



In case you're not all that familiar with us, were not a publication for electrical engineers and other wizards. No way. ELEMENTARY ELECTRONICS is expressly for people who like to build their own projects and gadgets—and maybe get a little knee-deep in tape, solder and wire clippings in the process.

In fact, we have a sneaking suspicion that our readers like us because they think we're just as bug-eyed and downright crazy over great new project ideas as they are. And I guess they're right!

E/E thinks of you who dig electronics as the last of a special breed. It's more than just the "do-it-yourself" angle—it's also the spirit of adventure. In this prepackaged, deodorized world, building your own stereo system, shortwave receiver, darkroom timer or CB outfit is like constructing a fine-tuned little universe all your own. And when it all works perfectly—it really takes you to another world.

ELEMENTARY ELECTRONICS knows the kinds of projects you like—and we bring 'em to you by the truckload!

Ever hanker to build a sharp-looking digital clock radio? Or to hook up an electronic game to your TV? Or an easy-to-build photometer that makes perfect picture enlargements? Or a space-age Lite-Com so you and the family can talk to each other on a light beam? We've got it all to get you started.

WHEN IT COMES TO REPAIRS E/E can save you time, trouble and a pile of money!

Has your sound system gone blooey just when the party's going great? Do you shudder when your friendly neighborhood electrician hands you the bill? E/E can help.

Of course, we can't make you a master electrician overnight. But we can show you the fundamentals of repair plus maintenance tips.

IF YOU'RE NEW TO ELECTRONICS YOU GET A "BASIC COURSE"!

That's right! It's a regular feature. And

Get switched-on with - the magazine for electronics fans and hobbyists

it gives you the complete, ground-floor lowdown on a variety of important electronics subjects. For example—Understanding Transistors... How Radio Receivers Pull in Signals... Cathode Ray Tubes Explained... How Capacitors Work... Using Magnetism in Electronics. And more!

ENJOY GREAT ARTICLES LIKE THESE

- How to Build Your Own Transformer
- How to Select the Right Shortwave Receiver
- The Burgeoning World of Microcomputers
- Quickdraw Rickshaw—The Electric
 Car that Really Gets Around
- Car that Really Gets Around
 What's Really Wrong with FM
 Radio?
- How to Power-Up Your Antique Radio
- The Vanishing Vacuum Tube
- How to Customize Your CB Antenna
 Those Incredible TV Sets of the
 Future
- Listening in on the Forgotten Continent
- DXing Endangered Species
- Sandbagging—CB Fun Without a License
- The World's Worst Hi-Fi Components

TRY A FEW ISSUES AND EVALUATE OUR...

- ► GREAT PROJECT IDEAS. Simulate space flight with our computer analog project. Build your own audio/visual darkroom timer. Restore your old car radio. Construct a see-through crystal radio.
- ► HOW-TO-DO-IT HELP. Tips and pointers that add up to money saved. For example—tuning up your tape player . . . all about radios . . . whys and hows of turntables . . . care and feeding of speakers.

NO-NONSENSE TESTS. The scoop on Pioneer's TP-900 FM stereo car radio ... How well does GE's NiCad charger pep up your pooped batteries? ... What's your best bet in video games? Plus help in making buying decisions.



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UNGA

INCLUDING THE COMPLETE WHITE'S RADIO LOG

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Cover: Our favorite Small Planet-Earth-is shown on this issue's cover. It was taken by NASA's ATS III (Applications Technology Satellite) which is in a stationary orbit 22,300 miles above the mouth of the Amazon River. Note the major weather front moving across the central United States. Also shown is an artist's conception of a futuristic VLF to UHF microprocessor scanner with multiple frequency readouts, time-zone computer, progammable frequency selection and a built-in cassette DX logger.

New Products 2

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New INTERNATIONAL broadband amplifier

MODEL 150-299



14 db gain - 10 to 1,000 MHz

International's inline amplifier provides 14 db gain flat within 1 db over a range of 10 to 1,000 MHz. Impedance 50 ohms. Requires 20 VDC @ 50 ma. For increased gain additional amplifier may be added. Uses BNC type terminals.

SPECIFICATIONS

Range: 10 to 1,000 MHz Impedance: 50 ohms DC Input*: 20 VDC 50 ma

Gain**: 14 db

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Noise Figure: 9 db VSWR Output: 2.0

Output capability for -60 db near intermodulation distortion: 100 MV

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*May cascade for additional gain with consideration of noise and flatness.

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New Products

Hear The World

Shortwave "DXing" is rapidly mushrooming in popularity amongst people of all ages and in all walks of life. To fill the need for an exceptionally stable and sensitive receiver capable of top performance, Yaesu Electronics Corporation has introduced its model FRG-7000. Table top in design, it offers stability, sensitivity, selectivity and calibration accuracy rarely found in consumer receivers. The FRG-7000 will allow you to explore the far corners of the world from the comforts of the living room, with digital accuracy, using all modes of re-

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ception, single sideband, AM (broadcast) as well as code (CW). It provides complete and continuous coverage of all frequencies from .25 kHz to 29.9 MHz. Sells for \$599. For full details on technical specifications, write to Yaesu Electronics Corporation, 15954 Downey Avenue, P.O. Box 498, Paramount, CA 90723 or phone (213) 633-4007.

Economy Terminal Kit

Vaco's new economical terminal kit No. 89950 comes with a molded tray with separate compartments for the Vaco

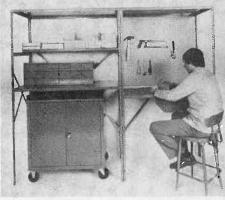


1963 crimping tool and 18 each of 20 of the most popular insulated terminal styles. Included is a handy folder that locates each terminal and explains the uses of the crimping tool. Sells for \$35.00. Vaco products are found wherever professional hand tools are sold. Can't find a dealer? Then write to Vaco Products Company, 1510 Skokie Blvd., Northbrook, IL 60062 or call (312) 564-

Mini-Shop

A new self-contained mini-shop that affords organization and easy access to tools is now available from Penco Products. Called "Shopcrafter," the minishop can be used by home craftsmen, servicemen, and do-it-yourselfers. The mini-shop is composed of two sections, one section includes a work bench with

drawer and a peg board back for hanging tools; another section includes standard accessories-rollable machine cabinet, drawer case with 18-drawer insert. work stool and an extra shelf. The two sections are attached side-by-side so that all tools can be stored easily within arms' reach. Machine cabinet and drawer case allow organization of tools



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and other equipment, to avoid timeconsuming searches over the odd-sized tables, drawers and shelves that comprise most homeowners' tool storage facilities. The two work units are each 75-in. high, 48-in. across, and 24-in. deep. The shelves and workbenches can easily be adjusted vertically on 2-in. in-The mini-shop lists for crements. \$413.00 with individual parts sold separately. Consult factory for price list. For further information, contact Penco Products, Inc., Oaks, PA 19456.

Walkie-Talkie

Panasonic has introduced a walkie-talkie. the Model RJ-78 which is a powerful, 49 MHz unit featuring two channel op-



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eration and built-in crystals. The RJ-78 walkie-talkie has a 21/4-in. speaker which doubles as a microphone and comes complete with a carrying case, two crystals, three "A" 1.5 volt batteries and a convenient hand carrying strap.

Sells for \$49.95 per pair. Available from electronics stores and Panasonic dealers nationwide. For further info, write to Panasonic, One Panasonic Way, Secaucus, NJ 07094.

Budget Scanner

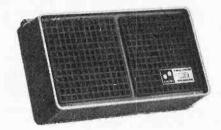
A new Bearcat scanning monitor radio with a handy "touch action" on/off bar allows the user who hears a siren, for instance, to simply touch the bar and hear instantly what's happening. Named the "Bearcat One-Four," the radio can be used to monitor police, fire, emergency, marine, weather and other services for "while it's happening" information. The new Bearcat One-Four also features fast scanning action which can search its four channels in just 1/2-second. Illuminating LEDs are used to flash the channel being received. Each channel is also provided with a lock-out switch for easy by-passing of any channel. Slide bar controls are used for vol-

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ume and squelch. To match local frequency assignments the radio is available in a choice of low band, high band or UHF versions. All models feature front directed speakers and excellent sensitivity for clear, local reception using the telescoping/fold-over antenna supplied. For use with other antennas, an external jack is provided. The radio operates from standard 117 volts AC. The suggested retail price is \$79.95 less crystals. Details are available from Bearcat dealers or by writing to Electra Company, P.O. Box 29243, Cumberland, IN 46229.

