that you can share when you monitor the channels. It is



unpredictable and fascinating. There was a time, not too many years ago, when police transmissions were heard in the shortwave range, between about 1600 to 2000 kHz, but no more. Only a few departments still use these frequencies. Today most police radio traffic is aired on the VHF low band, 37.02 to 46.42 MHz, and the VHF high band, 151.45 to 159.21 MHz. More than 20,000 law agencies use these channels. Additionally, some departments transmit in the 450-470 MHz UHF channels.

Based on our correspondence from our readers, the VHF high band seems to attract the most attention these days. One easy way to determine if the police department in your community uses this frequency range is to observe the length of the antenna on a local squad car. If the antenna is about a foot and a half in length, the officers are communicating on a frequency or frequencies in the VHF high band (those frequencies in the 150 MHz range). If, instead, you spot a long bobbywhip type anten-

THREE-BAND SCANNERS



Regency TME-16 H/L/U
 Up to 16 channels, \$219.00
 Circle No. 36 on the
 Reader Service Page

na on your passing police cruiser, you can be sure communications are on the VHF low band in the 30 and 40 MHz span.

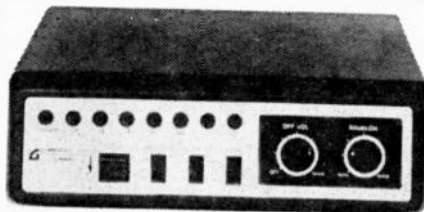
If you're a dyed-in-the-wool SWBC or medium wave listener you may find it a bit surprising at first to discover that on VHF/UHF the signal range is distinctly limited. You won't receive

This is the handsome DX den of John Martin, Augusta GA, and, inset upper right, that is John himself. The line-up of equipment shown includes a Realistic DX150A, Sony cassette-corder with AM and FM radio, a Sharp tape recorder, Realistic Patrolman-6 for VHF, Zenith Trans-Oceanic multi-band portable, Midland AM/FM radio and Courier 23.

any trans-oceanic signals. In fact, most of your receptions will be from stations in your own immediate vicinity. Occasionally, when propagation conditions are just right, reception up to a thousand or several thousand miles is possible, but generally you'll be tuning transmissions from under 100 miles away.

Reception of VHF signals is generally limited

VHF HI-BAND SCANNERS



Pierce-Simpson Hi-Scan, 144-175 MHz, \$114.95
 Circle No. 39 on the Reader Service Page



Tennetrac I, \$169.95
 12-channel, 3-band scanner
 Circle No. 37 on Reader Service Page



Teaberry CrimeFighter
 Scans without crystals, \$199.00
 Circle No. 38 on Reader Service Page

to little more than line-of-sight and only when conditions are right will distant stations bounce in from the ionosphere's reflecting layers.

Other Catches On VHF. Police communications are only part of the action on the very high frequencies. Also to be found on VHF, and to some extent, UHF, are public safety stations, industrial radio, land transportation, broadcasting remote pickups, highway crew communications, radio paging, industrial and manufacturing operators and others.

Often, because frequently the uniformed services work together closely, you'll find your fire department on a channel close to that of your police department. In some regions a single channel is shared by police and fire departments, but in metropolitan areas heavy traffic by both departments makes this impractical and separate frequencies are used.

If you live near a main rail line or, perhaps, a switch yard, you may hear signals from stations in the Railroad Radio Service. These stations use frequencies around 160 MHz in the VHF range, and 450-470 MHz on UHF. There are nearly 2,000 different radio channels used

by train crews, dispatchers, yard towers and railroad police.

Wireless Weathercasts. The National Weather Service operates about 60 weather stations across the nation. Most of these stations transmit on a single, standard frequency, 162.55 MHz, though a few use 162.40 MHz.

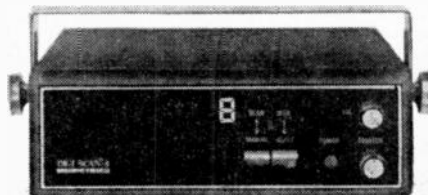
These stations operate around the clock, transmitting recorded weather summaries which are repeated every four or five minutes. The messages are updated every couple of hours, more often when special weather conditions require, keeping listeners up to date on the latest weather picture. These stations generally cover an area about 40 to 50 miles around. They are easily received near the station. To receive these broadcasts some distance from the stations, you may need a good VHF antenna.

Transmitting on 162.55 MHz are NWS transmitters in Akron OH, Anchorage AL, Astoria OR, Atlanta GA, Atlantic City NJ, Boston MA, Brownsville TX, Buffalo NY, Charleston SC, Chicago IL, Cleveland OH, Corpus Christi TX, Dallas TX, Denver CO, Des Moines IA, Detroit MI, Erie PA, Eugene OR, Eureka CA, Ft.



Heathkit GR-110 Scanner
 build yourself for \$119.95
 Circle No. 1 on the
 Reader Service Page

Unimetrics Digi Scan-8
 AC/DC power supply, \$149.95
 Circle No. 34 on the
 Reader Service Page



Worth TX, Galveston TX, Havelock NC, Hyannis MA, Indianapolis IN, Jacksonville FL, Kansas City MO, Lake Charles LA, Los Angeles CA, Miami FL.

Also in Milwaukee WI, Minneapolis MN, Mobile AL, Monterey Bay CA, Morehead City NC, New London CN, New Orleans LA, New York NY, Norfolk VA, Pensacola FL, Pharr TX, Portland ME, Portland OR, Sacramento CA, Salt Lake City UT, San Diego CA, Sandusky OH, San Francisco CA, Savannah GA, Seattle WA, Seward AL, St. Joseph MO, Tampa FL, Washington DC, West Palm Beach FL, Wichita KS, Wilmington NC.

On 162.40 MHz are stations at Cleveland OH, Boston MA and one or two others.

Keeping Current. There is no better way of keeping up with the many and frequent changes that occur in the world of DXing than by joining a club.

Seven major radio hobby clubs are affiliated with the Association of North American Radio Clubs (ANARC). Though ANARC itself is not a club, being instead an organization of clubs dedicated to improving the hobby of DXing, you may wish to write to ANARC for data on the clubs which are affiliated with this organization. Address your inquiry to Al Reynolds, ANARC Executive Secretary, PO Box 3012, Jackson TN 38301. The ANARC affiliated clubs include the National Radio Club and the International Radio Club of America, highlighted earlier in the section on medium wave listening.

Specializing in another phase of the DX hobby, tuning TV and FM stations, plus some of the VHF/UHF communications operations we've mentioned above, is the Worldwide TV-

"My name is Danny Haggerty and I'm 11 years old," this avid DXer tells us. Danny lives in River Vale NJ and has been a short-wave listener for about a year. His receiver is a Knight Star Roamer and his favorite DX catch has been Australia.



4-CHANNEL SCANNERS



Midland 13-912 VHF scanner, \$99.95; UHF, \$124.95
Circle No. 33 on the Reader Service Page

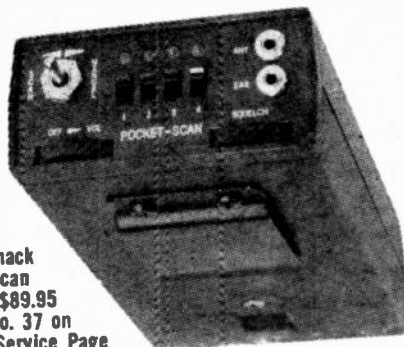
FIRE DEPARTMENT FREQUENCIES

This is a selected list of VHF frequencies used by firefighters in various cities in the United States.

State	City	Call	Freq.
Arizona	Tucson	KOC497	46.06
California	Los Angeles	KBQ236	33.48
			33.60
			33.84
			33.90
	San Francisco	KMB488	46.18
			46.46
Connecticut	New Haven	KCA378	33.82
Delaware	Wilmington	KE0309	33.78
Florida	Miami	KIM654	33.72
	St. Petersburg	KJY886	42.12
Hawaii	Hilo	KJD906	46.10
Kansas	Wichita	KAX581	46.14
Kentucky	Louisville	KOK504	33.86
Maryland	Baltimore	KGCS27	46.50
Massachusetts	Boston	KJS733	33.74
Minnesota	Minneapolis	KAL399	33.82
Mississippi	Jackson	KKL450	46.46
Nebraska	Omaha	KA0216	33.86
			154.19
Nevada	Reno	KAW739	46.06
New Hampshire	Manchester	KCA695	33.78
New Jersey	Patterson	KAQ236	46.38
New York	Queens County	KEB526	154.40
	Buffalo	KJU993	46.38
	Rochester	KEB243	46.10
	Syracuse		46.22
North Carolina	Charlotte	KBT939	33.94
Ohio	Cleveland	KQA216	33.90
	Cincinnati	KCU761	33.90
Pennsylvania	Philadelphia		153.95
			154.235
	Pittsburgh	KCD573	33.86
Puerto Rico	San Juan	KCP582	46.42
Tennessee	Nashville	KIK636	33.90
Texas	Dallas	KAW616	46.34
	Ft. Worth	KFX376	46.06
	Texarkana	KKO635	33.98
Vermont	Burlington	KCB999	33.78
Virginia	Richmond	KDY416	46.46
Washington	Seattle	KOA748	33.90



Pace SCAN 10-4H VHF scanner, \$89.95
Circle No. 36 on Reader Service Page



Radio Shack
Pocket-Scan
VHF-HI, \$89.95
Circle No. 37 on
Reader Service Page

FM DX Association, PO Box 163, Deerfield IL 60015. Incidentally, while we're back on the subject of VHF/UHF, there are publications you may find of interest. Communications monitors will find a series of station lists of police, fire and other services very useful in finding and identifying stations on VHF/UHF. A stamped, self addressed envelope to Communications Research Bureau, PO Box 56CW, Commack NY 11725, will bring you the details and a price list.

A club specializing in the SWBC aspect of DXing is the North American SW Association, PO Box 8452, South Charleston WV 25303. It publishes a printed monthly bulletin devoted to the shortwave broadcast stations around the world, feature articles, tips on QSLing the stations and lengthy reports of what others are hearing, where on the bands they are hearing them and when to tune.

SPEEDX, a California based club, likewise emphasizes SWBC listening, but also has excellent coverage of utility transmissions as well

as broadcasting stations. Its address is Box 321, Santa Ana CA 92702.

Two clubs which are more general in the scope of their coverage, that is they cover the broadcast stations and other phases of DXing as well, are the American Beach Club, 16182 Ballard Lane, Huntington Beach CA 92649, and Canadian International DX Club, 169 Grandview Ave., Winnipeg 16, Manitoba, Canada. CIDXC is open to members throughout the world, not only in Canada, and, with the U.S. clubs, membership is available to any DXer anywhere, not just to American DXers.

A self addressed stamped envelope to any of the clubs we've mentioned will bring full details on how you can join, if you wish. If you'd like to see a sample copy of the clubs' bulletins, it is a good idea to enclose about 50 cents to cover the club's postage and handling costs.

So get to it. DXing, no matter which aspect intrigues you the most, medium wave, SWBC, utilities on shortwave or VHF/UHF, FM or TV, is a ball. Don't miss out on the fun! ■

NATIONAL WEATHER SERVICE

NWS operates nearly 60 VHF weather stations in 29 states and the District of Columbia. Most of these transmit on a single, standard frequency, 162.55 MHz, though a few, like Cleveland, Boston and Atlantic City, use 162.40 MHz, and New London, Conn., broadcasts on 163.275 MHz. Broadcasts are aired around the clock and consist of tape recorded weather summaries, repeated every four or five minutes. The messages are updated every two hours or so, or more often when special weather conditions require. Depending on your receiver/antenna setup and local ground terrain, you should be able to hear NWS stations within about a 40-50 mile range. The following areas now receive NWS service:

Akron OH	Detroit MI	Milwaukee WI	Salt Lake City UT
Anchorage AL	Erie PA	Minneapolis MN	San Diego CA
Astoria OR	Eugene OR	Mobile AL	Sandusky OH
Atlanta GA	Eureka CA	Monterey Bay (San Jose) CA	San Francisco CA
Atlantic City NJ	Ft. Worth TX	Morehead City NC	Savannah GA
Boston MA	Galveston TX	New London CN	Seattle WA
Brownsville TX	Havelock NC	New Orleans LA	Seward AK
Buffalo NY	Hyannis MA	New York NY	St. Joseph MO
Charleston SC	Indianapolis IN	Norfolk VA	St. Louis MO
Chicago IL	Jacksonville FL	Pensacola FL	Tampa FL
Cleveland OH	Kansas City MO	Pharr TX	Washington DC
Corpus Christi TX	Lake Charles LA	Portland ME	West Palm Beach, FL
Dallas TX	Los Angeles CA	Portland OR	Wichita KS
Denver CO	Miami FL	Sacramento CA	Wilmington NC
Des Moines IA			

WHITES RADIO LOG

U.S. AM Stations by Frequency

U.S. stations listed alphabetically by states within groups. Abbreviations: kHz, frequency in kilohertz; W.P., power in watts; d. operates daytime only; r. reduced power at night; n. operates nighttime only. Wave length is given in meters.

Listing indicates stations on the air up to October 1, 1973

kH _z	Wave Length	W.P.	kH _z	Wave Length	W.P.	kH _z	Wave Length	W.P.	kH _z	Wave Length	W.P.
540—555.5			KIKX Tucson AZ	5000r		WAYS Charlotte, N.C.	5000		WRNG North Atlanta, Ga.	2500d	
KVIP Redding, Calif.	1000		KMJ Fresno, Calif.	5000	WTVN Columbus, O. Ho	5000		WCBT Corbin, Ky.	1000		
WGTO Cypress Gardens, Fla.	5000d		KUBC Montrose, Colo.	5000	WIP Philadelphia, Pa.	5000		WGBM Baltimore, Md.	1000d		
WDAK Columbus, Ga.	5000		WBO Orlando, Fla.	5000	KILT Houston, Tex.	5000		WRBC Boston, Mass.	5000d		
KWMT Ft. Dodge, Iowa	5000d		WGAC Augusta, Ga.	5000	KVNU Logan, Utah	5000		WDBO Escanaba, Mich.	1000d		
WDMV Monroe, La.	5000		KFXD Nampa, Idaho	5000d	WSLC Reno, Nev.	5000		KFEQ St. Joseph, Mo.	5000		
WLIX Islip, N.Y.	250d		WILL Urbana, Ill.	5000	WHPL Winchester, Va.	5000		WKVA Glovis, N.M.	5000		
WETC Wendell-Zebulun, N.C.	5000d		KSAC Manhattan, Kans.	5000	KONA Kennewick, Wa.	5000		WINT Binghamton, N.Y.	1000		
WARO Canonsburg, Pa.	250d		WBW Topeka, Kans.	5000				WNYR Rochester, N.Y.	1000		
WFNN Florence, S.C.	250d		KALB Alexandria, La.	5000	620—483.6			WPTF Raleigh, N.C.	5000		
WDXN Clarksville, Tenn.	1000d		WTAQ Worcester, Mass.	5000	KTAR Phoenix AZ	5000		WSPA San Juan, P.Rio	1000		
WRIC Richland, Va.	1000d		WELO Tupelo, Miss.	5000	KNGS Hanford, Calif.	500d		WNFS Memphis, Tenn.	1000d		
WYLC Jackson, Wis.	250d		KANA Anacosta, Mont.	1000d	KWSD Mt. Shasta, Calif.	1000		KKYX San Antonio TX	250d		
550—545.1			WAGR Lumberton, N.C.	500d	KSTR Grand Junction, Colo.	5000d		KOMW Omak, Wash	1000d		
KENI Anchorage AK	5000		WWSJ Winchester, N.C.	5000	WSUM St. Petersburg, Fla.	5000		KCWA Charleston, W.Va.	1000		
KOY Phoenix AZ	5000r		WFOE Rockwood, Tenn.	1000d	KIPA Hilo HI	100d					
KAFY Bakersfield, Calif.	1000		KDAY Lubbock, Tex.	500d	KWAL Wallace, Idaho	1000		690—434.5			
KRAI Craig, Colo.	5000		WLBS Lawrenceville, Va.	500d	KMNS Sioux City, Iowa	1000		WVOK Birmingham AL	5000		
WAYR Orange Park, Fla.	1000d		WCHS Charleston, W.Va.	5000	WMT Louisville, Ky.	500d		KEOS Flagstaff AZ	1000r		
WGA Gainesville, Ga.	5000		WKTY LaCross, Wis.	5000	WLBZ Bangor, Maine	5000		KEVT Tucson AZ	250d		
KMMI Wailuku, Hawaii	5000		590—508.2		WTEX Jackson, Miss.	5000		KBA Benton AR	250d		
KFRM Salina, Kansas	5000d		WRAG Carollton AL	1000d	WVNJ Newark, N.J.	5000		KAPI Pueblo, Colo.	250d		
WCBJ Columbus, Miss.	5000		KBMS Hot Springs, AR	5000	WHEN Syracuse, N.Y.	5000		WADS Ansonia, Conn.	5000		
KSD St. Louis, Mo.	5000		KFXM San Bernardino, Cal.	1000	WDCN Durham, N.C.	5000		WAPE Jacksonville, Fla.	5000		
KBOW Butte MT	5000r		KTHO South Lake Tahoe, CA	1000	KGW Portland, Ore.	5000		KKUA Honolulu, Hawaii	1000		
WGR Buffalo, N.Y.	5000		KCBJ Pueblo, Colo.	1000	WHJB Greensburg, PA	5000		KBLI Blackfoot, Idaho	1000d		
WDRM Statesville, N.C.	5000		WDLF Panama City, Fla.	1000	WCAY Cayce, S.C.	5000		KGFP Coffeyville, Kans.	1000		
KFYR Bismarck, N.Dak.	5000		WPLD Atlanta, Ga.	5000	WTFX Knoxville TN	5000		KGGF Pueblo, Colo.	1000		
WKRC Cincinnati, Ohio	5000		KHMB Honolulu, Hawaii	5000	KWFT Wichita Falls, Tex.	5000		KTRC Minneapolis, Minn.	1000		
KOAC Corvallis, Ore.	5000		KRID Idaho Falls, Idaho	5000	WVMT Burlington, Vt.	1000		KSTL St. Louis, Mo.	1000d		
WHLM Bloomsburg, Pa.	1000		WTD Wood River, Ill.	1000	WNRN Beckley, W.Va.	5000		KEYR Terrytown, Nebr.	1000d		
WPAB Ponca, P.R.	5000		WLEK Lexington, Ky	5000	WVNR Beckley, W.Va.	5000		KRCO Prineville, Ore.	1000d		
WDBG Pawtucket RI	1000		WELI Boston, Mass.	5000	WTMJ Milwaukee, Wis.	5000		KMSD Vermillion, S.Dak.	1000d		
KCBS Midland, Tex.	5000		WJMS Ironwood, Mich.	5000	630—475.9		KMET El Paso, Tex.	1000			
KTSA San Antonio, Tex.	5000		WKO Kalamazoo, Mich.	5000	WAVU Albertville, Ala.	1000d		KPET Lamesa, Tex.	5000		
WQEV Waterbury, Vt.	5000		WJLS Glendive, Mont.	5000	WDB Thomasville AL	1000d		KZEY Tyler, Tex.	5000		
WSPA Harrisonburg, Va.	5000		WOW Omaha, Neb.	5000	KJNO Juneau AK	1000r		WZAP Bristol, Va.	1000d		
KARI Blaine, Wash.	5000		WROW Albany, N.Y.	5000	KJMW Magnolia AR	1000d		WNNT Warsaw, Va.	250d		
WSAU Wausau, Wis.	5000		WCAE Rutherfordton, N.C.	5000	KIDD Monterey Calif.	1000		WELD Fisher, W.Va.	500d		
560—535.4			WGTM Wilson, N.C.	5000	KHOW Denver, Colo.	5000		WAGO Oshkosh, Wis.	250d		
WOOF Dothan AL	5000d		WUGN Eugene, Ore.	5000	WMAL Washington, D.C.	5000		700—428.3			
KNDK Kodiak AK	5000d		WARM Scranton, Pa.	5000	WSAV Savannah, Ga.	5000		KBYP Anchorage AK	1000r		
KBYA Yuma, AZ	5000		WMBB Uniontown, Pa.	1000	WNEG Tooele, Ga.	5000		WLW Cincinnati, Ohio	5000		
KSFO San Francisco, Calif.	5000		KLBJ Austin TX	5000r	KIDG Boise, Idaho	5000		710—422.3			
KLZ Denver, Colo.	5000		KSUB Cedar City, Utah	1000	WLAP Lexington, Ky.	5000		WKRG Mobile AL	1000r		
WQAM Miami, Fla.	5000		WLVA Lynchburg, Va.	1000	KTBB Tibbodaux, La.	500d		KMPC Los Angeles, Calif.	5000		
WIND Chicago, Ill.	5000		KHQ Spokane, Wash.	5000	KDWB Minneapolis-St. Paul MN	5000r		KERE Denver O	5000		
WMIK Middleburgh, Ky.	500d		600—499.7		KXOK St. Louis, Mo.	5000		WGBS Miami, Fla.	5000		
WFRB Portland, Maine	5000		WIRB Enterprise AL	1000d	KRGV Reno, Nev.	5000		WUFF Eastman, Ga.	1000d		
WHTN Springfield, Mass.	5000		KCLS Flagstaff AZ	5000r	KLEA Lovington, N.Mex.	1000d		WRRF Rome, Ga.	1000d		
WQYE Monroe, Mich.	5000		KQCV Paducah, Calif.	5000	WIRC Hickory, N.C.	1000d		WEL Shreveport, La.	5000		
WBCB Duluth, Minn.	5000		KOGO San Diego, Calif.	5000	WMFD Wilmington, N.C.	1000		WTPA Europe MS	5000		
KWTO Springfield, Mo.	5000		KIIX Ft. Collins, CO	1000d	KWRO Coquille, Ore.	5000d		WWR Kansas City, Mo.	1000		
KMTN Great Falls, Mont.	5000		WICC Bridgeport, Conn.	1000	WEJL Scranton, Pa.	5000		WOR New York, N.Y.	5000		
WKL Elizabeth, N.Y.	1000		WPNQ Jacksonville, Fla.	5000	KWRO Providence, R.I.	5000		WZOO Asheville, N.C.	1000d		
WFIL Philadelphia, Pa.	1000		WMT Cedar Rapids, Iowa	5000	KMCR San Antonio, Tex.	1000d		WEGG Rose Hill, N.C.	250d		
WIR Columbia, S.C.	5000		WFCO New Orleans, La.	1000d	KGXX Salt Lake City, Utah	5000		WKJB Mayaguez, P.Rio	1000		
WHBO Memphis, Tenn.	5000		WFST Caribou, Maine	5000d	KSON Edmonds, Wash.	5000		WTR Memphis, Tenn.	250d		
KLVI Beaumont, Tex.	5000		WCAO Baltimore, Md.	5000	KZUN Opportunity, WA	1000d		KGNC Amarillo, Tex.	1000		
KPO Wenatchee, Wash.	5000		WBDN Escanaba, Mich.	1000d	640—468.5		KURY Edinburg, Tex.	250			
WJLS Beckley, W.Va.	5000		WTAC Flint, Mich.	1000d	KFI Los Angeles, Calif.	5000		WQBX Blacksburg VA	5000		
570—526.0			KCEP Kallispeil Mont.	1000	Woi Ames, Iowa	5000d		KIRO Seattle, Wash.	5000		
WAAX Gadsden AL	5000r		WVCP Murphy, N.C.	1000d	WHAO Akron, O.	1000d		WDSM Superior, Wis.	5000		
KCNO Alturas, Cal.	5000d		WSJS Winston-Salem, N.C.	5000	WNAO Norman, Okla.	1000d		720—416.4			
KLAC Los Angeles, Calif.	5000d		KSJB Jamestown, N.D.	5000	650—461.3		KOTZ Kotrebus AK	5000			
WF3D Pinellas Park, Fla.	5000		WSOM Salem, Ohio	500d	KYAK Anchorage AK	5000r	KUAI Elele, Hawaii	5000			
WACL Waycross, Ga.	5000		WFRM Coudersport, Pa.	1000d	KORL Honolulu, Hawaii	1000	WGN Chicago, Ill.	5000			
KYXK Paducah, Ky.	1000		WAEL Mayaguez, P.R.	1000	WQBS San Juan, P.R.	1000	KQRX Las Vegas NV	5000			
WVMI Bixey, Miss.	5000		WREC Memphis, Tenn.	5000	WSM Nashville, Tenn.	5000					
KGRT Las Cruces, N.Mex.	1000d		KROB Paso Del, Tex.	5000	KIKK Pasadena, Texas	250d					
WMCA New York, N.Y.	5000		KERB Kermit, Tex.	1000	660—454.3						
WSYR Syracuse, N.Y.	5000		KTBB Tyler, Tex.	1000	KFAR Fairbanks AK	10000					
WWNC Asheville, N.C.	5000		WVAR Richwood, W.Va.	1000d	KOWH Omaha, Neb.	1000					
WLE Raleigh, N.C.	5000		610—491.5		WNBC New York, N.Y.	5000					
WGBN Youngstown, Ohio	5000		WGSN Birmingham AL	5000r	WEC Greenville, S.C.	1000d					
WNAK Yankton, S.Dak.	5000		KAVL Lancaster, Calif.	1000	KSKY Dallas, Tex.	1000d					
WFAX Dallas-Ft. Worth TX	5000		KFRG San Francisco, Calif.	5000	670—447.5						
KLUB Salt Lake City, Utah	5000		WTOR Torrington, Conn.	1000	KBOI Boise, Idaho	5000					
KVI Seattle, Wash.	5000		WIOD Miami, Fla.	5000	WMAQ Chicago, Ill.	5000					
WMAW Marinette WI	250r		WVIO Pensacola FL	5000	680—440.9						
580—516.9			WCEH Hawkinsville, Ga.	5000	KNBR San Francisco, Cal.	5000					
WBIL Tuskegee AL	500d		KNAH Agana, Guam	1000	WBSA St. Petersburg, Fla.	1000d					
KYUK Bethel AK	5000d		WRUS Russellville, Ky.	5000							
			KDAL Duluth, Minn.	5000							
			WDAF Tampa City, Me.	5000							
			KOJM Havre, Mont.	1000							
			KCSR Chadron, Nebr.	1000d							
			WGR Manchester, N.H.	5000							
			KGGM Albuquerque, N.Mex.	5000							

kHz	Wave Length	W.P.	kHz	Wave Length	W.P.	kHz	Wave Length	W.P.	kHz	Wave Length	W.P.
1050—285.5			1080—277.6			1120—267.7			KCCT Corpus Christi, Tex. 1000d KIZZ El Paso, Tex. 1000d KVLV Highland Park, Tex. 1000d KRCB Midland, Tex. 5000d KPWG Port Neches, Tex. 5000d KOLI Quannah, Tex. 5000d KBER San Antonio, Tex. 1000d KPUL Pullman, Wash. 1000d KAYU Seattle, Wash. 5000d WABW Deerfield, Va. 5000d WECW Welch, W. Va. 1000d WYNE Appleton, Wisc. 1000d WAXX Chippewa Falls, Wis. 5000d		
WRFS Alexander City, Ala. 1000d WCRI Scottsboro AL 250d KMVO Little Rock AR 1000d KTOT Big Bear Lakes, Cal. 1000d KOFY San Mateo, Calif. 1000d KW50 Wasco, Calif. 1000d WJBS Crestview, Fla. 1000d WHBO Tampa, Fla. 250d WAUG Augusta, Ga. 5000d WMNZ Montezuma, Ga. 1000d WDJ Decatur, Ill. 1000d WTCG Plymouth, Ind. 250d KUPK Garden City, Kan. 5000d WNES Central City, Ky. 500d KLPL Lake Providence, La. 250d KPVI Villa Platte, LA 250d WMSG Oakland, Md. 1000d WGAY Silver Spring MD 5000d WPCG Ann Arbor, Mich. 1000d KLOH Pipestone, Minn. 1000d WACR Columbus, Miss. 1000d KMIS Portageville, Mo. 1000d KSIS Sedalia, Mo. 1000d WBNC Conway, N.H. 1000d WSCV Peterborough, N.H. 1000d WSEN Baldwinville, N.Y. 1000d WYBG Massena, N.Y. 1000d WHN New York, N.Y. 5000d WFCF Franklin, N.C. 1000d WLON Lincolnton, N.C. 1000d WGGP Sanford, N.C. 1000d WZIP Cincinnati, Ohio 1000d KCCO Lexington, Okla. 1000d KFMJ Tulsa, Okla. 1000d KORE Eugene, Ore. 1000d WBUS Butler, Pa. 250d WSKE Everett, Pa. 1000d WLYG Williamsport, Pa. 1000d WCGB Pottsville, Pa. 1000d WSMT Sparta, Tenn. 1000d KIXS Killen TX 250d KPXE Liberty, Tex. 250d KCAS Slaton, Tex. 250d WGAT Gate City, Va. 1000d WBRG Lynchburg, Va. 1000d WCMS Norfolk, Va. 1000d KBLE Seaside WA 5000d WCEF Parkersburg, W.Va. 5000d WOKI Eau Claire, Wis. 1000d WKAU Kaukauna, Wis. 1000d WLIP Kenosha, Wis. 1000d KWIV Douglas, Wyo. 250d	WKAC Athens AL 50000d KSGI Santa Cruz, Calif. 1000d WVIC Hartford, Conn. 5000d WCGC Coral Gables, Fla. 1000d WFIV Kissimmee, Fla. 5000d WJOE Port St. Joe, Fla. 1000d WBIE Marietta, Ga. 1000d KHAI Honolulu HI 1000d WFOI Pontiac, Ill. 1000d WNWJ Valparaiso, IN 5000d KOAK Red Oak, Iowa 1000d WKLO Louisville, Ky. 1000d WOAP Owosso, Mich. 1000d WCEP Carthage, Miss. 250d KGCL East Prairie, Mo. 250d WUFO Amherst, N.Y. 1000d WEWO Laurinburg, N.C. 5000d WKXC Lenox NC 1000d WWDR Murfreesboro, N.C. 1000d KNDK Langdon, N.D. 1000d WMYR Sidney, N.D. 5000d KWJL Juntura, Oreg. 5000d WEEP Pittsburgh, Pa. 5000d WLEY Cayce, P.R. 250d KRLD Dallas, Tex. 5000d WKBY Chatham, Va. 1000d WPNS Hurricane, W.Va. 1000d	KRDU Dinuba, Calif. 1000d K800 San Diego, Cal. 5000d WPLR Bartow, Fla. 1000d WNRJ Gainesville, GA 1000d WMGA Moultrie, Ga. 1000d KLEI Kailua, Hawaii 1000d WCMC Brazil, Ind. 500d KLEY Wellington, Kan. 250d KWKH Shreveport, La. 5000d WCAR Dearborn, Mich. 5000d WDCY Minneapolis, Minn. 5000d KBLR Bolivar, Mo. 250d WNEW New York, N.Y. 5000d WPYB Benson, N.C. 1000d WCBX Eden, N.C. 1000d WGTB Eaton OH 5000d WABP Brownsville PA 5000d WEEQ Waynesboro PA 250d WAMG Gallatin, Tenn. 1000d WDTM Selmer, Tenn. 250d KWBV Edna TX 1000d WBSH Memphis, Tex. 1000d WIGN Milwaukee, Wis. 5000d	1130—265.3 1160—258.5 1170—256.3 WCOV Montgomery AL 1000d KJNP North Pole AK 5000d KCQB San Diego, Calif. 5000d KLOS San Jose, Cal. 5000d KPAD Windsor, Colo. 1000d WSNK Cummins, Ga. 1000d KOHO Honolulu, Hawaii 1000d WLBN Mattoon, IL 5000d KSTY Davenport, Iowa 1000d WVLC Orleans, Mass. 1000d KOWO Waseca, MN 1000d WJAS Jackson MO 250d WHLW Lakewood, N.J. 5000d WLEE Cornwall, N.Y. 1000d WBRW Somerville NJ 1000d WMMV Mechanville, N.Y. 250d KV00 Tulsa, Okla. 5000d KCON Poncha Spr. 250d KPUG Portland, Wash. 5000d WVVA Wheeling, W.Va. 5000d WLKE Waupun, Wis. 1000d								
1060—282.8			1090—275.1			1140—263.0			1180—254.1		
KUPD Tempe AZ 500d KPAY Chico, Calif. 1000d KLRG Longmont, Colo. 1000d WRFM Titusville FL 1000d WRML McLeansboro, Ill. 250d WHCL Rochelle, Ill. 250d WJKY Jamestown, Ky. 1000d WNOE New Orleans LA 5000d WCTR Natick, Mass. 1000d WHFB Benton Harbor, Mich. 5000d WBMB West Branch MI 1000d WJL Tupelo MS 500d KBUG Springfield MO 1000d KNLV Ord, Neb. 1000d WQWX Mebane NC 1000d WMAP Monroe, N.C. 1000d WLAB St. Pauls NC 250d WCOK Sparta, N.C. 250d W10 Canton, Ohio 5000d KYW Philadelphia, Pa. 5000d WLD Waterboro, S.C. 1000d KGFX Pierre, S.D. 1000d WPHC Waverly, Tenn. 1000d KAMA El Paso TX 5000d KHYM Gilmer TX 5000d KHRB Lockhart, Tex. 1000d KRSP Salt Lake City, Utah 1000d	KAAV Little Rock AR 5000d KNCR Fertuna, Cal. 1000d KAAT Denver CO 5000d WQJK Jacksonville, Fla. 5000d WQSD Monticello, Fla. 1000d WBAF Barnesville, Ga. 1000d WCRF Eritham, Ill. 1000d WGLC Elmhurst, Ill. 250d KHAI Honolulu, Hawaii 5000d WFWR Fort Wayne, Ind. 1000d KVDB Sioux Center, Iowa 500d KNWS Waterloo, Iowa 1000d WSLG Donaldsonville, La. 500d WBAI Baltimore, Md. 1000d WILD Boston, Mass. 1000d WMUS Muskegon, Mich. 1000d WILD Garden City, Mich. 250d KEXS Excelsior Springs, Mo. 250d WKTE King, N.C. 1000d WTGO Tupelo, N.D. 250d WMMW Wilmington, D. 1000d WRSG San Gernap, P.R. 250d WMTY Greenville SC 1000d WKSP Kingstree, S.C. 5000d WBZB Selma, N.C. 1000d WENR Englewood, Tenn. 1000d WJKM Hartsville, Tenn. 250d WGOE Kingsport TN 1000d KANN Ogden, Utah 1000d KING Seattle, Wash. 5000d WISS Berlin, Wis. 500d	WGEA Geneva AL 1000d WJRD Tuscaloosa AL 5000d KCKY Colloidge AZ 1000d KXLR North Little Rock AR 5000d KIIS Los Angeles CA 5000d KBAY Morro Bay, Calif. 5000d KPLS Santa Rosa, Calif. 5000d KGMC Englewood CO 5000d WCNX Middleton, Conn. 1000d WDEL Wilmington, Del. 5000d WDNB Daytona Sch., Fla. 1000d WTPW Tampa, Fla. 5000d WFFM Fort Valley, Ga. 1000d WJEM Valdosta, Ga. 1000d WGGH Marion, Ill. 5000d WYFE Rockford, Ill. 1000d KKUZ Burlington, Iowa 5000d KWKY Des Moines, Iowa 1000d KSAI Salina, Kans. 5000d WMST Mt. Sterling, Ky. 500d WLOC Munfordville, Ky. 1000d WJBO Baton Rouge, La. 5000d WSKW Skowhegan ME 1000d WHMC Gaithersburg MD 1000d WCOP Boston, Mass. 5000d WCNM Mt. Pleasant, Mich. 1000d KASM Albany, Minn. 1000d KRMS Osage Beach, Mo. 1000d KSEN Shelby, Mont. 5000d KDEF Albuquerque, N. M. 5000d WRUU Utica, N.Y. 5000d WBAG Burlington, N.C. 1000d WGBR Goldsboro, N.C. 5000d WCUE Cuyahoga Falls, Ohio 1000d WIMA Lima, Ohio 1000d KNEB McAlester, Okla. 1000d KAGO Klamath Falls, Oreg. 5000d KKEY Portland, Ore. 5000d WHON Huntington, Pa. 5000d WYNS Leighton, Pa. 1000d WKPA New Kensington, Pa. 1000d WDXJ Orangeburg, S.C. 5000d WTYC Rock Hill, S.C. 1000d WSNM Seneca, S.C. 1000d KINM Rapid City, S. Dak. 5000d WGWQ Chattanooga, Tenn. 5000d WCRK McMinn, Tenn. 1000d WTAW College Station, Tex. 1000d	WLDS Jacksonville, Ill. 1000d KOFI Kallispell, Mont. 5000d WHAM Rochester, N.Y. 5000d WYD Ozark AL 1000d RDS Tolleson AZ 250d KMCHW Augusta AR 250d KEZY Anselm, Calif. 5000d MNBA Vallejo CA 1000d KADE Boulder CO 5000d WAYS Ft. Lauderdale FL 1000d WCKA Atlanta, Ga. 1000d WQWD Ft. Wayne, Ind. 5000d WANN Annapolis, Md. 1000d WKOX Framingham, Mass. 1000d WUPJ Bay St. Louis MS 5000d KHAD DeSoto, Mo. 1000d K400 Komo City MO 1000d KPAR Albuquerque, N. M. 1000d WL1B New York, N.Y. 1000d WSMI Graham, N.C. 500d WIXE Monroe, N.C. 500d KEX Portland, Oreg. 5000d WRAI Rio Piedras, P.R. 500d WJNJ San Juan, P.R. 1000d KLIF Dallas, Tex. 5000d WCGA Chattanooga TN 250d WAMB Donelson, Tenn. 500d WHMT Humboldt TN 500d								
1100—282.8			1130—272.6			1160—267.7			1200—249.9		
KUPD Tempe AZ 500d KPAY Chico, Calif. 1000d KLRG Longmont, Colo. 1000d WRFM Titusville FL 1000d WRML McLeansboro, Ill. 250d WHCL Rochelle, Ill. 250d WJKY Jamestown, Ky. 1000d WNOE New Orleans LA 5000d WCTR Natick, Mass. 1000d WHFB Benton Harbor, Mich. 5000d WBMB West Branch MI 1000d WJL Tupelo MS 500d KBUG Springfield MO 1000d KNLV Ord, Neb. 1000d WQWX Mebane NC 1000d WMAP Monroe, N.C. 1000d WLAB St. Pauls NC 250d WCOK Sparta, N.C. 250d W10 Canton, Ohio 5000d KYW Philadelphia, Pa. 5000d WLD Waterboro, S.C. 1000d KGFX Pierre, S.D. 1000d WPHC Waverly, Tenn. 1000d KAMA El Paso TX 5000d KHYM Gilmer TX 5000d KHRB Lockhart, Tex. 1000d KRSP Salt Lake City, Utah 1000d	KFAV San Francisco, Calif. 5000d KREX Grand Junction, Colo. 5000d WLBB Carrollton, Ga. 5000d WHYT Noblesville IN 1000d WGRG Pittsfield MA 1000d KCIA Humble, City AM 1000d WHLH Hudsstadt, N.Y. 5000d WYVE Cleveland OH 5000d WGPA Bethlehem, Pa. 250d WUAT Pikeville TN 1000d	WGEA Geneva AL 1000d WJRD Tuscaloosa AL 5000d KCKY Colloidge AZ 1000d KXLR North Little Rock AR 5000d KIIS Los Angeles CA 5000d KBAY Morro Bay, Calif. 5000d KPLS Santa Rosa, Calif. 5000d KGMC Englewood CO 5000d WCNX Middleton, Conn. 1000d WDEL Wilmington, Del. 5000d WDNB Daytona Sch., Fla. 1000d WTPW Tampa, Fla. 5000d WFFM Fort Valley, Ga. 1000d WJEM Valdosta, Ga. 1000d WGGH Marion, Ill. 5000d WYFE Rockford, Ill. 1000d KKUZ Burlington, Iowa 5000d KWKY Des Moines, Iowa 1000d KSAI Salina, Kans. 5000d WMST Mt. Sterling, Ky. 500d WLOC Munfordville, Ky. 1000d WJBO Baton Rouge, La. 5000d WSKW Skowhegan ME 1000d WHMC Gaithersburg MD 1000d WCOP Boston, Mass. 5000d WCNM Mt. Pleasant, Mich. 1000d KASM Albany, Minn. 1000d KRMS Osage Beach, Mo. 1000d KSEN Shelby, Mont. 5000d KDEF Albuquerque, N. M. 5000d WRUU Utica, N.Y. 5000d WBAG Burlington, N.C. 1000d WGBR Goldsboro, N.C. 5000d WCUE Cuyahoga Falls, Ohio 1000d WIMA Lima, Ohio 1000d KNEB McAlester, Okla. 1000d KAGO Klamath Falls, Oreg. 5000d KKEY Portland, Ore. 5000d WHON Huntington, Pa. 5000d WYNS Leighton, Pa. 1000d WKPA New Kensington, Pa. 1000d WDXJ Orangeburg, S.C. 5000d WTYC Rock Hill, S.C. 1000d WSNM Seneca, S.C. 1000d KINM Rapid City, S. Dak. 5000d WGWQ Chattanooga, Tenn. 5000d WCRK McMinn, Tenn. 1000d WTAW College Station, Tex. 1000d	WDOI San Antonio, Tex. 5000d W210—247.8 K200 Honolulu, Hawaii 1000d W1LY Centralia, Ill. 1000d WKNX Saginaw, Mich. 1000d WADE Wadesboro, N.C. 1000d WAWI Dayton, Ohio 250d KGYN Guyman, Okla. 1000d WCAU Pottsville, Pa. 5000d WHOY Salinas, P.R. 1000d								
1070—280.2			1110—270.1			1140—263.0			1220—245.8		
WAPI Birmingham AL 5000d KNX Los Angeles, Calif. 5000d WIBC Indianapolis, Ind. 5000d KILR Estherville, Iowa 250d KFDI Wichita, Kans. 1000d KHMO Hannibal, Mo. 5000d WKMB Striving NJ 5000d WKDR Plattsburgh, N.Y. 5000d WNCY Greenville, N.C. 1000d WPEE High Point, N.C. 1000d WKOK Sunbury, Penn. 1000d WMIA Arcobio, P.R. 500d WHYZ Greenville, S.C. 5000d WFLI Lookout Mountain-Chattanooga TN 5000d WDLA Memphis, Tenn. 5000d KOPY Alice, Tex. 1000d KNNN Friona, Tex. 250d KENR Houston, Tex. 1000d WINA Charlottesville, Va. 5000d WCIR Beekley, W.Va. 1000d WTSO Madison, Wisc. 1000d	WBCA Bay Minnetta AL 1000d W81B Centerville AL 1000d WRLA Pasadena, Cal. 5000d KP0P Roseville, Cal. 5000d WQYK Tampa FL 1000d WEBS Calhoun, Ga. 250d WMBI Chicago, Ill. 5000d WHYT Noblesville IN 1000d WCRG Richmond KY 250d WGBR Pittsfield, MA 1000d WJMN Mason, Mich. 250d WUNL Petoskey, Mich. 1000d WKRA Holly Springs, Miss. 1000d KFAB Omaha, Neb. 1000d WFLA Hudsstadt, N.Y. 5000d W5FW Seneca Falls, N.Y. 1000d WHTB Warwick NY 250d WBT Charlotte, N.C. 5000d WELX Xenia, Ohio. 250d KEDR Atoka, Okla. 1000d KBNB Canton, Oreg. 1000d WJSM Martinsburg, Pa. 1000d WNAF Norristown, Pa. 5000d WVJP Capuas, P.R. 250d WHIM Providence, R.I. 1000d W8LV Ardmore, Tenn. 1000d KDRY Alamog Heights, Tex. 1000d WZAM Norfolk, Va. 1000d	WGEA Geneva AL 1000d WJRD Tuscaloosa AL 5000d KCKY Colloidge AZ 1000d KXLR North Little Rock AR 5000d KIIS Los Angeles CA 5000d KBAY Morro Bay, Calif. 5000d KPLS Santa Rosa, Calif. 5000d KGMC Englewood CO 5000d WCNX Middleton, Conn. 1000d WDEL Wilmington, Del. 5000d WDNB Daytona Sch., Fla. 1000d WTPW Tampa, Fla. 5000d WFFM Fort Valley, Ga. 1000d WJEM Valdosta, Ga. 1000d WGGH Marion, Ill. 5000d WYFE Rockford, Ill. 1000d KKUZ Burlington, Iowa 5000d KWKY Des Moines, Iowa 1000d KSAI Salina, Kans. 5000d WMST Mt. Sterling, Ky. 500d WLOC Munfordville, Ky. 1000d WJBO Baton Rouge, La. 5000d WSKW Skowhegan ME 1000d WHMC Gaithersburg MD 1000d WCOP Boston, Mass. 5000d WCNM Mt. Pleasant, Mich. 1000d KASM Albany, Minn. 1000d KRMS Osage Beach, Mo. 1000d KSEN Shelby, Mont. 5000d KDEF Albuquerque, N. M. 5000d WRUU Utica, N.Y. 5000d WBAG Burlington, N.C. 1000d WGBR Goldsboro, N.C. 5000d WCUE Cuyahoga Falls, Ohio 1000d WIMA Lima, Ohio 1000d KNEB McAlester, Okla. 1000d KAGO Klamath Falls, Oreg. 5000d KKEY Portland, Ore. 5000d WHON Huntington, Pa. 5000d WYNS Leighton, Pa. 1000d WKPA New Kensington, Pa. 1000d WDXJ Orangeburg, S.C. 5000d WTYC Rock Hill, S.C. 1000d WSNM Seneca, S.C. 1000d KINM Rapid City, S. Dak. 5000d WGWQ Chattanooga, Tenn. 5000d WCRK McMinn, Tenn. 1000d WTAW College Station, Tex. 1000d	W210—247.8 K200 Honolulu, Hawaii 1000d W1LY Centralia, Ill. 1000d WKNX Saginaw, Mich. 1000d WADE Wadesboro, N.C. 1000d WAWI Dayton, Ohio 250d KGYN Guyman, Okla. 1000d WCAU Pottsville, Pa. 5000d WHOY Salinas, P.R. 1000d								