Top Sound

Makes sense to put the sound near your head so you can hear it! Superex VS-19 visor speaker fills the bill and provides better sound than the mini-speaker cur-



CIRCLE 65 ON READER SERVICE COUPON

rently in your CB rig. The VS-19 contains two speakers in a nicely designed plastic box that clips onto your cars sun visor. Comes with 8-ft. of cable terminated into mini-plug that almost all CB transceivers match. Sells for \$12.00. Get the facts direct from Superex Elec-

tronics Corporation, 151 Ludlow St., Yonkers, NY 10705.

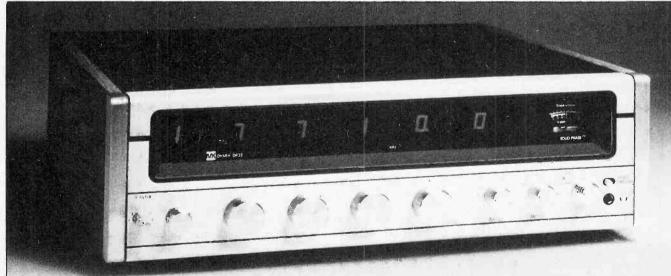
Mini Frequency Counter

Designed for 115V to 12V operation, the Davis 7208 UHF/VHF frequency counter is available factory-assembled or in kit form for even greater savings, and incorporates latest LSI technology. Fea-



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tures of the Davis 7208 include large 8-digit LED display, push-button switches, built-in prescaler, gate light, crystal time base and automatic decimal point placement. Available low-cost options are crystal oven, a Ni-Cad rechargeable battery feature for total portability, and built-in VHF-UHF preamp for direct measurement of low level RF signals in RF generators, receivers, etc. The Davis 7208 has a frequency range from 10 Hz to 600 MHz, with 0.1 and 1.0 sec. gate time; resolution is 1 Hz with 1.0 sec. gate, and sensitivity is from 10 mV at 60 MHz and 100 mV at 600 MHz. Input impedance is 1 Megohm/20 pf to 60 MHz, 50 Ohm above 60 MHz, and maximum safe input is 120V RMS to 10 MHz, 2V RMS above 60 MHz. The 600



DR33C Professional Receiver

- A full general coverage international receiver that delivers solid-state instrumentation sophisticated enough for the professional, yet easily operated by any radio enthusiast, all at a price far below what you'd expect to pay.
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New Products

MHz kit, (7208K), costs \$149.95, complete with all parts, drilled and plated thru glass P.C. boards, cabinet, parts, hardware, plus assembly manual and calibrating instructions. A factory-assembled 600 MHz unit (7208A) costs \$199.95 (plus \$2.00 shipping), and is calibrated to specifications and guaranteed for one year. For further information, contact Davis Electronics, 636 Sheridan Drive, Dept. 803, Tonawanda, NY 14150.

Digital Multimeter

A low-cost accurate digital multimeter by EICO, the EICO Model 272, is factory-assembled to sell for \$69.95. The Model 272 reads out up to 1000 Volts DC, up to 600 Volts AC, up to 1000 milli-Amperes DC and AC, and up to 1 Megohm resistance on three 0.3-in. bright LED digits. Overrange is indicated by a flashing display. The zero setting is automatic and the polarity reading is also automatic. The Model 272 is fully pro-



tected against overload and has 10-Megohm input impedance. Battery supply consists of four penlite cells (supplied) and there is a convenient built-in test point for checking the batteries. For further details contact EICO Electronic Instrument Co., Inc., 108 New South Road, Hicksville, NY 11801.

Cassette Deck with Automatic Program

RT-1125 front loading cassette deck from Sharp Electronics has a noise reduction system and the exclusive "Sharp Eye" Automatic Program Search System

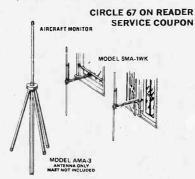


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(APSS) which enables a user to skip to the start of the next song or back to the start of the present selection. Packaged in a handsome black cabinet, RT-1125 has large VU meters, LED record indicator, individual bias and equalization switches, narrow gap permalloy head, automatic end-of-tape shut-off, servo controlled DC motor, mechanical pause control, front panel inputs for stereo headphones and microphones and a digital tape counter. Wow and flutter is 0.09 per cent WRMS, frequency response is 40-13,000 Hz, and Signal/Noise ratio is 56 dB. Suggested retail price is \$149.95. Get all the facts on the RT-1125 and other audio component products by writing to Sharp Electronic Corp., 10 Keystone Place, Paramus, NJ 07652.

Scanner-Monitor Antenna

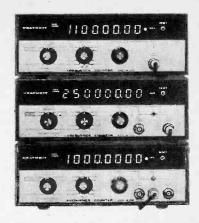
FINCO offers a new and different line of Sanner-Monitor antennas called the SMA line and an Aircraft Monitor AMA line. Reading up the SMA series of omnidirectional Scanner-Monitor antennas, is the model SMA-1 for operation in the Lo-VHF 30- to 50-MHz, Hi-VHF 148- to 174-MHz, and UHF 450- to 512-MHz frequencies. The unit operates as a 1/2-wave dipole in the Lo-VHF Band, as a 3/2 wave dipole in the Hi-VHF Band, and as a "J" stub in the UHF Band. (\$8.95). The model SMA-1K is identical to the SMA-1, but includes a kit with 65-ft. of coaxial cable with a connector and weather boot on one end. (\$17.95). The model SMA-1WK is identical to the SMA-1, but includes 18-ft. of coaxial cable with con-



nector and weather boot on one end and a complete window mounting kit. (\$21.95). The aircraft monitor model AMA-3 is an omni-directional antenna tuned for the 108- to 138-MHz aircraft frequencies. The unit operates as a ½-wave omni-directional ground plane. (\$20.95). For further information, write The Finney Company, 34 W. Interstate Street, Bedford, OH 44146.

Trio Counters

Heath Company has introduced three new frequency counter kits; the IM-4110, the IM-4120 and the IM-4130. Input frequencies of the three counters are 5 Hz to 110 MHz, 5 Hz to 250 MHz (in two ranges) and 5 Hz to 1 GHz (in three ranges) respectively. The new counters offer excellent accuracy and resolution for a wide variety of counting jobs including: CB, AM and FM, hi-fi equipment, marine and aircraft radio, military applications, land mobile and more. Addition-



CIRCLE 1 ON READER SERVICE COUPON

ally, the counters can be used for events. period and period averaging. Eight digit LED readout indicates the frequency counted. A switchable attenuator on the 110 MHz input divides the input signal by one, ten or one hundred to facilitate measurement of large amplitude signals. The time base switch selects the gate time and the resolution of the display. The 4120 and 4130 time bases are controlled by a TCXO (temperature compensated crystal oscillator) with a temperature stability of ± 1ppm and an aging rate of <5ppm/yr. (The 4110's crystal oscillator has temperature stability of ± 10ppm and an aging rate of <10ppm /yr.): The IM-4110 is priced at \$189.95, the IM-4120 at \$329.95 and the IM-4130 at \$529.95. The counters are also available fully assembled and tested at slightly higher prices. For complete details on these frequency counters and other Heath instruments, write Heath Company, Dept. 350-24, Benton Harbor, MI 49022, for a free catalog.

Sun-Powered Marine Battery Charger

Solarex Corporation of Rockville, Maryland presents a new 7-watt Solar Energizer—a marine battery charger that has no moving parts and requires no fuel other than sunlight. The Solar Energizer is invaluable to the boater who wants to conserve on-board fuel, since it allows operation of electrical equipment without running the engine or draining the battery. It's perfect for sailboats and

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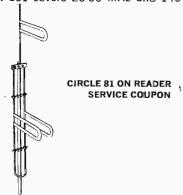


yachts that have no auxiliary power—and therefore no generator—yet require electricity to operate running lights, communication equipment, and other electrical gear. Designed for use with 12-volt systems, the Solar Energizer will maintain your boat's battery at full charge with power left over to, for example, operate an FM or CB transceiver, remove thousands of gallons of water

with a bilge pump, or operate navigation lights for hours. It's maintenance and pollution-free, silent, and fully automatic, charging your battery on sunny or overcast days, at dockside or at sea. Installation is simply one hole to drill, two wires to connect. Solar Energizer weighs four pounds and generates 0.6 amperes of current in full sunlight and up to 18 ampere-hours of energy per week in an average United States location. Sells for \$349. For more information, write to Solarex Corporation, 1335 Piccard Drive, Rockville, MD 20850.