SPRING-SUMMER, 1974

*Letter to my Fulfillment
 "Great to my Fulfillment"
 "The Joyful Sound"
 Box 223 LA. 90053*

WHITE'S RADIO LOG

kH _z	Wave Length	W.P.	kH _z	Wave Length	W.P.	kH _z	Wave Length	W.P.
WBVI Bedford, Ind.		1000	KAPA Raymond, Wash.		1000	KLRS Mountkirk Grove, Mo.		1000d
WTRC Elkhart Ind.		1000r	KMEL Wenatchee Wa.		1000r	KIXC McCook, Nebr.		1000d
WLBC Muncie, Ind.		1000	WHAR Clarksburg, W.Va.		1000	WNNJ Newton, N.J.		1000d
KROS Clinton, Iowa		1000	WPEM Martinsburg, W.Va.		1000	WBWZ Vineland, N.J.		1000
WGOM Kansas City, Kans.		1000	WMOG Montgomery, W.Va.		1000	WKOP Binghamton, N.Y.		5000
KSEK Pittsburg, Kans.		1000	WEEE Wheeling, W. Va.		1000	WJMS Glen, N.Y.		1000d
WCMJ Ashland, Ky.		1000	WLDY Ladysmith, Wis.		1000	WCHL Chester Hill, N.C.		1000
WBGW Bowling Green, Ky.		1000	WRIT Milwaukee, Wis.		1000	WEAZ Williston, N.D.		5000
WNBS Murray, Ky.		1000	KSGT Jackson, Wyo.		1000	KY51 Cincinnati, Ohio		5000
WEKY Richmond, Ky.		1000	KVCN Wheatland, Wyo.		250	WOWW Conneaut, Ohio		5000
WRBQ Bristow, La.		1000	KWOR Worland, Wyo.		1000	KOHU Hermiton, OR		1000d
KRMD Shreveport, La.		1000				KUIK Hillsboro, Oreg.		1000d
WFAU Augusta, Maine		1000				WMEK Mekeessport, Pa.		5000d
WDMC Dover-Foxcroft, ME		1000				WPPA Pottsville, Pa.		5000
WYOU Houlton, Maine		1000				WELP Easley, S.C.		1000d
WBAW Gardner, Mass.		1000				WLMC Lancaster, S.C.		1000d
WNBW New Bedford, Mass.		1000				WBLH Lenor City, Tenn.		1000d
WBRK Pittsfield, Mass.		1000				WNBK Nashville, Tenn.		1000d
WLEW Bad Axe, Mich.		1000				KWCT Amarillo, Tex.		500d
WLAV Grand Rapids, Mich.		1000				KABA Baytown, Tex.		1000
WCSR Hillsdale, MI		1000				KRYS Corpus Christi, Tex.		1000
WMTA Manistee, Mich.		1000				KXOL Ft. Worth, Tex.		5000
WAGN Menominee, Mich.		1000				WBOB Galax, Va.		1000d
WMBN Petoskey, Mich.		1000				WHBG Harrisonburg, Va.		5000d
WEXL Royal Oak, Mich.		1000				KFDR Gran Conoco, Wash.		1000d
KVBR Braidner, Minn.		1000				KMO Tacoma, Wash.		5000
KDLM Detroit Lakes, Minn.		1000				WHJC Matewan, W.V.		1000d
WEME Eveleth, Minn.		1000				WMOV Ravenswood, Va.		1000d
WRWE Elk River, Minn.		1000				WBYB Green Bay, Wis.		5000
KWLM Willowbar, Minn.		1000				WVIR Viroqua, Wis.		1000
WJMB Brookhaven, Miss.		1000				WMNE Madison, Wis.		1000d
WAML Laurel, Miss.		1000				KVRS Rock Springs, Wyo.		1000
WKOZ Kosciusko, Miss.		1000d						
KXEO Mexico, Mo.		1000						
WLID Potosi, Bluff, Mo.		1000						
KSMO Salem, Mo.		1000						
KICK Springfield, Mo.		1000						
KCAP Helena, Mont.		1000						
KPKR Livingston, Mont.		1000						
KATL Miles City, Mont.		1000						
KYUT Missoula, Mont.		1000						
KHUB Fremont, Nebr.		500						
KGFV Kearney, Nebr.		500						
KSID Sidney, Nebr.		500						
KRAM Las Vegas, Nev.		1000						
WETA Reno, Nev.		1000						
WDMR Henderson, N.H.		1000						
WMD Atlantic City, N.J.		1000						
KHAP Aztec, N.M.		5000d						
KRRR Ruidoso, N.M.		5000d						
KKIT Tros, N.Mex.		250						
SIL Silver Star, Mex		1000						
WBRD Auburn, N.Y.		1000						
WENT Gloversville, Johnston NY		1000r						
WKNJ Jamestown, N.Y.		250						
WUSJ Lockport, N.Y.		1000r						
WMSA Massena, N.Y.		1000						
WALL Middleton, N.Y.		1000						
WIRY Plattsburgh, N.Y.		1000						
WJRI Lenoir, N.C.		1000						
WTSB Lumberton, N.C.		1000						
WCQB Oxford NC		1000r						
WDOE Highlands, N.C.		1000						
WGNJ Wilmington, N.C.		1000						
WAIR Winston-Salem, N.C.		1000						
KGPC Grafton, N.Dak.		1000						
WNCO Ashland, O.		1000						
WDUB Athens, Ohio		250						
WIZC Springfield, Ohio		1000						
WSTV Staubeck, Ohio		1000						
KIHN Hoo, Okla.		1000						
KOCY Okla. City, Okla.		1000						
KTOW Sand Springs, Okla.		500						
KLOO Corvallis, Ore.		1000						
KWRB Corvallis, Ore.		250						
KIHR Hood River, Ore.		1000						
KBBR N. Bend, Ore.		1000						
WCVI Connellsville, Pa.		1000						
WSAJ Grove City, Pa.		1000						
WKAZ Oil City, Pa.		1000						
KRAT Philadelphia, Pa.		1000						
WRAW Reading, Pa.		1000						
WTRN Tyrone, Pa.		1000						
WBRE Wilkes-Barre, Pa.		1000						
WPPA Williamsport, Pa.		1000						
WUNA Aquadilla, P.R.		250						
WOKC Hialeah, S.C.		1000						
WRHI Rock Hill, S.C.		1000						
WUSC Sumter, S.C.		1000						
KIJJ Huron, S.D.		1000						
KRSB Rapid City, S.Dak.		1000						
WBAC Cleveland, Tenn.		1000						
WKRK Columbia, Tenn.		1000						
WGRV Knoxville, Tenn.		1000						
WKGN Greeneville, Tenn.		1000						
WLCK Memphis, Tenn.		1000						
WCDT Winchester, Tenn.		1000						
WKWC Chicago, Tex.		1000						
KHLB Burnett, Tex.		1000						
KAND Corsicana, Tex.		1000						
KSET El Paso, Tex.		1000						
KLKB Lubbock, Tex.		1000						
KRBA Lufkin, Tex.		1000						
KRDN Pampa, Tex.		1000						
KOLE Port Arthur, TX		1000						
KTED San Angelo, Tex.		1000						
KVIC Victoria TX		250						
WTWN St. Johnsburg, Vt.		1000						
WKTY Charlotte Amalie, V.I.		250						
WKLY Covington, Va.		1000						
WJAP Hopewell, Va.		1000						
WMA Orange, Va.		1000						
KAGT Anacortes, Wash.		1000						
KSMK Kennewick, Wash.		1000						
KAPA Raymond, Wash.		1000						
KMEL Wenatchee Wa.		1000r						
WHAR Clarksburg, W.Va.		1000						
WPEM Martinsburg, W.Va.		1000						
WMOG Montgomery, W.Va.		1000						
WEEE Wheeling, W. Va.		1000						
WLDY Ladysmith, Wis.		1000						
WRIT Milwaukee, Wis.		1000						
KSGT Jackson, Wyo.		1000						
KVCN Wheatland, Wyo.		250						
KWOR Worland, Wyo.		1000						

United States AM Stations by Location

Location	C.L. kHz	Location	C.L. kHz	Location	C.L. kHz	Location	C.L. kHz
Abbeville AL	WARI 1480	Amherst, N.Y.	WUFD 1080	Atlantic Beach, Fla.	WUNJ 1600	Bay City, Mich.	WBCM 1440
Abbeville, La.	KROF 960	Amite, La.	WABL 1570	Atlantic City, N.J.	WFFG 1450	Bay City, Tex.	WXOX 1270
Abbeville, S.C.	WABY 1590	Amory, Miss.	WAMY 1500		WMID 1340	Bay Minnetta AL	WOCI 1110
Aberdeen, Md.	WAMD 970	Amsterdam, N.Y.	WKOL 1570	Atmore AL	WATM 1580	Bayamon, P.R.	WLUI 1600
Aberdeen, Miss.	WMPA 1240		WCBS 1490	Atoka, Okla.	KEOR 1110	Beaumont, P.R.	WRSJ 1580
Abedreen, S.Dak.	KBDN 930	Anaconda, Mont.	KANA 580	Attleboro, Mass.	WARA 1220	Bay St. Louis MS	WPUP 1190
	KABR 1420	Anaerotes, Wash.	KAGT 1340	Auburn AL	WAUA 1320	Bay Springs, Miss.	WHII 1570
Aberdeen, Wash.	KBKW 1450	Anadarko, Ok.	KRPT 850	Auburn, Calif.	KAHI 950	Baytown, Tex.	KWBA 1380
	KXRO 1320	Anaheim, Calif.	KEZY 1190	Auburn, Ind.	WIFF 1570	Beacon, N.Y.	WBNR 1280
Abilene, Tex.	KBBC 1470	Anchorage AK	KBYP 700	Auburn, Me.	WPND 1530	Beaumont, N.C.	KBWE 1450
	KCAD 1560		KFQD 750	Auburn, N.Y.	WMB0 1340	Beaufort, N.C.	WBMA 1400
	KNIT 1280		KENI 550	Auburn, Wash.	WAUB 1500	Beaufort, S.C.	WBUE 960
	KWKK 1340		KHAR 590	Auburn, Wash., Fla.	WTWB 970	Beaufort, S.C.	WBIB 1490
Abilene, Kans.	KABI 1560	Andalusia AL	KYAK 650	Augusta, Ga.	WUWG 1050	Beaumont, Tex.	KLVI 580
Abingdon, Va.	WBBI 1230		WCTA 920		WBBQ 1340		KAYC 1450
Ada, Okla.	KADA 1230	Anderson Ind.	WAA0 1530	Augusta AR	WBBQ 1340		KJET 1380
Adel, Ga.	WBAT 1470		WHU0 1470		KMCW 1190		KTRM 990
Adrian, Mich.	WABJ 1490	Anderson, S.C.	WAIM 1230		WBI3 2330		KBVE 1430
Agana, Guam	KNAH 610		WANS 1280		WACG 580		WBVP 1230
Aguadilla, P.R.	WABA 850	Andrews, Texas	WACT 1350		WRD0 1480		WJLS 560
	WGRF 1340	Annapolis, Md.	WANN 1190	Augusta, Maine	WTHB 1550		WWRN 1400
Ahosekie, N.C.	WRCG 970		WYRE 810		WRDD 1460		WFAU 1340
Aiken, S.C.	WAKN 990	Ann Arbor, Mich.	WNAV 410		WFAU 1340		K081 1430
	W300 1300		WAAM 1800		WFAU 1340		K081 1430
Ainsworth, NE	KBRB 1400	Ann Arbor, Mich.	WPAG 1050	Aurora, Colo.	K081 1430		K081 1430
Altair, Minn.	KKIN 930	Anna, Ill.	WRAJ 1440	Aurora, Ill.	WVFR 1580		WVFR 1580
Akron, Ohio	WAKR 1590	Anniston AL	WANA 1490	Aurora, Me.	KQSW 940		KQSW 940
	WSLR 1350		WDNG 1450	Austell, Ga.	WACW 1600		WACW 1600
	WCU0 1150		WHMA 1390	Austin, Minn.	KAUS 1480		KAUS 1480
	WHL0 840	Annville-Cleona, Pa.	WAHT 1510	Austin TX	KQQA 970		KQQA 970
	KALR 1230		KANO 1470		KNOW 1490		KNOW 1490
	KINN 1270	Anoka, Minn.	WAD5 890		KNOW 1490		KNOW 1490
Alamo Heights, Tex.	KDRI 1110	Ansonia, Conn.	WAD3 890		KNOW 1490		KNOW 1490
Alamosa Colo.	KGIW 1450	Antigo, Wis.	WATK 900		KNOW 1490		KNOW 1490
Albany, Ga.	WALG 1590	Applow, Pa.	WATL 910		KNOW 1490		KNOW 1490
	WJAZ 960	Apple, Fla.	WTLN 1520		KNOW 1490		KNOW 1490
	WJEP 1250	Apple Valley, Cal.	KAVR 960		KNOW 1490		KNOW 1490
	WJPC 1450	Appleton, Wis.	WAPL 1570		KNOW 1490		KNOW 1490
	WJAZ 960		WHBY 1230		KNOW 1490		KNOW 1490
Albany, Ky.	WANY 1390		WYNE 1150		KNOW 1490		KNOW 1490
Albany, Minn.	KBSM 1350	Aquadilla, P. R.	WUNA 1340		KNOW 1490		KNOW 1490
Albany, N.Y.	WABY 1400	Arab AL	WRAB 1380		KNOW 1490		KNOW 1490
	WK0K 1460	Arcadia Fla.	WAPG 1480		KNOW 1490		KNOW 1490
	WPRF 1540	Arcata, Calif.	KATA 1340		KNOW 1490		KNOW 1490
	WROW 590	Ardmore, Okla.	KVSO 1240		KNOW 1490		KNOW 1490
Albany, Dreg.	WKIL 790	Ardmore Tenn.	WVSL 1110		KNOW 1490		KNOW 1490
	KRKT 990	Arecibo, P.R.	WCNN 1280		KNOW 1490		KNOW 1490
Albermarle N.C.	WABZ 1010		WMLA 070		KNOW 1490		KNOW 1490
	WZKY 1580	Argentina, Nfld.	VOUS 1480		KNOW 1490		KNOW 1490
Albert Lea, Minn.	KATE 1450	Arkadelphia AR	KVRC 1240		KNOW 1490		KNOW 1490
Albertville, Ala.	WAYU 630		KDOV 1350		KNOW 1490		KNOW 1490
Albion, Mich.	WALM 1280	Arkan. City, Kans.	KB0K 1280		KNOW 1490		KNOW 1490
Albuquerque, N.M.	KABQ 1350	Arlington, Fla.	WKTZ 1220		KNOW 1490		KNOW 1490
	KDEF 1130	Arlington, Va.	WEAM 1390		KNOW 1490		KNOW 1490
	KGGM 610	Arroyo Grande CA	KFYV 1280		KNOW 1490		KNOW 1490
	KANX 1320	Artesia, N.M.	KSVY 990		KNOW 1490		KNOW 1490
	KKIN 1000	Arvada, Colo.	KQXI 1530		KNOW 1490		KNOW 1490
	KOB 770	Ashburn, Ga.	WNES 1570		KNOW 1490		KNOW 1490
	KPAR 1190	Asbury Park, N.J.	WJKL 1310		KNOW 1490		KNOW 1490
	KQEO 920	Asbury Park-Eatontown, N. J.	WHTG 1410		KNOW 1490		KNOW 1490
	KRZY 1450	Asheboro, N.C.	WGWR 1260		KNOW 1490		KNOW 1490
	KDAZ 730		WZ00 710		KNOW 1490		KNOW 1490
	KZL 1580	Asheville, N.C.	WISE 1310		KNOW 1490		KNOW 1490
	KRZY 1450		WKKE 1580		KNOW 1490		KNOW 1490
Aleca, Tenn.	WEAG 1470		WWSK 1230		KNOW 1490		KNOW 1490
Alexander City, Ala.			WVNW 570		KNOW 1490		KNOW 1490
Alexandria, La.	WRFS 1050	Ashland, Ky.	WCMI 1340		KNOW 1490		KNOW 1490
	KALB 980		WTGR 1420		KNOW 1490		KNOW 1490
	KDBS 1410	Ashland, Ohio	WNCO 1340		KNOW 1490		KNOW 1490
	KSYL 970	Ashland, Ohio	KCMX 580		KNOW 1490		KNOW 1490
Alexandria, Minn.	KXRA 1490	Ashland, Va.	WVIV 1430		KNOW 1490		KNOW 1490
Alexandria Va.	WPIK 790	Ashland, Wis.	WATW 1400		KNOW 1490		KNOW 1490
Algona, Iowa	KLGA 1600	Ashtabula, Ohio	WAQI 1800		KNOW 1490		KNOW 1490
Aliso, Tex.	KOPY 1070	Aspen, Colo.	KSNO 1260		KNOW 1490		KNOW 1490
Allendale, S.C.	WDGQ 1460	Astoria, Oreg.	KAST 1570		KNOW 1490		KNOW 1490
Allentown, Pa.	WHOL 1600	Atlanta, Ga.	KVRS 1230		KNOW 1490		KNOW 1490
	WAEB 790	Athens, Kan.	KARE 1470		KNOW 1490		KNOW 1490
	WKAP 1320	Athens AL	WKAC 1080		KNOW 1490		KNOW 1490
	WSAN 1470	Athens, Ga.	WGUA 1340		KNOW 1490		KNOW 1490
Alliance, Nebr.	KCOV 1400		WD0L 1470		KNOW 1490		KNOW 1490
Alliance, Ohio	WFAH 1310		WKAK 1080		KNOW 1490		KNOW 1490
Alma, Ga.	WFLA 1480		WRFK 080		KNOW 1490		KNOW 1490
Alma, Mich.	WFYC 1280		KQX1 790		KNOW 1490		KNOW 1490
Alpena Township, Mich.		Athens, Ohio	W0UB 134C		KNOW 1490		KNOW 1490
	WATZ 1450		WLAR 1450		KNOW 1490		KNOW 1490
Alpine, Tex.	KYLF 1240		WYU1 1390		KNOW 1490		KNOW 1490
Altavista, Va.	WKDE 1000		WBD 1410		KNOW 1490		KNOW 1490
Aiton, Ill.	WKDZ 1570		WPLD 690		KNOW 1490		KNOW 1490
Aitona, Man.	CFMA 1200		WIG0 1340		KNOW 1490		KNOW 1490
Aitona, Pa.	WFBB 1290		WAOK 1380		KNOW 1490		KNOW 1490
	WRTA 1240		WERD 860		KNOW 1490		KNOW 1490
	WYAM 1430		WGKA 1190		KNOW 1490		KNOW 1490
Alturas, Calif.	KCND 570		WGST 920		KNOW 1490		KNOW 1490
Alva, Okla.	KWHV 1450		WGUN 1010		KNOW 1490		KNOW 1490
Altus, Okla.	KALY 1430		WIIN 970		KNOW 1490		KNOW 1490
Amarillo, Tex.	KDDJW 1010		WXQ1 790		KNOW 1490		KNOW 1490
	KPUR 1440		WBB 750		KNOW 1490		KNOW 1490
	KGNC 710		WYZF 1490		KNOW 1490		KNOW 1490
	KIXZ 940	Atlanta-Decatur, Ga.	WGUN 1010		KNOW 1490		KNOW 1490
	KRAY 1560		KJAN 900		KNOW 1490		KNOW 1490
	KZIP 1310	Atlanta, Tex.	KJAN 900		KNOW 1490		KNOW 1490
Ambridge, Pa.	WJEL 1480	Atlantic, Iowa	KJAN 1220		KNOW 1490		KNOW 1490
Amersburg, Ga.	WDEC 1290				KNOW 1490		KNOW 1490
	WISK 1390				KNOW 1490		KNOW 1490
Ames, Iowa	KAS1 1430				KNOW 1490		KNOW 1490
	WDI 640				KNOW 1490		KNOW 1490
Amherst, Mass.	WTTY 1450				KNOW 1490		KNOW 1490
Amherst, N.S.	CKHD 1400				KNOW 1490		KNOW 1490

WHITE'S RADIO LOG

Location	C.L.	kHx	Location	C.L.	kHx	Location	C.L.	kHx
Brighton, Colo.	KBRN	800	Canton, Miss.	WMGO	1370	Chase City, Va.	WINA	1070
Brinkley AR	KBRI	1570	Canton, N.C.	WWIT	970	Chatham, Va.	WMEK	980
Bristol, Conn.	WBIS	1440		WPTL	920	Chattahoochee, Fla.	WKBY	1080
Bristol, Tenn.	WDPI	1490	Canton, D.	WHBC	1480			
	WKYE	1550		W010	1060			
	WZAP	890		WINW	1520			
	WFGG	980		WNYN	900	Chattanooga, Tenn.	WSBP	1580
Broadway-Timberville Va.	WBXT	1470	Canyon, Tex.	KCAN	1530		WMOC	1450
	WADD	1580	Cape Girardeau, Mo.	WACB	960		WDEF	1370
	WBET	1480		KZYM	1220		WDOD	1310
	WOKW	1410		KGMO	1550		WDFB	1490
Brookville, Dnt.	CFJR	1450	Carbondale, Ill.	WCIL	1020		WGBL	1190
Broken Bow, Nebr.	KCHM	1280	Carbondale, Pa.	WCOL	1440		WGOW	1370
Bronson, Mo.	KBHM	1200	Caribou, Maine	WFST	800	Cheboygan, Mich.	WCBY	1240
Brookfield, Conn.	WINE	940	Carlisle, Pa.	WHY	980	Cheektowaga, N.Y.	WNIA	1230
Brookfield, Mo.	KGHM	1470		KAVE	1000	Chehalis-Centralia, Wash.		
Brookhaven, Miss.	WCHJ	1470	Carlsbad, N.Mex.	KAYE	1240		KITI	1420
	WJMB	1340		KBAD	740	Chelan, Wash.	KOZI	1230
Brookings, Ore.	KURY	910		KCCC	930	Cheraw, S.C.	WCRE	1480
Brookings, S.Dak.	KGRK	1430	Carmel, Calif.	KRML	1410	Cherryville, N.C.	WCSL	1590
Brookline, Mass.	WNUR	1200	Carmi, Ill.	WROY	1480	Cherokee, Iowa	KCHE	1440
Brookneal, Va.	W0D1	1230	Carnegie, Pa.	WZU	1590	Chesapeake, Va.	WCPK	1600
Brooksville, Fla.	W0JB	1450	Caro, Mich.	WYQ	360	Chester, Ill.	KSGM	980
Brownfield, Tex.	KKUB	1300	Carolina PR	WVOZ	1490	Chester, Pa.	WEEZ	1590
Brownsville, Pa.	WASP	1130	Carrington, N.Dak.	KDAK	1600		W740	
Brownsville, Tenn.	KBHT	1520	Carrizo Springs, Tex.			Chester, S.C.	WGCD	1490
Brownsville, Tex.	KBOR	1600				Chester, Va.	WIKI	1410
Brownwood, Tex.	KBWD	1520	Carroll, Iowa	KCBM	1450	Chesterdown MD	WCTR	1530
	KEAN	1240	Carrollton AL	KGFM	1380		KFCB	1240
Brunswick, Ga.	WGIG	1440	Carrollton, Ga.	WLBG	1100	Cheyenne, Wyo.	KCHY	1590
	WMOG	1490	Carrollton, Mo.	KAOJ	1430		KRAM	1480
	WYNR	790	Carson City, Nev.	KPTL	1300		KYGO	1370
Brunswick, Maine	WCME	1200	Cartersville, Ga.	WBHF	1450	Chicago, Ill.	WAIT	820
Brunswick, Md.	WTRT	1320		WKRW	1270		WBBM	780
Bryan, Ohio	WBNO	1520	Carthage, Ill.	WRAZ	990		WCFL	1000
Bryan TX	KTAM	1240	Carthage, Mo.	KDM	1480		WCRW	1240
Bryson City, N.C.	WBHN	1590	Carthage, Miss.	WCEP	1080		WEDC	1240
Buckhannon, W.Va.	WBUC	1480	Carthage, Tenn.	WRKM	1350		WGN	720
Bucyrus, Ohio	WBEO	1460	Carthage, Tex.	KGAS	1590		WGRJ	950
Buffalo MN	KBWC	1380	Carthageville, Mo.	KCRV	1370		WIND	560
Buffalo, N.Y.	WYSL	1400	Casa Grande AZ	KPIN	1260		WJJD	1160
	WEBR	970	Casey, Ill.	WMT	800		WLS	890
	WGR	550	Casper, Wyo.	KTWD	1030		WMAQ	670
	WKBW	1520		KVDC	1230		WMBI	1110
	WVOL	1120	Cathedral City, Calif.	KATI	1400		WNS	1390
Buffalo, Wyo.	KBBS	1450		KWXY	1340	Chicago Hgts., Ill.	WMPD	1470
Bufoed, Ga.	W0YX	1460	Catskill, N.Y.	WCKL	560		WCGO	1600
Burbank CA	KROQ	1500	Cayce, S.C.	K020	820	Chickasha, Okla.	KWCO	1580
Burgaw NC	WVBS	1470	Cayce, P.R.	WLEY	1080	Chico, Calif.	KHSL	1290
Burien, Wash.	KQIN	800	Cedar City, Utah	KSUB	990		KYK	1060
Burley, Idaho	KBAR	1230		KBRE	940	Chicopee, Mass.	WACE	730
Burlington, Colo.	KNAB	1140	Cedar Falls, Iowa	KCFJ	1250	Chiefland, Fla.	WLQH	940
Burlington, Iowa	KBUR	1490	Cedar Rapids, Iowa	KCRG	1600	Childress, Tex.	KCTX	1510
	KKUZ	1150		KWMT	800	Chillitheo, Mo.	KCHI	1010
Burlington, N.C.	WBBB	920		KLAW	1450	Chillitheo, Ohio	WBEX	1490
	WBAG	1150		WMT	800		WCHI	850
Burlington-Graham, N.C.	WBBB	920	Cedartown, Ga.	KHAK	1480	Chilpey, Fla.	WBGJ	1240
	WDDT	1400	Celina, Ohio	WGAA	1340	Chippewa Falls, Wis.		
Burlington, Vt.	WJOY	1230	Cedar Rapids, Iowa	WCSM	1350		WAXX	1150
	W0YV	1460	Center, Tex.	KDET	930	Christiansburg, Va.	WJJJ	1260
Burnet TX	KHLB	620	Centerville, Iowa	KCOG	1400	Christiansted, V.I.	WSTX	970
Burnettown, S.C.	WVAP	1510	Centerville, Ind.	WHON	930	Church Hill, Tenn.	WMCH	1280
Burney, Cal.	KAVA	1450	Centerville, Miss.	WLBS	1580	Cleora, Ill.	W020	1420
Burns, Dreg.	KRNS	1230	Centerville, Tenn.	WHLP	1570	Cincinnati, Ohio	WCXY	1530
Burnsville, N.C.	WKYK	1450	Centerville UT	KLAT	1600		WCIN	1480
Butler, Mo.	WPRN	1240	Central City, Ky.	WNES	1050		WKRC	550
Butler, Pa.	KMAM	1530		WMTA	1380		WLW	700
	WISR	1050	Centralia, Ill.	WILY	1210		WSAI	1360
Butte, Mont.	WJYP	1110	Centralia & Chehalis, Wash.				WUBE	1230
	KXLF	1370	Centre AL	KELA	1470		WUBB	1230
Cabo Rojo, P.R.	WEKO	930		WAGC	1580	Cireleville OH	WNRE	1540
Cadillac, Mich.	WATT	1420	Centreville AL	WEIS	990	Clanton AL	WKLF	980
	WVAM	1370	Ceres, Calif.	KLOC	920	Clare MI	WCRM	990
Cadiz, Ky.	WKDZ	1110	Charlborn, N.C.	W030	1590	Claremont, N.H.	WTSV	1290
Caguas, P.R.	W020	1110	Chadron, Nebr.	KCSR	910	Claremore, Okla.	KWPR	1270
	W020	1110	Chadron, Pa.	WCHA	800	Clarksburg, Pa.	W030	1300
Calfo, Ga.	WGRA	790	Chambersburg, Pa.	WCBG	1590	Clarksburg, W. Va.	WBAR	1340
Calfo, Ill.	WKRO	1490	Champaign, Ill.	W040	1400		WPDZ	750
Calais, Maine	WQDY	1230	Chanute, Kan.	KDQY	1480	Clarksdale, Miss.	WROX	1450
Caldwell, Idaho	KCID	1490	Charon, Ill.	WCHL	1360		WKDL	1600
	KBGN	910	Chardon, O.	WBKC	1560	Clarkston, WA	KCLK	1430
Calers AL	W030	1490	Charleroi, Pa.	WESA	940	Clarksville AR	KLYR	1360
Calixco, Calif.	KIC0	1490	Charles City, Iowa	KCHA	1580	Clarksville, Tenn.	WJZN	1400
Calhoun, Ga.	WEBS	1110	Charleston, Ill.	WEIC	1270		WDXN	540
Calhoun City, Miss.	WJRL	1530	Charleston, Mo.	KCHR	1350	Clarksville, Tex.	KCAR	1350
Camas, Wash.	KVAN	1480	Charleston, S.C.	W030	1490	Claxton, Ga.	WCLA	1470
Cambridge, Md.	WCEM	1240		W030	1490	Clayton, Ga.	KGWC	1570
Cambridge, Mass.	WCAS	740	Charleston, W.Va.	WCWA	690	Clayton, Mo.	WGLW	1320
Cambridge, Ohio	W0LE	1270		W030	1490		KFDU	850
Camden AL	WC0X	1540	Charlotte, N.C.	W030	1490	Clayton N.Mex.	KLMX	1450
Camden AR	KAMD	910		W030	1490	Clayton NC	W030	1450
	KJWH	1450	Charlotte, Mich.	WXVA	1530	Cleatfield, Pa.	WCPA	900
Camden, N.J.	WCAM	1510	Charlotte, N.C.	W030	1490	Cleatwater, Fla.	WTAN	1340
	WTMR	800		W030	1490		WAZE	860
Camden, S.C.	WACA	1590	Charles Towns, WV	WXVA	1530	Cleburne, Tex.	KCLE	1120
	WFUB	1130		WCER	1390	Clemson, S.C.	WCOP	1580
Camden, Tenn.	W030	1490	Charlotte, Mich.	W030	1490	Clermont FL	W030	1350
Cameron, Mo.	KMRN	1380	Charlotte, N.C.	W030	1490	Cleveland, Ga.	W030	1350
Cameron, Tex.	KMIL	1330		W030	1490	Cleveland, Miss.	W030	1350
Camilla, Ga.	W030	1490		W030	1490		W030	1350
Campbell, Ohio	W030	1490		W030	1490	Cleveland OH	WWWE	1100
Campbellsville, Ky.	W030	1490		W030	1490		WIXY	1260
Canby, P.R.	W030	1490		W030	1490		W030	1350
Canon City, Colo.	K030	1490		W030	1490		W030	1350
Canonsburg, Pa.	WARD	540		W030	1490		W030	1350
Canton, Ga.	WCHK	1290		W030	1490		W030	1350
Canton, Ill.	WBYS	1580		W030	1490		W030	1350

Location	C.L. kHz	Location	C.L. kHz	Location	C.L. kHz	Location	C.L. kHz
Clifton Forge Va	WXCF 1230			Deer Lodge, Mont.	KDRG 1400		
Clinchee, Va.	WDIC 1430			Dearfield, Va.	WABH 1150		
Cilanton, Ill.	WHOW 1520			Defates, Ohio	WONW 1280	Dyersburg, Tenn.	WSSB 1490
Cilanton, Iowa	KLSN 1390			De Funiak Springs, Fla.	WGTX 1280		WTIK 1310
	KROB 1340	Corry, Pa.	KRYS 1360		WZEP 1460		WDSG 1450
	KRKA 1280	Carthage, Tex.	KUNO 1400		WLBK 1360	Eagle Pass, Tex.	KEPS 1270
	KDKD 1280	Cortez, Colo.	KAND 1370		WETO 1490	Eagle River, Wis.	WELP 950
Clinton, Mo.	WRRZ 860	Cortland, N.Y.	KVFC 740	De Kalb, Ill.	WKKS 310	Eastley, S.C.	WELP 1360
Clinton, N.C.	WRRA 1280	Corvallis, Ore.	WKRT 920	De Land, Fla.	WKHJ 1010	E. Grand Forks, Minn.	KRAD 1590
Clinton, Okla.	KWQE 1320		KLOO 1340	Delano, Calif.	WDLW 1520	Eastland, Tex.	KERC 1590
Clinton, S.C.	WPCC 1410		KFLY 1240	Delaware, Ohio	WDLE 1550	E. Lansing, Mich.	WKAR 870
Clinton, Tenn.	WYSH 1380		KOAC 550	Delray, Fla.	WDBF 1420		WVIC 730
Cloquet, Minn.	WKLK 1230	Corydon, Ind.	WTF5 1580	Del Rio, Tex.	KDLK 1230	E. Liverpool, Ohio	WOHI 1490
Clovis, N.Mex.	KCLV 1240	Covington, Ohio	WTNS 1550		KWMC 1490	East Longmeadow, Mass.	WTYM 1600
	KIGA 980	Cottage Grove, Ore.	KNND 1400	Delta, Colo.	KOTA 1400	Eastman, Ga.	WUFF 710
	KWKA 580	Cottonwood AZ	KVIO 1600	Deming, N.M.	KOTS 1230	E. Moline, IL	WDLM 960
	KCHV 970	Coudersport, Pa.	WFRM 800	Denham Spgs., La.	WLBI 1220	E. Point, Ga.	WTIH 1260
Coachella, Calif.	KOLI 1470	Council Bluffs, Iowa		Denison, Iowa	KDSN 1530	East Prairie, Mo.	KGCL 1080
Coalinga, Cal.	WCPR 1450			Denison-Sherman, Tex.	KOSX 950	E. St. Louis IL	WBSL 1450
Coamo, P.R.	WC0J 1420	Courtenay, B.C.	KRCB 1560	Denmark-Bamberg, S.C.	WSD 790	E. Syracuse, N.Y.	WEMD 1460
Coatesville, Pa.	WYMG 1440	Covington, Ga.	WGFS 1430	Denton, Tex.	KDNT 1440	Easton, Pa.	WEEK 1230
Cochran, Ga.	WEZY 1510	Covington, Ky.	WCLU 1320	Denver CO	KAAT 1090	Eaton, O.H.	WCTM 1130
Cocoa Beach, Fla.	WBBC 1350	Covington, La.	WARB 370		KDEN 1340	Eatonville, Ga.	WPXQ 1520
	WRKT 1300	Covington, Tenn.	WKBL 1250		KFNL 1390	Eatonville, N.J.	WHTE 1410
Cody, Wyo.	KODI 1400	Cowart, Va.	WKEX 1340		KIMN 950	Eau Claire, Wis.	WBIZ 1400
Coeur d'Alene, Ida.	KVNI 1240	Cowan, Tenn.	WZYX 1440		KLR 800		WKOL 1050
Coffeyville, Kans.	KGGF 890	Coxad, Neb.	KAMI 1580		KLR 950		WTAI 1560
Colby, Kans.	KXXX 780	Craig, Colo.	KRAI 550		KERE 710		WEND 1580
Coldwater, Mich.	WTV 1590	Crawfordville, Ind.	KBSN 970		KOA 850		WESL 1280
Colfax, Wash.	KSTA 1000				KPOF 910		WESL 1280
College Park, GA	KCLX 1450	Cressent City, Calif.	WCVL 1550	DeQueen AR	KFC8 1220	Edenton, N.C.	KURV 710
College Station, Tex.	WSSA 1570		KPLY 1240	DeSoto, Mo.	KTKL 1260	Edmonds, Wash.	KGNB 630
	WTAW 1150	Creston, Iowa	KPOD 1310	Des Moines, Iowa	KQAN 1010	Edna, Tex.	KWBY 1130
Collinsville TN	WMSO 1590	Crestview, Fla.	WCNU 1010		KHAD 1190	Edinham, Ill.	WCRA 1090
Collinsville, Va.	WFIC 1530		WIBB 1050		KCBC 1390	Elba AL	WELB 1350
Colonial Heights, Va.	WPVA 1290	Crawe, Va.	WSVS 800		KIOA 940	Elberton, Ga.	WBG0 1400
Colorado City, Tex.	KVMC 1320	Crockett, Tex.	KIYV 1290		KRNT 1350	El Cajon, Calif.	WJLW 910
Colo. Sprgs., Colo.	KRDO 1240	Crookston, Minn.	KROX 1260		KSO 480	El Centro, Calif.	KXO 1230
	KPKI 1580	Crossett AR	KAGH 800		WHO 1040		KAMP 1430
	KVOR 1300	Crossville, Tenn.	WVW 1330	Detroit, Mich.	WCAR 1130	El Dorado AR	KDMS 1290
	KSSS 740		WCVB 1520		WDEE 1500	El Dorado KS	KELD 1400
	KYSN 1460	Crowley, La.	KSIG 1450		WJLB 1400	El Dorado Springs, Mo.	KEEY 1430
	KRYT 1530		KAJN 1580		WJR 700		KMSB 1580
Columbia, Ky.	WAIN 1270	Cruzet, Va.	WPED 810		WJW 850		KWYX 1270
Columbia, La.	KCTO 1540	Crystal Lake, Ill.	WIVS 850		WDEE 1500		KDLM 1340
Columbia, Miss.	WCJU 1450	Cuero, Tex.	KCFH 1600		WJLB 1400		KDLR 1240
Columbia, Mo.	KFRU 1400	Cullman AL	WFMH 1460		WJR 700		KDEW 1470
	KWOP 1590		WKUL 1340		WJW 850		KDEW 1470
Columbia, Pa.	WHEX 1580	Culpeper, Va.	WCVA 1490		WXYZ 1270		KDLR 1240
Columbia, S.C.	WC0B 1400	Cumberland, Ky.	WCPM 1280				KDEW 1470
	WIB 560	Cumberland, Md.	WCUM 1230				KDEW 1470
	WOIC 1320		WUOK 1270				KDEW 1470
	WNOK 1230	Cumming, GA	WTBO 1450				KDEW 1470
	WQXL 1470	Cushing, Okla.	WSNE 1170				KDEW 1470
Columbia, Tenn.	WKCP 1280	Cuthbert, Ga.	KUSM 1680				KDEW 1470
	WKRM 1340	Cuyahoga Falls, Ohio	WCUG 850				KDEW 1470
Columbus Ga.	WDAK 540	Cypress Gardens, Fla.	WCUE 1150				KDEW 1470
	WRBL 1420						KDEW 1470
	WHYD 1270						KDEW 1470
	WCLS 1580	Cynthiana, Ky.	WGTO 540				KDEW 1470
	WDCS 1340	Dade City, Fla.	WVCN 1400				KDEW 1470
	WPNX 1460	Dainersfield, Tex.	WDFC 1350				KDEW 1470
Columbus, Ind.	WC81 1010	Dalhart, Tex.	KEGG 1560				KDEW 1470
Columbus, Miss.	WACR 1050	Dallas, Tex.	KXIT 1410				KDEW 1470
	WCBI 550	Dallas, Ore.	KROW 1480				KDEW 1470
	WMBG 1400	Dallas, Tex.	KRLD 1080				KDEW 1470
	KJ8K 900		KIXL 1040				KDEW 1470
	KYTT 1510		KSKY 860				KDEW 1470
Columbus, Ohio	WBNS 1480		KLIF 1190				KDEW 1470
	WCOL 1230		WFAA 820				KDEW 1470
	WMNI 920		KBDX 1480				KDEW 1470
	WOSU 820		WRR 1310				KDEW 1470
	WTVN 610	Dallas-Ft. Worth TX	WFAA 570				KDEW 1470
	WKKO 1270	Dalton, Ga.	WRCD 1430				KDEW 1470
Colville, Wash.	KCVL 1270		WTTI 1530				KDEW 1470
Comanche, Tex.	KCOM 1550	Danbury, Conn.	WLAD 800				KDEW 1470
Commerce, Ga.	WJIC 1270	Danville, Ill.	WDAN 1480				KDEW 1470
Concord, Calif.	KWUN 1480		WITY 980				KDEW 1470
Concord, N.H.	WKXL 1450	Danville, Ky.	WHIR 1230				KDEW 1470
Concord, N.C.	WEG0 1410	Danville, Pa.	WPGM 1570				KDEW 1470
Concordia, Kans.	KNCK 1390	Danville, Va.	WBTM 1330				KDEW 1470
Conneaut, Ohio	WW0W 1380		WYPR 970				KDEW 1470
Connellsville, Pa.	WCVI 1340	Dardanelle AR	WDVA 1250				KDEW 1470
Connersville, Ind.	WCNB 1580	Darlington, S.C.	WILA 1580				KDEW 1470
Conroe, Tex.	KMCO 900	Davenport, Iowa	KCAB 880				KDEW 1470
Conway AR	KMCO 1230		WDAB 1350				KDEW 1470
	KVE 1330		WDC 1420				KDEW 1470
Conway, N.H.	WBNC 1050		KWNT 860				KDEW 1470
Conway, S.C.	WLAT 1350		KSTT 1170				KDEW 1470
Cookeville, Tenn.	WHUB 1400	Dawson, Ga.	WDWD 990				KDEW 1470
	WPTN 1550	Dayton, Ohio	WHIO 1290				KDEW 1470
Coolidge AZ	KCKY 1150		WING 1410				KDEW 1470
Cooey Bay, Oreg.	KYNG 1420		WONE 980				KDEW 1470
Copper Hill, Tenn.	WLSB 1400		WAI 1210				KDEW 1470
Cosquille, Oreg.	KWRD 830	Dayton, Tenn.	WDNT 1260				KDEW 1470
Coral Gables, Fla.	WRIZ 1550	Daytona Beach, Fla.	WN0B 1150				KDEW 1470
	WCG 1080		WMFJ 1450				KDEW 1470
	WCTT 980		WR0D 1340				KDEW 1470
Corbin, Ky.	WGO 1330		KDSJ 980				KDEW 1470
Cordele, Ga.	WJMJ 1480	Deadwood, S.Dak.	WNIC 1310				KDEW 1470
Cordova AK	KLAM 1450	Dearborn MI	WH0S 600				KDEW 1470
Corinth, Miss.	WCMA 1230	Decatur AL	WAFJ 1490				KDEW 1470
	WKCU 1350		WMSL 1400				KDEW 1470
Cornelia, Ga.	WC0N 1450	Decatur-Atlanta, Ga.	WGUN 1010				KDEW 1470
Corning AR	KCB 1260		WQAK 1310				KDEW 1470
Corning, N.Y.	WCBA 1350		W0Z 1080				KDEW 1470
	WCLI 1450		W0Y 1340				KDEW 1470
Corwall, N.Y.	WWLE 1170	Decatur, Ill.	WADM 1540				KDEW 1470
Corona, Cal.	KREL 1370		KWLC 1240				KDEW 1470
Corpus Christi, Tex.	KCTA 1030	Decatur, Ind.	WADW 1540				KDEW 1470
	KCTT 1150		KWLC 1240				KDEW 1470
	KEYS 1440	Decorah, Iowa	KWLC 1240				KDEW 1470