Monitor and CB Skyhook

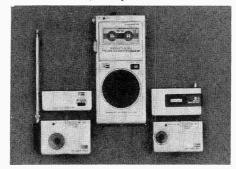
Avanti's Interceptor antenna, Model AV-601 is an unique CB antenna designed for the monitor buff. The Model AV-601 pulls in signals throughout both the low band and very high frequencies (VHF). Lightweight, it installs easily on a mast. The AV-601 covers 25-50 MHz and 140-



175 MHz frequencies which includes the CB band signals-transmitted or received. This Avanti base station antenna sells for \$29.95. For information, write Avanti Research and Development, Inc., 340 Stewart Ave., Addison, IL 60101.

120 Minute Microcassette

The new Olympus Pearlcorder SD2 Microcassette recorder blends complete modularity with 2 hour recording/playback performance in one handsomely styled 12 ounce package. A special tape speed setting gives the pocket sized recorder 120 minute capability with excellent fre-



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quency response using just one Olympus Microcassette. The SD2 is fully modular. Detachable AM and FM Tuner modules are available to create complete entertainment systems. Now the user can record favorite music, sports, talk shows, etc. Also available is a unique voice actuator module for voice activated recording without manual switch-on. Standard features include an electret condenser microphone and 50 mm dynamic speaker. Side mounted Record, Stop and Pause buttons and 4-way Feature Switch (Cue, Review, Rewind and Fast Forward) create a simple operational format. A host of accessories are available for system expansion including a sensitive tieclip microphone, external speaker with built-in-amplifier and various adaptors. The basic Pearlcorder SD2 set includes a voice actuator module and is available from all Olympus dealers at only \$279.95. For more information, write or call Olympus Corp. of America, Tape Recorder Division, Four Nevada Drive, New Hyde Park, NY 11040 (516) 488-

3½ Digit DVOM

The new 31/2 digit Model 3300 digital VOM just introduced by the Triplett Corp. features an extra-visible .3-in. high digital LED readout display with Polarity Indication, .5% accuracy and low-power ohms readings. The five function, 22 range Model 3300 offers complete portability with precision measurement capability. The new DVOM sells for only \$175.00, complete with long life Ni-Cad batteries and AC Adaptor Charger plus test probes with safety boots. The Triplett Model 3300 is a safety-conscious design with no exposed metal parts and it includes a high energy 2A/600 V fuse for ample overload protection. A fused probe provides for both high energy and normal use circuit protection. Over-range is in-

Shortwave Receivers—Scanners

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Yaesu FRG-7 FRG-7000 FR 101S(D) Kenwood R300 R820 McKay Dymek DR22 **DR33 DR44 DR55** Bearcat BC210 BC220

> 4-6 Regency T16K K100 K500

BC250

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- PreAmps
- Copper Wire
- E99 Insulators
- Coax Switches
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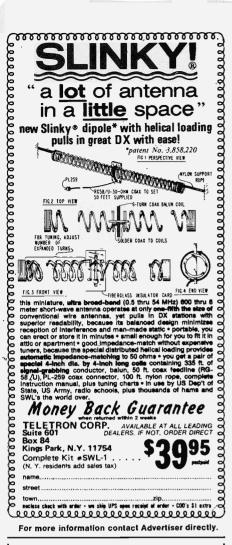
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dicated by a blinking display and a low battery warning is included. DC polarity is automatic with indication directly on



the readout display. Full details on the new Model 3300 DVOM and its complete line of accessories may be obtained at leading electronic distributors, or write to Triplett Corporation, Bluffton, OH 45817 or call (419) 358-5015.

Low-Price, No-Crystal Scanner

Regency's new Touch K100, a synthesized scanner, requires no crystalsjust simple touch entry of frequencies using the special pressure sensitive panel. The K100 has 10 channels available for storing any of 15,757 possible frequencies. It can also search within a band for unknown frequencies if the



CIRCLE 70 ON READER SERVICE COUPON

user enters the upper and lower limits of the search spectrum on the program panel. The listener may delay the resumption of the scan or search process to hear a response to a call. Tapping "Delay" will keep the scanner on the frequency until he is ready to continue scanning or searching. In addition to showing the operating frequency, the K100 LED indicators indicate a power failure, programming errors, all channel lockouts, and status of the scan delay function. List priced to sell at \$269. For additional information, write to Regency Electronics, Inc., 7707 Records St., Indianapolis, IN 46226.

Portable Compressed-Air System

Chemtronics Inc. recently introduced Micro-Duster, a new product that permits compressed-gas dusting of delicate instruments and assemblies. The product contains pure, moisture-free, nonflammable and non-toxic filtered gas,



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providing controlled removal of dust, lint, oxide particles, etc., without depositing harmful contaminants. A single, 15 oz. can of Micro-Duster produces over 1800 one-second compressed-gas bursts, or 25 to 30 minutes of continuous dusting. Spraying in short bursts until contaminants are dislodged is recommended for most efficient utilization. The product comes with a 6-in. extension tube for pin-point applications. Micro-Duster sells for \$2.50 through Chemtronics Distributors. For more information, including the location of local distributors, contact Chemtronics, Inc., 45 Hoffman Avenue, Hauppauge, NY 11787.

Experimenter's VOM

The 20,000 ohm/volt compact model 110 VOM introduced by B&K-Precision is a 16-range fuse-protected multimeter. For checking the low resistance of coil, transformer and motor windings, a 10ohm mid-scale range is featured. This range offers better than one-ohm resolution. Resistance ranges cover $0-1K\Omega$, 100K Ω and 1 meg Ω . Three DC current ranges (0.05mA, 25mA and 250mA) and five DC voltage ranges (0-2.5V, 10V, 50V, 250V and 1000V) are featured, DC accuracy is $\pm 3\%$ at full scale. Five AC ranges (0-10V, 50V, 250V, 500V and 1000V) provide "easy-reading" measurements. The 110 is compact enough to fit into most tool kits. Test leads and



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instructions are included; a carrying case is optional. The ohm meter requires a common "AA" battery. The B&K-Precision Model 110 is user priced at only \$24.50 and is available for immediate delivery at local distributors. Get all the facts direct from B&K-Precision, 6460 W. Cortland Ave., Chicago, IL 60635.

Pocket-Sized Desoldering Tool

The D5 Desoldering Tool is a highly ef-

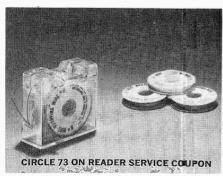
fective desoldering wick in a specially engineered, refillable dispenser tool. The D5 Desoldering Tool consists of a 1-in. long, clear plastic cylinder which contains a visible supply of 5 feet of desoldering wick. Braid is fed to the work through a 2½-in. Teflon probe that extends from one end of the wick supply. The heat-resistant Teflon probe allows users to desolder with pin-point accu-



racy and without burnt fingers, even in high-density circuitry. Sells for \$2.29. More information is available at Chemtronics distributors or directly from Chemtronics Inc., Solder Products Division, 45 Hoffman Avenue, Hauppauge, NY 11787.

3-Color Wire Dispenser

Remarkable new WD-30-TRI dispenser from OK Machine and Tool holds 3 colors of wire and features a built-in cutting and stripping mechanism. The refillable dispenser holds 50 feet each of red, white and blue insulated. silverplated, solid copper wire. To operate the cut/strip mechanism, the wire is first drawn out to the desired length. Then, a built-in plunger cuts the length free from the roll while a gentle pull through the stripping blade removes the insulation. Ideally suited for wire-wrapping, this unique dispenser is also handy

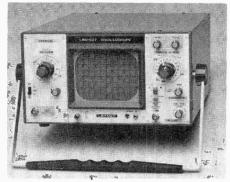


for many other wiring jobs. WD-30-TRI is priced at \$5.95, R-30-TRI 3-color refill is \$3.95. Available from your local electronics distributor or O.K. Machine and Tool Corporation, 3455 Conner Street, Bronx, NY 10475.

20 MHz Triggered Scope

The Leader LBO-507, a 20 MHz trig-

gered scope is designed for broad use in industry, hobby, laboratory and service. The LBO-507 offers automatic triggered circuitry to assure maximum display stability with minimal adjustments as well as a trigger sensitivity over the entire operational range. It



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provides convenience of pushbutton switch selection for every functional demand; 10 mV/cm vertical sensitivity calibrated in 11 steps-in a 1-2-5 sequence up to 50 V/cm with variance control; and a 17.5 nanosecond rise time. Bandwidth is DC to 20 MHz. Sweep speed for the LBO-507 is 0.5 uSec/cm, 18 steps in a 1-2-5 sequence up to 500 mS/cm with variable control. The LBOcomplete with low capacitance probe and terminal adapter. Get the complete specs 507 is priced at less than \$500 and is direct from Leader by writing to Leader Instruments Corp., 151 Dupont St., Plainview, NY 11803.

In-Line Preamp

New Telco Products' computer-designed preamplifiers boost receiver sensitivity with ultra low noise. Unique RF sniffer circuit allows the preamplifier to sense when the transceiver is keyed, effectively switching the preamplifier off during the transmit mode. This feature allows the preamplifier to be connected directly into the coax line with no modification to the existing mobile system. Model VHF 144 has 20 dB gain with less than 1.5 dB noise factor. Frequency range 140-180 MHz with 5 MHz band width.



CIRCLE 51 ON READER SERVICE COUPON



Selis for \$49.95. Model UHF 450 has 10-12 dB gain with less than .6 dB noise factor. Frequency range 400-512 MHz with 1 MHz band width. Sells for \$59.95. For additional information, contact Telco Products Corporation, 44 Sea Cliff Avenue, Glen Cove, New York 11542 or call (516) 759-0300.

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If you missed our sold-out first issue, we're real sorry!

Here now is the Spring '79 issue—112 pages with lots of illustrations, full of SF excitement, adventure and fun-

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Got a question or a problem with a project—ask Hank! Please remember that Hank's column is limited to answering specific electronic project questions that you send to him. Personal replies cannot be made. Sorry, he isn't offering a circuit design service. Write to:

Hank Scott, Workshop Editor COMMUNICATIONS WORLD 380 Lexington Avenue New York, NY 10017

Traveling Radio

Can I take my Patrolman 3 AM/VHF/ UHF portable radio in the aircraft when I go to Fort Worth, Texas?

-M.B., Phoenix, AZ

Yes, If you pack it in the luggage. Air lines forbid the use of radio and electronic devices on aircraft. They have the Federal Marshals backing them up, so forget it. However, you can use the receiver in the terminal and gate areas.

A Cuban Mystery?

I heard Radio Huayacocotla on 2400 kHz but not enough to place it in a country. Sounded like a Cuban to me. Hank, can you help?

-S. T., Tulsa, OK

It seems that everyone who hears a lowin-the-noise station speaking Spanish has hit on some exotic Cuban station. Sorry, R. Huayacocotla is Mexican. It's a good catch, anyway!

Gain is Getting

I've been into shortwave listening a little over a year. At the present I'm using a Realistic DX-160 and two longwire antennas, one is 75-ft. and the other 240-ft. I also have an antenna switch. With the present antenna I pick up a station at maybe 5/S9 on the meter (on the 75-ft. antenna) and then when I switch to the 240-ft antenna, the signal is 10 or 15/S9. Does this mean the longer antenna has gain?

—G.H., Ft. Smith, Ark.

Yes, when you compare one antenna array to another in signal gathering ability, one would pull more signa! than another exhibiting something we call gain. I suggest you try the RAK Listener 3 double dipole antenna. The results are surprising.

Surplus Coax

Can I use ordinary coax cable as a long wire antenna?

-D.J., Milford, Utah

Sure you can, but use your head! RG-58/U and RG-59/U coax can be strung for 20 to 40 feet with no problem except for icy conditions. Be sure to connect the outside braid to the inner conductor. Remember, the weight of the coax will cause stretching, hence sagging. For longer runs go the traditional way.

Scanner Fan

I'm an active scanner listener and I'd like you to know about one of my favorite dispatchers who is a dispatcher operating out of Police Headquarters in downtown Chicago. The frequency is 460.225 MHz, Zone 3, Districts 13 and 14. The sergeant usually works weeknights and he tries to

make long evenings go a little faster; at times he can be serious or be filled with humor. One night there was a break in the action so he humorously commented on what the radio officers would say. I remember that an officer called in for a canine unit, so the sergeant replied, "O.K., we'll send in the puppy dogs to help you out." The next minute he was serious. The sergeant received an urgent call saying an officer was in trouble. One could hear the tension in his voice. Listening to this type of action makes my Pro-2001 scanner more exciting.

-S.L., Clarendon Hills, IL

Okay, that's a good report. I'd like to hear from other scanner listeners about their favorite stations.

In the Mix

When I transmit on CB, my nearby AM radio picks up shortwave stations such as Voice of America, Radio Moscow and Canada International. What causes this?

-R.C., Martinsburg, WV

Possibly your CB signal and shortwave signal are mixing in the first RF stage of amplification in your receiver. Since the signals are strong, non-linear rectification occurs which is ideal for signal mixing. The difference signal falls into the AM band range and your set responds to it. The discussion is very general because the exact technique for this to happen can be caused many ways. I suggest you look seriously into shortwave listening and buy a good SW receiver.

Microprocessor Scanners

Are those new scanners with built-in microprocessors really worth the money they're selling at?

-L.M., So. Plainfield, NJ

Well, I've used two models, one from Electra and one from Radio Shack. Both are great and well worth the money. It's interesting to note that microprocessor scanners add new dimensions for the action-band monitor or listener. The ability to search for new channels you did not know existed is remarkable. You can search, scan and/or monitor over 16,000 channels. Only yesterday, I discovered a monitor channel operated by a commuter railroad. I know when the 8:03 will be late. In fact, in discovering this frequency, I purchased a crystal for my pocket scanner and I keep the conductor informed as to why the train is late!

Best Tune There Is

When can I hear WWV and at what frequencies?

The U.S. Government station WWV broadcasts on 2.5, 5, 10, 15, 20, and 25 MHz continuously night and day, except for silent periods of approximately four minutes beginning 45 minutes after each hour. You can use these frequencies to calibrate, your shortwave receiver dial. WWV gives time signals, but the method and intervals vary from time to time. If you want to set your LCD watch or calibrate your signal generator, WWV is tops.

Maybe the Muffler

I used a bumper-mount with a half-wave stainless steel whip for the first time and the results were terrific—when the motor was off. With the motor on, I hear engine noises. This never happened when I used a trunk-mounted coil-loaded antenna! Why?

-J.S., Canby, OR

An automobile engine is a source of radio noise! The noise is radiated by the rods and pipes connected to the engine block, and the exhaust pipe is normally electrically insulated at the bumper end by a flexible hanger and thus becomes an ideal "antenna" for noise radiation. If the antenna is mounted directly above the exhaust pipe you have force fed a high level of static into the transceiver. One cure is to by-pass the exhaust hanger with electrically conducting braid to ground the end of the exhaust system. Also make sure that the bumper itself has a good ground.

Canadians Make It Easy

Hank, in case you didn't know, Radio Canada International QSL cards are supplied blank to SWLers. To obtain verification simply fill in the card, including some brief details about the content of the broadcast heard. Mail the card to RCI in an envelope and if all the details are correct, the card will be verified and returned to you. Cards with incorrect reception details will not be returned. To get your blank card and program guide, write to Radio Canada International, P.O. Box/C.P 6000, Montreal, Canada H3C 3A8.

—D.N., Walden, NY

Thanks for the tip. I'd like to point out that the QSL card is for RCI and not CBC Northern Service.

Shortwave Problem

About two months ago I sent for a QSL reply to Radio Havana, Cuba. I have not heard from them and I was wondering if they send replies? Also, thank you for all the DX and SWL information.

-G. P., Houston, TX

Yes, Radio Havana Cuba, like most of the major shortwave broadcasting stations, will QSL listener reports. But sometimes replies are delayed two or three months. Chances are you will have received your reply by the time you read this. If not, perhaps your report was misplaced or lost, either in the mails or at the station. Try another report. The address is Radio Havana Cuba, Box 7062, Havana, Cuba. For

COMMUNICATIONS WORLD 1979

information of all aspects of DXing, check out Don Jensen's DX Central column in ELEMENTARY ELECTRONICS magazine.

Ups and Downs, Ins and Outs

I have a shortwave receiver that acts a little funny. I don't know if it's normal or not, but the signal keeps fading and building up again. I have to keep turning up the volume when it's weak; and down, when it's strong. What's wrong?

-D.D., San Francisco, CA

A little reading on basic shortwave propagation will explain that shortwave signals do fade in and out causing the kind of reception you are experiencing. Receivers have an AGC (that's Automatic Gain Control) that works to prevent this from occurring. Some sets can turn the AGC off. See that the AGC (sometimes called AVC) is turned on, if it is switchable in your receiver. Extreme signal fading cannot be remedied by AGC and you will continue to hear fading of signals. That's what SWL is all about.

What the Hertz?