Location	C.L. kHz	Location	C.L. kHz	Location	C.L. kHz	Location	C.L. kHz
	WPOP 1410		KHVV 1040		WJCO 1510	Kendallville, Ind.	WAWK 1140
	WTIC 1080		KKUA 690	Jackson, Miss.	WJAS 1270	Kendry-Karnes City, Texas	6 0
Hartford, Ky.	WLLS 1600		KHOA 1170		WJXS 1450	Kennett, Mo.	KBOA 830
Hartford, Wis.	WTKM 1540		KORL 650		WOKJ 1550		KBXM 1540
Hartselle AL	WHR 960		KUMU 1500		WWUN 1590	Kennewick-Pasco-Richland WA	KSMK 1340
Hartsville, S.C.	WHSK 1450	Hood River, Oreg.	KIHR 1340		WRBC 1370		KONK 810
	WBDC 1490	Hope AR	KXAR 1490	Jackson MO	WLSL 950		WLIP 1050
Hartsville, Tenn.	WKIM 1090	Hopewell, Va.	KHP 1240	Jackson, Ohio	WLMJ 1280	Kent, O.	WKNT 1520
Hartwell, Ga.	WKLY 980	Hopkinsville, Ky.	WHOP 1230	Jackson, Tenn.	WDXI 1310	Keokuk, Iowa	KOKX 1310
Harvard, Ill.	WMLW 1600		WKOA 1480		WJAK 1450	Kermit, Tex.	KERB 600
Harvey, Ill.	WSEE 1570		WKGO 1560	Jackson, Wis.	WJTS 1390	Kerrville, Tex.	KERV 2350
Hastings, Mich.	WBCH 1220	Haquim, Wash.	WHHO 1320	Jacksonville AR	WYLO 540	Kershaw, S.C.	KWKS 1300
Hastings, Minn.	KDWA 1460	Hornell NY	WLEA 1480	Jacksonville, Fla.	WJAX 930	Kewanee, Ill.	WKEL 1450
Hastings, Nebr.	KHAS 1230	Horseheads, N.Y.	WQTP 1000		WAVE 690	Keyser, W.Va.	WKLP 1390
	KIGS 1550	Hot Springs AR	KBHS 890		WVDF 1320	Key West, Fla.	WKWF 1600
Hattiesburg, Miss.	WBKH 950		KXDW 1420		WVYI 1280		WKIZ 1500
	WFOR 1400	Hot Springs, S.Dak.	KZNG 1340		WMBR 1460	Kimber, Tex.	KWCA 1240
	WHSY 1230		KOBH 580		WOB 1360	Killeen TX	KIXS 1050
	WORV 1580	Houghton, Mich.	WHDF 1400		WQZN 970	Kimber, Nebr.	KIMB 1260
	WXXX 1310	Houghton Lake, Mich.	WHGR 1290		WPDQ 600	King, N.C.	WKTE 1090
Havelock, N.C.	WKVO 1330	Houlton, Maine	WHOU 1340		WQIK 1090	King City, Calif.	KRKC 1490
Haverhill, Mass.	WHAV 1490	Houma, La.	KJIN 1490		WERD 1400	Kingman AZ	KAAA 1230
Havre, Mont.	KOJM 610	Houston, Miss.	WBCT 940	Jacksonville, Ill.	WJIL 1550	Kings Mountain, N.C.	KMT 1220
Havre de Graec, Md.		Houston, Mo.	KBTC 1250		WJNC 1240	Kingsport, Tenn.	WKNT 1320
	WASA 1330	Houston, Tex.	KCOH 1430	Jacksonville, N.C.	WJBS 1290		WKPT 1400
Hawesville KY	WKCM 1140		KENR 1070		WLAS 910	Kingston NY	WKOT 1550
Hawkinsville, Ga.	WCEH 610		KILT 610	Jacksonville, Tex.	KEBE 1400		WGHQ 920
Hays, Kans.	KAYS 1400		KNUZ 1230	Jacksonville Beh., Fla.	WJIX 1010	Kingstree, S.C.	WKDK 1310
Hayneville, La.	KLUM 1580		KODA 1010	Jamestown, Ky.	WJKY 1060		WKSP 1030
Hayward, Wis.	WHSM 1500		KPRC 950	Jamestown, N.Dak.	KEYJ 1400	Kingsville, Tex.	KINE 1370
Hazard, Ky.	WKIC 1390		KULF 780		KJSB 600	Kingwood, W.Va.	WFSP 1560
Hazelhurst, Ga.	WYON 920		KTRH 740	Jamestown, N.Y.	WJTN 1240	Kinston, N.C.	WELS 1010
Hazelhurst, Miss.	WMDC 1220		KXYZ 1320		WJUN 1280		WISP 1230
Hazelton, Pa.	WAZL 1480		KYOK 1590	Janesville, Wis.	WDEB 1500	Kirkland, Wash.	KYAC 1460
	WHZN 1320		KYOK 1590	Jasper, Tex.	WCLD 1230	Kirksville, Mo.	KIRC 1450
Heath, OH	WHN 1000	Howell, Mich.	WHMI 1350	Jasper AL	WVWB 1360	Kissimmee, Fla.	WVIF 1080
Heber Springs AR	KAWW 1370	Huge, Okla.	KIHN 1340	Jasper GA	WVYZ 1580	Kittanning, Pa.	WACB 1360
Helena AR	KFFA 1360	Hudson, N.Y.	WHUC 1230	Jasper, Ind.	WJZ 990	Klamath Falls, Oreg.	KAGD 1150
Helena, Mont.	KCAP 1540	Humana, P.R.	WALO 1240	Jeanette PA	WBCW 1530		KFLS 1450
	KBLL 1240	Humble City, N.M.	KCIA 1110	Jefferson City, Mo.	KLIK 950		KLAD 980
Hemet, Calif.	KHS 1520	Humboldt, Tenn.	WIBI 740	Jefferson City, Tenn.	WJFC 1480	Knox, IN	WKVI 1520
Hemphill, S.C.	WKYB 1000		WHMT 1190	Jeffersonville, Ind.	WXVW 1450	Knoxville, Iowa	WVIA 1300
Hempstead, N.Y.	WHLI 1100	Huntingdon, Pa.	WHUN 1150	Jellito TN	WJTT 1540	Knoxville, Tenn.	WBIR 1240
Henderson, Ky.	WSON 860	Huntington, Ind.	WHLT 300	Jena, La.	KCKW 1480		WBE 850
Henderson, NV	KBMI 1400	Huntington, N.Y.	WGSN 740	Jenkins, KY	WREM 1000		WETE 620
Henderson, Nev.	KVOV 1280	Huntington, W. Va.	WKKE 800	Jennings, La.	KJEF 1290	Kenilworth, N.J.	WKGN 1340
	KBNI 1400		WGNT 930	Jerome, Idaho	KJL 1400		WNOX 990
Henderson, N.C.	WIZS 1450	Huntsville AL	WBHP 1230	Jerseyville, Ill.	WJBM 1480		WROL 1490
	WHHM 1580		WUP 1600	Jesup, Ga.	WLD 1370		WSKT 1580
Henderson, Tenn.	KGRI 1000		WVIX 1450	John Day, Ore.	KJDY 1400		WKVK 560
Henderson, Tex.	KWRD 1470		WVVO 1000	Johnson City, Tenn.	WJCV 910	Kokomo, Ind.	WIS 1350
			WVWA 1550	Johnston, N.C.	WJES 1570	Kotzebue AK	KOTZ 720
Hendersonville, N.C.	WHKP 1450		WVVO 1000	Johnstown, Pa.	WJAC 850	Laconia, N.H.	WEMI 1490
	WHVL 1600		WVVO 1000	Joliet, Ill.	WJND 1490	La Crosse, WI	WIZM 1410
Henryetta, Okla.	KHEN 1590		WVVO 1000	Joliet, Ill.	WCRD 1230		WKTY 580
Hereford, Tex.	KPAN 860		WVVO 1000	Jonetta, Que.	WJRC 1510	Ladysmith, Wis.	WLND 1340
Herkimer, N.Y.	WALY 1420		WVVO 1000	Jonesboro, La.	KNEA 970	Lafayette, Ga.	WLFA 1590
Hermiston, OR	KOH 1360		WVVO 1000	Jonesboro, Tenn.	KJIS 920	Lafayette, Ind.	WASK 1450
Herrndon, Va.	WHDN 1440		WVVO 1000	Jonesville, La.	KANV 1480		WAZ 410
Herrin, Ill.	WJPF 1340		WVVO 1000	Joplin, Mo.	WMBH 1450	Lafayette, La.	KPEL 1420
Hettinger, N.Dak.	KNDK 1490		WVVO 1000		KQYX 1360		KKVK 1520
Hibbing, Minn.	WVFG 1240		WVVO 1000		KFSB 1510	Lafayette, Tenn.	WLAF 1450
Hickory, N.C.	WHKY 1290		WVVO 1000		KOD 1230	LaFayette, Ore.	KLEB 1450
	WSPF 1000		WVVO 1000		KUPT 980	LaGrange, Ga.	WLAG 1240
	WINU 1510		WVVO 1000		WJAC 850		WTRP 620
Highland, Ill.	WVXX 1430		WVVO 1000		WJNL 1490	LaGrange, Ill.	WTAQ 1300
Highland Park IL	KVIL 1150		WVVO 1000		WCRD 1230	LaGrange, Tex.	KVLG 1570
Highland Springs, Va.	WENZ 1450		WVVO 1000		WJRC 1510	LaJunta, Colo.	KBTZ 460
	WMFR 1230		WVVO 1000		WJRC 1510	Lake Charles, La.	KLD 880
	WNOS 1590		WVVO 1000		WJRC 1510		KLCL 1470
	WHPE 1070		WVVO 1000		WJRC 1510		KADK 1400
Hillsboro, Ohio	WSRW 1590		WVVO 1000		WJRC 1510	Lake City, Fla.	WDSP 1340
Hillsboro, Oreg.	KUIK 1380		WVVO 1000		WJRC 1510	Lake City, Fla.	WDRS 1340
Hillsboro, Tex.	KIBR 1560		WVVO 1000		WJRC 1510	Lake City, Wis.	WGRO 980
Hillsdale, Mich.	WCSR 1340		WVVO 1000		WJRC 1510	Lake Geneva, W.V.	WMIR 1550
Hillsville, Va.	WHVY 1400		WVVO 1000		WJRC 1510	Lake Havasu City AZ	KFWJ 980
Hilo, Hawaii	KPUA 970		WVVO 1000		WJRC 1510		WQPD 1430
	KIPA 620		WVVO 1000		WJRC 1510	Lakeland FL	WQHN 2380
	KHL 850		WVVO 1000		WJRC 1510		WVAV 330
Hindman, Ky.	WKCB 1540		WVVO 1000		WJRC 1510	Lake Placid, N.Y.	WIRD 920
Hinesville, Ga.	KGML 990		WVVO 1000		WJRC 1510	Lakeport, Calif.	KBIC 1270
Hinton, W.Va.	WMTD 1380		WVVO 1000		WJRC 1510	Lake Providence, La.	KLPL 1050
Hobart, Okla.	KTJS 1420		WVVO 1000		WJRC 1510	Lake Tahoe, Calif.	KDWL 1490
Hobbs, N.Mex.	KKEW 1480		WVVO 1000		WJRC 1510	Lakeview, Oreg.	KQIK 1230
	KHOB 1390		WVVO 1000		WJRC 1510	Lake Wales, Fla.	WIRC 1290
Hohenwald, Tenn.	WHRC 1540		WVVO 1000		WJRC 1510	Lakewood, Colo.	KLAK 1600
Holbrook AZ	KDJI 1270		WVVO 1000		WJRC 1510	Lakewood, N.J.	WLHW 1170
Holdenville, Okla.	KVYL 1370		WVVO 1000		WJRC 1510	Lake Worth, Fla.	W1Z 1380
Holdredge, Nebr.	KVUR 1380		WVVO 1000		WJRC 1510	Lamar, Colo.	KLMR 820
Holland, Mich.	WHTC 1450		WVVO 1000		WJRC 1510	Lamesa, Tex.	KLET 690
	WBL 1280		WVVO 1000		WJRC 1510	Lampasas, Tex.	KCT 1450
Holly Hill SC	WKHJ 1440		WVVO 1000		WJRC 1510	Lancaster, Calif.	K*LL 810
Hollister, Cal.	KMPG 1540		WVVO 1000		WJRC 1510	Lancaster, Ky.	W1XI 1380
Hollywood, Fla.	WGMA 1320		WVVO 1000		WJRC 1510	Lancaster, N.Y.	WXRL 1300
Holly Springs, Miss.	WKRA 1110		WVVO 1000		WJRC 1510		
	KWB 930		WVVO 1000		WJRC 1510		
Holyoke, Mass.	WRSD 1430		WVVO 1000		WJRC 1510		
Homestead FL	WJLD 1400		WVVO 1000		WJRC 1510		
Homewood, Ala.	KPME 1460		WVVO 1000		WJRC 1510		
Hondo, Tex.	WHPA 1590		WVVO 1000		WJRC 1510		
Hood Dale PA	KAIM 870		WVVO 1000		WJRC 1510		
Honolulu, Hawaii	KISA 1540		WVVO 1000		WJRC 1510		
Honolulu, HI	KCCN 1420		WVVO 1000		WJRC 1510		
	KCMB 590		WVVO 1000		WJRC 1510		
	K7DD 1210		WVVO 1000		WJRC 1510		
	KHAI 1080		WVVO 1000		WJRC 1510		
	KPOI 1380		WVVO 1000		WJRC 1510		
	WKIK 830		WVVO 1000		WJRC 1510		
	KGU 760		WVVO 1000		WJRC 1510		
	KTRG 990		WVVO 1000		WJRC 1510		

WHITE'S RADIO LOG

Location C.L. kHz

Lancaster, Ohio WHOK 1320
Lancaster, Pa. WGAL 1490
WLAN 1390
WLCM 1360
Lancaster, S.C. WAGL 1566
WQVE 1350
WRDL 1400
Langdon, N.D. KNDX 1060
Lansdale, Pa. WNPV 1440
Lansford, Pa. WLSH 1410
Lansing, Mich. WILS 1320
WLJM 1240
WITI 1010
Lapeer, Mich. WMPC 1230
WTHM 1530
LaPlata, Md. WMSD 1560
LaPorte, Ind. WLOI 1540
Laramie WY KGJO 1490
KOWB 1250
Laredo, Tex. KJAR 1300
KVOZ 1490
WSSR 2000
Larned, Kans. KANS 1510
LaSalle, Ill. WLPO 1220
LasCruces, N.Mex. KGR7 1470
KNO 1460
Las Vegas, Nev. KEN0 1480
KLAV 1230
KRAM 1340
KLUC 1140
KORR 920
KVEG 970
KQRX 720
Las Vegas, N.Mex. KFUN 1230
Latrobe, Pa. WTRA 1570
WQTV 1480
Laurel, Md. WTRA 900
Laurel, Miss. WAML 1340
WLAU 1490
WNSL 1260
WLBG 860
Laurens, S.C. WEWO 1080
Laurinburg, N.C. WLSR 1380
Lawrence, Kans. KFku 1250
KLWN 1320
WCCM 800
Lawrence, Mass. WDXE 1370
Lawrenceville, Ga. WLAW 1360
Lawrenceville, Ill. WAKO 1360
Lawrenceville, Va. WLES 980
Lawton, Okla. KSWO 1380
KCCO 1050
Leadville, Colo. KBRR 1230
Leavenworth, Kans. KCL0 1410
Lebanon, Ky. WLSB 1590
Lebanon, Mo. KLWT 1230
Lebanon, Mo. KJEL 1060
Lebanon, Oreg. KGAL 920
Lebanon, Pa. WLBK 1270
Lebanon, Tenn. WCOR 900
Leesburg, Fla. WLEB 790
WZST 1410
Leesburg, Va. WAGE 1290
Leeville, La. KLLA 1570
Lehigh Aeres, Fla. WAYK 1440
Leighton, Pa. WYNS 1550
Leitchfield, Ky. WTLT 1580
Leland, Miss. WESY 1580
LeMars, Iowa KLEM 1410
Lemmon, S.D. KBJM 1400
Lemoore, Calif. KLAN 1320
KOAD 1240
WRI 1340
WGXG 0800
Lenoir, N.C. WBLC 1360
WLIL 730
Leominster, Mass. WLSM 1300
Leonsardown, Md. WKIK 1070
Lewelland, Tex. KBL 1250
Lewittown, Pa. WBCB 4900
Lewisburg, Pa. WUD0 1010
Lewisburg, Tenn. WJIM 1490
Lewiston, Idaho KRLC 1350
KOZE 1300
WCOU 1240
WLAM 1470
Lewistown, Mont. KXLO 1230
WKVA 920
WMRF 1490
Lexington, Ky. WLAP 830
WBL0 1000
WYLC 590
Lexington, Miss. WXTN 1300
Lexington, Mo. KLEX 1570
Lexington, Neb. KRVN 860
Lexington, N.C. WBUT 1440
Lexington, Tenn. WDXL 1490
Lexington, Va. WREL 1450
Lexington Pk., Md. WPTX 920
Libby, Mont. KLCB 1230
Liberal, Kans. KSCB 1270
KL1B 1470

Location C.L. kHz

Liberty, Ky. WKDO 1560
Liberty, Mo. KBL1 1400
Liberty, N.Y. WVO5 1240
Liberty, Tex. KPXE 1050
Lihue, Hawaii KTOH 1350
Lima, Ohio WIMA 1150
WGIT 940
WPRC 1370
Lincoln, Ill. WLKN 1450
Lincoln, Me. KF0R 1240
Lincoln, Nebr. KLIN 1400
KLMS 1480
KECK 1530
KCHC 1360
WLOM 1050
Lincoln City OR WANL 1450
Lincolnton, N.C. WBTO 1600
Lincville, Ala. WSM1 1540
Linton, Ind. WSM1 1540
Litchfield, Ill. KLFD 1410
Litchfield, Minn. KLF7 960
Little Falls, N.Y. WLH 1230
Littlefield, Tex. KZZN 1490
Little Rock AR KARN 920
KALO 1250
KLRA 1010
KOKY 1440
KAY 1000
KMYO 1050
KDKO 1510
WLTN 1400
WNER 1250
KPRK 1340
WLV 420
Livingston, Tenn. KEX1 1440
Livingston, Tex. KHRB 1060
Lockhart, Tex. WBPZ 1230
Lock Haven, Pa. WUSJ 1430
Lockport, N.Y. KCVR 1570
Lodi, Calif. WLG 1510
Logan, O. KBLW 1390
Logan, Utah KSTU 1300
KVN 610
Logan, W.Va. WLOG 1230
WLDW 1290
Logansport, Ind. WSAJ 1450
Lompoc, Calif. KKKO 1410
KLOM 1330
KNEZ 980
WFTG 1400
KFDX 1260
KGER 1390
Longmont, Colo. KLM0 060
Long Prairie, Minn. KEYL 1400
Longview, Tex. KFRO 1370
KLUE 1280
KED0 1400
KBAM 1270
Lookout Mountain-Chatanooga TN WFLI 1070
Lorain, Ohio WLRO 1380
Loretto, Pa. WWSF 1400
Loris, S.C. WLSG 1570
Los Alamos, N.Mex. KRNS 4900
Los Angeles, Calif. KABC 790
KFI 640
KHJ 930
KFWB 960
KGFJ 1230
KFAO 1330
KIIS 1150
KAC 570
KMPC 710
KNX 1070
KPOL 1540
KGBS 0220
KLSB 1330
WKVY 1270
WYRN 1420
WPEH 1420
WAVE 970
WAKY 790
WHAS 840
WHL0 1080
WINN 1240
WFLA 900
WLOU 1350
WMT 820
WLSM 1270
KLOV 1570
WLUV 1520
KIEA 630
WCAP 980
WLIH 1480
KDAV 580
KLBK 1340
KLF 1420
KFY0 790
KLLL 1480
KSL 950
KEND 1590
WRBE 1440
WKL 1450
KRBA 1340
KLFU 1420
WGR 360
WTSB 1340
WRAA 1330
WLVN 1060
KQAD 800
WLYA 590
WLL 390
WGLM 1320
WWD0 1390
WBRG 1050

Location C.L. kHz

Lyon, Mass. WLYN 1360
Lyons, Ga. WBBT 1340
Machias, Me. WMS 1400
Macomb, Ill. WKA 1510
Macon, Ga. WBML 1240
WCRL 900
WDEN 1500
WIBB 1250
WMAZ 940
WNEZ 1400
KLT1 1560
WJSR 1230
Macon, Mo. KHOT 1250
Madawaska, Me. KMAD 1580
Madera, Calif. WMAF 1250
Madill, Okla. WYTH 1250
Madison, Fla. WORX 1270
Madison, Ga. KJAM 1390
Madison, Ind. WENO 1430
Madison, S.D. WHA 970
Madison, Tenn. WBA 1310
Madison, Wis. WISW 1480
WTSO 1070
WMAD 1550
WFMW 730
WTKZ 1310
Madisonville, Tenn. WYLL 1250
Magna, Miss. WSM 810
Magnolia AR KVM 630
Makawili, Hawaii KNU1 1310
Maksville, N.C. WDSL 1420
Malden, Me. KTCB 1570
Malone, N.Y. WICY 490
Malvern, Ar. KBOK 1310
Manassas, Va. WPRW 1460
Manati, P.R. WMNT 1230
Manchester, Conn. WINF 1500
Manchester, Ga. WFDZ 1370
Manchester, Ky. WWXL 1450
Manchester, N.H. WGR 610
WGBR 1250
Manchester, Tenn. WMSR 1320
Manhattan, Kans. KSCA 580
KMAN 1350
WMS 1340
Manistee, Mich. WTIQ 1490
Manitou Springs, Colo. KEDI 1490
KED1 1490
Manitowee, Wis. WCUB 980
WMT 1420
WLN 1010
Mankato, Minn. KTOE 1420
Manning, S.C. WYMB 1410
Mansfield, La. KDXI 1380
Mansfield, Ohio WMAN 1400
WCLW 1140
Maplewood MN WLN 1010
Maquoketa, Iowa KMAQ 1320
Marathon, Fla. WFFG 1300
Marco Island FL WRG1 1510
Marianna, Ar. KZOT 1460
Marianna, Fla. WTSY 1480
WTO 560
Marietta, Ga. WFOB 1230
WBIE 1080
WMOA 1490
WBRJ 910
Marine City, Mich. WMSA 1570
WMAW 500
WLOT 1300
WJAM 1310
WGH 1150
WBAT 1400
WGL 860
WNL 1010
WBRM 1250
WRRN 1430
WATP 1490
WWEV 1010
WOLD 1330
KPCA 360
WQMA 1320
KAPB 1370
WRSO 1470
WDMJ 1320
WML 1400
KNM0 1300
WMMH 1460
KMHT 1450
KDOX 1410
KFBZ 1230
WME 1510
WDG 1450
WCMT 1410
WCBK 1540
WJSM 1110
WCPM 1340
WFE 1570
WVMA 450
KNIM 1800
KNYC 1410
KNDY 1570
WGAP 1400
WNE 1340
KGL0 5800
KRIB 490
KSMN 1010
WMSA 1540
WYBG 1050
WNE 990
WHJC 1360
WLBH 1170

Location C.L. kHz

Mauston, Wis. WRJC 1270
Mayaguez, P.R. WAEL 600
WKBJ 710
WORA 760
WPR 990
WTL 1300
WNGO 1320
WMYN 1420
KMAV 1520
WFTM 1400
KTCB 1200
KNEB 1150
KRIO 910
KMCL 1240
KAMY 1450
WHNY 1250
WAFP 580
KICX 1360
KXEM 1590
KUSA 1220
WEG0 810
WIXZ 1360
WHDZ 440
KYAL 600
WMLC 1060
KMCB 1210
WABC 960
WAKI 1230
KCA 1540
WDXA 1410
WGW 1490
WVMI 1170
WQW 1080
WVFC 1430
KMS 1440
KSHA 860
KBOY 730
KYJC 1230
WIGM 1490
WVNB 1240
WEL 920
WHBQ 560
WVEE 1430
WMC 790
WDA 1090
WVPS 660
WLOK 1340
WQMG 1480
WREC 600
KWAM 290
KEBH 1130
KWP 450
WGLC 090
KMF 1300
WAGN 1340
WME 1360
KYOB 1480
KWP 1560
WMMW 1470
WCOG 910
WDAL 1330
WMOX 1010
WOKK 1450
WQIC 1390
KFWA 1500
WMT 730
KBUZ 1310
KDKB 1510
WMOK 928
WAT 1360
KBUS 1396
KXEO 1340
WJUN 1220
KIKO 1340
WRBS 710
WID 810
WFB 990
WFUN 790
WVOK 1260
WQAM 560
WQBA 1140
WCOB 1450
WINZ 940
WCMQ 1220
KGLC 910
WMBM 1490
WAT 1360
WVFB 990
WFD 1490
WMP0 1390
WTK 560
WAT 1360
WCNX 1150
WALL 1340
WPF 910
WMPF 1490
KCRS 550
KRS 1100
KNAM 1510
KWEL 1600
KRCM 1220
KBJ 1600
KAT 1340
WFF 990
WTHD 930
WVRC 1490
WVWG 1450
WVGR 1570
WVNB 1360
WVNR 1240
WVVB 1440

Location	C.L.	kHz	Location	C.L.	kHz	Location	C.L.	kHz	Location	C.L.	kHz
Milton FL	WSRA	1490	Moss Point, Miss.	WCIS	1460	New Braunfels, Tex.	KGNB	1420	No. Syracuse, N.Y.	WSOQ	1220
Milton, Pa.	WMLP	1380	Moulton, Ala.	WHYI	1530	New Britain, Conn.	WRCH	910	N. Vernon, Ind.	WOCH	1460
Milton WV	WNST	1600	Moultrie, Ga.	WHGA	1130	New Brunswick, N.J.	WRWY	840	No. Wilkesboro, N.C.	WOBC	810
Milwaukee, Wis.	WEMP	1250	Moundsville, W. Va.	WMTM	1370	Newburgh, N.Y.	WGNY	1220	Norton, Kans.	KNBI	1530
	WRIT	1340	Mountain City, Tenn.	WEIF	1510	Newburyport, Mass.	WNBY	1470	Norton, Va.	WNVA	1350
	WISN	1130		WMCT	1390	New Castle, Ind.	WCTW	1550	Norwalk, Conn.	WNLK	1350
	WJZZ	1290	Mountain Grove, Mo.	KLRS	1360	New Castle, Pa.	WBZY	1140	Norwalk, Conn.	WLKR	1510
	WNOV	860	Mountain Home AR	KTLO	1240	Newcastle, Wyo.	WAST	1260	Norwich, N.Y.	WCHN	1310
	WOKY	920	Mountain Home, Ida.	KFLI	1240	New City, N.Y.	KASL	1240	Oakdale, La.	WCRH	970
	WTMJ	620				New Haven, Conn.	WRKL	910	Oakland, Cal.	KNEW	910
Minden, La.	KASO	1240	Mountlake Terrace, Wa.	KURB	1510	New Iberia, La.	KANE	1240	Oakland, Md.	KDIA	1310
Mincola, N.Y.	WTHE	1520	Mt. Airy, N.C.	WPAQ	740	New Kensington, Pa.	KNIR	1380	Oakland Park, Fla.	WMSG	1050
Mincola, Tex.	KMDD	1510	Mt. Carmel, Ill.	WVCM	1360	New London, Conn.	WNLC	1150	Oak Park, Ill.	WOPA	1490
Mineral Wells, Tex.	KORC	1140	Mt. Carmel, Pa.	WSDY	1300	New Martinsville, W. Va.	WETZ	1390	Oak Ridge, Tenn.	WATO	1250
Minneapolis-St. Paul MN	WCCO	830	Mt. Clemens, Mich.	WBRB	1430	Newman, Ga.	WCOH	1400	Oberlin, Ohio	WOBL	1570
	KDWB	630	Mt. Dora, Fla.	WVGT	1580	New Orleans LA	WWSO	1280	Ocala, Fla.	WMPQ	900
	WLOL	1330	Mt. Holly, N.J.	WJJZ	1460		WNNR	990		WTMC	1290
	KEEY	1400	Mt. Jackson, Va.	WSIG	790		WBOK	1230		WWKE	1370
	WMKT	1370	Mt. Kisco, N.Y.	WVIP	1310		WNOE	1060		WETT	1590
	WNYC	1300	Mt. Olive, N.C.	WDJS	1430		WSMB	1350		WPLT	1520
	WWTG	1280	Mt. Pleasant, Mich.	WCEN	1150		WNPS	1450		WQDE	1320
	KTCR	690	Mt. Pleasant, Tex.	KIMS	960		WWTX	690		KUDE	1320
	KTIS	900	Mt. Shasta, Calif.	KWSD	620		WVWL	670		WSIZ	1380
	KUOM	770	Mt. Sterling, Ky.	WMST	1150		WVWG	800		WOCO	1260
	KSTP	150P	Mt. Vernon, Ill.	WMIX	940		WVVO	620		KBZB	920
	KLMB	1350	Mt. Vernon, Ind.	WPCC	1590		WYLD	940		KOZA	1230
	KHRT	1320	Mt. Vernon, Ind.	WRVK	1480		KNBY	1240		KOYL	1310
	KCJB	910	Mt. Vernon, Ohio	WMVO	1300		KNOP	780		KRIG	1410
	KTYN	1430	Mt. Vernon, Wash	KAPR	1470		KNPT	1310		KOEL	950
Mission, Kans.	KBEA	1480	Muleshoe, Tex.	KMUL	1380		KNRW	1010		KOGA	930
Mission, Tex.	KIRT	1580	Mullins, S.C.	WJAY	1280		KNRP	1310		KOGA	930
Misoula, Mont.	KGVO	1290	Muncie, Ind.	WLBC	1340		KNST	1310		KOGL	1410
	KGMY	1450	Munfordville, Ky.	WERK	990		KNTR	1310		KOHL	950
	KYLT	1340	Munising MI	WLDC	1150		KNUP	1310		KOJA	1410
	KYSS	930	Murfreesboro, N.C.	WGDN	1400		KNVJ	1310		KOKE	1490
Mitchell, S.Dak.	KORN	1490	Murfreesboro, Tenn.	WMTS	810		KNWJ	1310		KOKE	1490
Moab, Utah	KURA	1450	Murphy, N.C.	WVCP	600		KNWY	1310		KOKE	1490
Moberly, Mo.	KWIX	1290	Murphysboro, Ill.	WKRR	1320		KNXJ	1310		KOKE	1490
Mobile AL	WUNI	1410	Murray, Ky.	WNBS	1340		KNYJ	1310		KOKE	1490
	WABB	1480	Murray, Utah	KMOR	1230		KNZJ	1310		KOKE	1490
	WGOK	900	Muscatine, Iowa	KWPC	860		KNZJ	1310		KOKE	1490
	WMOO	1550	Muskegon, Mich.	WLAY	1450		KNZJ	1310		KOKE	1490
	WMOB	840	Muskegon Heights, Mich.	WKBJ	850		KNZJ	1310		KOKE	1490
	WKRK	710	Muskogee, Okla.	WKJR	1520		KNZJ	1310		KOKE	1490
	WLIQ	1360	Myrtle Beach, S.C.	WNYB	1450		KNZJ	1310		KOKE	1490
Mobridge, S.Dak.	KOLY	1300	Nacogdoches, Tex.	KEEE	1230		KNZJ	1310		KOKE	1490
Modesto, Calif.	WDSL	1320	Nampa, Idaho	KFXD	580		KNZJ	1310		KOKE	1490
	KTRB	860	Nanticoke, Pa.	WNAK	1300		KNZJ	1310		KOKE	1490
	KBEE	970	Napa, Calif.	KYON	1440		KNZJ	1310		KOKE	1490
	KFIV	1360	Naples, Fla.	WNOG	1270		KNZJ	1310		KOKE	1490
	KDOL	1340	Narrows-Pearlsburg, Va.	WNRY	990		KNZJ	1310		KOKE	1490
	WQUA	1230	Nashua, N.H.	WOTW	900		KNZJ	1310		KOKE	1490
	KVKM	1330	Nashville AR	KBHC	1260		KNZJ	1310		KOKE	1490
	WBEB	950	Nashville, Ga.	WKDA	1240		KNZJ	1310		KOKE	1490
	KRMD	990	Nashville, Tenn.	WLAC	1510		KNZJ	1310		KOKE	1490
	KBIB	1560	Natchez, Miss.	WNAT	1450		KNZJ	1310		KOKE	1490
	WRAM	1330	Natchitoches, La.	KNOC	1450		KNZJ	1310		KOKE	1490
	WFRP	1490	Natick, Mass.	WETR	1060		KNZJ	1310		KOKE	1490
	WKUN	1580	Naugatuck, Conn.	WOWW	1380		KNZJ	1310		KOKE	1490
	WKULB	1440	Nawasota, Tex.	KBWC	1560		KNZJ	1310		KOKE	1490
	KLIC	1230	Nearaska City, Nebr.	KNCY	1600		KNZJ	1310		KOKE	1490
	KNDE	540	Needles CA	KSFE	1340		KNZJ	1310		KOKE	1490
	WQTE	560	Neenah, Wis.	WNAM	1280		KNZJ	1310		KOKE	1490
	WIXE	1190	Nellisville, Wis.	WCEN	1370		KNZJ	1310		KOKE	1490
	WAPF	1060	Nelsonville, O.	WNKY	1490		KNZJ	1310		KOKE	1490
	WEAZ	1260	Neon, Ky.	WNAL	940		KNZJ	1310		KOKE	1490
	WMFC	1360	Neosho, Mo.	KBTN	1420		KNZJ	1310		KOKE	1490
	WPSP	1510	Nevada, Mo.	KNEM	1240		KNZJ	1310		KOKE	1490
	KIDD	630	New Albany, Ind.	WHEL	1570		KNZJ	1310		KOKE	1490
	KMBY	1240	New Albany, Miss.	WREY	1290		KNZJ	1310		KOKE	1490
	KDMA	1460	Newark, Del.	WNRK	1260		KNZJ	1310		KOKE	1490
	KSLY	1240	Newark, N.J.	WVNJ	670		KNZJ	1310		KOKE	1490
	KSTY	1240	Newark, N.Y.	WNJR	1430		KNZJ	1310		KOKE	1490
	WBAM	740	New Bedford, Mass.	WBSL	1420		KNZJ	1310		KOKE	1490
	WAPX	1600	New Bern, N.C.	WHIT	1430		KNZJ	1310		KOKE	1490
	WCOV	1170	Newberry, Mich.	WNB5	1450		KNZJ	1310		KOKE	1490
	WHY4	1440	Newberry, S.C.	WKDK	1240		KNZJ	1310		KOKE	1490
	WICY	800	New Boston, Ohio	WIO1	1010		KNZJ	1310		KOKE	1490
	WRMA	950	New Boston, Tex.	KNBO	1530		KNZJ	1310		KOKE	1490
Montgomery, W. Va.	WMON	1340					KNZJ	1310		KOKE	1490
Monticello AR	KHBM	1430					KNZJ	1310		KOKE	1490
Monticello, Fla.	WBSD	1090					KNZJ	1310		KOKE	1490
Monticello, Ky.	WFLB	1380					KNZJ	1310		KOKE	1490
Monticello, Miss.	WMLC	1270					KNZJ	1310		KOKE	1490
Montpelier, Ida.	KVSI	1450					KNZJ	1310		KOKE	1490
Montpelier-Barra, Vt.	WSKI	1240					KNZJ	1310		KOKE	1490
Montrose, Colo.	KUBC	580					KNZJ	1310		KOKE	1490
Montrose, Pa.	WPEL	1250					KNZJ	1310		KOKE	1490
Mooreville, N.C.	WHIP	1350					KNZJ	1310		KOKE	1490
Moorehead, Minn.	KVIX	1300					KNZJ	1310		KOKE	1490
Moorehead Ky.	WMOR	1330					KNZJ	1310		KOKE	1490
Moorehead City, N.C.	WMBL	740					KNZJ	1310		KOKE	1490
Morgan City, La.	KMRK	1430					KNZJ	1310		KOKE	1490
Morganfield, Ky.	WNSK	1550					KNZJ	1310		KOKE	1490
Morgantown, N.C.	WMNC	1430					KNZJ	1310		KOKE	1490
Morgantown, W. Va.	WATR	1440					KNZJ	1310		KOKE	1490
	WCLG	1300					KNZJ	1310		KOKE	1490
Morrilton AR	KVOM	800					KNZJ	1310		KOKE	1490
Morris, Ill.	WCSS	1550					KNZJ	1310		KOKE	1490
Morris, Minn.	KMRS	1230					KNZJ	1310		KOKE	1490
Morristown, N.J.	WMTR	1250					KNZJ	1310		KOKE	1490
Morristown, Tenn.	WCRC	1150					KNZJ	1310		KOKE	1490
	WVNR	1300					KNZJ	1310		KOKE	1490
Morro Bay, Calif.	KBAI	1150					KNZJ	1310		KOKE	1490
Morton, Tex.	KRAN	1280					KNZJ	1310		KOKE	1490
Moscow, Idaho	KRPL	1400					KNZJ	1310		KOKE	1490
Moses Lake, Wash.	KSEM	1470					KNZJ	1310		KOKE	1490
	KWIQ	1260					KNZJ	1310		KOKE	1490

Location	C.L. kHz	Location	C.L. kHz	Location	C.L. kHz	Location	C.L. kHz
Rock Hills, S.C.	WRHI 1340 WYCY 1150 WAYN 900	St. Petersburg Beach, Fla.	WLCY 1380 WILZ 1590 WGLG 1590	San Mateo, Calif.	KOFY 1050 KTM 1510 KBA 1410	Sheldon, Iowa	WLJ 1580 KIVA 1550
Rockingham, N.C.	WYON 1500 WBF 1270 WRKD 1450	Salamanea, N.Y.	WJBD 1350 WBLM 1220 WEXB 1230	San Rafael, CA	KWIZ 1480 KDB 1490 KGUD 990	Shelf Lake, Wis.	WCWB 940 KMA 1280
Rock Island, Ill.	WRKF 1270 WPLK 1220 KVRB 1360	Salem, Ind.	WJIC 1510 WSOM 800 KSLM 1360	San Sebastion, P.R.	WFBA 1460 KIST 1340 KTMS 1250	Shenandoah, Iowa	KFNF 920 WMBT 1530
Rockland, Maine	WRFD 1450 WRK 1220 KVRB 1360	Salem, Mass.	WJIC 1510 WSOM 800 KSLM 1360	Santa Ana, Calif.	KWIZ 1480 KDB 1490 KGUD 990	Shenandoah, Pa.	KFNF 920 KWYO 1410
Rock Springs, Wyo.	WRK 1220 KVRB 1360 WRK 800	Salem, N.J.	WJIC 1510 WSOM 800 KSLM 1360	Santa Barbara, Cal.	KGUD 990 KIST 1340 KTMS 1250	Sheridan, Wyo.	KWYO 1410 KROE 950
Rockville, Conn.	WRK 800 WIXN 1600 WFE 1360	Salem, O.	WJIC 1510 WSOM 800 KSLM 1360	San Diego, Calif.	KWIZ 1480 KDB 1490 KGUD 990	Sherman, Tex.	KROE 950 KXTO 1500
Rockwood, Tenn.	WIXN 1600 WFE 1360 KAVI 1320	Salt Lake City, Utah	WJIC 1510 WSOM 800 KSLM 1360	Santa Clara, Cal.	KEGL 1430 KSCO 1080 KTRC 1400	Shippenburg, Pa.	WSHP 1480 KVBL 1450
Rocky Ford, Colo.	KAVI 1320 WCEC 810 WEED 1390	Salina, Kans.	WJIC 1510 WSOM 800 KSLM 1360	Sante Fe, N.Mex.	KTRC 1400 KAFF 810 KVSF 1260	Sioux Falls, S.Dak.	KVWM 970 KBCL 1220 KEEL 710
Rocky Mount, Va.	WEED 1390 WRMT 1490 WKWS 1290	Salinas, Calif.	WJIC 1510 WSOM 800 KSLM 1360	Santa Maria, Cal.	KAFF 810 KVSF 1260 KUHL 1440	Sioux Center, Iowa	KVDB 1090 KSCJ 1380 KMNS 620
Rogers AR	WYTI 1570 KAMO 1390 WIAK 960	Salinas, P.R.	WJIC 1510 WSOM 800 KSLM 1360	Santa Monica, Cal.	KUHL 1440 KSMO 1230 KZON 1609	Sioux Falls, S.Dak.	KVDB 1090 KSCJ 1380 KMNS 620
Rogers City, Mich.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, Mich.	WJIC 1510 WSOM 800 KSLM 1360	Santa Paula, Cal.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rogersville, Tenn.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Santa Rosa, N.Mex.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rolla, Mo.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Sapulpa, Okla.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rome, Ga.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Saranac Lake, N.Y.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rome, N.Y.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Sarasota, Fla.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Ronceverte, W.Va.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Saratoga Springs, N.Y.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Roseau, Minn.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Sauk Rapids, Minn.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Roseburg, Oreg.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Sault Ste. Marie, Mich.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rose Hill, N.C.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Savannah GA	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rosenberg, Tex.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Savannah, Tenn.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Roseville, Cal.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Says, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rosville, Ga.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Schenestady, N.Y.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Roswell, N.Mex.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Scottland Neck, N.C.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Roxboro, N.C.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Scott City, Kans.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Royal Oak, Mich.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Scottsbluff, Nebr.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Royton, Ga.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Scottsboro AL	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rugby, N.Dak.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Scottsdale AZ	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Ruidoso, N.Mex.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Scottsville, Ky.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rumford, Me.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rupert, Idaho	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rushton, La.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rusk, Texas	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Russell, Kans.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Russellville AL	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Russellville AR	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Russellville, Ky.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rutland, Vt.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Rutherfordton, N.C.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Sacramento, Calif.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Safford, Ariz.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Sag Harbor, N.Y.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
Saginaw, Mich.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Albans, Vt.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Albans, W.Va.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Anthony, Ida.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Augustine, Fla.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Charles, Mo.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Cloud, Minn.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. George, S.C.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. George, Utah	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Helens, Oreg.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Ignace, Mich.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Johns, Mich.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Johns, N.Y.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Joseph, Mich.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Joseph-Benton Harbor, Mich.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Joseph, Mo.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Louis, Mo.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Louis Park, Minn.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Maries ID	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Mary's, Pa.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Paul MN (see Minneapolis-St. Paul MN)	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Pauls NC	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Peter, Minn.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Petersburg, Fla.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620
St. Petersburg Beach, Fla.	WYTI 1570 KAMO 1390 WIAK 960	Salisbury, N.C.	WJIC 1510 WSOM 800 KSLM 1360	Seranton, Pa.	KQI 1400 KSR 1350 KVR 1480	Sitka AK	KVDB 1090 KSCJ 1380 KMNS 620

WHITE'S RADIO LOG

Call	Location	kHz	Call	Location	kHz	Call	Location	kHz
KBTN	Neosho, Mo.	1420	KEIN	Great Falls MT	1310	KFSB	Jonlin, Mo.	1310
KBUB	Sparks, Nev.	1370	KELA	Centralia-Checkalis, Wash.	1470	KFCSE	Denver, Colo.	1220
KBUN	San Antonio, Tex.	1410	KELD	El Dorado AR	1400	KFST	Ft. Stockton, Tex.	860
KBUD	Athens, Tex.	1410	KELI	Tulsa, Okla.	1430	KFTM	Ft. Morgan, Colo.	1400
KBUG	Springfield MO	1060	KELK	Elko, Nev.	1240	KFTW	Frederickstown, Mo.	1450
KBUH	Brimingham City, Utah	800	KELO	Sioux Falls, S.Dak.	1320	KFNV	N Las Vegas, N.Mex.	1230
KBUN	Bridgidi, Minn.	1450	KELP	El Paso, Tex.	1920	KFVS	Cap Girardeau, Mo.	860
KBUR	Burlington, Iowa	1490	KELR	El Reno, Okla.	1460	KFWB	Los Angeles, Calif.	980
KBUS	Mexia, Tex.	1590	KELY	Ely, Nev.	1230	KFWJ	Lake Havasu City AZ	980
KBUY	Ft. Worth TX	1540	KENM	Marshallfield, Mo.	1510	KFXD	Nampa, Idaho	580
KBUZ	Mesa AZ	1310	KENM	Mena AR	1450	KFKM	San Bernardino, Calif.	590
BvM	Leicester, Calif.	1380	KENT	Las Vegas, Nev.	1070	KFYD	Burham, Tex.	1420
KBWD	Brownwood, Tex.	1540	KENN	Farmington, N.M.	1390	KFYR	Bismarek, N.Dak.	550
KXMI	Kennett, Mo.	1540	KENR	Portales, N.Mex.	1450	KJEL	Apoyago Grande CA	1280
KXLA	Osage City, Okla.	990	KENR	Farmington, N.M.	1390	KGA	Snokeane, Wash.	1510
KBYG	Big Springs, Tex.	1400	KENR	Houston, Tex.	1340	KGAF	Gainesville, Tex.	1580
KBYP	Shamrock, Tex.	1580	KENR	Prescott, Ariz.	1460	KGB	Lebanon, Ore.	920
KBYP	Anchorage AK	700	KEDR	Atoka, Okla.	1110	KGB	Vancouver, Wash.	1550
KBZB	Odessa, Tex.	920	KEDR	Flagstaff AZ	690	KGB	Carthage, Tex.	1360
KBZL	Salern, Dreg.	1480	KEPS	Eagle Pass, Tex.	1270	KGB	Salern, Ore.	1430
KBZZ	Ladonia, Colo.	1400	KERB	Kermit, Tex.	600	KGB	San Diego, Calif.	1360
KCAD	Dardanelle AR	980	KERC	Eastland, Tex.	1590	KGBS	Los Angeles, Calif.	1020
KCAD	Ahilene, Tex.	1560	KERE	Denver CO	1280	KGBT	Harding, Mo.	1350
KCAL	Redlands, Calif.	1410	KERG	Eugene, Ore.	1410	KGBX	Springfield, Mo.	1260
KCAM	Glennallen AK	790	KERN	Bakersfield, Calif.	1410	KGC	Rugby, N.D.	1450
KCAN	Canyon, Tex.	1550	KERV	Kerrville, Tex.	1230	KGCL	East Prairie, Mo.	1080
KCAP	Helena, Mont.	1340	KESM	Eldorado Spring, Mo.	1580	KGCX	Sidney, Mont.	1480
KCAR	Clarksville, Tex.	1050	KESM	Livingston, Tex.	1450	KGDN	Edmonds, Wash.	630
KCAT	Pine Bluff AR	1540	KEUN	Eunice, La.	1490	KGEK	Stirling, Colo.	1420
KCAW	Port Arthur, Tex.	1310	KEVA	Evanson, Wyo.	1240	KGEM	Boise, Idaho	1140
KCB	Des Moines, Iowa	1390	KEVT	Tucson AZ	690	KGEN	Tulare, Calif.	1370
KCB	Reno, Nev.	1230	KEWP	N. Little Rock AR	1480	KGER	Long Beach, Calif.	1390
KCBS	San Diego, Calif.	1330	KEWP	Paradise, Cal.	1510	KGEZ	Kalispell, Mont.	600
KCBS	San Fran., Calif.	1740	KEWP	Portland, Ore.	1190	KGF	Shawnee, Okla.	1450
KCCB	Corning AR	1260	KEXO	Grand Junc., Colo.	1230	KGFJ	Los Angeles, Calif.	1230
KCCD	Paris, Ariz.	930	KEYE	Excelsior Springs, Mo.	1090	KGFL	Roswell, N.M.	1430
KCCN	Honolulu, Hawaii	1420	KEYE	Perrytown, Tex.	1400	KGFW	Kearney, Nebr.	1340
KCCD	Lawton, Okla.	1050	KEYJ	Jamestown, N.Dak.	1400	KGFX	Pierre, S.D.	1060
KCCR	Pierre, S. D.	1240	KEYL	Long Prairie, Minn.	1400	KGGG	Curtleyville, Kans.	690
KCCS	Salern, DR	1220	KEYN	Wichita, Kan.	900	KGGH	Albany, N.Mex.	690
KCCY	Corpus Christi, Tex.	1510	KEYR	Terrytown, Nebr.	690	KGHL	Billings, Mont.	790
KCCY	Tucson AZ	790	KEYS	Corpus Christi, Tex.	1440	KGHM	Brookfield, Mo.	1470
KCF	Tulsa, Okla.	1330	KEYT	Provo, Utah	1550	KGHD	Haquiam, Wash.	1560
KCFA	Spokane, Wash.	1390	KEYW	Williston, N.Dak.	1360	KGHS	International Falls, Minn.	1230
KCFH	Cuero, Tex.	1600	KEYZ	Spokane, Wash.	1590	KGL	San Fernando, Calif.	1260
KCFI	Cedar Falls, Iowa	1250	KFAB	Omaha, Nebr.	1110	KGLV	Alamosa, Colo.	960
KCHA	Charles City, Iowa	1580	KFAC	Los Angeles, Calif.	1330	KGKL	San Angelo, Tex.	960
KCHE	Cherokee, Iowa	1440	KFAH	Lakewood Center, Wash.	1480	KGKO	Benton AR	850
KCHF	Sioux Falls, S.D.	1520	KFAI	Fulton, Mo.	900	KGLA	Gretna, La.	1540
KCHI	Chillicothe, Mo.	1010	KFAM	St. Cloud, Minn.	900	KGLC	Miami, Okla.	910
KCHJ	Delano, Calif.	1010	KFAR	Fairbanks AK	660	KGLE	Glendive, Mont.	590
KCHR	Charleston, Mo.	1350	KFAX	San Francisco, Calif.	1100	KGLM	Glenn, Calif.	1240
KCHS	Truth or Consequences, N.M.	1400	KFAY	Fayetteville AR	1250	KGLN	Glennwood Sprngs., Colo.	980
KCHY	Concepcion, Calif.	970	KFBC	Cheyenne, Wyo.	1240	KGLS	Mason City, Iowa	1300
KCIA	Humble City, N.Mex.	1110	KFBD	Waynesville, Mo.	1270	KGLU	Safford, Ariz.	1480
KCID	Caldwell, Idaho	1490	KFBK	San Ramon, Calif.	1530	KGLV	The Dalles OR	1440
KCI	Washington, Iowa	1380	KFCB	Nocales AZ	1340	KGM	Honolulu, Hawaii	590
KCI	Shreveport, La.	980	KFCB	Redfield, S. Dak.	1380	KGMJ	Bellingham, Wash.	790
KCIM	Carroll, Iowa	1360	KCFD	Ven Buren AR	1380	KGMO	Cap Girardeau, Mo.	1220
KCIN	Victorville, Calif.	1590	KCFI	Wichita, Kansas	1070	KGMR	Jacksonville AR	1500
KCJB	Minot, N.Dak.	1350	KCFR	Grand Coulee, Wash.	1360	KGMS	Sacramento, Calif.	1380
KCKC	San Bernardino, Cal.	1350	KCFR	Pueblo, Colo.	970	KGNT	Grand Rapids, Nebr.	1310
KCKN	Kansas City, Kans.	1340	KCFJ	St. Joseph, Mo.	680	KGNY	Missouri, Mo.	1450
KCKW	Jena, La.	1480	KFFA	Helena AR	760	KGNB	New Braunfels, Tex.	1420
KCLA	Pine Bluff AR	1150	KFGO	Fargo, N.D.	1390	KGNC	Amarillo, Tex.	710
KCLE	Cleburne, Tex.	1120	KFGQ	Boone, Iowa	1260	KGND	Dodge City, Kans.	1370
KCLK	Clarkston, Wash.	1430	KFHI	Wichita, Kans.	1330	KGO	San Francisco, Calif.	810
KCLM	Redding, Cal.	1330	KFJ	Los Angeles, Calif.	970	KGOE	Chaffee, Colo.	1150
KCLN	Clinton, Iowa	1390	KFJZ	Ft. Worth, Tex.	1270	KGOS	Torrington, Wyo.	1490
KCLR	Leavenworth, Kans.	1410	KFKA	Greeley, Colo.	1310	KGPC	Grafton, N.Dak.	1340
KCLS	Flagstaff AZ	1530	KFKU	Lawrence, Kans.	1250	KGRB	West Covina, Cal.	900
KCLU	Rolla, Mo.	1590	KFLA	Scott City, Kans.	1310	KGRI	Henderson, Tex.	1000
KCLV	Clovis, N.Mex.	1240	KFLD	Floydada, Tex.	900	KGR	Grand, Iowa	940
KCLW	Hamilton, Tex.	900	KFLM	Mountain Home, Ida.	1240	KGR	Pampa, Tex.	1230
KCM	Colfax, Wash.	1450	KFLN	Baker, Mont.	1400	KGRS	Las Cruces, N.Mex.	530
KCMC	Texas, Okla.	1010	KFLP	Floydada TX	900	KGST	Fresno, Calif.	1600
KCMJ	Palm Sprngs, Calif.	1470	KFLS	Klamath Falls OR	1430	KGTN	Georgetown, Tex.	1530
KCMO	Kansas City, Mo.	810	KFLV	Corvallis, Ore.	1240	KGU	Honolulu, Hawaii	760
KCMX	Ashtand OR	580	KFLW	Walshboro, N.H.	1380	KGUC	Gunnison, Colo.	1490
KCNI	Broken Bow, Nebr.	1280	KFLX	Baker, Mont.	1400	KGUD	Santa Barbara, Calif.	690
KCNI	Alturas, Calif.	570	KFLY	Floydada TX	900	KGUL	Port Larc, Tex.	1560
KCN	Tulsa, Okla.	1300	KFLZ	Klamath Falls OR	1430	KGV	Greenville, Tex.	1490
KCNY	San Marcos, Tex.	1450	KFN	Ferriday, La.	1800	KGVO	Missoula, Mont.	1200
KCOB	Newton, Iowa	1280	KFN	Fargo, N.Dak.	900	KGVW	Belgrade, Mont.	630
KCOG	Centerville, Iowa	1400	KFD	Lincoln, Nebr.	1240	KGW	Portland, Ore.	620
KCOH	Houston, Tex.	1430	KFD	Lincoln, Nebr.	1240	KGW	Enid, Okla.	960
KCOK	Tulare, Calif.	1270	KFD	Rosenberg-Richmond, Tex.	1430	KGY	Dismock, Wash.	1240
KCOL	Ft. Collins, Colo.	1410	KFE	Fresno, Calif.	980	KGYN	Guyman, Okla.	1200
KCOM	Comanche, Tex.	1450	KFER	Ferriday, La.	1800	KHAC	Window Rock AZ	1300
KCON	Conway AR	1230	KFER	Fargo, N.Dak.	900	KHAD	DeSoto, Mo.	1190
KCOR	San Antonio, Tex.	1350	KFER	Lincoln, Nebr.	1240	KHAI	Homer, Utah	1060
KCOW	Alliance, Nebr.	1400	KFF	Fairbanks AK	900	KHAR	Cedar Rapids, Iowa	1320
KCRA	Salt Lake City, Utah	1320	KFF	Fort Smith AR	1230	KHAP	Aztec, N.M.	1340
KCR	Sacramento, Calif.	1320	KFG	Anchorage AK	750	KHAR	Anchorage AK	590
KCRG	Enid, Okla.	1390	KFR	Franklin, La.	1300	KHAS	Hastings, Nebr.	1230
KCRG	Cedar Rapids, Iowa	1600	KFR	Fairbanks AK	900	KHBN	Monticello AR	1430
			KFR	San Francisco, Calif.	610	KHBR	Hillsboro, Tex.	1560
			KFR	Rosenberg-Richmond, Tex.	1430	KHCS	Phoenix Ariz.	1010
			KFR	Fresno, Calif.	980	KHON	Hardin, Mont.	1230
			KFRM	Salina, Kan.	940	KHEM	Big Springs, Tex.	1270
			KFR	Longview, Tex.	1370	KHEN	Henryetta, Okla.	930
			KFR	Columbia, Mo.	1400	KHEP	Phoenix AZ	1280
			KFSA	Fort Smith AR	950	KHEY	El Paso, Tex.	1590
						KHIT	Walla Walla, Wash.	1230

WHITE'S RADIO LOG

Call	Location	kHz	Call	Location	kHz	Call	Location	kHz
KREK	Sapulpa, Okla.	1550	KSL Salt Lake City, Utah	1160	KTOE	Mankato, Minn.	1420	
KREL	Corona, Cal.	1370	KSLM Salem, Oreg.	1390	KTOH	Lihue, Hawaii	1350	
KREM	Spokane, Wash.	970	KSLQ Opelousas, La.	1230	KTOK	Oklahoma City, Okla.	1000	
KREO	Indio, Calif.	1400	KSLV Monte Vista, Colo.	1240	KTON	Sailinas, Cal.	1380	
KREW	Sunnyside, Wash.	1230	KSLY San Luis Obispo, Cal.	1400	KTOM	Belton, Tex.	940	
KREX	Grand Junction, Colo.	1100	KSMA Santa Maria, Calif.	1240	KTOP	Topeka, Kans.	1490	
KRF0	Owatonna, Minn.	1390	KSMK Kennebec, Me.	1340	KTOT	Big Bear Lake, Cal.	1500	
KRFS	Superior, Neb.	1430	KSMN Richmond, Wash.	1240	KTOW	Wichita Springs, Okla.	1340	
KRGG	Grand Island, Neb.	1430	KSMN Shakopee, Minn.	1530	KTPA	Prescott AR	1370	
KRGV	Weslaco, Tex.	1550	KSMN Mason City, Iowa	1010	KTRB	Modesto, Calif.	860	
KRGO	Salt Lake City, Utah	1290	KSMO Salem, Mo.	1240	KTRC	Santa Fe, N.Mex.	1430	
KRHD	Duncan, Okla.	1350	KSNM Poentello, Ida.	1390	KTRF	Thief River Falls, Minn.	1200	
KRIB	Mason City, Iowa	1490	KSNP Aspen, Colo.	1260	KTRG	Honolulu HI	990	
KRIS	Odessa, Tex.	1410	KSNY Snyder, Tex.	1460	KTRH	Houston, Tex.	740	
KRIR	Phoenix, Lx.	990	KSOA Ava, Mo.	1430	KTRI	Sioux City, Iowa	940	
KRKL	McAllen, Tex.	910	KSOA Des Moines, Iowa	1280	KTRM	Beaumont, Tex.	1470	
KRIZ	Rayville, La.	1230	KSOA Arkansas City, Kans.	1510	KTRN	Wichita Falls, Tex.	1290	
KRKC	King City, Calif.	1490	KSOM Ontario, Cal.	1510	KTRT	Truckee, Cal.	1500	
KRKO	Everett, Wash.	1380	KSOO San Diego, Calif.	1240	KTRV	Baytown, La.	730	
KRKT	Albany, Ore.	990	KSOO Sioux Falls, S.Dak.	1440	KTSA	San Antonio, Tex.	550	
KRKA	Pasadena, Calif.	1110	KSOP Salt Lake City, Utah	1370	KTSM	El Paso, Tex.	1380	
KRLC	Lewiston, Ida.	1350	KSOX Raymondville, Tex.	1240	KTTN	Trenton, Mo.	1600	
KRLD	Clarkston, Wash.	1350	KSPD Boise, Idaho	790	KTRR	Rolla, Mo.	1490	
KRLD	Dallas, Tex.	1400	KSPD Stillwater, Okla.	780	KTRS	Springfield, Mo.	1400	
KRLN	Canon City, Colo.	1400	KSPD Diboll, Tex.	1260	KTRT	Springfield, Mo.	1400	
KRLW	Walnut Ridge AR	1320	KSPD Spokane, Wash.	1230	KTRU	Lincoln, Neb.	1400	
KRMC	Midwest City OK	1220	KSPR Springdale AR	1590	KTUC	Tucson AZ	520	
KRMD	Shreveport, La.	1340	KSPT Sandpoint, Idaho	940	KTUF	Tempe AZ	1580	
KRME	Hondo, Tex.	1460	KSRA Salmon, Idaho	1600	KTUL	Tulia, Tex.	1260	
KRMG	Tulsa, Okla.	1470	KSRC Socorro, N.Mex.	1290	KTUI	Sullivan, Mo.	1560	
KRML	McAllen, Tex.	1410	KSRM Soldotna AK	920	KTWS	Seattle, Wash.	1250	
KRMO	Monett, Mo.	990	KSRP Santa Rosa, Calif.	1350	KTWJ	Casper, Wyo.	1030	
KRMS	Osage Beach, Mo.	1150	KSRV Ontario, Oreg.	1380	KTXJ	Jasper, Tex.	1350	
KRNR	Roseburg, Oreg.	1490	KSSS Colorado Springs, Colo.	740	KTXO	Sherman, Tex.	1500	
KRNS	Burns, Oreg.	1230	KSSU Sulphur Springs, Tex.	1230	KTYM	Inglewood, Calif.	1460	
KRNT	Des Moines, Iowa	1350	KSTA Coleman, Tex.	1000	KTYN	Minot, N.D.	1430	
KRNY	Kearney, Neb.	1460	KSTB Breckenridge, Tex.	1430	KUD	Indsor, Okla.	1170	
KRNB	Rockwell, Tex.	1110	KSTN Stockton, Calif.	1420	KUAT	Elekahe, Hawaii	690	
KROC	Rochester, Minn.	1340	KSTP St. Paul, Minn.	1500	KUBA	Yuba City, Calif.	1600	
KROD	El Paso, Tex.	600	KSTR Grand Junction, Colo.	620	KUCM	Montrose, Colo.	580	
KROE	Sheridan, Wyo.	930	KSTT Davenport, Iowa	1170	KUDE	Oceanside, Calif.	1320	
KROF	Abbeville, La.	960	KSTV Stephenville, Tex.	1510	KUDI	Great Falls, Mont.	1450	
KROP	Brawley, Calif.	1300	KSTW Kansas City, Mo.	1590	KUFI	Fairway, Kan.	1380	
KROQ	Burbank CA	850	KSUW West Memphis AR	730	KUFW	Fort Worth, Wash.	1500	
KROS	Clinton, Iowa	1340	KSUE Susanville, Calif.	1240	KUEN	Wenatchee, Wash.	900	
KROW	Dallas, Ore.	1260	KSUM Fairmont, Minn.	1370	KUGN	Eugene, Oreg.	590	
KROX	Crookston, Minn.	1460	KSUN Bisbee AZ	1230	KUHL	Santa Maria, Cal.	1440	
KROY	Sacramento, Calif.	1240	KSVK Richfield, Utah	980	KUIK	Hillsboro, Oreg.	1360	
KRPL	Moscow, Idaho	1400	KSVN Ogden, Utah	730	KUJL	Walla Walla, Wash.	1420	
KRPT	Maple, Tex.	850	KSWP Santa Rosa, N.Mex.	920	KUKP	Kingston, Tex.	1450	
KRRR	Ruidoso, N.Mex.	1340	KSWA Graham, Tex.	1330	KUKI	Ukiah, Calif.	1400	
KRRV	Sherman, Tex.	910	KSWB Seaside, Oreg.	930	KUKU	Willow Springs, Mo.	1330	
KRSA	Salinas, Cal.	1570	KSWM Aurora, Mo.	940	KULA	Honolulu, Hawaii	690	
KRSC	Othello, Wash.	1400	KSWO Lawton, Okla.	1380	KULB	Ephrata, Wash.	730	
KRSD	Rapid City, S.Dak.	1340	KSWR Roswell, N. M.	1020	KULH	Houston, Tex.	1290	
KRSE	St. Louis Park, Minn.	950	KSWW Wickenburg, AZ	1250	KULP	El Campo, Tex.	1380	
KRSL	Russell, Kans.	990	KSXX Salt Lake City, Utah	630	KULY	Ulysses, Kan.	1420	
KRSN	Los Alamos, N.Mex.	1440	KSYC Yreka, Calif.	1490	KUMA	Pendleton, Oreg.	1290	
KRSP	Salt Lake City, Utah	1060	KSYL Alexandria, La.	970	KUMU	Honolulu, Hawaii	1500	
KRSY	Roswell, N.Mex.	1230	KSYX Santa Rosa, N.Mex.	1420	KUNO	Corpus Christi, Tex.	1400	
KRST	Raton, N.Mex.	1490	KTAC Tacoma, Wash.	850	KUOS	Silvian, Oreg.	1230	
KRST	Thermopylae, Wyo.	1490	KTAE Taylor, Tex.	1280	KUOM	Minneapolis, Minn.	770	
KRUN	Ballinger, Tex.	1400	KTAM Bryan TX	1240	KUPD	Tempe AZ	1060	
KRUS	Ruston, La.	1490	KTAN Sierra Vista AZ	1420	KUPJ	Idaho Falls, Idaho	980	
KRUV	Glendale AZ	1360	KTAP Austin, Tex.	970	KUPK	Garden City, Kan.	1050	
KRVN	Lexington, Neb.	880	KTAR Phoenix AZ	620	KURJ	Moab, Utah	1450	
KRWB	Roseau, Minn.	1410	KTAT Frederick, Okla.	1570	KURL	Mountlake Terrace, Wash.	1300	
KRWG	Waxahatchie, N.C.	1300	KTBB Tyler, Tex.	800	KURS	Wash.	1470	
KRXA	Seward AK	950	KTCB Malden, Mo.	1470	KURT	Billings, Mont.	730	
KRXX	Rexburg, Idaho	1230	KTCX Wayne, Neb.	590	KURV	Edinburg, Tex.	910	
KRYS	Corpus Christi, Tex.	1360	KTCR Minneapolis, Minn.	690	KURV	Brookings, Oreg.	710	
KRYT	Colo Springs, Colo.	1530	KTCF Fort Smith AR	1410	KUSD	Vermillion, S.Dak.	690	
KRZE	Farmington, N.M.	1280	KTDL Farmersville, La.	1470	KUSH	Cushing, Okla.	1600	
KRZF	Orange, Tex.	1580	KTDI Killeen, Tex.	1250	KUTL	Ukiah, Wyo.	1280	
KRZY	Albuquerque, N.M.	1450	KTEE Idaho Falls, Idaho	1260	KUTA	Blanding, Utah	790	
KRSC	Manhattan, Kans.	580	KTEL Walla Walla, Wash.	1490	KUTI	Yakima, Wash.	980	
KSAL	Salina, Kans.	1490	KTEM Temple, Tex.	1400	KUTY	Palmdale, Calif.	1470	
KSAM	Huntsville, Tex.	1150	KTEO San Angelo, Tex.	1340	KUUU	Seattle, Wash.	1590	
KSBY	San Francisco, Calif.	1010	KTER Terrell, Tex.	1570	KUVR	Holdrege, Neb.	1380	
KSCB	Liberal, Kans.	1270	KTEP Payette, Idaho	1450	KUXL	Golden Valley, Minn.	1570	
KSCJ	Sloux City, Iowa	1360	KTFI Twin Falls, Idaho	1270	KUZN	W. Monroe, La.	1310	
KSCO	Santa Cruz, Calif.	1080	KTFS Texarkana, Tex.	1400	KUZZ	Bakersfield, Calif.	800	
KSD	St. Louis, Mo.	550	KTGO Tioga, N. D.	1090	KVAC	Forks, Wash.	1490	
KSDN	Aberdeen, S.Dak.	930	KTRG Columbia, Mo.	1580	KVAN	Vancouver, Wash.	1480	
KSDP	San Diego, Calif.	1330	KTJH Hobart, Oreg.	1420	KVOS	Silvian, Oreg.	1230	
KSDR	Watson, S.Dak.	1480	KTHE Thermopilis, Wyo.	1240	KVBR	Brainerd, Minn.	1340	
KSEE	Santa Maria, Calif.	1480	KTHO South Lake Tahoe, Cal.	1480	KVCK	Wolf Point, Mont.	1450	
KSEI	Pacatello, Idaho	930	KTHS Berryville, Ark.	590	KVCL	Winfield, La.	1270	
KSEK	Pittsburgh, Kans.	1340	KTIB Thilodaux, La.	630	KVCS	Redding, Calif.	600	
KSEI	Lubbock, Tex.	950	KTIL Tillamook, Oreg.	1590	KVCB	Sioux Center, Ia.	1090	
KSEM	Ness, Cal. Wash.	1470	KTIN San Rafael, Calif.	1510	KVCF	San Luis Obispo, Calif.	820	
KSEN	Shelby, Mont.	1150	KTIP Porterville, Calif.	1450	KVEE	Conroe, Ar.	1330	
KSEW	Durant, Okla.	750	KTIS Minneapolis, Minn.	900	KVEG	Las Vegas, Nev.	970	
KSET	El Paso, Tex.	1340	KTIX Pendleton, Ore.	1240	KVEL	Vernal, Utah	920	
KSEW	Sitka, Alaska	1400	KTJS Hobart, Okla.	1420	KVEN	Ventura, Calif.	1450	
KSEY	Seymour, Tex.	1230	KTKN Ketchikan AK	950	KVET	Austin, Tex.	1300	
KSFA	Nacogdoches, Tex.	860	KTKR Rich, Calif.	740	KVFD	Cortez, Colo.	740	
KSFE	Nedries CA	1340	KTKT Tucson AZ	990	KVFE	J. Dodge, Iowa	1400	
KSFO	San Francisco, Calif.	560	KTLD Tullulah, La.	1360	KVGB	Great Bend, Kans.	1590	
KSGM	Chester, Ill.	980	KTLK Denver, Colo.	1280	KVIC	Seattle, Wash.	970	
KSGJ	Jackson, Wyo.	1340	KTLO Mountain Home AR	1240	KVIC	Victoria, Tex.	1340	
KSHA	Medford, Ore.	860	KTLQ Tahquamenon, Okla.	1350	KVIL	Highland Park, Tex.	1150	
KSIB	Oreston, Iowa	1520	KTLR Rich, Tex.	1510	KVJL	Okla.	1210	
KSID	Sidney, Neb.	1340	KTLW Texas City, Tex.	920	KVJO	Cottonwood AZ	1600	
KSIF	Crowley, La.	1450	KTMC McAlester, Okla.	1400	KVIP	Redding, Calif.	540	
KSIL	Silver City, N.Mex.	1340	KTMF New Prague, Minn.	1350	KVKM	Monahans, Tex.	1330	
KSIM	Sikeston, Mo.	1400	KTMM Trumann AR	1530	KVLF	Alpine, Tex.	1240	
KSJM	Sedalia, Mo.	1030	KTMS Santa Barbara, Calif.	1250	KVLC	Langrange, Tex.	1210	
KSKA	Woodward, Okla.	1450	KTNC Falls City, Mo.	1230	KVLL	Woodsley, Okla.	1470	
KSKX	Corpus Christi, Tex.	1230	KTNM Tucumcari, N.Mex.	1400	KVLL	Woodville, Tex.	1220	
KSJB	Jamestown, N.Dak.	600	KNTT Tacoma, Wash.	1400	KVMA	Fallon, Nev.	930	
KSKI	Halley, Ida.	1340	KTOB Petaluma, Cal.	1490	KVMA	Magnolia Ar.	680	
KSKY	Dallas, Tex.	660	KTOC Jonesboro, La.	920	KVMC	Colorado City, Tex.	1320	

WHITE'S RADIO LOG

Call	Location	kHz	Call	Location	kHz	Call	Location	kHz
WIZR	Johnstown, N. Y.	930	WKAL	Rome, N.Y.	1450	WKRC	Cincinnati, Ohio	550
WIZS	Henderson, N.C.	1450	WKAM	Goshen, Ind.	1460	WKRK	Mobile AL	710
WIZZ	Streator, Ill.	1250	WKAN	Kankakee, Ill.	1320	WKRT	West Warwick RI	1450
WJAB	Westbrook-Portland ME	1440	WKAO	Boynton Beach FL	1510	WKRK	Murphy, N.C.	1320
WJAC	Tuftsboro, Pa.	920	WKAP	Arlington, Pa.	1320	WKRK	Columbia, Tenn.	1340
WJAG	Norfolk, Nebr.	780	WKAQ	San Juan, P.R.	580	WKRK	San Jose, Ill.	1490
WJAK	Jackson, Tenn.	1450	WKAR	East Lansing, Mich.	870	WKRK	Waukegan, Ill.	1220
WJAM	Marion AL	1310	WKAT	Miami Beach, Fla.	1360	WKRK	Curtland, N.Y.	1420
WJAP	Providence, R.I.	920	WKAU	Kaukauna, Wis.	1050	WKRK	Cartersville, Ga.	1270
WJAT	Swainsboro, Ga.	920	WKAY	Glasgow, Ky.	1490	WKRZ	Oil City, Pa.	1340
WJAU	Warville, Fla.	1000	WKBA	Russellville AL	1500	WKSC	Kershaw, S.C.	1300
WJAW	Mullins, S.C.	820	WKBC	Charleston, W.Va.	950	WKSP	Fritchard AL	1270
WJAZ	Albany, Ga.	960	WKBD	Vinton, Va.	1550	WKSP	W Jefferson NC	530
WJBB	Haleyville AL	1230	WKBE	N. Wilkesboro, N.C.	810	WKSN	Jamestown, N.Y.	1690
WJBC	Bloomington, Ill.	1230	WKBJ	St. Marys, Pa.	1400	WKSP	Kingsree, S. C.	1690
WJBD	Salem, Ill.	1350	WKBJ	Milan, Tenn.	1600	WKSR	Pulaski, Tenn.	1420
WJBE	Knoxville, Tenn.	1430	WKBK	Keene, N.H.	1220	WKSR	New Castle, Pa.	1280
WJBL	Holland, Mich.	1260	WKBL	Covington, Tenn.	1260	WKTF	King, N.C.	1090
WJBM	Jerseyville, Ill.	1480	WKBN	Youngstown, Ohio	570	WKTG	Thomasville, Ga.	730
WJBO	Baton Rouge, La.	1150	WKBO	Harrisburg, Pa.	1230	WKTI	Farmington, Maine	1380
WJBQ	Gadsden AL	930	WKBQ	Garner, N.C.	1000	WKTP	South Paris Me	1450
WJCD	Seymour, Ind.	1390	WKBK	Manchester, N.H.	1250	WKTS	Sheboygan, Wis.	950
WJCM	Sebring, Fla.	960	WKBV	Richmond, Ind.	1490	WKTY	LaCross, Wis.	580
WJCN	Winston, Mich.	1510	WKBW	Buffalo, N.Y.	1320	WKTY	Arlington, Wis.	1220
WJCW	Johnson City, Tenn.	910	WKBX	Winston-Salem, N.C.	1500	WKUL	Knox AL	1340
WJDA	Quincy, Mass.	300	WKBY	Chatham, Va.	1080	WKUN	Monroe, Ga.	920
WJDB	Thomasville AL	630	WKBY	Muskegon, Mich.	850	WKVA	Lewisston, Pa.	920
WJDM	Elizabeth, N.J.	1530	WKCB	Hindman, Ky.	1540	WKVI	Knox, Ind.	1520
WJDJ	Jackson, Miss.	620	WKCM	Hawesville KY	1140	WKVM	San Juan, P.R.	810
WJDY	Salisbury, Md.	920	WKCT	Bowling Green, Ky.	930	WKVO	Havelock, N.C.	1330
WJEH	Gallipolis, Ohio	900	WKCU	Orinth, Miss.	1350	WKWF	Tratford, Va.	1600
WJEM	Hagerstown, Md.	1240	WKCV	Warrenton, Va.	1420	WKWF	Knoxville, Tenn.	1490
WJEN	Valdosta, Ga.	1150	WKCY	Harrisonburg, Va.	1300	WKWK	Wheeling, W.Va.	1400
WJER	Dover-N.H.	1450	WKDA	Nashville, Tenn.	1240	WKWK	Rosky Mount, Va.	1290
WJES	Johnston, S.C.	1570	WKDE	Altavista, Va.	1000	WKXL	Concord, N.H.	1450
WJET	Eric, Pa.	1400	WKDK	Newberry, S.C.	1240	WKXX	Berea, KY	1500
WJFC	Jefferson City, Tenn.	1480	WKDL	Clarksdale, Miss.	1600	WKXX	Exeter, N.H.	1540
WJGA	Jackson, Ga.	1540	WKDR	Plattsburg, N.Y.	1070	WKXX	Sarasota, Fla.	930
WJHO	Opelika AL	1400	WKDX	Hamlet, N. C.	1250	WKY	Oklahoma City, Okla.	930
WJIS	Salem, N. J.	1510	WKDY	Spartanburg, SC	1400	WKYB	Hemingway, S. C.	1000
WJIT	Jacksonville, Ill.	1550	WKDZ	Cadiz, Ky.	1110	WKYB	Bristol, Tenn.	1550
WJIM	Lansing, Mich.	1240	WKEE	Huntington, W. Va.	800	WKYK	Burnsville, N. C.	1530
WJIT	San Juan, P.R.	1140	WKEG	Washington, Pa.	1110	WKYC	Caro, Mich.	570
WJJC	Commerce, Ga.	1270	WKEN	Kewanee Ill.	1450	WKYD	Paducah, Ky.	1360
WJJD	Chicago, Ill.	1160	WKER	Pompton Lakes, N.J.	1500	WKYZ	Madisonville, Tenn.	1250
WJJE	Christiana, Va.	1260	WKEU	Griffin, Ga.	1450	WKZZ	Kane, Pa.	960
WJJI	Niagara Falls, N.Y.	1440	WKEK	Blacksburg, Va.	1430	WKZZ	Kalamazoo, Mich.	800
WJJK	Lewisburg, Tenn.	1490	WKEG	Covington, Va.	1340	WLAB	St. Pauls NC	1060
WJLT	Jellico TN	1540	WKFJ	Wickford, R.I.	1370	WLAC	Nashville, Tenn.	1510
WJMT	Mt. Holly, N. J.	1460	WKFE	Yauco, P.R.	1350	WLAD	Danbury, Conn.	800
WJMK	Hartsville, Tenn.	1090	WKGN	Knoxville, Tenn.	1520	WLAF	LaFollette, Tenn.	1250
WJKY	Jamestown, Ky.	1400	WKHG	Lenoir, N.C.	1080	WLAG	La Grange, Tenn.	1450
WJLD	Delroit, Mich.	1400	WKHJ	Holly Hill SC	1440	WLAM	Lewiston, Maine	1470
WJLE	Fairfield AL	1400	WKHM	Jackson, Mich.	970	WLAN	Lancaster, Pa.	1390
WJLJ	Smithville, Tenn.	1480	WKIG	Glenville, Ga.	1580	WLAP	Lexington, Ky.	630
WJLK	Asbury Park, N.J.	1310	WKIN	Leonardtown, Md.	1370	WLAQ	Rome, Ga.	1410
WJLS	Knoxley, W. Va.	560	WKIN	Kingsport, Tenn.	1320	WLAB	Athens, Tenn.	1450
WJMA	Orange, W. Va.	1340	WKIP	Poughkeepsie, N.Y.	1450	WLAB	Jacksonville, N.C.	910
WJMB	Brookhaven, Miss.	1340	WKIS	Orlando, Fla.	740	WLAT	Conway, S.C.	1330
WJMC	Rice Lake, Wis.	940	WKIZ	Reliant, N.C.	1500	WLAW	Laurel, Miss.	1430
WJML	Petoskey, Mich.	1110	WKJB	Key West, Fla.	710	WLAW	Grand Rapids, Mich.	1340
WJMO	Cleveland Heights, Ohio	1490	WKJC	Mayaguez, P.R.	710	WLAW	Lawrenceville, Ga.	1360
WJMP	Ironwood, Mich.	590	WKJK	Granite Falls, N.C.	900	WLAW	Shoals AL	1450
WJMT	Merrill W. Wis.	730	WKJR	Muskegon Heights, Mich.	730	WLBB	Carrollton, Ga.	1110
WJMW	Athens AL	970	WKKS	Asheville, N.C.	1520	WLBC	Muncie, Ind.	1340
WJMX	Flora, S.C.	930	WKKS	Vancouver, Ky.	1380	WLBE	Leesburg, Fla.	790
WJNC	Jacksonville, N.C.	1240	WKKK	DeLand FL	1310	WLBE	Laurens, S.C.	860
WJNJ	Atlantic Beach, Fla.	1690	WKLA	Ludington, Mich.	1450	WLBI	Mattoon, Ill.	1170
WJNL	Johnstown Pa	1490	WKLC	St. Albans, W.Va.	1300	WLBI	Denham Springs, La.	1220
WJNO	West Palm Beach FL	1230	WKLF	Clanton AL	980	WLBI	Wentz, Ky.	1360
WJNP	North Pole AK	1170	WKLG	Cloquet, Minn.	1230	WLBN	DeKalb, Ill.	930
WJOB	Hammond, Ind.	1230	WKLM	Wilmeton, N.C.	980	WLBN	Lebanon, Ky.	1590
WJOE	Port St. Joe, Fla.	1080	WKLO	Louisville, Ky.	1080	WLBR	Lebanon, Pa.	1270
WJOJ	Jolie, Ill.	1340	WKLP	Keyser, W. Va.	1390	WLBS	Centerville, Miss.	1580
WJON	St. Cloud, Minn.	1420	WKLX	Portsmouth, Va.	1350	WLBS	Bangor, Maine	620
WJOR	South Haven, Mich.	940	WKLV	Blackstone, Va.	1440	WLBT	Scottsville, Ky.	1250
WJOT	Lake City, S.C.	1260	WKMB	Hartwell, Ga.	880	WLCC	Lancaster, S.C.	1360
WJOY	Burlington, Vt.	1230	WKMC	Roaring Spring, Pa.	1370	WLCC	Laurensburg, N.C.	1300
WJPA	Washington, Pa.	1450	WKMF	Flint, Mich.	1470	WLCC	Eustis, Fla.	1240
WJPF	Hemping, Mich.	1340	WKMG	Newberry, S.C.	1520	WLCC	Baton Rouge, La.	910
WJPG	Greenville, Miss.	1320	WKMI	Kalamazoo, Mich.	1360	WLCC	LaGrange, Wis.	1460
WJPS	Evansville, Ind.	1330	WKMT	Mt. Kisco, N.Y.	1220	WLCC	Walden, N.Y.	1340
WJPR	Rockford, Mich.	810	WKND	Windsor, Conn.	1290	WLCA	Lawrenceville, Ga.	1480
WJQS	Jackson, Miss.	1400	WKNE	Keene, N.H.	1220	WLCA	Richmond, Va.	1480
WJRD	Detroit, Mich.	760	WKNR	Battle Creek MI	1400	WLCA	Sandusky, Ohio	1450
WJRE	Joliet, Ill.	1510	WKNT	Kent, Ohio	1520	WLCA	Emporium, Pa.	1240
WJRW	Joliet, Ill.	1510	WKNX	Saginaw, Mich.	1210	WLCA	Lawrenceville, Va.	580
WJRD	Tuscaloosa AL	1340	WKNY	Kingston, N.Y.	1480	WLCA	Wetocca, Ga.	1420
WJRL	Lenoir, N.C.	1500	WKOD	Hopkinsville, Ky.	1560	WLCA	Bad Axe, Mich.	1080
WJRM	Troy, N.C.	1390	WKOG	Gordon, Ga.	1070	WLCA	Cayey, Pa.	1590
WJRS	Crestview, Fla.	1050	WKOK	Sunbury, Pa.	1570	WLCA	Little Falls, N.Y.	1230
WJSM	Martinsburg, Pa.	1590	WKOL	Amsterdam, N.Y.	1360	WLCA	Lynchburg, Va.	1320
WJSS	Jonesboro, Tenn.	1000	WKOP	Binghamton, N.Y.	980	WLCA	Logan, D.	1180
WJST	Jupiter, Fla.	1240	WKOV	Starkville, Miss.	1500	WLCA	New York, N.Y.	1510
WJTN	Jamestown, N.Y.	1400	WKOW	Wellston, Ohio	1330	WLCA	Shelbyville, Tenn.	1580
WJTO	Bath, Me.	730	WKOX	Framingham, Mass.	1190	WLIC	Newport Tenn	1270
WJUN	Mexico, Pa.	1220	WKDY	Bluefield, W.Va.	1240	WLIC	Lenoir City, Tenn.	730
WJVA	South Bend, Ind.	1580	WKDZ	Kosciusko, Miss.	1340	WLIP	Kenosha, Wis.	1050
WJWL	Cleveland, Ohio	850	WKPA	New Kensington, Pa.	1150	WLIP	Mobile AL	1360
WJWJ	Georgetown, Del.	900	WKPB	Pine Bluff, Ark.	1510	WLIS	Did Saybrook, Conn.	1420
WJWS	South Hill, Va.	1450	WKPP	Perrittas, Miss.	1320	WLIS	Wheaton, Ill.	950
WJXN	Jackson, Miss.	1370	WKPR	Pittsburgh PA	1420	WLIS	Livingston, Tenn.	920
WJXM	Clarksville, Tenn.	1080	WKPT	Kalamazoo, Mich.	1420	WLIS	Islip, N. Y.	540
WJXA	Athens AL	1400	WKPT	Kingsport, Tenn.	1400	WLIS	Lake Worth, Fla.	1380
WJYB	Macomb, Ill.	1510	WKQT	Garyville, La.	1010	WLKE	Waupun, Wis.	1170
WKAJ	Saratoga Springs, N.Y.	900	WKQW	Spring Valley, N.Y.	1300	WLKN	Three Rivers, Mich.	1510
			WKRA	Holly Springs, Miss.	1110	WLKN	Lincoln, Me.	1450