How can I use a frequency counter to indicate the frequency of the signal I am tuned to on my shortwave receiver?

-W.B., Minneapolis, MN

First, determine the frequency of your IF stages. Pass a CW signal through it and zero beat to a null on the audio. You'll find that it's almost 455 KHz or whatever. Next, couple the signal from the local oscillator via a gimmick capacitor to the connector and tune to a station. Zero beat the station to a null with the BFO on and read the frequency counter. Subtract the IF reading made earlier, and that is the frequency to which your receiver is tuned. I suspect it would be easy to develop an offset circuit that would subtract the IF amount internally so that the counter would be indicating the frequency of the received signal.

Lightning Struck

Last night there was a thunderstorm in my area. During the storm I was fooling around with antenna wires, hooking them up various ways, when a bolt of lightning hit the ground nearby. A strange thing happened—my VHF-HI police monitor was tuned to 154.83 MHz. For a few seconds the eadio pulled in a strong shortwave signal, (I know it was shortwave because it was a time signal) and then it faded out. I left the wire hooked up and it happened a couple more times. After the storm, I checked the radio and it was undamaged. Could you explain what happened?

-D.L., Ellington, CT

Yes, you were trying to kill yourself! Aside from that, I really don't know. Can any of our readers help out?

Frequency Asked

What frequency is used to determine the impedance of AC devices such as speakers, and audio and RF impedance matching transformers?

-M.H., Colorado City, AZ

COMMUNICATIONS WORLD 1979

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The frequency used is the frequency they're intended to be used at. You wouldn't use an audio signal to check out IF transformers. Audio devices are usually averaged over the human voice range 300 to 3000 Hz.

So Sorry

Hank, I love you. Can we get married? Enclosed is a stamped, self-addressed envelope.

-Ms T.W., Columbia, SC

I sure would like to answer your letter, but the rules are simple. Ol' Hank does not reply directly by mail even when an envelope is supplied. Next time I'm in Columbia, I'll wear a pink carnation in my lapel. Watch for me!!

Inland Pirate

There is a gentleman in Lexington, KY that broadcasts on the AM dial with a power of 3 watts and he does not require a license. As I would like to do the same, could you advise if this is legal? If so, is there a company that makes an oscillator or transmitter for this?

-A. B., Jeffersonville, IN

As the old saying goes, "See you in Jail!" your friend in Kentucky will soon be there because he does need a license to own and operate an AM radio station. In fact, he needs a license as an operator. I suggest you address all legal questions to the FCC in order to get the facts!

Build the REAL THING-Yourself!

Get top mileage from your own craft skills



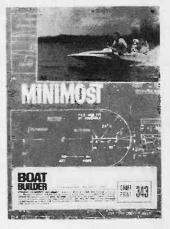
367. ROBIN is a versatile skiff that can be used for hunting or fishing, as a yacht club tender, or a work boat. It is rugged, yet its plywood construction makes it easy to build; no special jig or tools are needed. It can take a motor of 7-10 hp. L.O.A., 12'; beam, 5'1". \$5.00



75. KINGFISHER is a modern version of the Scandinavian pram developed hundreds of years ago. It rows easily, sails well, and propels nicely with a small outboard motor. Its 90 lb. weight and small size make it ideal to cartop; construction is plywood. L.O.A., 9'; beam, 4'. \$5.00

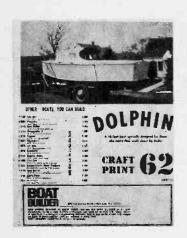


245. CAT'S PAW catamaran provides a stable base for a lot of sail area to make for fast sailing. And she's easy to build because of her straight-sided hulls, flat sheer, and straight bow and stern. It's an ideal boat in which to learn sailing. L.O.A., 12', beam, 6'2"; sail area, 85 sq. ft. \$6.00



343. MINIMOST is an 8' outboard sports hydro you can build in just 15 hours, and at a cost of less than \$25 for materials. Its advanced underhull design makes speeds in the 30 mph range possible with a 10 hp motor. L.O.A., 8'. \$5.00 Full-size pattern set 344

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62. DOLPHIN is small and light enough to be transported anywhere by trailer, yet it will accommodate two persons for extended cruising or a party of four on day trips. Plywood is used throughout, and the hull is designed to get the most from modest power. L.O.A., 16'; beam, 5'9". \$5.00



356. TABU gets up on plane, just like an outboard, to provide speeds up to four times higher than those possible with a conventional hull of the same size. Hull is of plywood, covered with resin and Dynel cloth. L.O.A., 16'; beam, 4'8'; draft, centerboard down, 2'6"; sail area, 165 sq. ft. \$5.00

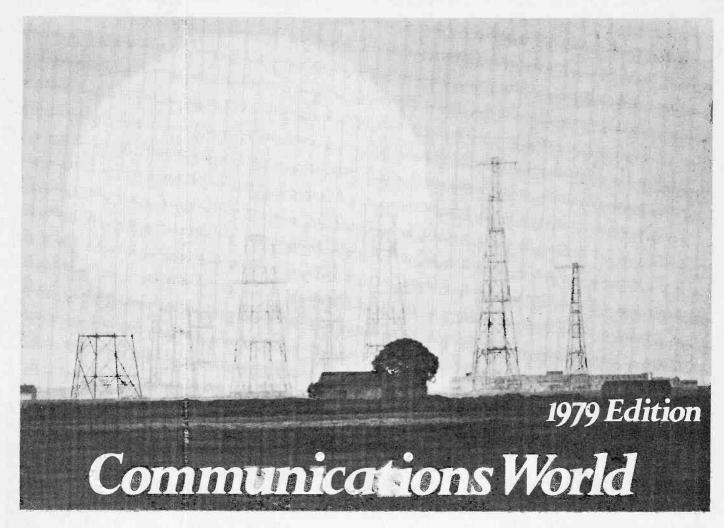


371. JAMAICAN is a sailing surfboard of unique construction. Fiberglass and Dynel cloth are stretched and stapled in place over a wooden framework, then resin is applied. No special building jigs or forms are needed. Foamedin-place polyurethane adds stiffness. LO.A., 12'; beam, 3'. \$5.00



36. CHUM is a speedy little runabout that can be built as a single cockpit or double cockpit model. Use a lightweight engine of no more than 100 hp for top performance. Construction is of marine plywood over hardwood frames. Decks are of mahogany-faced plywood. L.O.A., 15'6" \$5.00

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nay just be entering the Golden Age of SWLing!

"Oh yeah," you say skeptically, "what makes you think so?"

Well, I reply, I don't think you need a horoscope to read the signs. And those signs for the hobby of shortwave DXing seem to be pointing straight up!

You know, it wasn't too long ago that things didn't look so rosy for SWLs. Communications Cassandras were crying that the shortwaves were on their way out, to be replaced by such things as worldwide satellite-tohome television in the near future. DX listening seemed to be standing still, particularly when viewed in comparison with the stampede to Citizens Band communications. The shortwave receiver marketplace emptied out; it was darned hard for an SWL to find a decent receiver at a price he could afford. Longtime equipment manufacturers gave up on making SW rigs, and some just gave up, period.

But SWLing wasn't dead. You were out there. There were a lot of shortwave stations to be heard. And we were here. For years, COMMUNICA-

TIONS WORLD has been holding the candle aloft and repeating, "keep the faith, baby!" But, let's face it, SWLing just wasn't going anywhere very fast!

But then, just a couple of years ago, things slowly began to change. The world's communicators came to the realization that satellites weren't going to take over from HF (high frequency) radio; that there were many, many applications where from an economic standpoint, from a practical standpoint, shortwave radio just couldn't be topped, at least not for the forseeable future.

As the World Administrative Radio Conference – dubbed WARC '79 – scheduled to be held in Geneva, Switzerland later this year approached, it became increasingly evident that there was a great interest among nations large and small in shortwave communications. WARC '79 will iron out the basic shortwave frequency allocations that will apply until at least the year 2000! The way the broadcasting countries around the globe are already scrambling for position more than suggests that SW radio plays a large part in their plans for the next quarter of a

Outlined against the sky stand the towers supporting the transmitting antennas of West Germany's Deutsche Welle at the modern Wertachtal transmission station.

century!

Then there was a still not fully explained phenomenon that burst upon Japan just a couple of years ago. Suddenly, it seemed, a large proportion of Japan's youth discovered shortwave listening! Japanese SWLs numbered in the several millions. They began tuning the world's shortwave stations like crazy, began seeking QSL cards confirming their receptions. The growth of the hobby in the oriental country was almost cancerous in its development and speed. In retrospect, it probably was not a healthy way for the hobby to grow, and, in fact, the flame of interest burned itself out rather quickly in Japan.