WHITE'S RADIO LOG

Call	Location	kHz	Call	Location	kHz	Call	Location	kHz
WRDS	S. Charleston, W. Va.	1410	WSBP	Chattahoochee, Fla.	1580	WSTX	Christlansted, V.I.	970
WRDW	Augusta, Ga.	1480	WSBM	Panama City Beach, Fla.	1290	WSUB	Groton, Conn. CT	980
WRFB	Holyoke, Mass.	930	WSCR	Seranton, Pa.	1320	WSUF	Patchogue NY	1580
WRFC	Memphis, Tenn.	1000	WSCP	Peterborough, N.H.	1050	WSUH	Oxford, Miss.	1420
WRFL	Lexington, Va.	1450	WSDC	Hartsville SC	1490	WSUI	Iowa City, Iowa	910
WRFM	Jenkins, Ky.	1000	WSDL	Sidell LA	1560	WSUM	Parma Ohio	1000
WRFO	Topeka, Kans.	1250	WSDR	Sterling, Ill.	1240	WSUN	St. Petersburg, Fla.	620
WRFG	Ashtabula, Ohio	970	WSDS	St. Joseph, Mich.	1480	WSUN	Seaford, Del.	1280
WRVE	Reidsville, N.C.	1220	WSEB	Sebring, Fla.	1340	WSUZ	Waukegan, Ill.	800
WRWE	New Albany, Ind.	1290	WSEL	Pontotoc, Miss.	1440	WSVA	Harrisonburg, Va.	550
WRFC	Athens, Ga.	960	WSEM	Donalsonville, Ga.	1500	WSVL	Shelbyville, Ind.	1520
WRFD	Worthington, Ohio	880	WSEN	Baldwinville, N.Y.	1050	WSVM	Valdese, N.C.	1490
WRFS	Alexander City, Ala.	1050	WSEF	Elkton, Md.	1550	WSWG	Crews, Va.	800
WRGA	Roma, Ga.	1470	WSEV	Shererville, Tenn.	930	WSWV	Greenwood, MS	1540
WRGI	Marco Island FL	1540	WSFB	Selinsgrove, PA	1490	WSWV	Belle Glade, Fla.	900
WRGM	Richmond, Va.	1470	WSFC	Somerses, Ky.	1240	WSWW	Pennington Gap, Va.	1570
WRGS	Rogersville, Tenn.	1370	WSFR	Sanford, Fla.	1300	WSYB	Rutland, Vt.	1380
WRHI	Rock Hill, S.C.	1340	WSFT	Thomaston, Ga.	1220	WSYD	Mt. Airy, N.C.	1300
WRHL	Rochelle, Ill.	1020	WSFG	Seneca Falls, N.Y.	1110	WSYL	Sylvania, Ga.	1490
WRIB	Providence, R.I.	1260	WSGA	Savannah, Ga.	1400	WSYR	Syracuse, N.Y.	570
WRIC	Richlands, Va.	540	WSGB	Sutton, W.Va.	1490	WTAK	Fairfax City, N.C.	1370
WRIE	Erige, Pa.	1330	WSGC	Eltherton, Ga.	1400	WTAD	Flint, Mich.	600
WRIG	Wausau, Wis.	1250	WSGN	Birmingham AL	610	WTAC	Quincy, Ill.	930
WRIM	Pahokee, Fla.	1250	WSGO	Oswego, N.Y.	1440	WTAE	Pittsburgh, Pa.	1250
WRIN	Rensselaer, Ind.	1560	WSGW	Wagoner, Okla.	790	WTAF	Worcester, Mass.	580
WRIP	Rossville, Ga.	980	WSHB	Raford, N.C.	1400	WTAL	Eau Gallie, Fla.	1450
WRIS	Rockledge, Fla.	1240	WSHF	Sheffield AL	1290	WTAM	Tallahassee, Fla.	1560
WRIT	Milwaukee, Wis.	1340	WSHN	Fremont, Mich.	1550	WTAN	Clearwater, Fla.	1340
WRIV	Riverhead, N.Y.	1390	WSHO	New Orleans, La.	800	WTAR	LaGrange, Ill.	1370
WRIZ	Coral Gables, Fla.	1550	WSHP	Shilpinburg, Pa.	1480	WTAX	Norfolk, Va.	790
WRJC	Mauston, Wis.	1400	WSHV	Shelbyville, Ill.	1580	WTAY	College Station, Tex.	1150
WRJN	Racine, Wis.	1420	WSIB	Beaufort, S.C.	1400	WTAW	Springfield, Ill.	1240
WRJW	Plycay, Miss.	1320	WSIC	Statesville, N.C.	1400	WTB	Springfield, Ill.	1250
WRKB	Kannapolis, N.C.	1460	WSID	Baltimore, Md.	1010	WTBC	Tuscaloosa AL	1270
WRKD	Rockland, Maine	1450	WSIG	Mont Jackon, Va.	790	WTBF	Troy Ala.	970
WRKL	New City, N. Y.	910	WSIP	Paintsville, Ky.	1490	WTBO	Cumberland, Md.	1450
WRKM	Carthage, Tenn.	1350	WSIV	Wentz Haven, Fla.	1490	WTBP	Parsons, Tenn.	1550
WRKN	Brando, Miss.	680	WSIX	Nashville, Tenn.	980	WTB	Warwick N.Y.	1150
WRKO	Boston, Mass.	910	WSIZ	Oella, Ga.	1380	WTCA	Plymouth Ind.	980
WRKT	Cocoa Beach, Fla.	1300	WSJC	Magee, Miss.	810	WTCH	Shawano, Wis.	960
WRKV	Rockville, Conn.	800	WSJM	St. Joseph, Mich.	1400	WTCT	Tell City, Ind.	1230
WRLD	Lauret AL	1490	WSJA	Jacksonville, Fla.	1430	WTCL	Warren, Ohio	1570
WRMA	Montgomery AL	950	WSJB	Madaska, Me.	600	WTCT	Traverse City, Mich.	1400
WRMB	Fittsville, FL	1430	WSJC	Winston-Salem, N.C.	1510	WTCC	Campbellsville, Ky.	1450
WRMG	Rehoboth Beach, Fla.	1490	WSJD	Woodruff, S.C.	1050	WTCS	Ashmount, W.Va.	1490
WRMN	Elgin, Ill.	790	WSKE	Everett, Pa.	1580	WTCT	Whitesburg, Ky.	920
WRMT	Rocky Mount, N.C.	1490	WSKI	Montpelier-Barre, Vt.	1240	WTCT	Philadelphia, Pa.	860
WRNB	New Bern, N.C.	1490	WSKT	Knoxville, Tenn.	1150	WTGA	Thomaston, Ga.	1590
WRNC	Raleigh, N.C.	1240	WSKW	Knockwega ME	680	WTGB	Myrtle Beach, S.C.	1520
WRND	Albany, Ga.	910	WSKY	Asheville, N.C.	1400	WTG	Augusta, Ga.	1550
WRNL	Richmond, Va.	1350	WSLB	Ogdenburg, N.Y.	1400	WTHD	Milford, Del.	930
WRNO	Rome, N.Y.	1390	WSLC	Roanoke Va.	610	WTHD	Mineola, N.Y.	1520
WRDA	Gulport, MS	1450	WSLG	Donaldsonville, La.	1090	WTHH	Terre Haute, Ind.	1480
WRDB	West Point, Miss.	1450	WSLI	Jackson, Miss.	930	WTHM	Lapeer, Mich.	1530
WRDC	Rochester, N.Y.	1280	WSMA	Marine City Mich.	1520	WTHN	Thomson, Ga.	1430
WRDD	Raytown, Mo.	1340	WSM	Marion, Ind. C.	1350	WTHU	Thurmont, Md.	1530
WRDK	Rockford, Ill.	1440	WSM	Marion, Ind. C.	1350	WTHU	Hartford, Conn.	1080
WRDL	Knoxville, Tenn.	1490	WSM	Marion, Ind. C.	1350	WTID	Newport News, Va.	1270
WRDM	Roma, Ga.	710	WSM	Marion, Ind. C.	1350	WTIF	Tifton, Ga.	1340
WRDN	Rome, N.Y.	1400	WSM	Marion, Ind. C.	1350	WTIG	Masonville, Ohio	1390
WRDS	Scottsboro AL	1330	WSM	Marion, Ind. C.	1350	WTIK	Duham, N.Y.	930
WRDT	Roanoke, Va.	590	WSM	Marine City, Mich.	1510	WTIM	Mayaguez, P.R.	1300
WRDW	Albany, N.Y.	590	WSM	New Orleans, La.	1350	WTIP	Taylorville, Ill.	1410
WRDX	Clarksdale, Miss.	1450	WSM	La Plata, Md.	1560	WTIQ	Charleston, W.Va.	1240
WROY	Carmel, Ill.	1460	WSM	Sanford, Maine	1220	WTIV	Manistiquie, Mich.	1490
WRZE	Evansville, Ind.	1400	WSM	Greenville, Tenn.	1540	WTIV	Titusville, Pa.	1230
WRFL	Charlotte, N.C.	1540	WSM	Graham, N.C.	1190	WTJH	New Orleans, La.	690
WRFL	Polk, Mo.	1310	WSM	Nashua, N.H.	1590	WTJK	East Port, Va.	1290
WRFR	Dallas, Tex.	1330	WSM	Sparta, Tenn.	1050	WTJK	Jackson, Tenn.	1390
WRRR	Rockford, Ill.	880	WSM	Weldon, N.C.	1470	WTKM	Hartford, Wis.	1540
WRRZ	Clinton, N.C.	880	WSM	Bridgeton, N.J.	1170	WTKO	Ithaca, N.Y.	1470
WRSC	State College, Pa.	1390	WSM	Barre, Vt.	1450	WTKY	Tompkinsville, Ky.	1370
WRSD	Homestead FL	1430	WSM	Sandersville, Ga.	1490	WTLN	Apopka, Fla.	1520
WRSG	San German, P.R.	1890	WSM	Seneca, S. C.	1150	WTLN	Somerses, Ky.	1480
WRSJ	Bayamon, P. R.	1560	WSM	Schenectady, N.Y.	1240	WTLS	Tallahassee AL	1300
WRSL	Stanford, Ky.	1420	WSM	Savannah, Ga.	1300	WTMA	Charleston, S.C.	1250
WRSW	Warsaw IN	1580	WSM	Tampa, Fla.	1300	WTMC	Ocala, Fla.	1290
WRTH	Altoona, Pa.	1240	WSM	Salem, Ohio	800	WTMJ	Milwaukee, Wis.	620
WRTA	Wood River, Ill.	590	WSM	Henderson, Ky.	860	WTMP	Tampa, Fla.	1150
WRL	Rantoul, Ill.	1460	WSM	St. Marie, Mich.	1220	WTR	Camden, N.J.	800
WRUF	Gainesville, Fla.	750	WSM	Springfield, N.Y.	1340	WTSC	Wilmington, N.C.	820
WRUM	Rumford, Maine	890	WSM	Deatur, Ill.	950	WTNC	Thomasville, N.C.	790
WRUN	Utica, N.Y.	1150	WSM	Spartanburg, S.C.	1450	WTND	Orangeburg, S.C.	920
WRUS	Russellville, Ky.	610	WSM	Sarasota, Fla.	1370	WTNJ	Trenton NJ	1300
WRVA	Richmond, Va.	1140	WSM	Toledo, Ohio	1450	WTNT	Clinton, Tenn.	1380
WRVK	Mt. Vernon, Ky.	1460	WSM	Springfield, N.C.	1000	WTNT	Murkinton, Ohio	1560
WRWD	Augusta, Ga.	1480	WSM	Springfield, Mass.	1010	WTNT	Toitabasse, Fla.	1270
WRWX	Cleveland, Ga.	1380	WSM	Stevens Pt., Wis.	1490	WTNB	Chapel Hill, N.C.	1530
WRWO	Roxboro, N.C.	1430	WSM	Durham, N.C.	1410	WTOW	Winston-Salem, N.C.	380
WRYM	New Britain, Conn.	940	WSM	Lauderdale, Fla.	1570	WTOD	Savannah, Ga.	1290
WRYT	Boston, Mass.	950	WSM	Waltham, MA	1480	WTOD	Toledo, Ohio	1580
WSAC	Fort Knox, Ky.	1470	WSM	Hillsboro, Ohio	1590	WTOR	Springer, Pnne, N.C.	1470
WSAF	Sarasota, Fla.	1220	WSM	College Park, Ga.	1570	WTON	Stanton, Va.	1240
WSAJ	Cincinnati, Ohio	1360	WSM	Durham, N.C.	1490	WTO	Bellefontaine, O.	1390
WSAL	Grove City, Pa.	1340	WSM	Sumter, S.C.	1340	WTOP	Washington, D.C.	1500
WSAN	Geansport, Ind.	1230	WSM	Starkville, Miss.	1230	WTOR	Torrington, Conn.	610
WSAW	Saginaw, Mich.	1400	WSM	Largo, Fla.	800	WTOU	Marlanna, Fla.	980
WSAN	Allentown, Pa.	1470	WSM	Petersburg, Va.	1370	WTFB	Palatka, Tenn.	620
WSAO	Senatobia, Miss.	1550	WSM	Stamford, Conn.	1400	WTOV	Towson, Md.	1570
WSAP	Rail River, Mass.	1480	WSM	Taylorville, N.C.	860	WTQX	Roanoke Va.	910
WSAT	Salisbury, N.C.	1280	WSM	Woodstock, Va.	1230	WTRA	Latrobe, Pa.	1480
WSAU	Wausau, Wis.	550	WSM	Eminece, Ky.	1600	WTRB	Ripley, Tenn.	1370
WSAV	Savannah, Ga.	630	WSM	Salisbury, N.C.	1240	WTRC	Sturcls, Ind.	1230
WSAY	Rochester, N.Y.	750	WSM	Stuart, Fla.	1450	WTRG	Greensburg, Ind.	1330
WSB	Atlanta, Ga.	910	WSM	Stuebenville, Ohio	1340	WTRI	Brunswick, Md.	1320
WSBA	York, Pa.	910						
WSBB	New Smyrna Beach, Fla.	1230						
WSBC	Chicago, Ill.	1240						
WSBR	Boaca Raton, Fla.	960						
WSBS	Gt. Barrington, Mass.	960						
WSBT	South Bend, Ind.	960						

Location	Call	MHz	Location	Call	MHz	Location	Call	MHz	Location	Call	MHz
Ocala	WFUZ	93.7	Remo	WRGA-FM	102.3	WJKL	94.3	Bluffton	WCRD	100.1	
Okeechobee	WLWC	103.1	Rossville	WRDM-FM	97.7	WJPS	90.9	Boonville	WBNL-FM	107.1	
Orlando	WDBO-FM	100.3	Savannah	WTQC-FM	94.1	WPHR	88.7	Brazil	WCMC-FM	97.7	
	WHOO-FM	96.3		WZAT	102.1	WXFM	105.9	Carmel	WHOE	101.3	
	WKIS-FM	100.3		WEAS-FM	93.1	WTPC	89.7	Columbia City	WFDI	96.3	
	WDJW-FM	100.3		WSGF-FM	95.3	WUJO	105.1	Columbus	WCBI-FM	101.5	
Palatka	WJNO-FM	99.9		WXLN	97.3	WUNR	89.3	Connersville	WCNB-FM	100.3	
Palm Beach	WPCB	92.3		WZAT	102.1	WFIV-FM	104.9	Crawfordsville	WNLS	105.3	
Panama City	WGNE-FM	92.5	Smryna	WQXI-FM	94.1	WFPI	93.9	Crown Point	WMLM	103.9	
	WPAP-FM	92.5	Statesboro	WMCD	100.1	WFHF	88.5	Deatur	WADM-FM	92.7	
	WMEZ	94.1	Swainsboro	WJAT-FM	98.3	WELL-FM	98.5	Elkhart	WFIM	100.7	
Pensacola	WCOA-FM	100.7	Thomasville	WTUF	107.1	WACI	92.1		WXAX	104.7	
	WBOP-FM	101.5	Thomson	WTHO-FM	101.7	WVCK	90.5		WVPE	88.1	
	WPCS	89.3	Tifton	WADR-FM	100.1	WGIL-FM	94.9	Elwood	WBWF	101.7	
	WPCB	89.3	Titman	WLET-FM	106.1	WGHS	88.5	Evansville	WIKY-FM	104.1	
Plantation Key	WCKO	102.7	Tocona	WYOP-FM	97.7	WGNU-FM	96.3		WPSR	91.5	
Punta Gorda	WCCF-FM	92.7	Valdosta	WGOV-FM	92.9	WGRN	89.3		WVCV	90.7	
Quincy	WCNH-FM	101.7		WVVS	89.9	WQBQ-FM	99.9	Fort Wayne	WVHI	105.3	
Riviera Beach	WGMW	94.3		WVFT	101.1	WDUK	93.9		WPTH	95.1	
St. Augustine	WFOY-FM	97.7	Warner Robins	WRBN-FM	101.7	WVXV-FM	103.1		WCMX	101.7	
St. Petersburg	WQYK-FM	99.5	Washington	WLDY-FM	100.1	WVHS	88.5	Franklin	WMEF	97.3	
	WWBA-FM	107.3	Waycross	WACL-FM	103.3	WJBM-FM	104.1		WFCI	89.3	
	WQSR	102.5	W. Point	WAYX-FM	102.5	WJOL-FM	96.7	Frankfort	WIFN	95.9	
	WSPB-FM	106.3		WCIM	100.9	WJAP	93.5		WILQ-FM	99.7	
	WKZM	105.5				WKAK	99.9	Gary	WVGE	88.7	
Sebring	WSKP-FM	105.3				WKOC	88.3	Gaston	WDHS	89.9	
Stuart	WMCF	92.3				WKEI-FM	92.1	Goshen	WGCS	91.1	
Tallahassee	WGLF	104.1				WLT	96.3	Greencastle	WXTA	94.3	
	WFSU-FM	91.5				WXMN	88.9	Greenfield	WSMJ	99.5	
	WBGW-FM	96.9				WLNR-FM	106.3	Greensburg	WTRF-FM	107.3	
	WOMA	94.9				WLPO-FM	99.3	Hammond	WYCA	92.3	
	WDAE-FM	100.7				WAKO-FM	103.1	Hartford City	WWHC	104.9	
	WFLA-FM	93.3				WLCC	88.9	Hewe	WHWE	89.7	
	WCLY-FM	94.4				WPRC	100.1	Huntington	WWSH	94.9	
	WEZZ	104.7				WSMI-FM	96.3		WHLT-FM	103.1	
	WUSF	89.7				WLR	88.1	Indianapolis	WAJC	104.5	
Titusville	WRMF-FM	98.3				WLUV-FM	96.7		WBDD	90.9	
Venice	WQHW	92.1				WIUM	91.3		WEDM	91.1	
Vero Beach	WGYL	93.5				WVDD	107.1		WICR	88.7	
West Palm Beach	WEAT-FM	104.5				WLBH-FM	96.9		WFSB	94.7	
	WIRK-FM	107.9				WGLC-FM	100.9		WFSN	95.5	
	WHFL	97.5				WMDR	96.9		WXTZ	103.3	
Winter Haven	WPRK	103.1				WPYC-FM	97.7		WIAN	90.1	
Winter Park	WLOQ	103.1				WVLJ	105.5		WIFE-FM	107.9	
						WRMI-FM	104.7		WNAP	93.1	
						WRNS	91.5		WTCG-FM	107.3	
						WSAB	94.9		WTFZ-FM	104.7	
						WVJC-FM	89.1	Jasper	WOHI	95.7	
						WMIX-FM	94.1	Jacksonville	WAWK-FM	93.3	
						WTAO	104.9	Kendallville	WKVI-FM	99.3	
						WONC	89.1	Knox	WWKI	100.5	
						WGLT	91.7	Kokomo	WKMO	103.3	
						WIHM	91.7	Lafayette	WASK-FM	98.5	
						WGLD-FM	102.7		WAZY-FM	96.7	
						WSET	92.9		WJJE	91.9	
						WOLI	98.3		WXUS	97.7	
						WACE	98.3	La Porte	WLQI-FM	96.7	
						WRH	88.1	Lebanon	WNON	100.9	
						WRFB	95.3	Linton	WBTO-FM	100.9	
						WSIV-FM	95.3	Logansport	WSAL-FM	102.3	
						WZRO	104.9	Lowell	WLCL-FM	107.3	
						WMBD-FM	93.3	Madison	WOKK-FM	96.7	
						WVCB	89.9	Marion	WMRI	108.9	
						WSWT	106.4	Martinsville	WCBK-FM	102.3	
						WTO	105.7	Nichigan City	WMCB-FM	103.3	
						WGSY	90.7	Monticello	WVTL	95.3	
						WBBA-FM	107.9	Muncie	WLBC-FM	104.1	
						WSPY	107.1		WBST	90.7	
						WPKO-FM	103.1	New Albany	WWHI	91.5	
						WGEH-FM	95.3	New Castle	WNAS	108.1	
						WTAD-FM	105.1	N. Manchester	WBKE-FM	89.5	
						WRTL-FM	98.3	North Vernon	WCHC-FM	106.1	
						WTAY-FM	101.7	Notre Dame	WSND-FM	88.9	
						WROK-FM	97.5	Paoli	WVAK-FM	95.3	
						WQFL	100.9	Pendleton	WHEM	91.7	
						WHBF-FM	98.9	Peru	WARU-FM	98.3	
						WVIV	91.1	Plainfield	WJMK	98.3	
						WRHL-FM	102.3	Plymouth	WTCA-FM	94.3	
						WJBD-FM	100.1	Portland	WPGW	100.9	
						WCCI	100.1	Princeton	WRAY-FM	98.1	
						WSHY-FM	104.9	Senselauer	WICK	97.7	
						WCLD	101.9	Shelbyville	WDLK	98.1	
						WRWC	101.3	Skokie	WECI	91.5	
						WDBR	103.7	S. Beloit	WKBV-FM	101.3	
						WVMB	104.5	Springfield	WROI	92.1	
						WVEM	101.9		WRCR	94.3	
						WVJM	94.9	Pocheater	WSLM-FM	98.9	
						WVZ	97.7	Rushville	WVPI	104.3	
						WTIM-FM	92.7	Salem	WPCB	99.3	
						WITT	93.5	Scottsburg	WJOD	93.7	
						WILL-FM	90.9	Seymour	WSVL-FM	91.1	
						WPGU	107.1	Shelbyville	WETL	97.9	
						WVFC	103.9	South Bend	WHME	103.1	
						WVFA	94.1		WNDU-FM	92.9	
						WVFX-FM	97.7		WRRB	103.9	
						WVETN	98.1		WSBT-FM	101.5	
						WYFE-FM	95.3	Terre Haute	WTHI-FM	98.9	
						WNTN	88.1		WVW	102.7	
						WSTK	105.5		WVPR	100.5	
						WKZN	96.9		WVTS	100.7	
									WISU	89.5	
									WKUZ	95.9	
									WHFG	91.1	
									WRSW-FM	107.3	
									WVFL	100.5	
									WVVR	105.5	
									WLIE	105.5	
									WVUR	89.5	
									WADV-FM	96.7	
									WVUB	91.3	
									WUOC	98.3	

Location	Call	MHz	Location	Call	MHz	Location	Call	MHz	Location	Call	MHz
Benton Hrbr.	WCHW-FM	91.3	Waterford	WTSD	88.1	Houston	WCPC-FM	93.3		KWML	90.7
Berrien Springs	WGER-FM	102.3	Warren	WPHS	91.5	Indiana	WNLA-FM	105.5	Salem	KETU	95.9
Big Rapids	WFBB-FM	99.9	Whitehall	WLRC-FM	95.3	Luka	WTIB	105.5	Sedalia	KSIS-FM	92.1
Birmingham	WAUS	90.9	Ypsilanti	WEMU	88.1	Jackson	WZZQ	102.0	St. Joseph	KMFL-FM	99.9
Cadillac	WBRN-FM	100.9	Zeeland	WZND	99.3		WZLN	95.5	Springfield	KTTS-FM	94.7
Charlotte	WVNE	94.7					WKXI	94		KTXR	101.5
Choboygan	WWTW-FM	92.9					WJMI	96.7		KWFC	97.3
Clare	WCER-FM	92.7					WLSI-FM	96.3		KWTO-FM	98.7
Coldwater	WCBY-FM	105.1					WKDZ-FM	105.1		KSMU	91.1
Dearborn	WCRM-FM	95.3	Alexandria	KXRA-FM	92.7	Kescuisko	WNLS-FM	100.3	Union	KLFW-FM	101.7
	WANG	98.5		KCMT-FM	100.7	Laird	WBAD	94.3	Warrensburg	KFBD-FM	97.1
	WNIC-FM	100.3	Alitkin	KEZZ	94.3	Louville	WLSM-FM	107.5	Waynesville	KYSD	102.3
	WKNR, Inc.	KEDQ	Austin	KAAL	99.5	McComb	WSIC-FM	107.5	West Plains	KWPM-FM	93.9
Detroit	WDET-FM	101.9		KEDQ	90.7		WCCA	94.1			
	WBFQ	98.7		KTNW	107.9		WTBI	105.7			
	WCND	105.9		KBSB	91.9	Meridian	WDAL-FM	101.3			
	WABX	99.5		KBHP	101.1		WALT	97.1			
	WDEE-FM	93.1		KBMD-FM	93.5	Moss Point	WCIS-FM	104.9			
	WDRQ	93.1	Benson	KBEW-FM	100.9	Natchez	WQNZ	97.9	Anaconda	KGLM-FM	97.7
	WDTR	90.9	Blue Earth	KLIZ-FM	95.7	New Albany	WNUA-FM	103.5	Bozeman	KGWV-FM	98.7
	WGPR	107.5	Brainerd	KWB	104.5	Ocean Springs	WOSM	103.1	Butte	KURL-FM	97.5
	WLDM	95.5	Brockbridge	KWB	104.5	Dxford	WDR	97.5	Butte	KDYN-FM	93.3
	WMUZ	103.5	Cambridge	KABG	105.5	Pascagoula	WPMP-FM	99.1	Butte	KEMC	91.7
	WNKZ	97.9	Cleouet	WKLK-FM	100.9	Picayune	WJQ	106.3	Butte	KGLT	90.1
	WJR-FM	96.3	Collegeville	KSJR-FM	90.1	Poplarville	WRPM-FM	107.9	Dillon	KBDW	94.1
	WDMC	104.3	Crookston	KCUM-FM	91.7	Pontotoc	WSE-FM	96.7	Dillon	KMSB-FM	91.5
	WQRS-FM	105.1	Duluth	KUMD-FM	89.1	Rolls	KNR	96.7	Dillon	KDBM-FM	98.5
	WWJ-FM	97.1		KRFR	98.9	Sanatobia	WNJC	96.1	Dillon	KIVC-FM	98.5
	WWWW	106.7		WOTH	103.3	Starkville	WSMU-FM	106.3	Dillon	KOPR-FM	106.3
	WRIF	101.1	Faribault	WGR	105.1	Tishomingo	WTMO	88.9	Dillon	KANR	96.9
	WDFW-FM	92.3	Fergus Falls	KBRF-FM	103.3	Tupelo	WELO-FM	98.5	Dillon	KNUW	94.5
Dowagiac	WDDW-FM	97.9	Fosston	KEHG-FM	107.1	Tyler	WTVL-FM	97.9	Hamilton	KLYG-FM	89.5
E. Lansing	WKAR-FM	90.9	Golden Valley	KGRD-FM	95.7	Tylerburg	WQWV	98.7	Helena	KHTC	95.9
	WFMK	99.1	Grand Rapids	KQZF-FM	96.7	Waynesboro	WABO-FM	105.5	Missoula	KYSS-FM	84.1
	WVIC-FM	94.9	Hibbing	WMFG-FM	106.3	Wesson	WWCL	91.1	Missoula	KCPW	100.9
Flint	WFBE	95.1	Hutchinson	KDUZ-FM	107.1	West Point	WQLH	100.9	Plentywood	KCGM	95.7
	WGMZ-FM	107.9	International Falls	KICC	91.5	Yazoo City	WJMS-FM	92.1	Seeley		
	WWGK	105.3	Iron Mountain	WJNR-FM	105.9						
Frement	WSHM-FM	100.1	Litchfield	KLFD-FM	95.3						
Gaylord	WWRN-FM	106.7	Lewmore	KLW	93.7						
Grand Haven	WGHN-FM	92.1	Mankato	KMSU	90.5						
Grand Rapids	WFUR-FM	102.9		KEYC-FM	99.1						
	WCSG	91.3		KYSM-FM	103.5						
	WGRD-FM	97.9	Marshall	KMHL-FM	100.1						
	WJFM	93.7	Minneapolis-St. Paul	KSEM-FM	88.5						
	WLAJ-FM	96.9		WCGO-FM	102.9						
	WYGN	101.3		KSTP-FM	94.5						
	WOOD-FM	105.7 (a)		KEEY-FM	102.1						
	WVGR	104.1		KTIS-FM	98.5						
	WZZM-FM	95.7		WLOL-FM	99.8						
Greenville	WPLB-FM	107.3		KNOP	95.3						
Hancock	WVLA-FM	95.5		KTCR	91.7						
Hastings	WBCH-FM	100.3		WPBC-FM	101.3						
Highland Pk.	WHPR	88.1		WYAL	95.7						
Hillsdale	WCSR-FM	92.1		KBJN	91.1						
Holland	WJBL-FM	94.5		KIDA	99.9						
	WHTC-FM	96.1		KCCM-FM	91.1						
Houghton	WGDL-FM	95.5		KUMM	89.7						
Houghton Lake	WJGS	98.5		KNJF-FM	93.1						
Interlochen	WIAA	88.3		WCAF-FM	89.3						
Iron Mountain	WJNR-FM	105.9		KRFO-FM	104.8						
Ironwood	WJMS-FM	95.7		KLOH-FM	90.7						
Ishpeming	WJPD-FM	82.3		KRWF-FM	91.5						
Jackson	WBCB	94.1		KFIL-FM	103.1						
	WKHM-FM	106.1		KCUE-FM	105.5						
Kalamazoo	WMUK	102.1		WRAH	101.3						
	WCAA	89.9		KROC-FM	106.9						
	WQLR	106.3		KNGV	101.7						
Lansing	WJIM-FM	97.3		KNKR	97.5						
	WILS-FM	101.7		KOLM-FM	96.7						
	WITL-FM	100.7		KJTW	91.7						
Lapeer	WTHM-FM	103.1		KPAM-FM	104.7						
Ludington	WKLA-FM	106.3		WJJD	101.7						
Manistee	WMTL-FM	97.7		KRSI-FM	104.1						
Marquette	WJNR	90.1		KRBI-FM	105.5						
	WJ-FM	95.7		KAVS	89.5						
Marshall	WALM-FM	104.9		WIRN	107.1						
Midland	WVSC	99.7		KKWS	105.9						
Monroe	WVMO	98.3		KQDE-FM	92.1						
Mount Clemens	WBRB-FM	102.7		KQIC	102.5						
Mount Pleasant	WCMU-FM	89.8		KAGE-FM	95.3						
	WSEN-FM	94.5		KWOA-FM	95.1						
	WMHW-FM	91.5									
Munising	WQXO	88.3									
Muskegon	WMUS-FM	106.9									
	WQWQ-FM	104.5									
Muskegon Heights	WKJR-FM	101.7									
Niles	WNIL-FM	95.3									
Oak Park	WQOW	90.3									
Owasco	WOAP-FM	103.9									
Potosky	WJML-FM	96.9									
	WBBM-FM	96.7									
	WSDP	89.5									
Plymouth	WHLS-FM	107.1									
Port Huron	WSGR-FM	91.3									
	WORW	91.9									
	WQAK	89.3									
	WKCC	88.1									
	WWSB	106.3									
	WWSW	107.1									
Royal Oak	WRBI-FM	92.1									
Saginaw	WSJM-FM	107.1									
	WNIC-FM	97.7									
	WSBM	92.7									
	WSM	86.3									
	WSAE	86.3									
	WSTR-FM	99.3									
	WDBI-FM	101.7									
	WXVJ	95.9									
	WLDR	101.9									
	WTCM-FM	92.1									
	WTCM-FM	103.5									

Location	Call MHz	Location	Call MHz	Location	Call MHz	Location	Call MHz
Conneaut	WSPO 84.7	Altus	KWHW-FM 93.5	Central City	WDCV-FM 88.3	South	WMPT-FM 99.3
Coshocton	WFZ 105.5	Anders	KAB 91.7	Chambersburg	WCCS 101.7	Starview	WRHY 92.7
Dayton	WTNS-FM 99.3	Bartlesville	KYEM 100.1	Charlottesville	WCHM 95.1	State College	WMAJ-FM 103.1
	WHIO-FM 99.1	Bethany	KGQY 104.9	Clearfield	WESA-FM 98.3		WDFM 91.1
	WXM 88.1	Broken Arrow	KTBA 92.1	Danville	WCPA-FM 93.5		WQWK 98.7
	WTUE 104.7	Chickasha	KXXK 105.5	Easton	WPGM-FM 96.7	Streetsburg	WYPO-FM 103.1
	WDAO 107.7	Clinton	KWOF-FM 106.9	Edwards	WCEB-FM 102.1	Sunbury	WKOK-FM 94.1
De Graff	WBRM 89.3	Durant	KQEO-FM 107.3	Ephrata	WST 96.1	Swarthmore	WSRN 91.5
Delaware	WDBE-FM 91.9	Hibb	KHBS 91.9	Erie	WJRH 105.5	Tamaqua	WZTA 105.5
Delphos	WLSL 91.1	Edmund	KWHP 97.7	Franklin	WQQQ 99.9	Telford	WBMW 89.7
Dever	WDOH 107.1	Enid	KCSB 90.1	Greensburg	WESS 88.7	Towanda	WTTG-FM 96.3
E. Liverpool	KCRC-FM 98.9	Euless	KCRF-FM 98.9	Greenville	WVIY 99.1	Tyrone	WGMR-FM 106.3
Elton	KCES 102.3	Elizabethtown	KCES 102.3	Harrisburg	WMSH-FM 106.7	Union City	WVCT-CTL 106.3
Eaton	KHEN-FM 98.5	Elwood City, Pa.	KHEN-FM 98.5	Hazleton	WFEW 92.1	Uniontown	WPQR-FM 99.3
Fairfield	WBEA 107.7	Elmira	KWDG 98.7	Harshy	WFEW 92.1	Warren	WRRN 92.3
Findlay	WFOL 84.9	Lawton	KLAW 101.5	Harrisburg	WFV 99.9	Washington	WJPA-FM 95.3
	WFIN-FM 100.5	Lawton	KCCD-FM 98.1	Havertown	WQQL 91.3	Waynesboro	WJCR 88.3
	WLF 88.3	McAlester	KNED-FM 101.3	Hazleton	WCK 103.7	Waynesboro	WAYZ-FM 101.5
Fostoria	WFOB-FM 96.7	Muskogee	KMMF-FM 106.9	Hazleton	WERG 89.1	Wilkes-Barre	WBRE-FM 98.5
Freemont	WFRQ-FM 99.1	Norman	KGOU 108.3	Hazleton	WVEN 99.3		WCLH 90.7
Gahanna	WCVO 104.9	Nowata	KNFB 94.3	Hazleton	WGET-FM 107.7		WRKC 88.5
Galion	WDR 103.1	Oklahoma City	KIL 98.7	Hazleton	WTKSL 94.3		WYZZ 92.9
Gallipolis	WJEH-FM 101.5		KBCB 94.7	Hazleton	WGR-FM 107.1	Williamsport	WILQ-FM 105.1
Gambler	WKCO 91.9		KJAK 100.5	Hazleton	WTGP 88.1		WRAK 102.7
Granville	WDBC 90.9		KAFG 102.7	Hazleton	WEDA-FM 95.1	York	WSBA-FM 103.3
Hamilton	WQMS 96.7		KXXY 96.1	Hazleton	WSL-FM 95.5	York-Hanover	WYCR 98.5
	WYCH 103.5		KOFM 104.1	Hazleton	WHP-FM 97.3		
Hillsboro	WSRW-FM 108.7		KFNB 101.9	Hazleton	WMSP 94.9		
Holland	WPOB-FM 103.3		KKNZ 92.5	Hazleton	WSFM 99.3		
Ironton	WITO 107.1	Okfuskee	KLOR-FM 99.3	Hazleton	WTPA-FM 104.1		
Jackson	WLM 94.7	Poteau	KLCO-FM 98.3	Hazleton	WHHS 89.3		
Kent	WKSU-FM 88.7		KINB 107.3	Hazleton	WCD 97.9		
	WKNT-FM 100.1		KKKA 104.5	Hazleton	WIT-FM 95.5		
Kenton	WKTN 95.3	Pryor	KRBB-FM 95.9	Hazleton	WHUN-FM 106.3		
Kettering	WID-FM 95.3	Sallisaw	KRBB-FM 95.9	Hazleton	WQMU 103.1		
Lancaster	WHOK-FM 95.5	Shawnee	KOSU-FM 91.7	Hazleton	WIUP-FM 91.3		
Lima	WIMA-FM 102.1	Stillwater	KSPI-FM 93.9	Hazleton	WIBF-FM 103.9		
	WLSR 104.9		KVRO 105.5	Hazleton	WJAC-FM 95.5		
	WTGN 97.7		KTLD-FM 101.7	Hazleton	WJTM-FM 98.3		
Logan	WLGK-FM 98.3	Tahlequah	KTLD-FM 101.7	Hazleton	WJTM-FM 98.3		
London	WLNO 106.3	Tulsa	KAKC-FM 92.9	Hazleton	WJTM-FM 98.3		
Mansfield	WVNO 106.1		KRAY 96.5	Hazleton	WFNM 88.7		
	WCLW-FM 105.3		KWEN 95.5	Hazleton	WGAL-FM 101.3		
Marietta	WCNO 89.3		KMOD 97.5	Hazleton	WDAC 94.5		
	WMOA-FM 94.3		KBHJ 88.5	Hazleton	WLAN-FM 86.9		
Marion	WWRN-FM 106.9		KKUL 103.3	Hazleton	WLB-FM 100.1		
Medina	WDBN 94.9		KWGS 89.5	Hazleton	WVBU-FM 90.5		
Midland	WFCG 93.9			Hazleton	WVBU-FM 90.5		
Middleport	WMPO-FM 92.1			Hazleton	WMRF-FM 95.9		
Middletown	WPBF 105.9			Hazleton	WLIU 88.7		
Milford-Marlemont	WLK 107.1			Hazleton	WVCC 101.7		
Morrow	WLMH 88.1			Hazleton	WBZF-FM 92.1		
Mt. Vernon	WMVO-FM 95.7			Hazleton	WNTE 89.5		
Napoleon	WVNH-FM 99.7			Hazleton	WJBM-FM 92.7		
New Concord	WMCO 90.7			Hazleton	WMDI 100.3		
Newark	WCLT-FM 100.3			Hazleton	WARC 90.3		
	WNKO 101.7			Hazleton	WZPR 100.3		
New Philadelphia	WNPD 95.9			Hazleton	WWJ 103.9		
Norwalk	WLKR-FM 85.3			Hazleton	WMLP 100.9		
Oberlin	WQBC 84.7			Hazleton	WPGL-FM 95.5		
Oxford	WNUB 88.5			Hazleton	WMW 92.1		
	WOXR 97.7			Hazleton	WNUF 100.7		
Piqua	WPTW-FM 95.7			Hazleton	WKPS 88.9		
Port Clinton	WRWR-FM 94.5			Hazleton	WHYP-FM 102.2		
Portsmouth	WPAV-FM 104.1			Hazleton	WVDR 98.5		
	WNCF-FM 95.3			Hazleton	WVDR 98.5		
	WRCJ 89.3			Hazleton	WCAI-FM 96.1		
Reading	WSOM-FM 105.1			Hazleton	WDAS-FM 105.3		
Salem	WLEC-FM 102.7			Hazleton	WRCP-FM 101.5		
Sandusky	WVVR-FM 105.5			Hazleton	WIOQ 101.1		
Springfield	WBLY-FM 102.9			Hazleton	WVDR 101.1		
	WEEC 100.2			Hazleton	WFLN-FM 95.7		
	WUBO 89.1			Hazleton	WUHY-FM 90.9		
Streetsboro	WSTB 91.5			Hazleton	WIFI 92.5		
Stouenville	WSTV-FM 103.5			Hazleton	WMMR 93.3		
Struthers	WKTL 90.7			Hazleton	WPBS 88.9		
Sylvania	WXEZ 105.5			Hazleton	WPEN-FM 102.9		
Timn	WTFY-FM 103.7			Hazleton	WYSP 94.1		
	WHEI 88.9			Hazleton	WPWT 91.7		
Toledo	WSPD-FM 101.5			Hazleton	WRTI 90.1		
	WLOT 104.7			Hazleton	WKDU 91.7		
	WKLK 99.9			Hazleton	WVDR 101.1		
	WLRQ 101.5			Hazleton	WVDR 101.1		
	WMHE 92.5			Hazleton	WVDR 101.1		
University Heights	WJCR 88.9			Hazleton	WVDR 101.1		
	WUCJ 88.9			Hazleton	WVDR 101.1		
Urbana	WCOM-FM 101.7			Hazleton	WVDR 101.1		
	WUHS 91.7			Hazleton	WVDR 101.1		
Van Wert	WERT-FM 89.9			Hazleton	WVDR 101.1		
Wapakoneta	WERM 92.1			Hazleton	WVDR 101.1		
Washington Court House	WCHO-FM 105.5			Hazleton	WVDR 101.1		
	WIBO 100.8			Hazleton	WVDR 101.1		
Waverly	WKQV-FM 86.7			Hazleton	WVDR 101.1		
Wellston	WOBN 91.5			Hazleton	WVDR 101.1		
Westerville	WBBY 103.9			Hazleton	WVDR 101.1		
Wilberforce	WCSU-FM 88.9			Hazleton	WVDR 101.1		
Wooster	WWST-FM 104.5			Hazleton	WVDR 101.1		
	WCWS 91.9			Hazleton	WVDR 101.1		
Worthington-Columbus	WNCI 97.9			Hazleton	WVDR 101.1		
Xenia	WHBM-FM 103.8			Hazleton	WVDR 101.1		
	WBZI 95.3			Hazleton	WVDR 101.1		
Yellow Springs	WYSO 91.5			Hazleton	WVDR 101.1		
Youngstown	WKBN-FM 98.9			Hazleton	WVDR 101.1		
	WQOD 83.3			Hazleton	WVDR 101.1		
	WRO 101.1			Hazleton	WVDR 101.1		
	WHOT-FM 101.1			Hazleton	WVDR 101.1		
	WYSU 88.5			Hazleton	WVDR 101.1		
Zanesville	WHIZ-FM 102.5			Hazleton	WVDR 101.1		

WHITE'S RADIO LOG

Call	Location	Freq.	Call	Location	Freq.	Call	Location	Freq.
KEDQ	Austin MN	90.7	KGMI-FM	Bellingham Wash.	90.7	KJOK	Yuma AZ	93.1
KEEY-FM	Minneapolis-St. Paul, Minn.	90.7	KGMO-FM	Cape Girardeau, Mo.	100.7	KIPW-FM	Waynesville, Mo.	93.1
KEEZ	San Antonio, Tex.		KGMP-FM	Portland, Ore.	100.7	KJRG-FM	Waynesville, Mo.	93.1
KEFC	Waco, Tex. (s)		KGMR-FM	Jacksonville AR	100.3	KJSK-FM	Columbus, Neb.	91.7
KEFM	Nacogdoches, Tex.	103.3	KGNC-FM	Amarillo, Tex.	90.3	KJTW	Rushford MN	91.7
KEGH-FM	Elk Grove CA	90.1	KGNO-FM	Madison City, Kan.	106.3	KJZZ	Anchorage AK	102.1
KEGL-FM	Centerville, Minn.	90.1	KGOR-FM	Norman, OK	106.3	KKAJ	Ardmore OK	95.7
KELA-FM	Centerville, Wash.	103.1	KGPO	Grants Pass, Oreg.	92.9	KKCA	Fulton, Mo.	97.7
KELD-FM	El Dorado AR	103.1	KGRC	Hannibal, Mo.	92.9	KKEA	Hilo, Hawaii	92.7
KELO-FM	Sioux Falls, S.D.		KGRD-FM	Las Cruces, N.M.		KKEG	Fayetteville AR	92.1
KELT	Harlingen, Tex.		KGRE	Greeley, Colo.		KKFM	Colorado Springs, Colo.	92.1
KEMC	Billings MT	91.7	KGRI-FM	Henderson, Tex.		KKHI-FM	San Francisco, Cal.	92.1
KENA-FM	Mesa AZ	101.7	KGRR-FM	Grainland IA	91.3	KKIT-FM	Taos, N.M.	98.7
KENW-FM	Portales, N.M.	89.9	KGSP	Parkville MO	96.7	KKLP	Prestone, Minn.	98.7
KEOL	La Grande OR	91.1	KGTN-FM	Georgetown TX	96.7	KKLS-FM	Rapid City, SD	104.3
KEPC	Colorado Springs CO	90.5	KGUS	Hot Springs AR	97.5	KKMA	Pryor, Okla.	95.5
KEPH	Ephraim, Utah	89.5	KGVM-FM	Idaho Falls, Ida.		KKND	Jamestown, N.D.	95.5
KEQR	Chica, Cal.		KGWV-FM	Belgrade, Mont.		KKNG	Oklahoma City OK	92.5
KERN-FM	Bakersfield, Calif.		KHAK-FM	Cedar Rapids IA	93.1	KKOP	Redondo Beach, Cal.	105.5
KERS	Sacramento, Cal.		KHAR-FM	Anchorage AK	108.9	KKOY-FM	Chanute, Kan.	105.5
KESD	Brookings, S.D.		KHAT	Lincoln NE	106.3	KKUL	Tulsa OK	103.3
KESM-FM	El Dorado Springs, Mo.		KHAY	Ventura CA	100.7	KKWB	Piedmont, Minn.	104.9
KESE	Galveston TX	106.5	KHBB-FM	Monticello AR	93.5	KKWD	Wadena, Minn.	104.9
KETO-FM	Seattle, Wash.	106.5	KHBR-FM	Hillsboro, Tex.	102.5	KKLAD-FM	Klamath Falls OR	92.5
KETU	Salem, Mo.	95.9	KHBU	Humboldt, Iowa	97.7	KLAK-FM	Lakewood CO	107.5
KETX-FM	Livingston, Tex.	92.1	KHCV-FM	Houston, Tex.	105.7	KLAW	Lawton, Okla.	98.7
KEWB	Redding, Cal.	104.3	KHCC-FM	Hutchinson KS	90.1	KLAW-FM	Rapids City, Wash.	98.7
KEWC-FM	Cheney, Wash.	95.9	KHDX	Conway AR	89.1	KLAZ	Little Rock AR	98.5
KEWZ	San Diego CA	105.1	KHEN-FM	Henryetta, Okla.	101.5	KLBJ-FM	Austin TX	93.7
KEWT	Sacramento CA	105.1	KHEP-FM	Phoenix AZ	101.5	KLBN-FM	Lubbock, Tex.	93.7
KEXL	San Antonio TX	104.5	KHFI-FM	Austin, Tex.	91.9	KLBS-FM	Los Banos, Cal.	99.5
KEYC-FM	Mankato, Minn.	104.5	KHFM	Albuquerque, N.Mex.	91.9	KLCC	Eugene, Ore.	99.5
KEYN-FM	Wichita, Kan.	105.7	KHIB	Durant OK	104.9	KLCO-FM	Poteau, Okla.	99.5
KEZE-FM	Spokane, Wash.	105.7	KHIG	Paragould AR	88.9	KLEA-FM	Livington, N.M.	99.5
KEZL	St. Louis MO	102.5	KHKA	Hillsboro, Mo.	89.9	KLEB-FM	Golden Meadow, La.	96.1
KEZL	San Diego CA	94.1	KHKE	Cedar Falls IA	90.9	KLEF	Houston, Tex.	95.3
KEZM	Los Angeles CA	107.5	KHKL	Blytheville AR	96.1	KLEM-FM	LeMars, Ia.	95.3
KEZQ	Little Rock AR	106.5	KHOB-FM	Hobbs, N.M.	94.1	KLFM	Litchfield, Minn.	92.7
KEZR	San Jose CA	96.9	KHOF	Los Angeles, Calif.	99.9	KLFM	Amer., Ia.	92.7
KEZS	Sacramento CA	104.5	KHOM	Houma, La.	102.9	KLGA-FM	Altona, Iowa	89.1
KEZT	Dallas TX	98.9	KHOO	Waco TX	96.7	KLGS	Los Gatos, Cal.	89.1
KEZU	San Antonio TX	94.3	KHQP-FM	Spokane, Wash.	107.9	KLHS	Lewiston ID	89.1
KEZY-FM	Anaheim CA	94.3	KHRC	Brownwood, Tex.	107.9	KLIL	Ukiah, Cal.	107.3
KFAB-FM	Omaha, Neb.	97.9	KHRE	Alton, OR	88.1	KLIN-FM	Lincoln, Neb.	107.3
KFAC-FM	Los Angeles, Calif.	97.9	KHRS	Clayton, Mo.	90.5	KLIQ-FM	Portland, Ore.	95.5
KFAB	Fayetteville, Ark.	97.9	KHSJ-FM	Hemet, Cal.	90.5	KLIR-FM	Denver, Colo.	95.7
KFBC-FM	Cheyenne, Wyo.	97.9	KHSU-FM	Arcata CA	89.5	KLIT	Kansas City, Mo.	88.5
KFBD-FM	Waynesville, Mo.	92.5	KHTC	Helena, Mont.	105.5	KLJL	Lake Jackson, Tex.	96.3
KFBI	Wichita KS	101.3	KHUB-FM	Buffalo, NE	96.7	KLMD-FM	Lubbock, Tex.	96.3
KFDM	Yakima WA	107.3	KHVR	Bijou, Calif.	96.7	KLMO-FM	Longmont, Colo.	101.1
KFGQ-FM	Boone, Ia.	99.3	KIAG	Sterling CO	88.1	KLOA-FM	Ridgecrest, Calif.	92.7
KFIB-FM	Fresno, Cal.	103.1	KIBS-FM	Bishop, Cal.	88.1	KLOL	Houston TX	102.1
KFJG-FM	Marshalltown, Ia.	98.9	KIBT	FT. Dodge, IA	100.7	KLOM-FM	Lompoc, Cal.	97.1
KFLA-FM	Scott City, Kan.	106.5	KICD-FM	Spencer, Ia.	100.7	KLON	Long Beach, Calif.	106.1
KFLP	San Jose CA	101.5	KICT	Wichita KS	95.1	KLOP-FM	Corvallis, OR	106.1
KFLY-FM	Marshalltown, Ia.	98.9	KICS-FM	Hastings, Neb.	99.9	KLOD-FM	Longmont, Colo.	95.5
KFMA	Jerome, Idaho	92.7	KID-FM	Idaho Falls, Ida.	99.9	KLOS	Los Angeles, Calif.	95.5
KFMB-FM	San Diego, Calif.	96.1	KIDA	Moorehead, MN	99.9	KLOV-FM	Loveland, Colo.	102.1
KFMC	Provo, Utah	96.1	KIFG-FM	Iowa Falls, Ia.	96.5	KLOZ	El Paso TX	89.9
KFMD	Dubuque, Ia.	96.3	KIFM	Bakersfield, Cal.	103.7	KLPB	Ruston, Ia.	89.1
KFMG	Des Moines, Ia.	96.3	KIIX-FM	FT. Collins, Colo.	93.3	KLPJ	Denver, Colo.	101.7
KFMI	Eureka, Cal.	106.5	KIJV-FM	Huron, SD	92.1	KLRE	Little Rock AR	90.5
KFMH	Houston, Tex. (s)	99.5	KIKK-FM	Houston, Tex.	100.3	KLRO	San Diego, Calif.	91.1
KFML-FM	Denver, Colo.	99.5	KIKO-FM	Globe AZ	95.5	KLSD	Lubbock TX	99.3
KFMN	Abilene, Tex.	102.9	KIKS-FM	Lake Charles, La.	105.5	KLSS	Brownwood TX	89.7
KFMP	Cape Girardeau, Mo.	102.9	KILA	Henderson, Nev.	105.5	KLST	St. Louis MO	89.7
KFMQ	Lincoln, Neb.	102.9	KILT-FM	Houston, Tex.	95.3	KLTV	Bohler, Mo.	97.1
KFMR	Fremont, Cal.	102.9	KIMI	Keokuk IA	107.3	KLUB-FM	Salt Lake City UT	97.1
KFMS	Kansas City, Mo.	107.9	KIMP-FM	Mt. Pleasant, Tex.	107.3	KLUE-FM	Longview, Tex.	105.1
KFMW	Waterloo IA	107.9	KINB	Poteau, Okla.	107.3	KLUF-FM	Lufkin TX	88.9
KFMX	Omaha NE	92.3	KIND-FM	Independence, Kan.	107.3	KLUM-FM	Jefferson City, Mo.	88.9
KFMY	Eugene, Oreg.	98.3	KINI	Indio, Cal.	101.9	KLUR	Wichita Falls, Tex.	92.7
KFMZ	Columbia, Mo.	98.3	KINK	Portland, Ore.	92.7	KLVL	Pasadena, Tex.	95.5
KFNB	Oklahoma City, Okla.	98.3	KINT-FM	El Paso, Tex.	93.3	KLVR	Henderson, Nev.	90.3
KFNE	Big Springs, Tex.	93.5	KIOA-FM	Des Moines IA	101.3	KLWN-FM	Lawrence, Kan.	94.1
KFNV-FM	Ferriday, La.	93.5	KIOI	San Francisco, Cal.	99.7	KLWY-FM	Bakersfield, Calif.	94.1
KFNW-FM	Fargo, N.D.	93.5	KIOO	Porterville, Calif.	91.5	KLXF	Des Moines Ia.	100.3
KFOG	San Francisco, Calif.	106.1	KIOU	Omaha, Neb.	100.3	KLYK	Longview, Wash.	105.5
KFCG-FM	San Francisco CA	106.1	KIQQ	Los Angeles CA	93.7	KLYN-FM	Lynden, Wash.	95.9
KFRD-FM	Rosenberg, Tex.	104.9	KIQS-FM	Seattle, Wash.	93.7	KLZ-FM	Clear Lake City, Tex.	102.1
KFSJ	San Diego CA	94.1	KISR	Fort Smith AR	99.1	KMAZ	Fort Smith AR	91.5
KFSG	Los Angeles, Cal.	96.3	KISS	San Antonio, Tex.	100.5	KMAQ-FM	Maquoketa, Ia.	93.7
KFTM-FM	FT. Morgan, Cplo.	100.9	KISW	Seattle, Wash.	105.5	KMAX	Sierra Madre, Calif.	91.5
KFTL	Las Vegas, N.M.	100.9	KITE-FM	Yakima, Wash.	93.3	KMBQ	Shreveport LA	93.7
KFUO-FM	Clifton, Mo.	102.1	KITV	San Antonio, Tex.	100.5	KMBP-FM	Kansas City, Mo.	91.5
KFWO	FT. Worth TX	93.7	KIUP-FM	Durango CO	100.5	KMCR-FM	Phoenix AR	95.5
KFYE	Fresno, CA	93.7	KIWA-FM	Sheldon, IA	105.5	KMEO-FM	Phoenix AZ	86.9
KFYR-FM	Bismarck, N.D.	101.5	KIXI-FM	Seattle, Wash.	93.3	KMET	Los Angeles, Cal.	101.7
KGAF-FM	Galnesville, Tex.	101.5	KIXS-FM	Killeen TX	94.7	KMFA	Austin, Tex.	101.7
KGBI-FM	Omaha, Neb.	100.7	KIXY-FM	San Angelo TX	93.7	KMFB-FM	Mendocino, Cal.	101.7
KGBS-FM	Los Angeles, Cal.	89.7	KJAM-FM	Madison, S.D.	103.7	KMFD	Madison, S.D.	102.9
KGCC	Denver, Tex.	89.7	KJAN-FM	Atlantic, Ia.	103.7	KMFL-FM	Marshall, Mo.	102.9
KGFN	Bakersfield, Cal.	93.5	KJAX	Stockton, Cal.	102.3	KMFM	San Antonio, Tex. (s)	95.1
KGFH-FM	Hopouliam, Wash.	93.5	KJAZ	Alameda, Calif.	102.3	KMFS	Waukegan, Ill.	90.1
KGIW-FM	Alamogordo, Colo.	97.7	KJCK-FM	Junction City, Kan.	103.7	KMH	Mercer Island, Wash.	90.1
KGLA	Los Angeles, Calif.	97.7	KJEL-FM	Jennings, La.	103.7	KMID	Clinton TX	101.3
KGLM-FM	Anaconda MT	97.7	KJIB	Portland, Ore.	103.7	KMI-FM	Fresno, Calif.	101.7
KGLR	Renov, Nev.	102.3	KJIL	Compton, CA	102.3	KMKF	Manhattan KS	101.7
KGLT	Bozeman, Mont.	98.7	KJML	Sacramento, CA	98.7	KMLA	Ashdawn AR	103.9
			KJOL	Los Angeles, Calif.	98.7	KMLB-FM	Monroe, La.	103.9