But there was a very positive result for North American SWLs. The massive Japanese electronic manufacturing industry responded to the shortwave listening boom by marketing all sorts and types of SW receivers at a variety of popular prices.

When the heat generated by the listening hobby cooled across the Pacific, the Japanese receiver makers quickly turned their attention to the United States. Our own electronic phenomenon, CB mania, had leveled off. Perhaps SWLing's day had come.

And it seems that it has, but not with the consuming frenzy of the Japanese experience. Instead, we are seeing a steady upward movement in terms of SWL interest, a much more encouraging and healthy development!

Now the SW marketplace is loaded with receivers for shortwave listeners; rigs at all prices. For the first time in years, the listener has a truly wide choice of receivers he can afford. When was the last time you saw ads for an honest-to-goodness shortwave receiver in a general interest news magazine before 1978? When did you last see a real SW radio-sold as such-in a Sears Roebuck catalogue?

It wasn't long ago that DXers planning to buy a new SW receiver crossed their fingers and hoped that one of the few communications receiver makers would keep making sets long enough for them to save up the hefty purchase price. Now, because of a regular parade of new and upgraded receiver models, the prospective buyer has to give some thought to the question of whether the set he buys today will not, in some respects, be obsolete a year from now.

Yes, it could indeed be the Golden Age of SWLing.

A Look at SW Receivers. A radio receiver! Okay, I'd begin by saying the obvious. The one absolute essential for the shortwave listener is a radio! But which radio should you buy? That is the \$64,000 question!

It would be great if there was just one unchallanged answer to that key question. The listener's dilemma would be solved. I could write one short sentence: "Buy a Hatchiyoshika RQ-999!" I could forget about writing the next several pages of this magazine. All the competition would drop out of the market, the mythical RQ-999 could be cranked out of some Japanese factory by the hundreds of thousands, lowering the price per unit to rock bottom. Sounds like Henry Ford's automotive dream of the Century's early years.

But like Henry's vision of a universal auto, this dream is doomed to failure too. Not everyone wanted Ford's Model T, that came in any color you wanted, as long as you wanted basic black! There were those who thought that a Pierce-Arrow had more pizazz, or liked a Locomobile!

So there is no answer to the question, which receiver is best. It depends on who you are, what sort of listening you're into. Are you a program-listening SWL who really enjoys a certain set of regular shortwave stations? Are you a dyed-in-the-wool DXer chasing the weak, obscure signals? Do you want or need portability? There are a number of other factors that would individualize the answer to the question which is best, not the least of which is, how much can I afford to spend?

But even with receivers that are essentially similar on most counts, including price, there is the personal factor to consider. Some listeners will prefer a SONY, others a Drake or Yaesu, still others a Panasonic or some other brand name.

So you're not going to get an answer to the one big question here. Only you can make the decision as to which receiver is right for YOU. Hopefully, however, there are some basic points that you will consider in making your choice of receiver, be you a beginning listener or a veteran DXer.

If you have some issues of COMMU-NICATIONS WORLD from, say, 1971 or 1972, you'll note if you scan them today, that I had some advice about selecting a shortwave receiver.

I advised the readers of seven or eight years ago to consider what I called the "Three S's" of shortwave receiver performance: Stability, Sensitivity and Selectivity. I also noted that frequency readout, the business of tuning to a frequency you wanted and knowing with a good degree of certainty, that you were tuned to the spot you desired, was an important quality. But I also noted in those early editions of COMMUNICATIONS WORLD that accurate frequency readout was something that was too much to expect in a low or moderately priced radio.

Well, friends, things have changed!

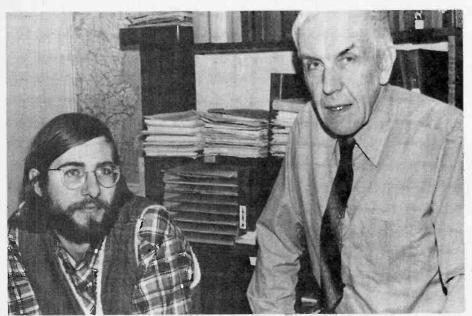
How they have changed!

Of the "Three S's", stability is no longer a factor worth considering because virtually all shortwave receivers are stable enough. Back in the days of vacuum tube receivers, it took a receiver some time-a half hour or more -to "warm up." During that warm up period, most sets were thermally unstable, that is, they would drift in frequency. It was constantly necessary to repeak the tuning until the receiver warmed up. Some receivers performed better in this regard than did others and it was a factor worth noting.

There are still a few tube type sets around on the used receiver market, but new rigs are solid state-transistorized-and they don't require a warm-up period. They generate no heat to cause thermal instability. They don't for all practical purposes, drift.

The second "S" has also gone out

the window, in most cases. Virtually all SW receivers, except perhaps the very inexpensive, have good sensitivity.



It was 30 years ago, in 1948, that the first English language edition of Radio Sweden's SWL program, "Sweden Calling DX'ers" went on the air. This weekly program was directed for nearly all of those three decades by Arne Skoog (right). When Arne stepped down, the fellow at left took his place as editor of the oldest continuing DX program. The voice you'll now hear when you tune this weekly program is that of George Wood.

ABBREVIATONS USED BY DXERS

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LOCAL TIME VS. GREENWICH TIME

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	Greenwich Mean Time	EDT	EST/CDT CST/MDT		MST/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.
l	1100	7 a.m.	6 a.m.	¹ 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.
ļ	1900	3 p.m.	2 p.m.	1 p.m.	Noon	11 a.m.
ľ	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.		5 p.m.	4 p.m.	3 p.m.

These days, if you spend \$100 or more for a receiver that tunes the shortwave frequencies, you're probably getting an amazingly sensitive set.

Sensitivity is, of course, the ability of the receiver to detect weak radio signals.

The one "S" quality in a receiver that remains important-critically important today-is selectivity, the ability of the set to separate signals in the crowded SW bands of the late 1970s.

And of importance in choosing a shortwave receiver is the type and accuracy of the set's frequency readout. Unlike the situation in 1971 and 1973, it is possible to get accurate readout of frequencies in popularly priced receivers. That fact may well be the one most



Allen Veeder, Moose Jaw, Sask., Canada, has been DX'ing for a year with a National HRO-5.

important reason that we are entering a Golden Age for shortwave listening!

For decades, actually since radio began, the biggest problem for SW listeners was in knowing to which frequency they were tuned. If you'wanted to tune a certain station, or if you tuned it yesterday and wanted to return today, you had to be able to dial your receiver to the right spot. And for decades that was a real skill that separated the experienced from the beginner. Now, even the novice listener can tune a set and know-on the button-the frequency to which he is tuned. That opens up a whole world of listening!

Reading Signals Right. Much of the guesswork is eliminated with accurate frequency readout. There are mechanical type readout systems accurate to the nearest 5 or 10 kilohertz. More refined mechanical systems bring accuracy down to about plus or minus 1 kilohertz. And now, sometimes at prices below \$200, there is the exotic, gorgeous, fantastic electronic digital readout, the little red LED numerals indicating the tuned frequency!

Digital readout is great, the frosting on the cake! And those little illuminated numbers that detail the exact frequency will sell an awful lot of shortwave receivers in the months and years

ahead.

But don't let the LED's blind you to the one critical "S" factor, selectivity, and its importance.

Selectivity means being able to bring in the wanted station but rejecting all, or at least most signals on adjoining frequencies. When stations are packed into a shortwave band like Norwegian sardines in a can, it takes a very selective receiver to separate signals. Poor selectivity in a set means that in a shortwave band, a few powerful signals will be audible and the rest of the band will be filled with a hash of interference and unreadable programs.

You can think of receiver selectivity as a gate that passes a signal or signals. Ideally, the gate will permit only one signal to pass through at a time. But in really crowded bands, this is rarely the case. The best you can hope for is that

SHORTWAVE EQUIPMENT MARKETPLACE

Barlow-Wadley, Radio International, P.O. Box 6053, Richardson, TX 75080

Collins Radio Group, Rockwell International, Cedar Rapids, IA 52406

R.L. Drake Company, 540 Richard St., Miamisburg, OH 45342

Gilfer Asssociates, Inc., P.O. Box 239, Park Ridge, NJ 07656

Lafayette Radio Electronics Corp., 111 Jericho Turnpike, Syosset, NY 11791

McKay Dymek Company, P.O. Box 5000, 111 S. College Avenue, Claremont, CA 91711

National Radio Company, 89 Washington Street, Melrose, MA 02176

Normende, Sterling High Fidelity Inc., 22-20 40th Avenue, Long Island City, NY 11101

Panasonic, Matsushita Electric Corp. of America, 1 Panasonic Way, Secaucus, NJ 07094

Radio Shack, 2617 West 7th Street, Ft. Worth, TX 76107

Radio West, 3417 Purer Road, Escondido, CA 92025

SONY Corp. of America, 9 West 57th Street, New York, NY 10019

Tandberg of America Inc., Labriola Court, Armonk, NY 10504

Teletron Data Corp., Box 84, Kings Park, NY 11754

Trio-Kenwood Communications Inc., 116 East Alondra, Gardenia, CA

Yaesu Musen USA, Inc., 15954 Downey Avenue, P.O. Box 498, Paramount, CA 90723

the gate is narrow enough to eliminate much of the side channel interference without being too narrow to make the desired radio signal unintelligible. But to some degree or another, usually you'll find some interfering stations crowding in from each side of the selected frequency. The better the receiver does this job, the better reception you will have of the more difficult-to-hear rare DX stations.

The intermediate frequency amplifier (IF) section of a receiver gives it selectivity. Receivers with double or even triple conversion, that is, with more than one IF section, do a better job with selectivity.

Filters of various types, crystal lattice, ceramic, mechanical, also improve selectivity by their abilities to pass desired signals while rejecting those unwanted interfering ones on either side

PHOTOS WANTED!

Would you like to see your photo in COM-MUNICATIONS WORLD? Okay, then, send us a nice clear photo of you and your DXing equipment. Any sharp photo will do, but we prefer to see you at your rig. Along with the photo, please tell a little about you and your DXing activities and interests. Also, please identify the make and type of the receiver and other equipment shown in the photograph. Sorry, we can't return photographs.

of the tuned frequency.

If a receiver passes easily signals 8 to 12 kHz wide, you may get a lot of side-channel "splash" when the signal you want to hear, tuned in the center of the passband, is not the strongest. However, when you've tuned in a powerful station with lots of wattage behind its signal, it will probably be easily heard even if the passband is quite wide. So, you see, the weaker the desired signal, the more crowded the band, the more you need a selective receiver.

Some dealers who operate by mail order, such as Gilfer Associates, Inc., Radio West and other firms, modify some of the popular receivers on the market with new filters which pass four kilohertz wide signals (at 6 decibels down), which improves selectivity considerably for the more serious DX-ing fan.

The Receiver Market. As I said, the prospective buyer of a shortwave receiver today has a very nice choice in many different price ranges, with various options.

Let's take a look at the marketplace, grouping the various receivers into seven different categories, by price.

In the under \$100 category you will find many receivers with many names, familiar and "house" brands, which I'll

call multi-band portables. Most of these sets are made in the Orient—Japan, Korea, Taiwan or Hong Kong. They are not manufactured or sold particularly for the shortwave fan. However, many of them include at least some of the short wave frequencies, such as between 4,000 and 12,000 kHz, along with the regular 540-1600 kHz AM radio band, FM and, often one or more of the VHF/UHF public service or police bands.

These sets will bring in some strong SW signals, but they are, almost invariably, without accurate frequency readout—it's hard to know the frequency you're tuning—and the selectivity is mediocre.

The beginner who finds he just cannot spend more than \$100 for a receiver may want to check out a pair of Radio Shack offerings which do well in their price category.

The DX40, priced at about \$50, covers a fairly large chunk of the shortwave spectrum, 4 to 22 MHz, plus AM and FM bands. It can operate from 120 house current, or using four "C" batteries. The receiver has tone and fine tuning controls and a built in whip antenna.

The DX60 receiver, also marketed under the Realistic name by Radio Shack, is similar to its little brother,

LANGUAGES OF THE WORLD

These are the major languages heard on shortwave and the countries in which they are the primary or a major language,

Arabic Algeria Bahrain Egypt Iraq Jordan Kuwait Lebanon Libya Morocco Qatar Saudi Arabia Southern Yemen Sudan ' Syria United Arab Emirates Zanzibar

English
Australia
Barbados
Bermuda
Canada
Fiji
Ghana
Gt. Britain
Guyana
Long Kong

Jamaica New Zealand Nigeria Philippines Seychelles Singapore United States Windward Islands

Afars and Isas

French

Algeria Belgium Burundi Cambodia Cameroun Cent. Af. Rep. Chad Comoro Is. Congo Dahomey (Benin) France Gabon Guadeloupe Guiana, Fr. Haiti Ivory Coast Laos Malagasy Rep.

Mali

Martinique Mauritania New Caledonia Reunion Is. Rwanda Senegal Tahiti . Upper Volta Zaire

Portuguese Angola Azores Cape Verde Is. Brazil Guinea (Bissau) Portugal Sao Tome

Spanish
Argentina
Bolivia
Canary Is.
Colombia
Costa Rica
Cuba
Dominican Rep.
Ecuador
El Salvador
Guatemala

Guinea, Equatorial Honduras Mexico Nicaragua Panama Paraguay Paru Philippines Spain Chile Venezuela Uruguay

German Germany, East Germany, West Austria Switzerland

Chinese China Hong Kong Singapore Taiwan Swahili Burundi Kenya Rwanda Somali Rep. Tanzania





loop circuitry and separate megahertz and kilohertz tuning dials that made direct frequency readout by a solid

but includes expanded frequency coverage, up to and including the 27 MHz citizens band. It sells for about \$70.

In the \$100 to \$200 price range there are three popular receivers. Two of them are in the "new school" of portables that came on the scene just a couple of years ago. The receivers are quite similar, the Panasonic RF2200 and the SONY ICF5900W. Because they offer direct frequency readout that is quite accurate-a mechanical rather than an electronic digital type-they are a major improvement over the less expensive receivers mentioned previously.

These two sets are priced "all over the block." One source lists the prices of the RF2200 and the ICF5900W at, around \$150. But, frankly, big city discount outlets are selling them in the under-\$125 bracket. And I've seen them available to members of certain "buyers clubs" for not very much more than \$100! The advice here, if you favor either of these portable receivers, is to shop around.

The third, and for years a very popular set, is the Radio Shack Realistic DX160. It sells for around \$170 and is a communications receiver of the older school, although it too is all solid state. It is not a portable, though it will also operate from 12 volts DC, as from an auto battery. It probably is superior to the portables in terms of selectivity, but its frequency readout is "old school" therefore it is tougher to pinpoint frequencies. Its coverage is from the long wave frequencies, 150-400 kHz, through the medium wave AM band, to 30 MHz shortwave. It has been a favorite of SWLs for a number of years, and doubtless will remain so for quite some time.



Mark Dishotsky of Brooklyn, NY has been DX'ing for several years. He has progressed from a SONY CRF-160 to a more modern CRF-330K receiver with 33-band coverage. Here he is with his equipment. Mark seems to have one of the city's better-equipped bedrooms.

THE INTERNATIONAL MORSE CODE

 ϕ means zero, often written with the "slash" to distinguish it from the letter "O". Often transmitted instead as one long dash, equivalent in length to five dots.

Α	•	M		Y	
	•			Z	
В		N	 •	_	
C		0		1	•
D		Ρ	••	2	• • • • • • • • • • • • • • • • • • • •
_	•	Q		3	•••
F	***	R	•_•	4	••••
G		S	•••	5	••••
Н	••••	•	_	6	
1		U	• • —	7	
	•	٧	•••-	8	
K		W	•	9	
L	0 mm 0 0	X	··································	ϕ	

Period •-•	Wait Sign (AS) •-•••	
Comma•-	Double dash (Break)	
Question mark •••	Error (Erase sign) ••••••	
Quotation mark •-••	Fraction bar (slash)	
Colon	End of message (AR) . ••-	
Semicolon	End of transmission (SK) •••	
Parenthesis	International Distress Signal (SOS)	

Next we move into the intermediate price grouping, \$200 to \$400. Here is the range in which the marketplace has seemingly exploded with new setswith more on the way according to reports.

There is, first of all, the Barlow-Wadley XCR30, a British-designed, South African built portable that started the new breed of accurate readout receivers in the early '70s. It was a unique design when it came on the scene, with its now famous Wadley

mechanical means a reality. Nominally we see a price of around \$280, but this has been discounted to around \$225 at times.

At about \$240 is the Nordmende Globemaster portable, a German make that is in the classic design, probably more geared to the casual listener interested in good tonal quality and a wide range of signals from longwave to FM, than in shortwave listening. However, some SWLs, especially in Europe, use this set to advantage.