WHITE'S RADIO LOG

Call	Location	Freq.	Call	Location	Freq.	Call	Location	Freq.
KXOA	Sacramento, Calif.		WARC	Meadville, Pa.		WBNO-FM	Bryan, Ohio	100.9
KXOL	Fort Worth TX	99.5	WARI-FM	Abbeville, Ala.		WBNU	Bloomington, Ill.	
KXOW	Hot Springs, AR	106.3	WARM-FM	Hagerstown, Md.	106.9	WBNT-FM	Oneida, Tenn.	105.5
KXQR	Fresno, Calif. (3)		WARP	Fort Pierce, Fla.		WBFO	Buffalo, N.Y.	
KXRA	Alexandria, Minn.		WARU-FM	Peru, Ind.	91.7	WBGC	Cleveland, Ohio	104.7
KXTC	Glendale AZ	92.3	WARY	Mt. Kisco NY	88.5	WBOP-FM	Pensacola, FL	101.5
KXTR	Kansas City, Mo.		WASH	Washington, D.C.		WBOR	Brunswick, Maine	
KXTZ	Los Angeles CA	104.3	WASH-FM	Lafayette, Ind.		WBOS	Brookline-Boston MA	92.9
KXXI	Alamogordo, N.M.		WASK-FM	Boone NC	90.5	WBOW	Treke Haute IN	107.5
KXXX	El Paso, Tex.	105.5	WATM-FM	Atmore AL	104.1	WBRR-FM	Lock Haven, Pa.	
KXXX-FM	Colby KA	100.3	WATO-FM	Oak Ridge, Tenn.		WBRE-FM	Wilkes Barre, Pa.	
KXXY	Oklahoma City OK	96.1	WATP-FM	Marion, S.C.	94.3	WBRR-FM	Pittsfield, Mass.	
KYA-FM	San Francisco CA	93.3	WATW-FM	Ashland, Wis.	95.9	WBRR-FM	Big Rapids, Mich.	97.7
KYAC-FM	Seattle WA	95.5	WATZ-FM	Alpena, Mich.	93.5	WBRS	Walworth, Mass.	
KYAK-FM	Anchorage, Alaska		WAUG-FM	Auradale, Wis.		WBRS	Providence, R.I.	
KYEA	West Monroe, La.	101.3	WAUK-FM	Waukesha, Wis.		WBSE	Biddford ME	91.7
KYEM	Bartlesville, Okin.	98.3	WAUN	Kawaunee WI	92.7	WBSE	Ellipsisville MS	102.3
KYLE-FM	Temple, Tex.	100.1	WAUR	Aurora, Ill.	107.9	WBSE	Sheffield MA	91.7
KYMS	Santa Ana, Cal.		WAUS	Berrien Springs, MI	90.9	WBST	Muncie, Ind.	
KYND-FM	Padadena TX	92.5	WAUS-FM	Arlington, Va.		WBTF-FM	Charlotte, N.C.	
KYNS-FM	Mankato, Minn.		WAW-FM	Waukegan, Wis.	103.1	WBTR-FM	Carrollton, Ga.	92.1
KYNT	Livingston, La.	94.9	WAWK-FM	Kendallville, Ind.		WBUF	Buffalo, N.Y.	
KYTF	Grand Forks ND	94.2	WAWR-FM	Bowling Green, O.		WBUR	Columbus, O.	98.3
KYXY	San Diego CA	96.5	WAWW	Murray, Ky.		WBUR	Boston, Mass.	
KFMX	Inc.		WAWZ-FM	Zarephath, N.J.		WBUT-FM	Butler, Pa.	
KYZM-FM	Cape Girardeau, Mo.	102.9	WAXO	Kenosha, Wis.		WBUT-FM	Lexington, N.C.	
KZAG	Dallas TX	90.1	WAXY	Ft. Wayne, Ind.	103.1	WBVP-FM	Beavert Falls, Pa.	
KZAK-FM	Tyler, Tex.		WAYD-FM	Ozark AL	103.9	WBWC	Berea, Ohio	
KZAP	Sacramento, Cal.	98.5	WAYL	Minneapolis-St. Paul, Minn.		WBWG	Bayamon, P.R.	
KZEL-FM	Eugene, Ore.		WAYX-FM	Waycross, Ga.	102.5	WBWO	Boyetown, Pa.	
KZEM	Seaside CA	107.1	WAYZ-FM	Waynesboro, Pa.		WBYS-FM	Canton, Ill.	98.5
KZFM	Corpus Christi, Tex.		WAZI	Morrisstown TN	95.9	WBYS	Hendersonville TN	92.1
KZFN-FM	Bakersfield, Calif.	107.9	WAZW	Waukegan, Wis.		WBYS	New Orleans, La.	95.7
KZNN	Rt. MO	105.3	WAZZ-FM	Lafayette, Ind.		WBZA-FM	Glen Falls, N.Y.	107.1
KZSC	Santa Cruz CA	98.1	WBAB-FM	Babylon, N.Y.		WBZA-FM	San Juan PR	105.7
KZST	Santa Rosa, Calif.	100.1	WBAD	Leland MS	94.3	WBZC	Pompano Beach, FL	102.7
KZSU	Stanford, Cal.		WBAG-FM	Burlington-Graham, N.C.	93.9	WBZL	Xenia, O.	
KZUN-FM	Opportunity, Wash.		WBAN	New York, N.Y.		WBZL	Kalamazoo MI	89.9
KZZZ	Kingman AZ	92.7	WBAL-FM	Baltimore, Md.		WBZL	Catlettsburg, KY	92.9
WAAL	Binghamton, Mass.	99.1	WBAN	Garden City NY	90.3	WBZL-FM	Northfield, Minn.	
WAAM-FM	Parkersburg, W.Va.		WBAA-FM	Barnwell, S.C.		WBZL-FM	Baltimore, Md.	
WAAZ-FM	Crestview, Fla.		WBAY	Green Bay, Wis. (s)		WBZL-FM	Detroit, Mich.	
WABB-FM	Mobile AL	97.5	WBBA-FM	Pittsfield, Ill.		WBZL-FM	Knoxville, Tenn.	
WABD-FM	Ft. Campbell, Ky.	102.9	WBBC	Jackson, Mich.	92.5	WBZL-FM	Philadelphia, Pa.	91.1
WABE	Atlanta, Ga.	97.9	WBBI-FM	Abingdon, Va.		WBZL-FM	Columbus, Ohio	
WABF-FM	Fairhope AL	107.1	WBBI-FM	Chicago, Ill.		WBZL-FM	Martinsville, Ind.	102.3
WABK-FM	Gardiner ME	104.3	WBBD-FM	Forest City, N.C.		WBZL-FM	Benton, Ky.	
WABO-FM	Waynesboro MS	105.5	WBBD-FM	Augusta, Ga.	103.9	WBZL-FM	Ann Arbor MI	89.5
WABR-FM	Tifton GA	90.5	WBBD-FM	Westerville, O.	94.5	WBZL-FM	Richmond KY	101.7
WABX	Detroit, Mich.	99.5	WBBD-FM	Buffalo NY		WBZL-FM	New York, N.Y.	89.9
WABZ-FM	Albemarle, N.C.		WBBD-FM	Indianapolis, Ind.		WBZL-FM	Columbia, Ill.	
WACE	Paris IL	98.3	WBBD-FM	Boston, Mass.		WBZL-FM	Cheyboygan, Mich.	105.1
WACI	Freeport, III.	92.1	WBBD-FM	Rochester, N.Y.		WBZL-FM	McComb, Miss.	94.1
WACL-FM	Waycross, GA	103.3	WBBD-FM	Beloit, Wis.	102.9	WBZL-FM	Hartford, Conn.	106.9
WACT-FM	Tuscaloosa AL	105.5	WBBD-FM	Milwaukee WI		WBZL-FM	Punta Gorda, Fla.	
WADB	Point Pleasant, N.J.	95.9	WBBD-FM	Indianapolis, Ind.		WBZL-FM	Savanna IL	90.7
WADM-FM	Decatur, Ind.		WBBD-FM	Buffalo, N.Y.		WBZL-FM	Erie, Pa.	103.7
WADV	Buffalo, N.Y.	98.1	WBBD-FM	Charleston, W.V.	96.1	WBZL-FM	Lawrence, Mass.	
WAEI-FM	Maricao, P.R.	106.5	WBBD-FM	Brookton, Mass.		WBZL-FM	Hellville, Wis.	
WAEK	Syracuse, N.Y.	96.1	WBBD-FM	Beaufort, S.C.		WBZL-FM	Minneapolis, Minn.	102.9
WAEY-FM	Princeton WV	95.9	WBBD-FM	Beaver Dam, Wis.	95.3	WBZL-FM	Central City PA	101.7
WAEZ	Akron OH	97.5	WBBD-FM	Chilllicothe, Ohio		WBZL-FM	Charlottesville, Va.	
WAFB-FM	Baton Rouge, La.	98.3	WBBD-FM	Chicago, Ill.		WBZL-FM	Traverse City, Mich.	
WAFD-FM	Lauderdale FL	90.1	WBBD-FM	Detroit, Mich.		WBZL-FM	Carbondale, Pa.	94.3
WAFI	Milford, N.Y.	96.7	WBBD-FM	Seneca, S.C.		WBZL-FM	Cadayette, O.	95.9
WAFM	Angola, Ind.	100.1	WBBD-FM	Buffalo, N.Y.		WBZL-FM	Imokalee FL	
WAFR	Durham, NC	90.3	WBBD-FM	Tallahassee, Fla.		WBZL-FM	Oubou, Pa.	
WAFU	Valdosta, GA	101.1	WBBD-FM	Newark, N.J.		WBZL-FM	Parkersburg, W.Va.	103.9
WAGI-FM	Gaffney, SC	105.3	WBBD-FM	Paris KY	96.7	WBZL-FM	Hawkinsville, Ga.	
WAGM	Amherst, Mass.	89.5	WBBD-FM	Bowling Green, Ohio		WBZL-FM	Cambridge, Md.	
WAGR	Huntsville AL	99.1	WBBD-FM	Chicago IL		WBZL-FM	Mt. Pleasant, Mich.	
WAI	Miami FL	97.3	WBBD-FM	BHNS	91.1	WBZL-FM	Charlotte, Mich.	
WAIC	Springfield, Mass.		WBBD-FM	Brownsville, Tenn.		WBZL-FM	Clinton TN	104.9
WAID	Memphis, TN	104.5	WBBD-FM	Marletta, Ga.		WBZL-FM	Williamstown, Mass.	
WAIF-FM	Columbia, Ky.		WBBD-FM	Bridgeport MA	91.5	WBZL-FM	Springfield, Vt.	93.5
WAIV	Indianapolis, Ind.		WBBD-FM	Knoxville, Tenn.		WBZL-FM	Chippewa Falls, Wis.	105.5
WAJC	Indianapolis, Ind.		WBBD-FM	Wethersfield Township, N.Y.	107.7	WBZL-FM	Cadandigua NY	93.5
WAJM-FM	Montgomery AL	103.3	WBBD-FM	Eau Claire, Wis.		WBZL-FM	Detroit, Mich.	
WAJP	Joliet, Ill.		WBBD-FM	Lincroft NJ	90.5	WBZL-FM	Camden, Ga.	
WAJR-FM	Morgantown, W.Va.		WBBD-FM	Baltimore, Md.		WBZL-FM	Chambersburg, Pa.	95.1
WAKG	Danville VA	103.3	WBBD-FM	Trenton, N.J.		WBZL-FM	Norwich, N.Y.	
WAKM	Bedford, Pa.		WBBD-FM	North Manchester	89.5	WBZL-FM	Washington Court House	
WAKN-FM	Alken, S.C.		WBBD-FM	Owensboro KY	92.5	WBZL-FM	Camuy, P.R.	102.9
WAKW	Lawrenceville, Ill.		WBBD-FM	West Bend, Wis.		WBZL-FM	Trenton, N.J.	94.3
WAKX	Cincinnati, O.		WBBD-FM	Beekley, W.Va.		WBZL-FM	Bay City MI	91.3
WALD-FM	Waterboro, S.C.	100.9	WBBD-FM	Lexington, Ky.		WBZL-FM	Falmouth, Mass.	101.9
WALF	Alfred NY	89.7	WBBD-FM	Patuxent, N.Y.	106.1	WBZL-FM	Carbondale, Ill.	101.5
WALJ	Naples FL	105.5	WBBD-FM	Buffalo, N.Y.		WBZL-FM	Beekley, W.Va.	103.7
WALK-FM	Patuxent, N.Y.		WBBD-FM	Lewisiston Auburn ME	107.5	WBZL-FM	Wes Point, Miss.	
WALM-FM	Middletown, N.Y.		WBBD-FM	New York NY	107.5	WBZL-FM	Cocoa Beach, Fla.	
WALP	Parshall, Mich.	90.5	WBBD-FM	Mobile AL	92.9	WBZL-FM	La Place, La.	
WALP	Carlinth, Miss.	90.5	WBBD-FM	Springfield, Ohio	102.9	WBZL-FM	Claxton GA	107.1
WALT	Meridian, Miss.	97.1	WBBD-FM	Elwood, Ind.		WBZL-FM	Cleveland MS	103.9
WAMB-FM	Nashville TN	92.9	WBBD-FM	Elford, Ind.		WBZL-FM	Cleveland, Tenn.	
WAMC	Ahany, N.Y.		WBBD-FM	Elford, Ind.		WBZL-FM	Wilkes-Barre, Pa.	90.7
WAMI-FM	Opp AL	102.3	WBBD-FM	Charlotte Amalie, V.I.		WBZL-FM	Corning, N.Y.	
WAMO-FM	Pittsburgh, Pa.		WBBD-FM	Conway, N.H.		WBZL-FM	Janesville, Wis.	101.9
WAMU-FM	Washington, D.C.		WBBD-FM	Boonville, Ind.		WBZL-FM	St. Louis, Mo.	
WANG	Coldwater, Mich.	98.5						
WANS-FM	Anderson, S.C.							
WANV-FM	Albany, Ky.							
WANM	Tallahassee, Fla.							
WANP-FM	Viñesnes, Ind.							
WAPC-FM	Birmingham AL	94.5						
WAPL-FM	Appleton, Wis.							
WAPS	Akron, Ohio							
WAQY	Springfield MA	102.1						

WHITE'S RADIO LOG

Call	Location	Freq.	Call	Location	Freq.	Call	Location	Freq.
WHCL-FM Clinton, N.Y.			WJIZ Albany, Ga.			WKOV-FM Wellston, OH		96.7
WHCN Hartford, Conn.			WJGF Romney WV		91.5	WKOZ-FM Kosciusko, Miss.		
WHCR Montgomery AL			WJJD-FM Chicago, Ill.			WKPS-FM Wilmington, Pa.		
WHCU-FM Ithaca, N.Y.	90.7		WJJE Lafayette IN		91.9	WKPT-FM Kingsport, Tenn.		
WHDG Havre De Grace MD	103.7		WJJE-FM Lewisburg, Tenn.	94.3		WKQD Henderson KY	92.5	
WHDL-FM Allegheny, N.Y.			WJJK-FM Adams MA	89.5		WKRG-FM Mobile AL	99.9	
WHEB-FM Portsmouth, NH	100.3		WJKL Elgin IL			WKRQ Cincinnati OH	101.9	
WHET Timm OH	88.9		WJLC-FM South Boston VA	97.3		WKRT-FM Cortland, N.Y.		
WHEN-FM Syracuse, N.Y.			WJLE-FM Smithville, Tenn.	101.7		WKRX Louisville, Ky.		
WHFB-FM Benton Harbor, Mich			WJLF-FM Asbury Park, N.J.			WKSB Kent, Conn.	90.9	
WHFC Bel Air MD	88.1		WJLM Salem, Va.	93.5		WKSI Mobile AL	94.9	
WHFD Archibald, O.			WJLN Birmingham AL	104.7		WKSJ Greencastle- Waynesboro PA	94.3	
WHFG Wash IN	91.1		WJMA Orange VA	94.1		WKSJ Hartford-Meriden, CT	95.7	
WHFM Flossmoor, Ill.			WJMC-FM Rice Lake, Wis.			WKTA McKenzie, Tenn.		
WHFA Winter Haven, FL	97.5		WJMD Bethesda, Md.			WKTF-FM Farmington ME	99.3	
WHFM Rochester, N.Y.			WJMI Jackson, Miss.			WKTK Catonsville, MD	105.7	
WHFS Bethesda, Md.			WJMJ Hartford CN	88.9		WKTL Struthers, O.		
WHGM Bellwood, Pa.			WJMK Plainfield, Ind.			WKTM N. Charleston, S.C.		
WHHI Highland, Wis.			WJML-FM Petoskey, Mich.	98.9		WKTF-FM Mayfield, Ky.		
WHHO-FM Hornell, N. Y.	105.3		WJMS-FM Merrill MI	93.5		WKTF-FM Kenton, Ohio	95.3	
WHHR Hilton Head SC	106.3		WJMT-FM Decatur, Ill.	89.9		WKTF-FM Jacksonville, Fla.		
WHHY-FM Syracuse AL			WJNJ-FM Atlantic Beach, Fla.	104.9		WKUB Manitowish, Ind.		
WHIL-FM Medford, Mass.	101.9		WJNL-FM Johnstown PA	96.5		WKUZ Washab, Ind.		
WHIM-FM Providence, R.I.			WJNO-FM Palm Beach FL	97.9		WKVI-FM Knox, Ind.	95.9	
WHIN-FM Gallatin TX	104.5		WJNR Iron Mt. N.J.	103.9		WKVO-FM Havelock, NC	104.9	
WHIO-FM Dayton, Ohio			WJNS-FM Yazoo City, Miss.	104.3		WKWF-FM Wheeling, W.Va.		
WHIP-FM Danville, Ky.	107.1		WJOF Athens AL	104.3		WKWZ Zebulon, Ill.	104.9	
WHIZ-FM Zanesville, Ohio			WJOL-FM Florence, Ala.			WKXJ Jackson, Miss.	88.5	
WHJE Carmel, Ind.	91.3		WJOL-FM Joliet, Ill.	106.3		WKXL-FM Concord, NH	102.3	
WHJT Clinton MS	93.5		WJPD Ishpeming, Mich.	92.3		WKXR-FM Exeter NH	107.1	
WHKK Erlanger, Ky.	100.9		WJRF-FM Detroit, Mich.			WKYF-FM Bristol TN-Va	96.9	
WHKP-FM Hendersonville, N.C.			WJRH Easton, Pa.			WKYF-FM Greenville, Ky.		
WHKY-FM Hickory, N. C.			WJRS-FM Jamestown, Ky.	103.1		WKYV-FM Parkersburg WV	103.1	
WHLA Holmen, Wis.			WJSC-FM Johnson VT	91.5		WKYV-FM San Juan, P.R.	99.9	
WHLD-FM Lancaster, Pa.			WJSK Lumberton, N. C.	102.3		WKYM-FM Paducah, Ky.		
WHLI-FM Hempstead, N.Y.			WJSL-FM Martinsburg, Pa.			WKZD Sarasota FL	105.5	
WHLM-FM Bloomsburg, Pa.			WJSV Morristown, N.J.	90.5		WKZN Zion, Ill.	96.9	
WHLQ Canton OH	106.9		WJTO-FM Bath, Me.	95.3		WKZZ Myrtle Beach SC	101.7	
WHLS-FM Port Huron, Mich.			WJVM Sterling, Ill.			WLAC-FM Nashville, Tenn.		
WHLT-FM Huntington, Ind.			WJWF Columbus MS	103.1		WLAD-FM Danbury, Conn.		
WHMA-FM New York AL	100.5		WKAI-FM MaComb, Ill.			WLAE-FM La Grange, Ga.	104.1	
WHME South Bend, Ind.			WKAJ-FM Saratoga Springs, N.Y.	102.3		WLAK Chicago IL	93.9	
WHMP-FM Northampton, Mass.			WKAK Kankakee, Ill.			WLAN-FM Lancaster, Pa.		
WHNE Birmingham MI	94.7		WKAQ-FM San Juan, P.R.			WLAP-FM Lexington, Ky.		
WHNN Bay City MI	96.1		WKAU-FM Kaukauna WI	104.9		WLAT-FM Conway, S.C.		
WHNR McMinnville, Tenn.	103.9		WKAY-FM Glasgow, Ky.			WLAV-FM Grand Rapids, Mich.		
WHOK-FM Jackson AL	104.9		WKBC-FM Charleston, W.Va.			WLAY-FM Muske Shonals AL		
WHOM-FM New York, Ohio			WKBI-FM Ridgway- Johnsburg PA	94.3		WLBC-FM Muncie, Ind.	104.7	
WHOO-FM Orlando, Fla.			WKBJ-FM Milan, Tenn.			WLBE-FM Leesburg, Fla.	106.1	
WHOP-FM Hopkinsville, Ky.			WKBN-FM Youngstown, Ohio			WLBG-FM Laurens-Clinton, S.C.		
WHOT-FM Youngstown OH	101.1		WKBV-FM Richmond, Ind.			WLBH-FM Mattoon, Ill.		
WHOU Hampton, Va.			WKCF Shell Lake WI	95.3		WLBH-FM Bowling Green, Ky.		
WHPC Garden City NY			WKCI Hamden CT	91.9		WLBK-FM DeKalb, Ill.		
WHPE-FM High Point, N.C.	90.3		WKCO Gambier OH	91.9		WLBK-FM Lebanon, Pa.		
WHPH Manover, N.J.			WKCC Saginaw MI	98.1		WLCC Lincoln, Ill.	88.9	
WHPK-FM Chicago, Ill.			WKCR-FM New York, N.Y.			WLCH Lebanon TN	88.7	
WHPR Highland Park, Mich.			WKCS Knoxville, Tenn.			WLCK-FM Scottville, Ky.		
WHRB-FM Cambridge, Mass.			WKCU-FM Corinth, Miss.			WLCL-FM Lowell IN	107.1	
WHRY Albany, N.Y.			WKDA-FM Nashville, Tenn.	105.5		WLCL-FM Lancaster, S.C.		
WHRR Wausau, Wis.			WKDN-FM Camden, N.J.			WLCO-FM Tampa, Fla.	94.9	
WHRS Boynton Beach, Fla.	91.7		WKDU Philadelphia, PA	91.7		WLDM Detroit, Mich.	95.9	
WHRW Binghamton, N.Y.			WKDF-FM Cadiz Ky	106.3		WLDS-FM Jacksonville, Ill.		
WHSA Brule, Wis.	89.9		WKEE-FM Huntington, W.Va.			WLDR Traverse City, Mich.	101.9	
WHSB Alpena, Mich.			WKES-FM Kewanee, Ill.			WLEC-FM Sandusky, Ohio		
WHSD Hinsdale, Ill.	88.5		WKET-FM Petersburg, Va.	101.5		WLEF Adrian, Mich.		
WHSH Albany NY	106.5		WKEU-FM Ketterling, Ohio			WLET-FM Toledo, Ga.		
WHSR-FM Winchester, Mass.	91.9		WKEU-FM Griffin, Ga.			WLEW-FM Bad Ayn, Mich.		
WHSY-FM Hattiesburg, Miss.			WKEY-FM Covington, Va.			WLEX Lexington, Ky.	98.1	
WHTB Talladega AL	92.7		WKFM Fulton NY	104.7		WLFC Findlay OH	88.3	
WHTC-FM Holland, Mich.			WKFR-FM Battle Creek, Mich.			WLFG Appleton, Wis.		
WHTG-FM Eatontown, N.J.	106.3		WKHM-FM Cumberland, Md.	106.1		WLHN Anderson IN	97.9	
WHUB-FM Cookeville, Tenn.			WKHN-FM Jackson, Mich.			WLIF Baltimore, Md.	101.9	
WHUC-FM Elmira, N.Y.			WKHR Pikeville KY	92.1		WLII-FM Bowling Green, Wis.		
WHUD Peekskill N.Y.	100.7		WKHS Worton MD	90.5		WLIL-FM Lenoir City, Tenn.		
WHUG Jamestown NY	101.7		WKJB-FM Mayaguez, P. R.			WLIN Jackson MS	95.5	
WHUN-FM Huntington, Pa.			WKJC Bluefield, W.Va.	106.3		WLIP-FM Kenasha, Wis.	95.1	
WHUR Washington DC	96.3		WKJF Pittsburg, Pa.			WLIR Garden City NY	92.7	
WHUS-FM Storrs, Conn.			WKJR-FM Muskegon Heights MI	101.7		WLIV-FM Livingston, Tenn.		
WHVY Springfield, Mass.	94.7		WKKD-FM Aurora, Ill.			WLJC Beattyville, Ky.		
WHWB-FM Rutland, Vt.	98.1		WKLE-FM Ludington, Mich.	106.3		WLJE Valparaiso, IN	105.5	
WHWC Colfax, Wis.			WKLK-FM St. Albans, W.Va.	97.7		WLJM-FM Gadsden AL	103.7	
WHWE Howe, Ind.	89.7		WKLK-FM Oneonta AL			WLKR-FM Newark, Ohio		
WHYD-FM Columbus, Ga.	107.3		WKLK-FM Clanton, Ala.			WLKW-FM Providence, R.I.		
WHYL-FM Carlisle, Pa.			WKLH-FM Montgomery AL	92.3		WLKY-FM Lynchburg, Va.	98.3	
WHYN-FM Springfield, Mass.			WKLK-FM Glouster MN	100.9		WLSL-FM Hartford Ky	106.3	
WHYS-FM North East, Pa.	100.9		WKLN Cullman AL	92.1		WLMO Knoxville, Fla.		
WHYU-FM Hattiesburg, Miss.	104.5		WKLK-FM Keyser WV	94.1		WLMM Morehead, Ohio		
WIAB Interlochen, Mich.	89.3		WKLK-FM Toledo, O.			WLML Jackson OH	94.7	
WIAB Key West FL	95.5		WKLK-FM Atlanta, Ga.			WLNJ Sag Harbor NY	92.1	
WIAC-FM San Juan, P.R.			WKLH-FM Dearborn, Mich.			WLNH-FM Laconia, N.H.		
WIAD Danville, Ill.	99.1		WKNM Kokomo, Ind.			WLNO London, Ohio		
WIAD Eau Claire, Wis.			WKNM-FM Murray, Ky.	91.3		WLNR Lansing IL	106.3	
WIAM-FM Williamsport, N.C.			WKNA Charleston, W. Va.			WLOA-FM Aiken, S.C.		
WIAN Indianapolis, Ind.			WKNF-FM Raleigh NC	88.1		WLOC-FM Munfordville, Ky.		
WIAP-FM Madison, Wis.			WKNF-FM Keene, N.H.			WLOI-FM La Porte, Ind.		
WIBF-FM Jenkintown, Pa.			WKNQ-FM Memphis, TN	91.1		WLOL-FM Minneapolis, Minn.		
WIBG-FM Philadelphia, Pa.			WKNQ-FM Kent, O.			WLOQ Winter Park, Fla.		
WIBM-FM Jackson, Mich.			WKOF Hopkinsville, Ky.			WLOS-FM Asheville, N.C.	99.9	
			WKOK-FM Sunbury, Pa.			WLOP-FM Aiken, S.C.		
			WKOM Columbia TN	101.7		WLPR Mobile AL	96.1	
						WLQA Cincinnati OH	98.5	
						WLRQ Toledo, Ohio	101.5	
						WLQY Ft. Lauderdale FL	101.7	
						WLRA Lockport IL	88.1	
						WLRC-FM Wm. Branch, N.C.	95.3	
						WLRR Roanoke VA	92.3	
						WLRN-FM Miami FL	91.3	

WHITE'S RADIO LOG

Call	Location	Freq.	Call	Location	Freq.	Call	Location	Freq.
WRUR	Rochester, N.Y.	88.5	WSTB	Streetsboro OH	91.5	WTVL	FM Tyertown, Miss.	97.9
WRUS	FM Reelville, Ky.	101.1	WSTC	FM Stamford Conn.		WTVZ	FM Tazewell, Va.	
WRUV	Burlington, Vt.		WSTK	Woodstock, Ill.		WUAC	Greensboro, N.C.	
WRUW	FM Cleveland, O.		WSTM	St. Matthews, Ky.		WUAL	FM Tuscaloosa AL	91.7
WRVC	Norfolk, Va.		WSTN	Florence, S.C.	103.1	WUAZ	Henderson, Ky.	103.1
WRVF	River Falls, Wis.		WSTO	Owensboro, Ky.		WUBE	Cincinnati OH	105.1
WRVM	Suring, Wis.		WSTP	FM Salisbury, N.C.		WUCB	FM Chicago, Ill.	
WRVO	Dewey, N.Y.	89.9	WSTP	FM Sturgis, Mich.		WUCJ	University Heights, Ohio	
WRVP	New York, N.Y.		WSTS	Laurinburg, N.C.	96.5			
WRVQ	Richmond Va.	94.5	WSTU	FM Stuart, Fla.				
WRVA	FM Inc.		WSTV	FM Steubenville, Ohio		WUFN	Albion, Mich.	86.9
WRVV	Nashville, TN	91.1	WSTW	FM Wilmington, Del.	93.7	WUHS	Urbana, O.	91.7
WRWC	S. Beloit, Ill.		WSUB	FM Groton Conn.	105.5	WUHY	FM Philadelphia, Pa.	
WRWR	FM Clinton, Ohio		WSUP	FM Piatteville, Wis.	102.3	WULA	FM Eufula AL	92.7
WRXK	Richmond Va.	102.1	WSUJ	FM Jacksonville, Fla.		WULX	FM Richmond, Ind.	
WRXO	FM Roxboro, N.C.		WSUW	Whitewater, Wis.		WUMF	FM Farmington Me.	91.9
WRYZ	FM Jupiter, FL	96.7	WSUX	FM Seaford DE	98.3	WUMR	Rolla MO	88.5
WSAB	Mt. Carmel, Ill.		WSVA	FM Harrisonburg, Va.		WUNC	Chapel Hill, N.C.	
WSAC	FM Ft. Knox, Ky.		WSVC	Midland, Mich.	99.7	WUNH	Durham NH	91.3
WSAE	Spring Arbor, Mich.		WSVL	FM Shelbyville, Ind.		WUOA	Tuscaloosa AL	95.7
WSAF	FM Grove City, Pa.	89.5	WSVG	FM Green, Va.		WUOG	Athens GA	90.5
WSAL	FM Logansport, Ind.		WSWG	FM Greenwood, MS	99.1	WUOM	Ann Arbor, Mich.	
WSAU	FM Wausau, Wis.		WSWM	East Lansing, Mich.		WUPI	Presque Isle ME	91.1
WSB	FM Atlanta, Ga.		WSWN	FM Belle Glade, Fla.		WUPY	Lynn, Mass.	
WSBA	FM York, Pa.		WSWT	Peoria IL	106.9	WUSC	FM Columbia, S.C.	
WSBF	FM Clemson, S.C.		WSWV	FM Pennington Gap		WUSF	Tampa, Fla.	
WSBG	FM Saginaw, Mich.	106.3	WSWV	FM Pennington Gap		WUSD	Springfield, O.	
WSBT	FM South Ind., Ind.		WSYR	FM Syracuse, N.Y.		WUST	FM Bethesda, Md.	90.3
WSBC	Springfield, Ind.		WTAB	FM Tabor City, N.C.		WUTS	Wartburg, Tenn.	88.1
WSO	Somerset, Ky.		WTAD	FM Quincy, Ill.		WUTS	Sewanee TN	90.7
WSCH	Aurora, Ind.	99.3	WTAE	FM Pittsburgh, Pa.		WUVT	FM Blacksburg, Va.	90.7
WSCJ	Charleston, SC	89.3	WTAI	FM Melbourne FL	107.1	WUWM	Milwaukee, Wis.	97.6
WSCM	FM Berkeley Springs, W.V.		WTAN	FM Clearwater, Fla.		WVAC	Adrian, Mich.	
WSDM	Chicago, Ill.		WTAO	FM Murphysboro IL	104.9	WVAF	FM Charleston, W.Va.	
WSDP	Plymouth, MI	89.3	WTAR	Norfolk, Va.		WVAK	FM Paoli IN	85.3
WSEA	Georgetown, Del.	93.5	WTAS	Crete, Ill.		WVAM	FM Altoona, Pa.	
WSEF	FM Seneca Falls, N.Y.		WTAW	FM College Station, Tex.		WVBC	Bethany, W.Va.	
WSEI	Oney, Ill.	99.3	WTAY	FM Robinson, Ill.	101.7	WVBF	Framingham, MA	105.7
WSEK	Somerset, Ky.	92.9	WTBI	McComb, MS	105.7	WVBS	FM Thaca, N.Y.	
WSEL	FM Pontotoc, Miss.		WTBO	FM Cumberland, Md.		WVBS	FM Burlington, N.Y.	99.9
WSEN	FM Baldwinville, N.Y.		WTBS	Cambridge, Mass.		WVBU	FM Lewisburg, Pa.	
WSEV	FM Sieverville, Tenn.		WTCA	FM Plymouth, Ind.		WVCA	FM Gloucester, Mass.	
WSFL	Bridgeton NJ	97.7	WTCC	Springfield MA	90.9	WVCD	Hazleton, Pa.	97.9
WSFH	Ferrisburg, Pa.	99.3	WTCH	FM Shawano, Wis.		WVCL	FM Winnfield, La.	
WSGC	FM Elberton, GA	90.3	WTCL	FM Traverse City, Mich.		WVCM	Carrollton, Ky.	
WSGF	FM Savannah GA	95.5	WTCD	FM Campbellsville, Ky.		WVDR	Loudsville, N.Y.	
WSGH	FM Winston-Salem NC	107.5	WTCE	FM Whitesburg, Ky.		WVCS	Charleston, W.Va.	91.7
WSGM	Staunton, Va.		WTDL	FM Lake City, Fla.	94.3	WVGY	Milwaukee WI	107.9
WSGO	FM Oswego NY	105.5	WTES	FM Buffalo, N.Y.		WVEC	FM Hampton, Va.	
WSGR	FM Port Union, Mich.	91.3	WTFM	Lake Success, N.Y.		WVEL	FM Fayette AL	98.1
WSGS	Hazard, Ky.	101.1	WTHD	FM Hammond, La.		WVEM	Springfield, Ill.	99.3
WSHA	Raleigh, N.C.	88.9	WTGN	Norfolk, Va.	89.5	WVFN	FM Knoxville, Tenn.	88.3
WSHE	Lt. Lauderdale FL	103.5	WTGP	Greenville, PA	88.1	WVFC	Benton, IL	98.3
WSHG	Georgetown SC	106.3	WTHI	FM Terre Haute, Ind.		WVFM	Lakeland, Fla.	
WSHI	Pittsburgh Pa.	99.7	WTHM	FM Lapeer, Mich.		WVFD	Dundee, Ill.	
WSHM	Southfield, Mich.	92.1	WTHN	FM Thomson, GA	101.7	WVGR	Grand Rapids, Mich.	104.1
WSHN	FM Fronton, Mich.	100.1	WTIB	FM Tullahoma, Tenn.	104.9	WVHC	Hempstead, N.Y.	
WSHR	Lake Ronkonkoma, N.Y.		WTIC	FM Hartford, Conn.		WVH	Evansville, Ind.	
WSHS	Sheboygan WI	91.7	WTIM	FM Taylorsville, Ill.	92.7	WVHP	FM Highland Park NJ	
WSHU	Fairfield, Conn.		WTIO	Charleston, W. Va.		WVIA	FM Seranton PA	89.3
WSHV	South Hill Va.	105.5	WTJM	FM Pineville KY	106.3	WVIC	FM E. Lansing, Mich.	
WSHV	FM Shelbyville, Ill.	104.9	WTJK	FM Jackson, Tenn.		WVJK	Rock Island IL	91.1
WSID	FM Baltimore, Md.		WTJL	FM Jacksonville, Va.		WVIP	FM West Nyack, N.Y.	
WSIE	Edwardsville, Ill.	88.7	WTKM	FM Hartford W.	104.9	WVIS	Frederiksted VI	106.7
WSIP	Red Bank TN	94.3	WTKY	FM Tompkinsville, Ky.	92.1	WVJC	Mt. Carmel IL	89.1
WSIM	FM Paintsville, Ky.		WTL	Indianapolis, Ind.		WVJP	FM Caspas, P.R.	
WSIU	Carbondale, Ill.		WTLN	FM Apopka, Fla.	95.3	WVJS	FM Owensboro, Ky.	
WSIU	FM Park, Ill.		WTLB	FM Tomoka, Wis.		WVKS	FM Gatesburg, Ill.	
WSIX	FM Nashville, Tenn.		WTME	Manning SC	92.1	WVLM	FM Lima, Pa.	105.5
WSJC	FM Magee, Miss.		WTMI	Miami, Fla.	93.1	WVLK	FM Lexington, Ky.	
WSJG	Hallandale, Fla.		WTMJ	FM Milwaukee, Wis.	94.9	WVLE	Eikarth, IN	88.1
WSJP	FM Sebring FL	105.5	WTMO	Tishomingo, Miss.	88.5	WVLI	Monticello NY	105.5
WSLE	Petersborough NH	92.1	WTNG	FM Thomasville, N.C.		WVLR	Sauk City, Wis.	
WSLI	FM Jackson, Miss.		WTNS	FM Coshocton, O.		WVMG	FM Cochran, Ga.	96.7
WSLM	FM Salem, Ind.		WNTM	FM Tallahassee, Fla.		WVMI	FM Millot, MS	108.3
WSLN	Delaware, Ohio		WTOC	FM Savannah, Ga.		WVMO	Monroeville, Pa.	
WSLQ	Roanoke Va	99.1	WTOF	FM Toledo, Ohio		WVMS	Chattanooga, Tenn.	88.9
WSLS	FM Roanoke, Va.		WTOG	Canton, Ohio		WVMP	FM Highland Park NJ	
WSLT	FM Ocean City NJ	106.3	WTOF	FM Skowhegan ME	107.1	WVNW	FM Seranton PA	90.3
WSLU	Canton, N.Y.		WTDI	FM Marlanna, Fla.		WVNY	FM Newark, N.J.	101.5
WSM	FM Nashville, Tenn.	95.5	WTPA	FM Harrisburg, Pa.		WVNF	FM Mansfield, Ohio	
WSM	FM Collegedale, Tenn.		WTPC	Elsh, Ill.	89.7	WVOP	FM Vidalia, Ga.	97.7
WSMD	FM Waldorf, Md.		WTPM	Aguadilla, P.R.	92.9	WVOR	Rochester, N.Y.	
WSMI	FM Litchfield, Ill.		WTPR	FM Paris, Tenn.		WVOS	FM Liberty, N.Y.	
WSMJ	Greenfield, Ind.		WTRQ	Winston-Salem NC	104.1	WVOT	FM Wilson, N.C.	
WSMM	Sault Ste. Marie, MI	92.7	WTRC	FM Selma AL	100.9	WVOW	FM Woodstock, Va.	101.9
WSMT	FM Sparta, Tenn.		WTRC	FM Potosi, MO	91.1	WVOX	FM New Rochelle, N.Y.	
WSMU	FM Starkville, Miss.	106.3	WTRF	Wheeling WV	107.5	WVPC	Beckley WV	91.7
WSND	FM Notre Dame, Ind.		WTRG	FM Dyersburg, Tenn.	100.1	WVPE	FM Monmouth, Ill.	
WSNJ	FM Bridgeton, N.J.		WTRS	Dunnellon, Fla.	102.3	WVPO	FM Stroudsburg, Pa.	
WSOC	FM Charlotte, N.C.		WTSB	FM Lumberton, N.C.		WVQM	Huntington, W.Va.	
WSOD	FM Toledo, Ohio		WTSJ	FM Jackson, Mich.		WVRY	Waverly, Tenn.	104.9
WSOF	Fort Myers, Fla.	95.3	WTSR	Trenton, N.J.		WVSC	FM Somerset, Pa.	
WSOU	S. Orange, N.J.		WTTA	FM Towanda, Pa.		WVSH	Huntington, Ind.	
WSOY	FM Deartur, Ill.		WTTF	FM Tiffin, Ohio		WVSL	FM Slidell, La.	105.3
WSPA	FM Spartanburg, S.C.		WTTN	FM Watertown, Wis.		WVSR	Rapid City, S.D.	
WSPB	FM Sarasota, Fla.		WTTU	FM Westminister, Md.	88.5	WVSS	Memomorie, Wis.	
WSPD	FM Toledo, Ohio		WTTU	FM Toledo, Ohio		WVST	FM St. Petersburg, Fla.	
WSPH	Baltimore, Md.	90.3	WTTV	FM Bloomington, Ind.		WVSS	FM Birmingham AL	91.1
WSPK	Poughkeepsie, N.Y.		WTUE	Dayton OH	104.7	WVTC	Randolph enter, Vt.	90.7
WSPQ	La Crosse, WI	95.9	WTVF	FM Thomasville OH	107.1	WVTL	Monticello, Ind.	
WSPD	Columbus, O.		WTVL	New Orleans LA	91.5	WVTS	Terre Haute, Ind.	
WSPS	Concord NH	90.3	WTVN	FM Warville, Me.	100.1	WVUB	Vineennes, Ind.	91.3
WSPY	FM Stevens Point, Wis.		WTVN	FM Columbus Oh	96.3	WVUD	FM Kettering, Ohio	
WSPF	FM Ft. Lauderdale, Fla.	107.1	WTVR	FM Richmond, Va.	96.3	WVUM	Coral Gables, Fla.	
WSRN	FM Swarthmore PA	91.5	WTVY	FM Dothan AL		WVUR	Vandalia, Ind.	
WSRS	Worcester, Mass.		WTVZ	Urbania, Ill.		WVUS	Putney VT	88.9
WSRW	FM Hillsboro, Ohio		WTVX	Guntersville AL	85.9	WVVS	Valdosta, GA	88.9
WSSW	Lowell, Mass.	99.5	WTYD	New London, Conn.		WVVV	Blacksburg, Va.	
WSSU	Superior, Wis.							

WHITE'S RADIO LOG

Location **C.L. Chan.**
Reno KTVN 2
 KCRL-TV 4
 KOLQ-TV 8

NEW HAMPSHIRE

Berlin 1WEDB-TV 40
Durham 1WENN 11
Hanover 1WHED-TV 15
Keene 1WEKW-TV 52
Lebanon WRLL 3
Littleton 1WLED-TV 49
Manchester WMUR-TV 8
 WXPO-TV 50

NEW JERSEY

Little Falls 1WNJM 50
Camden 1WNJS 23
Montclair WNJM 50
Newark WNJU 47
 WBTB-TV 88
New Brunswick WNB 58
New York-Newark 1WNJT 52
Trenton WNCN-TV 40
Wildwood

NEW MEXICO

Albuquerque KQB-TV 4
 1KNME-TV 5
 KOAT-TV 7
 KOGM-TV 13
Carlsbad KAVE-TV 8
Clovis KFDW-TV 12
Farmington KIVA-TV 12
Las Cruces 1KRWG-TV 22
Roswell KSWB-TV 8
 KBIM-TV 10

NEW YORK

Albany WTEN 10
Albany-Troy-
Schenectady WAST 13
 1WMHT 17
Binghamton WBNF-TV 12
 WBJA-TV 34
 WBBG-TV 12
 WINR-TV 40
Buffalo 1WSKG 46
 WGR-TV 7
 WBNF-TV 4
 WKBW-TV 7
 1WNEE-TV 17
 WUT 29
 WBBU-TV 48
Cathago-
Watertown WWNV-TV 7
Elmira WENY-TV 36
Elmira-
Corning WSYE-TV 18
Garden City 1WLW 21
New York WCBS-TV 2
 WNBC-TV 4
 WNEW-TV 5
 WABC-TV 7
 WOR-TV 9
 WPIX 11
 1WYNE-TV 25
New York-
Newark WNYC-TV 31
 WNET 13
 WNJU-TV 47
 WNJU-TV 47
New York-
Paterson WXTV 41
Norwood 1WNPI-TV 16
Plattsburgh WPTZ 5
Plattsburgh 1WNNE-TV 57
Rochester WROC-TV 8
 WHCC-TV 10
 WOKR 13
 1WXXI 21
Schenectady-
Albany-Troy WRGB 8
 1WMHT 17
Syracuse WSYR-TV 3
 WHEW-TV 5
 WNSY-TV 9
 1WCNY-TV 24
Utica WKTV 2
 WUTR 20
Watertown 1WNPE-TV 16

NORTH CAROLINA

Asheville 1WUNF-TV 33
 WANC-TV 21
Chapel Hill 1WUNC-TV 4

Location **C.L. Chan.**
Charlotte WBTV 3
 WSOC-TV 9
 WCCB-TV 18
 WRET-TV 36
 1WMTV 42
 1WUNG-TV 2
Columbia 1WRDU-TV 26
Concord WTVD 11
Durham WFMY-TV 2
 WNCN-TV 9
Durham-
Raleigh WUNK-TV 25
Greensboro WHKY-TV 14
Greenville WNCN-TV 9
Hickory WYFF-TV 11
High Point-
Greensboro &
Winston-
Salem WGHP-TV 8
 WXII 12
 WLNS-TV 19
Jacksonville 1WUNE-TV 17
Linville WCTI-TV 12
New Bern WJHF 22
Raleigh WRAL-TV 5
Durham WITN-TV 7
Washington WWAY 3
Wilmington WECT 6
 WUNJ-TV 39
 1WUNL-TV 28

NORTH DAKOTA

Bismarck KFYZ-TV 5
 KXMB-TV 12
 WDAZ-TV 8
 KDIX-TV 2
 WDAY-TV 6
 1KFME 13
Fargo-Grand
Forks KTHI-TV 11
 1KLH 2
 KMOT 10
Grand Forks KXMC-TV 13
Minot KCND-TV 12
Pembina KXJB-TV 8
Valley City KUMV-TV 8
(Fargo) KXMD-TV 11
Williston

OHIO

Akron WAKR-TV 23
 WCGT 55
Alliance 1WNEO-TV 45
Athens WUOB-TV 20
Cambridge 1WUUC-TV 44
Canton WJAN 17
Cincinnati WLWT 5
 WCPO-TV 9
 WKRC-TV 12
 1WCET 48
Cincinnati-
Newport, Ky. WXIX-TV 19
Cleveland WKYC-TV 3
 WEWS 5
 WJW-TV 8
 WCTF 19
 1WVIZ-TV 25
 WKBF-TV 61
 4 WLWC
Columbus WTVN-TV 6
 WBNB-TV 10
 1WOSU-TV 34
Dayton WLWD 2
 WHIO-TV 7
 WKEF 22
 1WOET-TV 18
 WLIO 35
 1WBGU-TV 57
 WUAB 43
 1WGSF 28
 1WMUB-TV 14
 1WPBO-TV 42
 WSTV-TV 9
 WTOL-TV 11
 WSPD-TV 13
 WDHO-TV 24
 1WGT-TV 30
 WFMJ-TV 21
 WKBN-TV 27
 WYTY 33
 WHIZ-TV 16

OKLAHOMA

Ada-Ardmore
Ardmore &
Sherman-
Denison KTEN 10
Lawton KXII 12
(Wichita
Falls)
Oklahoma City KSWO-TV 7
 WKY-TV 4
 KOCO-TV 5
 KWTV 9
 1KETA 13
 1KOKH-TV 25
 KFDO-TV 8
Savre (Elk
City)

Location **C.L. Chan.**
Tulsa KVOO-TV 2
 KOTV 6
 KTUL-TV 8
 1KOED-TV 11
Coos Bay KCBY-TV 11
Corvallis 1KOAC-TV 7
Eugene KEZI-TV 9
 KVTZ-TV 13
Klamath Falls KOTI 2
La Grande KTVR 13
Medford KOB 5
 KSYB 8
 KMED-TV 10
 KATV 2
Portland KOIN-TV 6
 KGW-TV 6
 1KOAP-TV 10
 KPVT 12
 KPXS 24
 KPVC 4
 KVDO-TV 3
Roseburg
Salem

OREGON

Greenburg
Harrisburg WHP-TV 21
 WTPA 27
 1WITF-TV 33
 WJAC-TV 6
 WJNL-TV 19
 WGLA-TV 8
 WLYH-TV 15
 KTVZ-TV 3
 WPPV-TV 10
 WCAU-TV 10
 WPHL-TV 17
 WTAFF-TV 29
 1WUHY-TV 35
 WKBS 48
 KDKA-TV 2
 WTAE-TV 4
 WPGH-TV 53
 KHSD-TV 11
 WIBC-TV 11
 1WQED 13
 1WQEX 16
 WPGH-TV 53
 WNEP-TV 18
 WDAU-TV 22
 1WVIA-TV 44
 WTVI-TV 28
 WBRE-TV 28
 WBSA-TV 43

PENNSYLVANIA

Allentown-
Bethlehem 1WLVT-TV 39
Altoona WTAJ-TV 10
 WOPC 38
Clearfield 1WPSS-TV 3
Erie WCU-TV 24
 WJET-TV 24
 WSEE 35
 1WQLN 54
 WQHO 40
 WHP-TV 21
 WTPA 27
 1WITF-TV 33
 WJAC-TV 6
 WJNL-TV 19
 WGLA-TV 8
 WLYH-TV 15
 KTVZ-TV 3
 WPPV-TV 10
 WCAU-TV 10
 WPHL-TV 17
 WTAFF-TV 29
 1WUHY-TV 35
 WKBS 48
 KDKA-TV 2
 WTAE-TV 4
 WPGH-TV 53
 KHSD-TV 11
 WIBC-TV 11
 1WQED 13
 1WQEX 16
 WPGH-TV 53
 WNEP-TV 18
 WDAU-TV 22
 1WVIA-TV 44
 WTVI-TV 28
 WBRE-TV 28
 WBSA-TV 43

RHODE ISLAND

Providence WJAR-TV 10
 WPRI-TV 12
 1WSBE-TV 38
 WTEV 8

SOUTH CAROLINA

Allendale
Anderson
Charleston 1WEBA-TV 14
 WAIM-TV 40
 WCBF-TV 2
 WCIV 4
 WCSC-TV 5
 1WITV 7
Columbia WIS-TV 10
 WNOK-TV 19
 WOLO-TV 25
 1WRLK-TV 35
Florence WBT 13
 1WJPM-TV 33
Greenville 1WNT 28
 WGSB-TV 18
 WFBC-TV 4
 WSP-TV 7
 WLOS-TV 13

SOUTH DAKOTA

Aberdeen KC00-TV 9
 1KDSB-TV 18
 1KESD-TV 8
Bookings
Deadwood-
Lead KDSJ-TV 5
Eagle Butte 1KPSD-TV 13
 KWTV 9
 1KETA 13
 1KOKH-TV 25
 KFDO-TV 8
Florence-
Waterstown
Mitchell-Sioux Falls
KORN-TV 5

Location **C.L. Chan.**
Rapid City KOTA-TV 3
 KRSD-TV 7
 1KBHE-TV 9
 KPLO-TV 8
 KQTV-TV 11
 KSDO-TV 13
 1KUSD-TV 2

TENNESSEE

Bristol WCYB-TV 5
Chattanooga WRCB-TV 3
 WTVB 8
 WDEF-TV 12
 1WTCI 45
 WRIP-TV 61
 WBBJ-TV 7
Jackson
Johnson City-
Bristol WJHL-TV 11
 WKPT-TV 19
Kingsport WATE-TV 8
Knoxville WRBR-TV 10
 WTVK 26
 1WLTV 11
 WREC-TV 3
 WMC-TV 10
 1WNO-TV 10
 WHBQ-TV 13
 1WDCN-TV 2
 WSM-TV 4
 WLAC-TV 5
 WNCV 17
 1WSJK-TV 2

TEXAS

Abilene KRBC-TV 9
Amarillo KGNC-TV 4
 KVII-TV 7
 KFDA-TV 10
 KTCB-TV 7
 KTVY 36
 KVue 24
Austin KFDN-TV 6
 KBMT 12
 1KNCT 46
 KWAB-TV 4
 KBTX-TV 3
 1KAMU-TV 15
 KIII 3
 1KEDT 16
 KRIS-TV 6
 KZTV 10
 1KERA-TV 13
 KXTX-TV 33
 KDFW-TV 4
 WFAA-TV 8
 1KMET-TV 33
 WOTV 39
 KDBC-TV 4
 KFTS-TV 9
 KERP-TV 13
El Paso XEPM-TV 2
 XEIT-TV 5
El Paso-
Juarez WBAP-TV 5
 KTVT 11
 KGBT-TV 4
 KPRC-TV 2
 1KUHT 8
 KHOU-TV 11
 KTRF-TV 13
 KVRL 28
 KHTV 39
 KGNB-TV 8
 KVTV 13
Laredo (Nuevo
Laredo) XEFE-TV 2
Lubbock 1KTX-TV 5
 KCBD-TV 11
 KLBK-TV 13
 KSEL-TV 28
 KTRF-TV 9
Lufkin
Midland &
Odessa KMID-TV 2
 KMOM-TV 8
 KOSA-TV 7
Odessa Port Arthur-
 Beaumont KJAC-TV 4
 San Angelo KACB-TV 3
 KCTV 8
 WDAI-TV 4
 KENS-TV 5
 KSAT-TV 12
 KWEX-TV 41
San Antonio 1KLRN-TV 9
San Antonio-
Austin
Sweetwater-
Abilene KTXS-TV 12
Temple KCEN-TV 6
Tyler-
Longview KLTV 7
Victoria KXIX 19
 KAYU 3
Waco KWTX-TV 10
Weslaco KRGV-TV 5
Wichita Falls KFDX-TV 3
 KAU-TV 6
 1KIDZ-TV 24

Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.
UTAH			Richmond-Petersburg	WXEX-TV	8	Clarksburg	WBOY-TV	12	WYOMING		
Ogden		↑KOET 9	Roanoke	WDBJ-TV	7	Granville	↑WSWP-TV	9	Casper		KTWO-TV 2
Provo		↑KBVU-TV 11		WBSL-TV	10	Huntington	↑WMUL-TV	33	Cheyenne		KYCU-TV 5
Salt Lake City		KUTV 2	Staunton	↑WBRA-TV 15	27	Charleston	WSAZ-TV 3		Lander		
		KCPX-TV 4		WRFT-TV 27	51	Morgantown	WHTN-TV 13		Riverton		
		KBL-TV 5		↑WVPT 51		Oak Hill	↑WVVU 24		Thermopolis		
		↑KUED 7				Beekley	WOAY-TV 4		World		KWRB-TV 10
VERMONT			WASHINGTON			WISCONSIN			U.S. POSSESSIONS		
Burlington		WCAX-TV 3	Bellingham	KVOS-TV 12		Colfax	↑HWG-TV 28		GUAM		
		↑WETK 33	Kennewick	KVEU 42		Eau Claire	WEAU-TV 13		Agana		KUAM-TV 8
Burlington		WVNY 22	Pasco			Green Bay	WBBY-TV 7				↑KGTG 10
Rutland		↑WVER 28	Kennewick-Richland	KEPR-TV 19			WFRY-TV 5		PUERTO RICO		
St. Johnsbury		↑WVTB 20		↑KWEK 42			WLUK-TV 11		Aguadilla-Mayaguez		WOLE-TV 12
Windsor		↑WVTA 41	Pullman	↑KWSU-TV 10			↑WPNE 38				WVEO 44
VIRGINIA			Seattle	KNDU 25			WKBT 8		Caguas-San Juan		↑WKBM-TV 11
Bristol-Kingsport & Johnson City		WCVB-TV 5		KOMO-TV 4			WKBW 8		Mayaguez		↑WIPM-TV 3
Charlottesville		WVIR-TV 29	Spokane	KIRO-TV 7		LaCrosse	WKOW-TV 19				WORA-TV 5
Goldva		↑WVNT 53		↑KCTS-TV 9			↑WHLA-TV 31				WVMT 16
Hampton-Norfolk		WVEC-TV 13	Tacoma	KREM-TV 9		Madison	WISC-TV 3				↑WRK-TV 7
		↑WHRO-TV 15		KHQ-TV 6			WMTV 15		Ponce		WUR-TV 9
Harrisonburg		WWSA-TV 3		↑KSPS-TV 7			WMTV 15		San Juan		WKAQ-TV 2
Lynchburg-Roanoke		WLVATV 13	Tacoma-Seattle	KTVW 13			↑WHA-TV 21				WAPA-TV 4
Norfolk		WVAR-TV 3	Yakima	↑KPEC-TV 56		Milwaukee	WKOW-TV 27				↑WPR-TV 6
		↑WSUN-TV 47		↑KTPB 62			WTMJ-TV 4				WVTV 12
Norton		WYAH-TV 27		KTNT-TV 11			WTVI-TV 6				↑WISN-TV 12
Portsmouth				KNDZ 23			↑WVMS 10				WVTV 18
Portsmouth-Norfolk-New-Port News		WAVY-TV 10		KIMA-TV 29			WVTV 18				↑WVMT 32
Richmond		WTVR-TV 6		KAPP 35		Rhineland (Wausau)	WCGV-TV 4		VIRGIN ISLANDS		
		WVBT 12		↑KYVE-TV 47		Wausau	WAOE-TV 12		Charlotte		WBNS-TV 10
		↑WCVF-TV 23					WVAU-TV 7		Charlotte-Amalie		↑WJTX-TV 12
		↑WCVW 57					WAOV-TV 9		Christiansted		WSVI 8

Canadian AM Stations by Frequency

Canadian stations listed alphabetically by call letters within groups. Abbreviations: kHz, frequency in kilocycles; W.P., power in watts; d, operates daytime only; n, operates nighttime only. Wave length is given in meters. Listing indicates stations on the air up to October 1, 1973.

kHz	Wave Length	W.P.	kHz	Wave Length	W.P.	kHz	Wave Length	W.P.	kHz	Wave Length	W.P.
540-555.5			CFNL Fort Nelson, B.C.	250		680-440.9			CHAB Moose Jaw, Sask.	10,000	
CBK Regina, Sask.	50,000		CFPK Terrace, B.C.	1,000		CHFA Edmonton, Alta.	5,000		CHRC Quebec, Que.	50,000	
CBFE Windsor, Ont.	50,000		CFRT Toronto, Ont.	10,000		CFTR Toronto, Ont.	10,000		CJAD Montreal, Que.	50,000	
CBT Grand Falls, Nfld.	10,000		VOCM St. John's Nfld.	10,000			25,000n			10,000n	
550-545.1			600-499.7			CJCN Grand Falls, Nfld.	10,000		CJBB Belleville, Ont.	10,000	
CFNB Fredericton, N.B.	50,000		CBNA St. Anthony, Nfld.	10,000		CJOB Winnipeg, Man.	10,000		CJJC Langley, B.C.	10,000	
CHLN Trois-Rivieres, Que.	10,000d		CFCF Montreal, Que.	5,000		CJCB Timmins, Ont.	10,000		CJLX Fort William, Ont.	10,000d	
CHNO Sudbury, Ont.	10,000		CFCH North Bay, Ontario	10,000d			10,000			5,000	
	5,000n		CFCT Tuktoyaktuk, N.W.T.	1,000		690-439.5			CKOK Penticton, B.C.	500n	
CKPG Prince George, B.C.	10,000		CFCK Saskatoon, Sask.	5,000		CBF Montreal, Que.	50,000		CKLW Windsor, Ont.	50,000	
	5,000n		CJOR Vancouver, B.C.	10,000		CBU Vancouver, B.C.	50,000		VOWR St. John's, Nfld.	1,000	
	1,000n		CKCL Truro, N.S.	1,000		710-422.3			810-370.2		
560-525.4			610-491.7			CHYR Leamington, Ont.	10,000d		CHQR Calgary, Alta.	10,000	
CFOS Owen Sound, Ont.	1,000		CHNC New Carlisle, Que.	10,000d		CFRG Gravelbourg, Sask.	5,000d		850-352.7		
CFHM Marystown, Nfld.	1,000d			5,000n		CKVM Ville-Marie, Que.	10,000d		CKRD Red Deer, Alta.	10,000	
	500n		CHTM Thompson, Man.	1,000			1,000n		CKVL Verdun, Que.	50,000d	
CHTK Prime Rupert, B.C.	1,000d		CJAT Trail, B.C.	1,000		CJOX Grand Bank, Nfld.	1,000			10,000n	
	250n		CKNL Mont Laurier, Que.	1,000		CJRN Niagara Falls, Ont.	5,000d				
CJKL Kirkland Lake, Ont.	5,000		CHNL Kamloops, B.C.	10,000			2,500n		860-348.6		
CKCN Sept-Isles, Que.	10,000d		CKRW Whitehorse, Y.T.	1,000		730-410.7			CBH Halifax, N.S.	10,000	
	5,000n		CKYL Peace River, Alta.	10,000d		CHIR Leamington, Ont.	250d		CFPR Prince-Rupert, B.C.	10,000	
CKNL Fort St. John, B.C.	1,000		CKTB St. Catharines, Ont.	10,000d		CJNR Blind River, Ont.	1,000		CHAK Inuvik, N.W.T.	1,000	
	1,000n			5,000n		CKAG Montreal, Que.	50,000d		CJBC Toronto, Ont.	50,000	
570-526.0			620-483.6			CKDM Dauphin, Man.	10,000d		900-333.1		
CFBC Corner Brook Nfld.	1,000		CFCL Timmins, Ont.	10,000d		CKGA Gander, Nfld.	5,000n		CFBR Sudbury, Ont.	10,000d	
CFWH White Horse, Y.T.	1,000			5,000n		CKLG North Vancouver, B.C.	1,000d			1,000n	
CJEM Edmonton, N.B.	5,000d		CJCI Prince George, B.C.	5,000		740-405.2			CHML Hamilton, Ont.	5,000	
	1,000n		CKCK Regina, Sask.	10,000		CBL Toronto, Ont.	50,000			1,000n	
CKCQ Queneau B.C.	1,000		CKCM Grand Falls, Nfld.	10,000		CBMN Marystown, Nfld.	10,000		CJBR Rimouski, Que.	10,000	
CKEK Cranbrook B.C.	1,000		630-475.9			CBX Edmonton, Alta.	50,000		CJVI Victoria, B.C.	10,000	
CFWH Whitehorse, Y.T.	1,000		CFCC Chatham, Ont.	10,000d		790-379.5			CKBI Prince Albert, Sask.	10,000	
	1,000n			1,000n		CFDR Dartmouth, N.S.	5,000		CKDR Dryden, Ont.	1,000d	
580-516.9			CFCC Chatham, Ont.	10,000d		CFCW Camrose, Alta.	10,000			250n	
CFRA Ottawa, Ont.	50,000d		CFCC Chatham, Ont.	1,000n		CKSO Sudbury, Ont.	10,000d		CKDH Amherst, N.S.	1,000	
	10,000n		CFCC Chatham, Ont.	1,000n			5,000n		CKLJ St. Jerome, Que.	1,000	
CHLC Hasterive, Que.	2,500d		CFCC Chatham, Ont.	1,000n		CHIC Brampton, Ont.	1,000d		CKTS Sherbrooke, Que.	10,000	
	2,500n		CFCC Chatham, Ont.	1,000n			500n		CKVD Val D'Or, Que.	10,000d	
CJFX Antigonish, N.S.	10,000		CFCC Chatham, Ont.	1,000n		CFNW Port Aux-laix, Nfld.	1,000			2,500n	
CKAP Kapuskasing, Ont.	1,000		CFCC Chatham, Ont.	1,000n		CFUN New Castle, N.B.	1,000		910-329.5		
CKPR Port Arthur, Ont.	5,000d		CFCC Chatham, Ont.	1,000n			1,000		CBQ Ottawa, Ont.	5,000	
	1,000n		CFCC Chatham, Ont.	1,000n			1,000		CFCR Kamloops, B.C.	10,000d	
CKUA Edmonton, Alta.	10,000		CFCC Chatham, Ont.	1,000n			1,000			1,000n	
CKWV Windsor, Ont.	5,000		CFCC Chatham, Ont.	1,000n			1,000		CFSS Stephenville, Nfld.	5,000	
CKXR Salmon Arm, B.C.	10,000		CFCC Chatham, Ont.	1,000n			1,000		CHRL Roberval, Que.	1,000	
	1,000n		CFCC Chatham, Ont.	1,000n			1,000		CJDV Drumheller, Alta.	5,000	
CKY Winnipeg, Man.	50,000		CFCC Chatham, Ont.	1,000n			1,000		CKLY Lindsay, Ont.	1,000	
590-508.2			640-468.5			800-374.8					
CFAR Flin Flon, Man.	10,000d		CBN St. John's Nfld.	10,000		CFB Fort Frances, Ont.	1,000d				
	1,000n						500n				

WHITE'S RADIO LOG

kHz	Wave Length	W.P.
920—326.9		
CFRY Portage La Prairie, Man.	1,000	
CJCH Halifax, N.S.	10,000d 5,000n	
CJCI Woodstock, N.B.	1,000	
CKCY Sault Ste. Marie, Ont.	10,000d 5,000n	
CKNX Wingham, Ont.	10,000d 5,000n	
CKWL Williams Lake, B.C.	1,000	
930—322.4		
CFBC Saint John, N.B.	10,000d 5,000n	
CJCA Edmonton, Alberta.	10,000d 5,000n	
CJON St. John's, Nfld.	10,000	
940—319.0		
CBM Montreal, Que.	50,000	
CJGX Yorkton, Sask.	10,000	
CJIB Vernon, B.C.	10,000d	
950—315.6		
CFAM Altona, Man.	10,000	
CKBB Barrie, Ont.	10,000d 2,500n	
CKNB Campbellton, N.B.	10,000d 1,000n	
CHER Sydney, N.S.	10,000	
960—312.3		
CFAC Calgary, Alta.	50,000	
CHNS Halifax, N.S.	10,000	
CKWS Kingston, Ont.	10,000d 5,000n	
970—309.1		
CKCH Hull, Que.	5,000	
CBZ Fredericton, N.B.	10,000	
CJYR Edson, Alta.	10,000	
980—305.9		
CBV Quebec, Que.	5,000	
CFPL London, Ontario	10,000d 5,000n	
CHEX Peterborough, Ont.	10,000d 5,000n	
CKGM Montreal, Que.	10,000	
CKNW New Westminster, B.C.	50,000	
CKRM Regina, Sask.	10,000d 5,000n	
990—302.8		
CBW Winnipeg, Man.	50,000	
CBY Corner Brook, Nfld.	10,000	
1000—299.8		
CKBW Bridgewater, N.S.	10,000	
1010—296.9		
CBR Calgary, Alta.	50,000	
CFRB Toronto, Ont.	50,000	
1050—285.5		
CFGP Grande Prairie, Alta.	10,000	
CHUM Toronto, Ont.	50,000	
CJIC Sault Ste. Marie, Ont.	10,000d 2,500n	
CJNB North Battleford, Sask.	10,000	
CKSB St. Boniface, Man.	10,000	
1060—282.8		
CFCN Calgary, Alta.	50,000	
CJPR Quebec, Que.	50,000d 10,000n	
1070—280.2		
CBA Moncton, N.B.	50,000	
CFAX Victoria, B.C.	10,000	
CHOK Sarnia, Ont.	10,000	
1080—277.6		
CKSA Lloydminster, Alta.	10,000	
1090—275.1		
CHCC Lethbridge, Alta.	5,000	
CHRS St. John, Que.	10,000d	

kHz	Wave Length	W.P.
1110—272.6		
CBM Saint John, N.B.	10,000	
CFML Cornwall, Ont.	1,000d 250d	
CFYJ Galt, Ont.	10,000	
CHQT Edmonton, Alta.	10,000	
1130—265.3		
CKWX Vancouver, B.C.	50,000	
1140—263.0		
CJTR Trois-Rivieres, Que.	10,000	
CBI Sydney, N.S.	10,000	
CKXL Calgary, Alta.	10,000	
1150—260.7		
CHSJ Saint John, N.B.	10,000d 5,000n	
CJRC Ottawa, Ont.	10,000d 5,000n	
CKOC Hamilton, Ont.	10,000	
CKX Brandon, Man.	10,000d 10,000	
CKIQ Kelowna, B.C.	1,000	
1170—256.3		
CFNS Saskatoon, Sask.	1,000	
1190—252.0		
CFSL Weyburn, Sask.	10,000d 5,000n	
1210—247.8		
CFFB Frobisher Bay, N.W.T.	250	
1220—245.8		
CHSC St. Catharines, Ont.	1,000d 500n	
CJOC Lethbridge, Alta.	10,000d 5,000n	
CJSS Cornwall, Ontario	1,000	
CJRL Kenora, Ont.	1,000	
CKDA Victoria, B.C.	50,000	
CKW Moncton, N.B.	10,000	
CKSM Shawinigan, Que.	10,000d 2,500n	
1230—243.8		
CFBV Smithers, B.C.	1,000d 250n	
CFGN Port aux Basques, Nfld.	250d	
CFGR Guelphbourg, Sask.	250n	
CFLK Kapuskasing, Ont.	100	
CFPA Thunder Bay, Ont.	1,000d 250n	
CHFC Churchill, Man.	250	
CHVD Oshawa, Que.	1,000d 250n	
CJNL Merritt, B.C.	1,000d 250n	
CJSA Ste. Agathe des Monts, Que.	1,000d	
CJTT New Liskeard, Ont.	1,000d 250n	
CKLD Thetford Mines, Que.	1,000d 250n	
CKMP Midland, Ont.	1,000d 250n	
CKQR Castlegar, B.C.	1,000d 250n	
CKTK Kitimat, B.C.	1,000d 250n	
VOAR St. John's, Nfld.	100	
1240—241.8		
CFEK Fernie, B.C.	1,000d 250n	
CFLM La Tuque, Que.	1,000d 250n	
CFLS Levis, Que.	250	
CFVR Abbotsford, B.C.	1,000d 250n	
CJAF Cabano, Que.	1,000d	
CJAV Port Alberni, B.C.	250n	
CJCS Stratford, Ont.	500d 250n	
CJMO Chibougamau, Que.	1,000d 250n	
CJRW Summerside, P.E.I.	250	
CJWA Wawa, Ont.	1,000d 250n	
CKBS St. Hyacinthe, Que.	1,000d 250n	
CKLS La Sarre, Que.	1,000d 250n	
CKOO Osoyoos, B.C.	1,000d	
CKBX 100 Mile House	250	
1250—239.9		
CBOF Ottawa, Ont.	10,000	
CHWO Oakville, Ont.	10,000d 5,000n	
CHSW Steinbach, Man.	10,000	
CKBL Matane, Que.	10,000d 5,000n	
CKJD Sarnia, Ont.	1,000	
CKOM Saskatoon, Sask.	10,000	

kHz	Wave Length	W.P.
1260—238.0		
CFRN Edmonton, Alta.	50,000	
1270—263.1		
CFGT Alma, Que.	1,000	
CHAT Medicine Hat, Alberta	10,000	
CHWK Chilliwack, B.C.	10,000	
CJCB Sydney, N.S.	10,000	
1280—234.2		
CHAM Hamilton, Ont.	10,000	
CHQB Powell River, B.C.	1,000	
CJMS Montreal, Que.	50,000	
CJSL Estevan, Sask.	1,000	
CKCV Quebec, Que.	10,000d 5,000n	
1290—232.4		
CJBK London, Ont.	10,000	
1300—230.6		
CBFA Moncton, N.B.	5,000	
CJME Regina, Sask.	1,000	
1310—228.9		
CFGM Richmond Hill, Ont.	50,000	
CHGB La Poetiere, Que.	10,000d 5,000n	
CKOY Ottawa, Ont.	50,000	
1320—227.1		
CHQM Vancouver, B.C.	50,000	
CJSD Sorel, Que.	10,000d 5,000n	
CKEK New Glasgow, N.S.	5,000	
CKKW Kitchener, Ont.	1,000	
1330—225.4		
CKKR Rosetown, Sask.	10,000	
1340—223.7		
CFBG Happy Valley, Nfld.	1,000	
CKGF Grand Forks, B.C.	1,000d 250n	
CKGN Ste. Anne-des-Monts, Que.	1,000d 250n	
CFKC Creston, B.C.	250	
CFHL Hearst, Ont.	100	
CFLW Wabush, Labrador, Nfld.	150	
CFYK Yellowknife, N.W.T.	1,000	
CHAD Ames, Que.	1,000d 250n	
CJLS Yarmouth, N.S.	5,000d 1,000n	
CFOM Ville Vanier, Que.	1,000d 250n	
CHAD Anids, Que.	1,000d 250n	
CKAR-1 Parry Sound, Ont.	250	
CKCR Revelstoke, B.C.	1,000d 250n	
CKNR Elliott Lake, Ont.	250	
CKOX Woodstock, Ont.	1,000d 250n	
CKVT Temiscamingue, Que.	250	
1350—222.1		
CHOV Pembroke, Ont.	1,000	
CJDC Dawson Creek, B.C.	1,000d	
CJLM Joliette, Que.	10,000d 1,000n	
CKAD Middleton, N.S.	1,000	
CKLB Oshawa, Ont.	10,000d 5,000n	
1360—220.4		
CKBC Bathurst, N.B.	10,000	
1370—218.8		
CFLV Valleyfield, Que.	10,000d 5,000n	
1380—217.3		
CFDA Victoriaville, Que.	1,000	
CKLC Kingston, Ont.	10,000d 5,000n	
CKPC Brantford, Ont.	10,000	
1390—215.7		
CHOO Ajax, Ont.	10,000	
CKKC Nelson, B.C.	1,000	
1400—214.2		
CFLD Burns Lake, B.C.	250	
CJFP Riviere du Loup, Que.	10,000d 250n	
CKCB Collingwood, Ont.	250	
CKFL Lac Megantic, Que.	1,000d 250n	
CKRN Rouyn, Que.	1,000d 250n	
CKSW Swift Current, Sask.	1,000d 250n	

kHz	Wave Length	W.P.
1410—212.6		
CFMB Montreal, Que.	10,000	
CKSL London, Ont.	10,000	
CKVN Vancouver, B.C.	50,000	
1420—211.1		
CJMT Chiesoutimi, Que.	1,000	
CJVR Meafort, Sask.	10,000	
CKDY Dinsby, N.S.	1,000	
CKPT Peterborough, Ont.	5,000	
1430—209.7		
CKFH Toronto, Ont.	50,000	
1440—208.2		
CFPC Courtenay, B.C.	1,000	
CFBO Ottawa, Ont.	10,000	
CJDI Cataskwin, Alta.	1,000	
1450—206.8		
CBG Gander, Nfld.	250	
CHBF Grandby, Que.	10,000	
CHRT St. Eleuthere, Que.	250	
CFAB Windsor, N.S.	250	
CFJR Brockville, Ont.	1,000d 250n	
CHUC Cobourg, Ont.	1,000	
CHAP Long Lac, Ont.	40	
CHAS Arrowland, Ont.	40	
CJBM Causapscal, Que.	1,000d 250n	
CKSP Summerland, B.C.	1,000d 250n	
CKYR Jasper, Alta.	100	
CHWL Lake Helen, Ont.	40	
CHIP MacDermid, Ont.	40	
CHOP Gold Bay, Ont.	40	
CHCX Pays Plat, Ont.	40	
1460—205.4		
CJOY Guelph, Ont.	10,000d 5,000n	
CKRB Ville St. Georges, Que.	10,000d 5,000n	
1470—204.0		
CFOX Pointe Claire, Que.	10,000d 5,000n	
CFRW Winnipeg, Man.	5,000	
CHOW Welland, Ont.	1,000d 500n	
CJVB Vancouver, B.C.	10,000	
1480—202.6		
CHRD Drummondville, Que.	10,000	
1490—201.2		
CFMR Fort Simpson, N.W.T.	25	
CFRC Kingston, Ont.	100	
CHYM Kitchener, Ont.	10,000d 5,000n	
CJSN Shaunavon, Sask.	1,000d 250n	
CKBM Montmagny, Que.	1,000d 250n	
CKEN Kentville, N.S.	1,000d 500n	
CFWB Campbell River, B.C.	250n	
CKGO Hope, B.C.	250	
1500—199.9		
CKAY Duncan, B.C.	1,000	
1510—199.1		
CJRS Sherbrooke, Que.	10,000	
CKOT Tillsonburg, Ont.	10,000d	
1540—195.0		
CHIN Toronto, Ont.	50,000d	
1550—193.5		
CBE Windsor, Ont.	10,000	
1560—192.3		
CFRS Simcoe, Ont.	250d	
1570—191.1		
CFOR Orillia, Ont.	10,000d 1,000n	
CHLO St. Thomas, Ont.	10,000	
CHUB Nanaimo, B.C.	10,000	
CKLM Montreal, Que.	50,000	
1580—189.2		
CBJ Chiesoutimi, Que.	10,000	

WHITES RADIO LOG

Call	Location	kHz	Call	Location	kHz	Call	Location	kHz
CHCM	Marystown, Nfld., with another studio at St. John's, Nfld.	560	CJIB	Vernon, B.C.	940	CKGA	Grand Falls, Nfld.	730
CHEC	Lethbridge, Alta.	630	CJIC	Sault Ste. Marie, Ont.	1050	CKGB	Timmins, Ont.	680
CHEE	Edmonton, Alta.	630	CJJC	Langley, B.C.	800	CKGF	Grank Forks, B.C.	1390
CHEF	Grandy, Que.	1450	CJKL	Kirkland Lake, Ont.	560	CKGM	Westmount, Que.	980
CHEG	Lake Helen, Ont.	1450	CJLM	Joliette, Que.	1350	CKGN	Matane, Que.	1340
CHEH	Peterborough, Ont.	980	CJLS	Yarmouth, N.S.	1340	CKGO	Hope, B.C.	1480
CHEI	Edmonton, Alta.	680	CJLT	Thunder Bay, Ont.	800	CKGP	Kelowna, B.C.	1150
CHFC	Churchill, Man.	1230	CJME	Regina, Sask.	1200	CKJL	Sarnia, Ont.	1250
CHGB	La Pocatière, Que.	1310	CJMS	Montreal, Que.	1280	CKJJ	Saint-Jerome, Que.	900
CHIC	Brampton, Ont.	790	CJMT	Chicoutimi, Que.	1420	CKKK	Nelson, B.C.	1390
CHIN	Toronto, Ont.	1540	CJNB	North Battleford, Sask.	1050	CKKR	Rosewell, Sask.	1330
CHIP	Maple Diarmid, Ont.	1450	CJNL	Merritt, B.C.	1320	CKKW	Kitchener, Ont.	1320
CHIR	Leamington, Ont.	730	CJNR	Blind River, Ont.	730	CKLB	Oshawa, Ont.	1340
CHLS	Salisbury, Ont.	580	CJOC	Winnipeg 10, Man.	680	CKC	Kingston, Ont.	1380
CHLN	Trois-Rivières, Que.	580	CJOD	Lethbridge, Alta.	1270	CKLD	Theftord Mines, Que.	1230
CHLO	St. Thomas, Ont.	680	CJOI	Wetaskiwin, Alta.	1440	CKLG	Vancouver, B.C.	730
CHLT	Sherbrooke, Que.	630	CJON	St. John's, Nfld.	930	CKLM	Montreal, Que.	1570
CHML	Hamilton, Ont.	900	CJOR	Vancouver, B.C.	600	CKLS	La Salle, Que.	1240
CHM	New Carlisle, Que.	610	CJOS	Grand Forks, Nfld.	710	CKLW	Windsor, Ont.	800
CHNL	Kamloops, B.C.	910	CJOY	Gulph, Ont.	1460	CKML	Mont Laurier, Que.	910
CHNO	Sudbury, Ont.	900	CJOT	Ottawa, Ont.	1150	CKMP	Midland, Ont.	1230
CHNS	Halifax, N.S.	960	CJRL	Kenora, Ont.	1220	CKNB	Campbellton, N.B.	950
CHOK	Sarnia, Ont.	1070	CJRN	Niagara Falls, Ont.	710	CKNL	Fort St. John, B.C.	580
CHOD	Ajax, Ont.	1390	CJRP	Quebec, Que.	1080	CKNR	Elliott Lake, Ont.	1340
CHOT	Gull Bay, Ont.	1450	CJRS	Summerside, P.E.I.	1510	CKNW	New Westminster, B.C.	980
CHOV	Pembroke, Ont.	1350	CJSA	Ste. Agathe des Monts, Que.	1240	CKNX	Wingham, Ont.	920
CHOW	Welland, Ont.	1470	CJSE	Ste. Agathe des Monts, Que.	1230	CKOC	Hamilton, Ont.	1150
CHOX	Pays Plat, Ont.	1450	CJSL	Estevan, Sask.	1250	CKOK	Penticton, B.C.	800
CHQB	Powell River, B.C.	1280	CJSN	Straunavon, Sask.	1470	CKOM	Saskatoon, Sask.	1230
CHQM	Vancouver, B.C.	1320	CJSO	Sorel, Que.	1320	CKOO	Osoyoos, B.C.	1240
CHQR	Calgary, Alta.	810	CJSS	Cornwall, Ont.	1290	CKOT	Tillsonburg, Ont.	1340
CHQT	Edmonton, Alta.	1110	CJST	St. John's Viçeres, Que.	1240	CKOV	Kawartha, Ont.	630
CHRC	Quebec, 4. Que.	800	CJTK	Kirkland Lake, Ont.	1140	CKOX	Woodstock, Ont.	1340
CHRO	Drummondville, Que.	1480	CJTV	Vancouver, B.C.	1470	CKPY	Brantford, Ont.	1380
CHRL	Roberval, Que.	910	CJVI	Victoria, B.C.	900	CKPG	Prince George, B.C.	550
CHRS	Jacques-Cartier, Que.	1090	CJVW	Wawa, Ont.	1420	CKPR	Thunder Bay, Ont.	580
CHRT	Rivière du Loup, Que.	1450	CKAC	Montreal, Que.	1240	CKPT	Port Hope, Ont.	1230
CHSC	Ot. Catharines, Ont.	1220	CKAD	Middleton, N.S.	1350	CKR	Quebec, Que.	630
CHSJ	Saint John, N.B.	1150	CKAP	Kapuskasung, Ont.	580	CKRC	Winnipeg, Man.	1480
CHSM	Altona, Man.	1250	CKAR	Huntsville, Ont.	630	CKRD	Red Deer, Alta.	850
CHTK	Prince Rupert, B.C.	560	CKAR-1	Parry Sound, Ont.	1340	CKRM	Regina, Sask.	980
CHTM	Thompson, Man.	610	CKAY	Duncan, B.C.	1500	CKRN	Rouyn, Que.	1400
CHUB	Nanaimo, B.C.	1570	CKBB	Barrir, Ont.	850	CKRS	Jonquière, Que.	590
CHUC	Cobourg, Ont.	1450	CKBC	Bathurst, N.B.	980	CKSA	Lloydminster, Alta.	1080
CHUM	Toronto 7, Ont.	1020	CKBI	Prince Albert, Sask.	1300	CKSB	Saint-Boniface, Man.	1050
CHVD	Delbeau, Que.	1250	CKBL	Matane, Que.	1250	CKSL	London, Ont.	1410
CHWK	Chilliwack, B.C.	1270	CKBM	Montmagny, Que.	1480	CKSM	Shawinigan, Que.	1220
CHWO	Oakville, Ont.	1250	CKBS	St. Hyacinthe, Que.	1240	CKSO	Sudbury, Ont.	790
CHYM	Kitchener, Ont.	1490	CKBT	St. John's, Nfld.	1000	CKSP	Penticton, B.C.	1450
CHYR	Leamington, Ont.	710	CKBX	100 Mile House, B.C.	1240	CKSW	Swift Current, Sask.	1400
CHAD	Montreal, Que.	800	CKCB	Barrie, Ont.	1400	CKTB	St. Catharines, Ont.	610
CJAF	Cabano, Que.	1240	CKCH	Hull, Que.	970	CKTK	Kitimat, B.C.	1230
CJAT	Trail, B.C.	610	CKCK	Regina, Sask.	620	CKTS	Sherbrooke, Que.	900
CJAV	Port Alberni, B.C.	1240	CKCL	Fruin, N.S.	820	CKUD	Vat-d'Or, Que.	900
CJBK	London, Ont.	1290	CKCM	Grand Falls, Nfld.	560	CKVL	Verdun, Que.	850
CJBM	Causapual, Que. with studio at Rimouski, Que.	1450	CKCN	Sept-Iles, Que.	570	CKVM	Ville-Marie, Que.	710
CJBJ	Bellefleur, Ont.	800	CKCO	Queens, B.C.	560	CKVN	Vancouver, B.C.	1130
CJBR	Rimouski, Que.	900	CKCR	Salmon Arm, B.C.	1340	CKVT	Ville-Marie, Que.	1340
CJCA	Edmonton, Alta.	930	CKCV	Quebec, Que.	1280	CKW	Williams Lake, B.C.	920
CJCB	Sydney, N.S.	1270	CKCW	Wancton, N.B.	920	CKWS	Kingston, Ont.	960
CJCH	Halifax, N.S.	920	CKCY	St. John's, Nfld.	1220	CKWW	Windsor, Ont.	580
CJCI	Prince George, B.C.	820	CKDA	Victoria, B.C.	1220	CKWX	Vancouver, B.C.	1130
CJCL	Woodstock, N.B.	920	CKDH	Amherst, N.S.	900	CKX	Brandon, Man.	1140
CJCN	Grand Falls, Nfld.	680	CKDI	Dauphin, Man.	730	CKXL	Calgary, Alta.	880
CJCS	Stratford, Ont.	1240	CKDJ	Dryden, Ont.	960	CKY	Salmon Arm, B.C.	580
CJDC	Dawson Creek, B.C.	1350	CKDY	Digby, N.S.	1420	CKYL	Peace River, Alta.	610
CJDE	Edmonton, Alta.	910	CKEK	New Glasgow, N.S.	1320	CKYR	Jasper, Alta.	1450
CJEM	Edmondston, N.B.	570	CKEK	Cranbrook, B.C.	570	VOAR	St. John's, Nfld.	1230
CJET	Smiths Falls, Ont.	630	CKEN	Kentville, N.S.	1490	VOCM	St. John's, Nfld.	590
CJFP	Rivière-du-Loup, Que.	1400	CKEY	Toronto, Ont.	590	VOWR	St. John's, Nfld.	800
CJFX	Antigonish, N.S.	580	CKFL	Therford Mines, Que.	1340			
CJGX	Yorkton, Sask.	740						

Canadian FM Stations by Location

Location	Call	kHz	Location	Call	kHz	Location	Call	kHz
Bellefleur, Ont.	CJBJ-FM	97.1	Kitcheener, Ont.	CKWS-FM	96.3	Sudbury, Ont.	CKSO-FM	82.7
Brampton, Ont.	CHIC-FM	102.1	Kitcheener, Ont.	CFCA-FM	105.3	Sydney, N.S.	CJCB-FM	94.9
Brandon, Man.	CKX-FM	96.1	Kitcheener, Ont.	CHYM-FM	96.7	Tillsonburg, Ont.	CKOT-FM	100.5
Brantford, Ont.	CKPC-FM	92.1	La Pocatière, Que.	CHGB-FM	102.9	Timmins, Ont.	CKGB-FM	104.5
Calgary, Alta.	CHFM-FM	95.9	Laval, Que.	CFGL-FM	105.7	Toronto, Ont.	CKBL-FM	94.1
Charlottetown, P.E.I.	CBC-FM	103.1	Lethbridge, Alberta	CHEC-FM	100.9	Trail, B.C.	CHFI-FM	98.1
Clearwater, B.C.	CFM-FM-2	92.7	London, Ont.	CFPL-FM	95.9	Truro, N.S.	CKCL-FM	106.9
Clinton, B.C.	CFM-FM-4	106.5	Maniwaki, Que.	CFBL-FM	98.9	Vancouver, B.C.	CBU-FM	100.7
Cornwall, Ontario	CJSS-FM	104.3	Merritt, B.C.	CFM-FM-3	103.9		CJRT-FM	91.1
Drummondville, Que.	CFDM-FM	104.5	Mount Timothy, B.C.	CFM-FM-5	99.7		CKFM-FM	98.9
Edmonton, Alta.	CFRN-FM	100.3	Montreal, Que.	CFB-FM	100.7		CKLF-FM	105.7
	CJCA-FM	99.5		CFM-FM	95.1		CKLM-FM	100.9
	CKUA-FM	98.1		CFQR-FM	92.5		CKLN-FM	107.5
Guelph, Ont.	CJOY-FM	106.1		CHOM-FM	87.7		CKLO-FM	99.3
Halifax, N.S.	CHFX-FM	96.1		CJFM-FM	95.9		CKLW-FM	98.3
Hamilton, Ont.	CKDS-FM	95.3		CKMF-FM	94.3		CKLX-FM	98.5
Hull, Que.	CKCH-FM	94.9	New Westminster, B.C.	CFMI-FM	101.1		CKLY-FM	97.7
Kamloops, B.C.	CFM-FM	98.3	North Bay, Ont.	CKAT-FM	93.7		CKM-FM	98.3
Kelowna, B.C.	CJOV-FM	104.7	Oshawa, Ont.	CKGS-FM	94.9		CKN-FM	98.7
Kentville, N.S.	CKWM-FM	97.9	Ottawa, Ont.	CBO-FM	103.3		CKO-FM	92.1
Kingston, Ont.	CFRC-FM	91.7		CFMO-FM	95.9			
	CKLC-FM	98.3						

Canadian FM Stations By Call Letters

Call	Location	MHz	Call	Location	MHz	Call	Location	MHz
Canadian Broadcasting Corporation Stations			Rebroadcasting the programs of Station CFFM-FM, Kamloops, B.C.			CHFX-FM	Halifax, N.S.	96.1
CBC-FM	Charlottetown, P.E.I.	103.1	CFFM-FM-4	Clinton, B.C.	103.9	CHGB-FM	La Pocatière, Que.	102.9
CBF-FM	Montreal, Que.	100.7	Rebroadcasting the programs of Station CFFM-FM, Kamloops, B.C.			CHIC-FM	Brampton, Ont.	102.9
CBFL-FM	Maniwaki, Que.	98.9	CFFM-FM-5	Mount Timothy, B.C.	106.5	CHIN-FM	Toronto, Ont.	100.7
CBNM-FM	Richibucto, N.B.	98.5	Rebroadcasting the programs of Station CFFM-FM, Kamloops, B.C.			CHLT-FM	Sherbrooke, Que.	102.7
CBL-FM	Toronto, Ont.	94.1	CFFM-FM-6	Clinton, B.C.	99.7	CHOM-FM	Westmont, Que.	97.7
CBM-FM	Montreal, Que.	95.1	Rebroadcasting the programs of Station CFFM-FM, Kamloops, B.C.			CHQM-FM	Vanouwer, B.C.	103.5
CBO-FM	Ottawa, Ont.	103.3	CFGL-FM	Laval, Que.	105.7	CHRC-FM	Quebec, Que.	98.1
CBU-FM	Vanouwer, B.C.	105.7	CFMC-FM	Saskatoon, Sask.	103.9	CHSC-FM	St. Catharines, Ont.	105.7
CBUF-FM	Vanouwer, B.C.	97.7	CFMI-FM	New Westminster, B.C.	101.1	CHUM-FM	Toronto, Ont.	104.5
CBW-FM	Winnipeg, Man.	98.3	CFMO-FM	Ottawa, Ont.	93.9	CHYM-FM	Kitchener, Ont.	96.7
CFBC-FM	Saint John, N.B.	98.9	CFMQ-FM	Regina, Sask.	92.1	CJAT-FM	Trail, B.C.	106.7
CFCA-FM	Kitchener, Ont.	105.3	CFMS-FM	Victoria, B.C.	98.5	CJBQ-FM	Bellefleur, Ont.	97.1
CFDM-FM	Drummondville, Que.	104.3	CFPL-FM	London, Ont.	95.9	CJBR-FM	Rimouski, Que.	101.5
CFFM-FM	Kamloops, B.C.	98.3	CFQR-FM	Montreal 15, Que.	92.5	CJCA-FM	Edmonton, Alta.	98.5
CFFM-FM-1	Savona, B.C.	101.9	CFRI-FM	Kingston, Ont.	91.9	CJCB-FM	Sydney, N.S.	94.9
Rebroadcasting the programs of Station CFFM-FM, Kamloops, B.C.			CFRN-FM	Edmonton, Alta.	100.3	CJCF-FM	Smiths Falls, Ont.	101.1
CFFM-FM-2	Clearwater, B.C.	101.9	CFRW-FM	Winnipeg 2, Man.	94.3	CJCF-FM	Montreal, Que.	95.9
Rebroadcasting the programs of Station CFFM-FM, Kamloops, B.C.			CHEC-FM	Lethbridge, Alta.	100.9	CJIC-FM	Sault Ste. Marie, Ont.	100.5
CFFM-FM-3	Merritt, B.C.	92.7	CHEX-FM	Peterborough, Ont.	95.9	CJJB-FM	Winnipeg, Man.	97.5
			CHFI-FM	Toronto, Ont.	101.5	CJDM-FM	Windsor, Ont.	98.5
			CHFM-FM	Calgary, Alta.	95.9	CJOY-FM	Kelowna, B.C.	104.7
						CJOY-FM	Guelph, Ont.	106.1
						CJRT-FM	Toronto, Ont.	91.1
						CJSS-FM	Cornwall, Ont.	104.5
								97.7
								98.1
								98.3
								96.1
								92.1

Canadian Television Stations by Cities

Location	C.L.	Ch.	Location	C.L.	Ch.	Location	C.L.	Ch.	Location	C.L.	Ch.
Adams Hill, B.C.	CFJC-TV-8	11	Causapscal, Que.	CKBL-TV-5	6	Falkland, B.C.	CHBC-TV-5	72	Jasper, Alta.	CBXT-4	5
Alger, Alta.	CJAB-TV-3	47	Cawston, B.C.	CHKC-TV-3	3	Fare, Y.T.	CFWS-TV-1	10	Jonquière, Que.	CKRS-TV	12
Alger, Alta.	CKAB-TC-3	43	Celista, B.C.	CHBC-TV-3	3	Field, B.C.	CBTE-TV-6	8	Jubilee Mountain, B.C.		
Alma, Que.	CKS-TV-4	12	Chandler, Que.	CHBC-TV-3	3	Field, B.C.	CFY-TV-4	4		CFWL-TV-2	2
Alta Lake, B.C.	CHWM-TV-1	7	Chapais, Que.	CBFAT-1	12		CFY-TV-2	2	Juskatla, B.C.	CFYK-TV-2	2
Altincane, Sask.	CKBI-TV-1	10	Chapleau, Ont.	CFCL-TV-6	6		CFY-TV-2	2	Kamloops, B.C.	CHKM-TV	6
Antigonish, N.S.	CJCB-TV-2	9	Charlottetown, P.E.I.	CBCT	13	Fisher Branch, Man.	CBWGT	10	Kapuskasing, Ont.	CBFOT-1	12
Argentea, Nfld.	CJGX-TV-2	2	Chase (Adams Hill), B.C.			Flin Flon, Man.	CBWGT	10	Kearns, Ont.	CFCL-TV-3	2
Ashcroft, B.C.	CFJC-TV-2	10	Chase (White Lake), B.C.	CHSH-TV-2	13	Fort Frances, Ont.	CBWCT	5		CFCL-TV-2	2
Ashmont, Alta.	CFRN-TV-4	12	Chase (White Lake), B.C.	CHSH-TV-1	7	Fort Fraser, B.C.	CKPG-TV-3	6		CKSO-TV-3	11
Atbasca, Alta.	CBXT-1	8	Cherryville, N.S.	CJWR-TV-1	10	Fort McMuray, Alta.			Kemano, B.C.	CFYK-TV-2	2
Atvik, B.C.	CBWCT-1	7	Cheticamp, N.S.	CBFT	10	Fort Nelson, B.C.	CBTD-TV-1	9	Kenora, Ont.	CBWT	8
Avola, N.S.	CFJC-TV-13	3	Chibougamau, Que.	CBFAT	5	Fort Qu'Appelle, Sask.	CBKMT-2	2	Keremees, B.C.	CHKC-TV-1	4
Baie St. Paul, Que.			Chicoutimi, Que.	CJPM-TV	6	Fort Smith, N.W.T.	CKQV-TV-1	11	Kildada, B.C.	CFYK-TV-1	9
Baie Verte, Nfld.	CKRT-TV-1	2	Chilliwack, B.C.	CHAN-TV-1	4	Fort St. James, B.C.	CBTE-TV-4	8	King Island, B.C.	CHTV-TV-1	9
Baldy Mountain, Man.	CBNAT-1	8	Churchill, Man.	CHGH-TV-2	2	Foxwarren, Man.	CKPG-TV-5	5	Kitchener, Ont.	CKCO-TV	13
Baneroft, Ont.	CHEX-TV-1	2	Churchill Falls, Nfld.			Frobisher Bay, N.W.T.	CKX-TV-1	11	Kokish, B.C.	CFKB-TV-2	9
Banff, Alta.	CFAC-TV-2	13		CBTC-TV-9	9	Gaspe, Que.	CHAU-TV-6	10	Kwinatani, B.C.	CKCC-TV-1	7
	CFCN-TV-2	8		CBTC-TV-2	13	Grape West, Que. (Becheval Mountain)	CFGW-TV-1	6	Labrador City, Nfld.	CJCL-TV	13
	CKRD-TV-2	19	Clearwater, B.C.	CFJC-TV-10	2	Geraldton, Ont.	CBAT	13	Lac du Bonnet, Man.	CBWT-2	4
Barrie, Ont.	CBLAT-5	5	Clinton, B.C.	CFJC-TV-4	9	Gilliam, Man.	CBWL	5	Lac La Pêche, Alta.	CBXT-5	10
Beardmore, Ont.	CBLAT-5	5	Clinton Creek, Y.T.			Goose Bay, Nfld.	CFLA-TV	6	Lac Magentic, Que.	CBVT-3	2
Bella Coola, B.C.	CHVT-TV-2	11		CBTE-TV-2	8	Grand Bank, Nfld.	CJGX-TV-1	10	Lake Louise, Alta.	CFLL-TV-1	6
Big River, Sask.	CKBI-TV-5	9		CBTE-TV-2	8	Grand Falls, Nfld.	CBNAT	11		CFLL-TV-2	9
Bon Accord, N.B.	CHSJ-TV-1	6	Cloridorme, Que.	CHAU-TV-8	6	Grand Forks, B.C.	CBUAT-1	5	Lalakata Point, B.C.	CFSSB-TV	11
Bonavilles, Nfld.	CJON-TV-2	10	Coleman, Alta.	CJOC-TV-1	12	Grand Rapids, Man.	CBWHT	8	L'Anse à Valiveau, Que.	CHAU-TV-9	7
Bonne Bay, Nfld.	CBYV-TV	12	Colgate, Sask.	CKCK-TV-1	12	Grande Prairie, Alta.	CBXAT	10	La Ronge, Sask.	CBTA-TV-2	12
Bonnington, B.C.	CBUDT	13	Corner Brook, Nfld.	CBTS-TV	5	Grande Vallée, Que.	CFRN-TV-1	13	La Tuque, Que.	CBVT-3	10
Bonnyville, Alta.	CKSA-TV-2	9	Coronation, Alta.	CJON-TV-1	10	Grande Vallée, Que.	CFRN-TV-1	13	Lawn, Nfld.	CJGX-TV-2	10
Boss Mountain, B.C.	CFJC-TV-16	7	Courtenay, B.C.	CKRD-TV-1	10	Greenwater Lake, Sask.			Lethbridge, Alta.	CJOC-TV	7
Boston Bar, B.C.	CFJC-TV-16	7	Cranbrook, B.C.	CBUT-1	9	Gregrice, Alta.	CKBI-TV-3	4	Lillooet, B.C.	CFJC-TV-1	11
Bow Island, Alta.	CHAT-TV-3	10	Crawford Bay, B.C.	CBUT	10	Gregrice, Alta.	CJAB-TV-4	7	Lynn Lake, B.C.	CFMZ-TV-1	2
Bowen Island, B.C.	CBUT-4	13	Creston, B.C.	CBUT-3	3	Halgro, B.C.	CKAB-TV-12	12	Liverpool, N.S.	CBHT-1	12
	CHAN-TV-2	3	Crimson Lake, Alta.	CFMH-TV-1	9	Haltburton, Ont.	CKVR-TV-3	5	Lloydminster, Alta.	CKSA-TV	12
Braekendale, B.C.	CHAN-TV-5	3	Crow Lake, Alta.	CJAB-TV-2	11	Halifax, N.S.	CBHT	13	Logan Lake, B.C.	CHLK-TV-1	11
Braine, B.C.	CFJC-TV-15	3	Crow Lake, Alta.	CKAB-TV-2	13	Hamilton, Ont.	CBHT	3	London, Ont.	CHLK-TV-2	13
Brandon, Man.	CKX-TV	8	Crow Lake, Alta.	CKAB-TV-2	13	Havre St. Pierre, Que.	CHCH-TV	11	Lookout Ridge, Near Chilliwack, B.C.	CBUT-3	10
Brooks, Alta.	CFCN-TV-3	9	Dawson, Y.T.	CBTE-TV-3	7	Hearst, Ont.	CBFT-2	7	Lumby, B.C.	CHID-TV-1	4
	CJOC-TV-2	2	Dawson Creek, B.C.	CJDC-TV	12	High Prairie, Alta.	CFCL-TV-4	4	Lynn Lake, Man.	CBTA-TV	8
Buehans, Nfld.	CBNAT-2	13	Deer Lake, Nfld.	CBYAT	5	Hinton, Alta.	CBXAT-2	2	Mabel Lake, B.C.	CHPP-TV-1	8
Bullhead Mountain, B.C.			Drumheller, Alta.	CJON-TV-4	7	Hixon, B.C.	CKPG-TV-1	10	Mackenzie, B.C.	CKPG-TV-4	6
	CJDC-TV-2	8	Ear Falls, Ont.	CFCN-TV-10	6	Holberg, B.C.	CFKY-TV	4	Magdalen Islands, Que.		
Burmis, Alta.	CFCN-TV-4	8	Eastend, Sask.	CFBT	9	Hop, B.C.	CBUT-6	9		CBCT-1	12
Burnaby, B.C.	CJOC-TV-3	3	Edmonton, Alta.	CBWTD	9	Houston, B.C.	CFTK-TV-10	2	Malakwa, B.C.	CFFI-TV-1	4
Burns Lake, B.C.	CFYK-TV-3	4	Dryden, Ont.	CBWTD	9	Hudson Hope, B.C.				CFFI-TV-2	4
Cabano, Que.	CKRT-TV-4	8	Ear Falls, Ont.	CBWTD	9	Hudsons Bay Mountain (near Telkwa) B.C.			Malartic, Que.	CFYK-TV-5	13
Caledonia, N.S.	CJCH-TV-6	6	Eastend, Sask.	CJFB-TV-1	13				Manicouagan 3, Que.	CKHQ-TV-6	5
Calgary, Alta.	CFAC-TV-2	2	Edmonton, Alta.	CKHF-TV-1	9				Manicouagan 5, Que.	CKHQ-TV-1	10
	CFCN-TV-4	4	Edmonton, Alta.	CBXFT	11				Manitowadge, Ont.	CBLAT-1	8
	CFCN-TV-2	2	Edmonton, Alta.	CBXFT	11				Manning, Alta.	CBXAT-3	12
Campbellton, N.B.	CFCN-TV-4	4	Edmonton, Alta.	CBXFT	11				Maple Creek, Sask.		
Camp West, B.C.	CFNV-TV-1	3	Edmonton, Alta.	CBXFT	11				Marathon, Ont.	CHAT-TV-2	10
Canal Flats, B.C.	CBUBT-1	12	Edmonton, N.B.	CFRN-TV-3	3				Marathon, Ont.	CBAT-1	11
Canning, N.S.	CJCH-TV-1	10	Elliott Lake, Ont.	CJBR-TV-1	13						
Canoe, B.C.	CHBC-TV-8	6		CBFT-3	12						
Cape Mountain, Nfld.	CFJC-TV-14	8		CKNC-TV-1	7						
Cape Broya, Nfld.	CHCB-TV-1	3		CKSO-TV-1	3						
	CHCB-TV-2	13		CKEL-TV-1	7						
Carleton, Que.	CHAU-TV	7		CKEL-TV-2	13						
Carlyle Lake, Sask.	CFSS-TV	7		CKEL-TV-3	11						
Casalar, B.C.	CBTO-TV	7		CKEL-TV-3	11						
Castlerock, B.C.	CBYAT-2	3		CKEL-TV-3	11						
Cathedral Point, B.C.	CFST-TV-3	13		CFEN-TV-1	4						
	CFSS-TV-3	13		CFEN-TV-2	11						

Call	Location	MHz	Call	Location	MHz	Call	Location	MHz	Call	Location	MHz
Marquis, Sask.	CKMJ-TV 7		Mica Creek (Site 2), B.C.	CHMC-TV-2 4		Mont-Laurier, Que.	CBFT-2 3		Charlotte, B.C.	CHQC-TV-1 4	
Marystown, Nfld.	CBNT-3 5		Mica Creek Village, B.C.	CFZQ-TV-2 5		Mont-Louis, Que.	CKBL-TV-4 2		Murdochville, Que.	CKBL-TV-2 6	
Matagami, Que.	CKRN-TV-4 7		Micoua, Que.	CKHQ-TV-3 6		Montreal, Que.	CBFT-1 11		Nakusp, B.C.	CKMU-TV-1 2	
Matane, Que.	CKBL-TV 9		Midway, B.C.	CKMY-TV-1 7			CBFT 2			CJNP-TV-2 2	
Maytower, Alta.	CKAB-TV-1 8		Millertown, Nfld.	CBNT-5 7			CBMT 6		Nass Camp (Near Lava Lake) B.C.	CFTK-TV-6 5	
Meadow Lake, Sask.	CKAB-TV-1 8		Minden, Ont.	CHEX-TV-2 10		Moose Jaw, Sask.	CFCF-TV 12		Nelson, B.C.	CBUT 9	
Medicine Hat, Alta.	CKSA-TV-1 12		Moneton, N.B.	CBFT 11		Mount Timothy, B.C.	CBKMT 4		Newcastle, N.B.	CKAM-TV-1 2	
				CHMT-TV 7			CFCJ-TV-6 5		Newcastle Ridge, B.C.	CFKB-TV-1 7	
				CKAM-TV 12		Moyle, B.C.	CKVS-TV-1 5		New Denver, B.C.	CHSL-TV-1 7	
				CKCW-TV 2		Mt. Dolly, Near Stewart, B.C.	CKHF-TV-2 11		New Glasgow, N.S.	CBHT-5 6	
Melita, Man.	CKK-TV-2 9		Mont Blanc Percé, Que.	CFGW-TV-2 8		Mt. Parizeau, B.C.	CFTK-TV-8 5		Nipikish, B.C.	CFNV-TV-2 6	
Merritt, B.C.	CFJC-TV-3 10		Mont Climent, Que.	CKBL-TV-1 11		Mt. Poole, Near Queen			Nine Mile Mountain (Northeast New Hazelton), B.C.		
Mica Creek (Site 1), B.C.	CHMC-TV-1 7										

White's Radio Log World-Wide Shortwave Stations

kHz	Call	Name	Location	GMT
120 Meter Band—2300-2495 kHz				
2360	TGBA	R. Maya	Huehuetenango, Guatemala	0200
2410	—	R. Goroka	Goroka, Papua/N. Guinea	1100
2446	—	ORTF	St. Denis, Reunion	0230
2450	—	R. Mt. Hagen	Mt. Hagen, Papua/N. Guinea	1130
2468	—	R. Popondetta	Popondetta, Papua/N. Guinea	1000
2510	—	Korean B.S.	Taegu, S. Korea	1200

kHz	Call	Name	Location	GMT
90 Meter Band—3200-3400 kHz				
3204	—	Nigeria B.C.	Ibadan, Nigeria	0500
3215	HIDB	R. Libertad	Santiago, Dominican Rep.	0230
3223	—	R. Republik Indonesia	Mataram, Indonesia	1130
3227	ELWA	Sudan Interior Mission	Monrovia, Liberia	2300
3232	—	RTV Congolaise	Brazzaville, Congo	2230
3240	OBX4U	R. America	Lima, Peru	0300
3242	—	R. Republik Indonesia	Ambon, Indonesia	1230
3245	—	R. Kerema	Kerema, Papua/N. Guinea	1230
3245	YVKT	R. Libertador	Caracas, Venezuela	0330
3250	—	R. Republik Indonesia	Bandjarmasin, Indonesia	1300
3250	—	South African B.C.	Johannesburg, S. Africa	0330
3255	ZYR62	R. Marilia	Marilia, Brazil	0900
3255	YVOL	LV del Tigre	El Tigre, Venezuela	0200
3260	HCOS4	LV Carrizal	Calcuta, Ecuador	0300
3275	YVMC	R. Mara	Maracaibo, Venezuela	0330
3286	DUB4	Philippine B.C.	Manila, Philippines	1200
3290	—	Guyana B.S.	Georgetown, Guyana	0830
3294	—	R. Republik Indonesia	Samarinda, Indonesia	1300
3300	—	R. Grenada	St. George's, Grenada	0100
3300	TGNA	R. Cultural	Guatemala, Guatemala	0300
3315	—	ORTF	Ft. de France, Martinique	1100
3316	—	Sierra Leone B.S.	Freetown, Sierra Leone	2230
3323	—	R. Bougainville	Kieta, Bougainville	1200
3330	CHU	Dominion Observatory	Ottawa, Canada	0300
3335	—	R. Wewak	Wewak, Papua/N. Guinea	1200
3339	—	R. Tanzania	Zanzibar, Tanzania	0345
3340	—	RC Huambo	Nova Lisboa, Angola	2230
3350	—	R. Ghana	Ejura, Ghana	2200
3365	HIRL	R. Exitos	Santiago, Dominican Rep.	0400
3375	—	Em. Official	Luanda, Angola	2300
3375	ZYK28	R. Olinda	Pernambuco, Brazil	0100
3380	—	R. Malawi	Blantyre, Malawi	2130
3380	HCRY4	R. Iris	Esmeraldas, Ecuador	0300

kHz	Call	Name	Location	GMT
3385	—	ORTF	Cayenne, Fr. Guiana	0930
3385	HIDA	R. Hit Musical	Santiago, Dominican Rep.	0200
3390	HCOTI	R. Zaracay	St. Domingo, Colorados, Ecuador	0400
3395	YVOJ	R. Universo	Merida, Venezuela	0330

kHz	Call	Name	Location	GMT
60 Meter Band—4750-5060 kHz				
4500	VNG	Australian Post Office	Melbourne, Australia	1200
4627	—	R. Sahara	Aajun, Sp. Sahara	2200
4679	HCWEI	R. Noc. Espejo	Quito, Ecuador	0330
4701	—	R. Pyongyang	Pyongyang, N. Korea	1230
4725	—	Burma B.S.	Rangoon, Burma	1230
4756	HJKC	Em. Nuevo Mundo	Bogota, Colombia	0230
4765	—	RTV Congolaise	Brazzaville, Congo	2200
4765	HCAJ2	CRE	Guayaquil, Ecuador	0300
4770	ELWA	Sudan Interior Mission	Monrovia, Liberia	2200
4770	YVNW	R. Bolivar	Ci. Bolivar, Venezuela	0200
4771	—	R. Mal'	Bamako, Mali	0645
4775	HIAS	Onda Musical	Sto. Domingo, Dominican Rep.	0345
4777	—	RTV Gabonaise	Libreville, Gabon	2245
4780	HCMQ1	R. Atahualpa	Quito, Ecuador	0400
4780	YVLA	LV Carabobo	Valencia, Venezuela	1100
4788	—	Turk R.	Turk Island	2130
4790	HCPV2	R. Atalaya	Guayaquil, Ecuador	0200
4795	—	R. Commercial	Sa da Bandeira, Angola	2300
4800	YVMO	R. Larc	Barauisimeto, Venezuela	0100
4804	—	V. Kenya	Nairobi, Kenya	0400
4807	—	ORTF	St. Denis, Reunion	0230
4810	YVMG	R. Popular	Maracaibo, Venezuela	0300
4815	—	RTV Vol'aique	Ouagadougou, Upper Volta	0600
4820	—	R. Gambia	Banjul, Gambia	0630
4820	HRVC	V. Evangelique	Tegucigalpa, Honduras	0315
4825	HIFA	LV Fuezas Armadas	Sto. Domingo, Dominican Rep.	0230
4832	—	R. Capital	San Jose, Costa Rica	1315
4835	—	R. Malaysia Sarawak	Kuching, Sarawak	1315
4839	—	R. Republik Indonesia	Amban, Indonesia	1230
4840	YVOI	R. Valera	Valera, Venezuela	0100
4845	—	R. Botswana	Gaberone, Botswana	0430
4850	—	R. Nat. Mauritania	Nouachott, Mauritania	0700
4855	—	R. Republik Indonesia	Palembang, Indonesia	1230
4856	ZYR61	R. Taubate	Taubate, Brazil	0330
4860	YQGE	R. Maracaibo	Maracaibo, Venezuela	0500
4860	HCGE5	R. Mundial	Riobamba, Ecuador	1045
4865	—	R. Brunei	Berakos, Brunei	1330

kHz	Call	Name	Location	GMT
4870	—	Rdu Dahomey	Cotonou, Dahomey	0600
4872	—	R. Republik Indonesia	Sorong, Indonesia	1200
4890	—	R. du Senegal	Dakar, Senegal	0630
4915	—	R. Ghana	Accra, Ghana	0600
4920	VLM4	Australian B.C.	Brisbane, Australia	1300
4923	HC-RQ1	R. Quito	Quito, Ecuador	0330
4926	—	R. Equatorial	Bata, Eq. Guinea	0530
4930	HIBE	R. Mil	Sta. Domingo Dominican Rep.	0400
4940	—	RTV Ivarienne	Abidjan, Ivory Coast	2230
4970	YVLK	R. Rumbas	Caracas, Venezuela	0230
4972	—	R. du Cameroun	Yaounde, Cameroun	0600
4990	—	R. Nigeria	Lagos, Nigeria	0545
4996	OAZ4C	R. Andina	Huancayo, Peru	0400
5010	OAX8V	R. Eco	Liquitos, Peru	0345
5015	—	—	Vladivostok, USSR	1500
5038	—	R. Bangui	Bangui, Cent. Afr. Rep.	0600
5047	—	R. Togo	Lome, Togo	0530

49 Meter Band—5950-6200 kHz

5568	—	Ecoss de Pto Martinez	Pto Martinez, Colombia	0200
5804	—	R. Sanaa	Sanaa, Yemen	0345
5850	—	R. Peking	Peking, China	1400
5868	—	R. Pyongyang	Pyongyang, N. Korea	1400
5930	—	R. Prague	Prague, Czechoslovakia	0400
5950	—	R. Harbin	Harbin, China	1330
5955	TGNA	R. Cultural	Guatemala, Guatemala	0400
5960	—	R. Canada International	Montreal, Canada	0230
5965	—	R. Malaysia	Kuala Lumpur, Malaysia	1400
5970	OBX4Q	R. El Sal	Lima, Peru	0500
5975	—	R. Australia	Melbourne, Australia	1100
5980	YSS	R. Nacional	San Salvador, El Salvador	1130
5987	—	R. Republik Indonesia	Menado, Indonesia	1300
5995	—	R. Mali	Bamako, Mali	0700
6000	PRK5	R. Inconfidencia	Belo Horizonte, Brazil	0815
6005	CFCX	Canadian Marconi	Montreal, Canada	1800
6006	TIH8	R. Reloj	San Jose, Costa Rica	0230
6015	—	VOA relay	Rhodes, Dadianese Is.	2330
6020	OAX4Q	R. Victoria	Lima, Peru	0500
6025	—	Nigerian B.C.	Enugu, Nigeria	0700
6025	—	R. Portugal	Lisbon, Portugal	0400
6030	HJCT	R. Nicarual	Bogota, Colombia	0300
6035	—	R. RSA	Johannesburg, S. Africa	0100
6037	TIFC	Faro del Caribe	San Jose, Costa Rica	0400
6045	—	R. Sweden	Stockholm, Sweden	0330
6065	—	R. Nac. Espana	Madrid, Spain	0200
6070	CFRX	R. CFRB	Toronto, Canada	2000
6080	—	R. New Zealand	Wellington, New Zealand	0630
6080	—	R. RSA	Johannesburg, S. Africa	0100
6080	—	R. Berlin Int.	Berlin, E. Germany	2215
6085	—	Deutsche Welle relay	Sackville, Canada	0430
6090	—	R. Luxembourg	Villa Louvigny, Luxembourg	0100
6095	HJIW	LV Centro	Espinal, Colombia	1100
6105	XEQM	R. Yucatan	Merida, Mexico	1300
6145	—	RTV Algerienne	Algiers, Algeria	0700
6150	VLR6	Australian B.C.	Melbourne, Australia	1200
6155	—	Swazi R.	Mbabane, Swaziland	0430
6165	—	VTVN	Saigon, S. Vietnam	1300
6175	—	British B.C.	London, England	0100
6185	—	R. Ethiopia	Addis Ababa, Ethiopia	0300
6195	—	Nigerian B.C.	Sokoto, Nigeria	0600
6210	—	R. Nordsee Int.	International Waters	0530

kHz	Call	Name	Location	GMT
6240	—	R. Libertacao	Unknown	0730
6250	—	R. Pyongyang	Pyongyang, N. Korea	2230

41 Meter Band—7100-7300 kHz

6955	—	R. Peking	Peking, China	1130
7065	—	R. Tirana	Tirana, Albania	0500
7105	—	V. Vietnam	Hanoi, N. Vietnam	1200
7107	—	Thai TV R.	Bangkok, Thailand	1130
7120	—	R. Peking	Peking, China	0300
7130	—	Deutsche Welle relay	Sines, Portugal	0530
7135	—	R. Monte Carlo	Mante Carlo, Monaco	0600
7135	—	ORTF	Paris, France	0530
7155	—	R. Amman	Amman, Jordan	0400
7170	—	R. Noumea	Noumea, New Caledonia	1000
7185	—	British B.C.	London, England	0300
7205	—	R. Nederland relay	Malagasy Rep.	0030
7210	—	Rdf. Senegal	Dakar, Senegal	0700
7215	—	R. Brunei	Berakas, Brunei	1300
7220	—	RTV Tunisienne	Tunis, Tunisia	0715
7230	—	R. Sahara	Aaiun, Sp. Sahara	0730
7233	—	E. Central State B.C.	Enugu, Nigeria	0600
7250	—	ORF	Vienna, Austria	0430
7265	—	Sudwestfunk	Rohrdorf, W. Germany	0600
7270	—	V. America relay	Tangier, Morocco	0500
7275	—	RAI	Rome, Italy	0430
7275	—	V. Nigeria	Lagos, Nigeria	0615
7290	—	Trans World R.	Manaco, Monte Carlo	0700
7345	—	R. Prague	Prague, Czechoslovakia	0230
7400	—	R. Peace and Progress	Moscow, USSR	0000

31 Meter Band—9500-9775 kHz

9009	—	Israel, B.A.	Jerusalem, Israel	0500
9022	—	R. Iran	Teheran, Iran	2000
9360	—	R. Nac. Espana	Madrid, Spain	0100
9365	—	R. Peking	Peking, China	1130
9375	—	—	Khabarovsk, USSR	1130
9455	—	R. Pyongyang	Pyongyang, N. Korea	1100
9460	—	ORTF	Paris, France	0300
9475	—	R. Cairo	Cairo, Egypt	0230
9505	—	R. Japan	Tokyo, Japan	1200
9510	YVXJ	R. Barquisimeto	Barquisimeto, Venezuela	0100
9515	—	R. Pyongyang	Pyongyang, N. Korea	1200
9520	OAX4J	R. La Cronica	Lima, Peru	1200
9525	—	All India R.	Aligarh, India	2200
9535	—	Swiss B.C.	Berne, Switzerland	0200
9540	—	Polish R.	Warsaw, Poland	1830
9545	—	R. Lebanon	Beirut, Lebanon	0230
9555	ELWA	Sudan Interior Mission	Monrovia, Liberia	1930
9570	—	RTV Kaduna	Kaduna, Nigeria	0600
9570	—	Qatar B.S.	Doha, Qatar	0230
9580	—	V. Philippines	Manila, Philippines	1330
9610	VLW9	Australian B.C.	Perth, Australia	1230
9616	—	Philippine B.S.	Manila, Philippines	0800
9620	—	R. Belgrade	Belgrade, Yugoslavia	1830
9640	—	Advertiser World R.	Sines, Portugal	0500
9645	—	Vatican R.	Vatican City	2000
9655	—	RTV Belge	Brussels, Belgium	2200
9655	—	R. Damascus	Damascus, Syria	1930
9660	YVLM	R. Rumbos	Caracas, Venezuela	0330
9675	ZYT29	R. Diaria da Manha	Florianopolis, Brazil	1100
9690	—	RAE	Buenos Aires, Argentina	0600
9690	—	Deutsche Welle	Cologne, W. Germany	2300
9695	—	R. RSA	Johannesburg, S. Africa	2300
9695	—	R. Australia	Melbourne, Australia	1300
9700	—	R. Sofia	Sofia, Bulgaria	0400
9710	—	RAI	Rome, Italy	0000
9715	—	R. Nederland	Hilversum, Holland	2130
9740	—	R. Baghdad	Baghdad, Iraq	2000
9750	—	Swiss B.C.	Berne, Switzerland	2000

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31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

Name _____

Address _____

City _____

State _____

Zip _____

kHz	Call	Name	Location	GMT
9760	—	V. America relay	Kavala, Greece	2200
9765	—	Deutsche Welle	Cologne, W. Germany	2100
9770	4VEH	R. 4VEH	Cap Haitien, Haiti	1300
9833	—	R. Budapest	Budapest, Hungary	0100
9840	—	—	Baku, USSR	1400

25 Meter Band—11700-11975 kHz

11620	—	All India R.	Delhi, India	2000
11628	—	R. Pakistan	Karachi, Pakistan	1830
11630	—	R. Cairo	Cairo, Egypt	2130
11650	—	R. Bangladesh	Dacca, Bangladesh	1800
11690	—	R. Moscow	Moscow, USSR	0500
11700	—	R. Berlin Int.	Berlin, E. Germany	1200
11700	—	Vatican R.	Vatican City	1800
11705	—	Israel B.A.	Jerusalem, Israel	2300
11710	—	RAE	Buenos Aires, Argentina	2330
11712	—	V. Indonesia	Jakarta, Indonesia	1130
11715	—	Swiss B.C.	Berne, Switzerland	0200
11720	—	Canadian B.C.	Montreal, Canada	0430
11725	—	Sri Lanka B.C.	Colambo, Sri Lanka	1600
11735	—	RTV Marocaine	Tangier, Morocco	2130
11745	HCJB	V. Andes	Quito, Ecuador	0100
11765	—	R. Sofia	Sofia, Bulgaria	2100
11775	—	R. Bucharest	Bucharest, Romania	2100
11780	—	British B.C. relay	Ascension Island	2330
11790	—	R. Lebanon	Beirut, Lebanon	0300
11825	—	R. Tahiti	Papeete, Tahiti	0300
11830	—	All India R.	Bombay, India	1100
11830	WINB	R.S. WINB	Red Lion, USA	2300
11850	—	R. Norway	Oslo, Norway	1900
11855	—	Saudi Arabian B.S.	Jeddah, Saudi Arabia	1800
11866	—	R. Lubumbashi	Lubumbashi, Zaire	0530
11880	—	R. Turkey	Ankara, Turkey	2000
11900	—	R. Kiev	Kiev, USSR	0330
11920	KGEI	V. Amistad	San Francisco, USA	0345
11920	—	Far East B.C.	Manila, Philippines	0900
11935	—	R. Portugal	Lisbon, Portugal	0200
11940	—	R. Sweden	Stockholm, Sweden	0530
11955	—	Far East B.A.	Victoria, Seychelles	1730
12080	—	R. Euzkadi	Venezuela	2030

19 Meter Band—1500-15450 kHz

15015	—	V. Vietnam	Hanoi, N. Vietnam	1300
15060	—	R. Peking	Peking, China	0200
16085	—	R. Iran	Teheran, Iran	0430
15105	—	R. Nederland relay	Talata, Malagasy Rep.	2100
15105	—	British B.C. relay	Ascension Island	1730
15110	—	Am. Forces RTV S.	Poro, Philippines	0200
15125	XERMX	R. Mexico	Mexico, Mexico	0230
15145	—	R. Kuwait	Kuwait	1830
15160	—	Israel B.A.	Jerusalem, Israel	2030
15165	—	R. Denmark	Copenhagen, Denmark	1330
15170	—	R. Tahiti	Papeete, Tahiti	0300
15176	XEWS	LV America Latina	Mexico, Mexico	1800
15180	KGEI	V. Amistad	San Francisco, USA	2100
15195	—	V. America relay	Munich, W. Germany	1400
15245	—	LV Zaire	Kinshasa, Zaire	1930

New Products

Continued from page 12

without damage to the unit even if the antenna is damaged, disconnected or improperly connected. Manufacturer's suggested list prices for the 25-watt, 12-channel model and the 10-watt, 12-channel model versions are set at \$499.95 and \$399.95 respectively. For further information on the Metrum II FM amateur radio, circle No. 49 on Reader Service Coupon.

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kHz	Call	Name	Location	GMT
15250	—	R. Bucharest	Bucharest, Romania	1300
15260	—	Far East Network	Tokyo, Japan	0600
15265	—	R. Afghanistan	Kabul, Afghanistan	1800
15280	—	V. America relay	Sora, Philippines	2330
15320	—	R. Canada Int.	Montreal, Canada	1930
15334	—	R. Pakistan	Karachi, Pakistan	0230
15335	HJZP	R. Nacional	Bogota, Colombia	0100
15335	—	Korean B.S.	Seoul, S. Korea	0300
15365	—	R. Nac. Espana relay	Canary Islands	0400
15380	—	Deutsche Welle relay	Kigali, Rwanda	2100
15435	—	R. Tanzania	Dar es Salaam, Tanzania	1900
15460	—	R. Tashkent	Tashkent, USSR	1200

16 Meter Band—17700-17900 kHz

17715	—	R. Havana Cuba	Havana, Cuba	1500
17720	—	V. Free China	Taipei, Taiwan	0200
17730	—	RTV Malagache	Tananarive, Malagasy Rep.	1530
17730	—	ORF	Paris, France	1800
17745	—	R. Cairo	Cairo, Egypt	0630
17745	—	R. Japan	Tokyo, Japan	0200
17755	—	R. Berlin Int.	Berlin, E. Germany	1400
17755	—	RAI	Rome, Italy	1300
17780	—	R. RSA	Johannesburg, S. Africa	1700
17800	—	R. Norway	Oslo, Norway	1700
17825	—	R. Sofia	Sofia, Bulgaria	1930
17865	—	R. Moscow	Moscow, USSR	0500
17900	—	Vatican R.	Vatican City	1600

13 Meter Band—21450-21750 kHz

21495	—	R. Portugal	Lisbon, Portugal	1945
21570	—	R. Nederland relay	Bonaire, Neth. Antilles	1900
21645	—	ORF	Paris, France	1430
21740	—	R. Australia	Melbourne, Australia	0100

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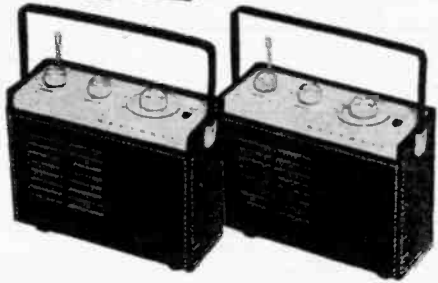
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