FIXED CIRCUIT FREQUENCIES

The fixed circuit point-to-point stations are assigned by the International Telecommunications Union to a number of specific shortwave bands, some of which are shared with other types of services. The following bands are, theoretically, reserved for fixed circuit communications: (Frequencies in kHz)

4000-4063	9775-10000	15450-16460
5060-5450	10100-11175	17360-17700
5730-5950	11400-11700	18030-20000
6765-7000	11975-12330	21750-21850
7300-8195	13360-14000	22720-23200
9040-9500	14350-15000	24000-25000

And the following bands are shared with other types of radio services.

TOWING DUILES are shares	i with other types or rulio s	D. 11000.
1605-2065	4438-4650	25000-25600
2105-2850	4750-5060	26100-28000
3155-3400	21850-22000	29700-30000
3500-4000	23200-24000	

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- Industrial & Business Electronics · Digital Computer Electronics
 - · Electronic Technology
 - · Basic Electronics
- Small Engine Servicing · Basic and Master Courses
- **Electrical Appliance** Servicing - Choice of 3 courses
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COMMUNICATIONS WORLD



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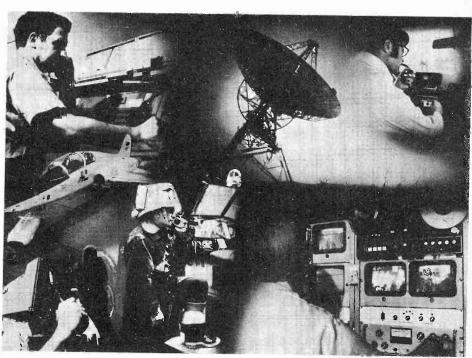
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There is the Kenwood R300, at about the same price, and the Lafayette BCR101, ditto, give or take a few bucks. Panasonic's RF2800 is an upgraded version of the RF2200. Its major attraction is that it offers electronic digital readout, probably the least expensive set to offer this feature on the market today. It is a portable set.

There are others in this price spectrum which have accurate mechanical type circuits and the Wadley circuit. Ranging from about \$275 to \$350 they are basically not portables (though they can be carted around without too much difficulty) but rather, communications receivers.

There is the very popular Yaesu FRG7, nicknamed the Frog-Seven. Drake offers its SSR1, dubbed Sir-One by DXers. And there is a newer entry in the market, Sanyo's RP8880.

Radio Shack has announced its new receiver, called the Realistic DX300, a communications type set with LED electronic digital readout. It sounds interesting, but at this writing none were available in the Radio Shack stores. The announced price is \$379.

A word of caution about the prices mentioned herein . . . there is great competition among manufacturers and dealers, especially with those sets in the price ranges already mentioned. So there are all sorts of discounted prices I've seen at various times, from various dealers. So consider those prices mentioned only ballpark figures; if you shop around you might find them a little more-due to inflationary trendsor, possibly, quite a bit less. Shop with care from a reliable dealer.

Also, the market is very volatile now. Look for some significant changes in coming months. There are, for instance, rumors circulating that Panasonic will be upgrading some receivers, and boosting prices, early in spring. And, undoubtedly there will be other new receivers going on the market that I

newer addition is Yaesu's FRG7000, an upgraded version of the Frog-Seven, but with electronic digital frequency readout for under \$600. About \$450 is where you'll find Panacommunications set, the RF4800, an improved and non-portable upgrading of the RF2800, which also has electronic digital readout. SONY falls in step with its ICF6800, a more recent addition to the field with much to recommend.

Now if you're John J. Gotzlotz, independently wealthy, or maybe if

FREQUENCY VS. WAVELENGTH

Many beginning SWLs are confused about the terms "frequency" and "wavelength." Both are ways of expressing the same essential information about where to tune for a station. Wavelength length (measured in meters) refers to the length of a particular radio wave. Frequency (measured in kilohertz or Megahertz—1,000 kHz) describes the number of times per second that the wave "vibrates." These are the formulas for converting one to the other.

haven't even heard of at this writing. Moving one notch upward we come to the high priced receivers, those cost-

ing between \$400 and \$650. The list, not surprisingly, is smaller, but it is growing in size.

There are the expensive portables, the Nordmende Globetrotter 808 and the Tandberg TR2025, at about \$600 each. One can say much the same for these models as for the Nordmende Globemaster-only more so!

you've carefully saved your dollars for a while to buy an ultra expensive DX machine, here are some super-priced

A California firm, Dymek, makes it DR22 model to sell for about \$900, and the DR33 at \$1,500. SONY has a mighty fancy many-band portable called the CRF-320 that sells for about \$1,700.

If that isn't rich enough for your blood, how about the over-\$2,000 receivers? There are Panasonic's RF8000, the Drake DSR2, National Radio's two entries, the HR0500 and HR0600 series, Japan Radio Corporation's "memory tuning" receiver, NRD505, and a pair by Collins Radio, the 51S1 and the 651S1. The latter's price tops the \$10,000 mark!

If you are interested in more data on these various receivers, see your dealers, or write to the manufacturers or sales representatives listed elsewhere in this issue of CW.

Look around, shop around, try 'em out to see for yourself which suits your needs and wants. Then plunk your money on the bar hombre, and take that DX machine home with you!

Antennas and Such. Once you get the set home, what then? Then it's time to consider the matter of anten-

Yes, the portable receivers mentioned above, almost without exception, have built-in whip type antennas. And surprisingly, they really do a remark-



Their voices are probably much more familiar than their faces to most SWLs. Clayton and Helen Howard produce the popular DX Partyline program heard over HCJB, Quito, Ecuador.

able job in bringing in the signals. But usually you'll find that, if it is possible for you to erect one where you live, an outdoor antenna will bring in more and better signals. And even those sets with their own whip antennas usually have a terminal or plug for attaching an external antenna or aerial.

For those of you who may have

"come over" from CBing, where 99 percent of the operators buy commercially made antennas rather than construct their own, the answer to your unspoken question is "yes, you can buy commercially made shortwave antennas." These usually are special purpose antennas designed for some particular situation.

An example? McKay Dymek Co. has its model DA100, which may be an answer for the person cramped for antenna space. It consists of an exterior module, a weatherproof box with a 56 inch whip, mounted outside. The signal is delivered by coaxial cable to a power supply unit near your receiver.

And there is the Slinky dipole, an

WORLD TIME BY COUNTRIES

To compute the time anywhere in the world, add (+) or subtract (-) the number of hours indicated to or from GMT. Figures in parentheses indicate daylight savings time during the particular country's summer months.

	•						
Afghanistan	$+4\frac{1}{2}$		Gambia	0		Poland	+1
Alaska	,		Germany	+1		Portugal	<u></u> 1
Juneau	8		Ghana	0 .		Qatar	+4
Anchorage	-10		Gilbert Is.	+12			+4
Aleutians	-11		Great Britain	+1		Reunion 1s.	+4
Albania	· +1		Greece	+2		Rhodesia	+2 +2 +2 +2 +9
Algeria	0		Guam ,	+10		Rumania	+2
Argentina	—4(—3)		Guatemala	6		Rwanda	+2
Ascension Is,	0		Haiti	— 5		Ryukyu Is.	+9 '
Australia			Hawaii	10		Sabah (Malaysia)	+8 +8
Eastern	+10		Holland	$+\tilde{1}$		Sarawak (Malaysia)	+ 8
Central	+91/2	4	Honduras	 5(6)		Senegal	0
Western	+8		Hong Kong	+8(+9)		Seychelles	+4 0
Austria -	+1		/Hungary	+1		Sierra Leone	<u>U</u>
Azores	1		Iceland	1(0)		Singapore	+71/2
Bahamas	-5		India	$+5\frac{1}{2}$		Solomon is.	+11
Bahrain	+ :4		Indonesia	1 0 / 2		Somali Rep.	+3
Belgium	+1		West	+7		South Africa	+2
Bermuda	4		Central	+8		Spain Sri Lanka	$+\bar{1}$ $+5\frac{1}{2}$
Bolivia	-4	•	East	+ 9		Sudan	+372
Botswana	+2		lran	$+3\frac{1}{2}$		Surinam	+2 -31/4
Brazil	A (A)		Iraq	+3		Sweden	-374 + 1
Eastern	-3(-2)		Israel	+2	•	Switzerland	+1
Central	-4(-3)		Italy	+1(+2)		Syria	+2(+3)
Western	-5(-4)		Ivory Coast	0		0,114	72(70)
Brunei Bulgaria	+8		J a pan	+9 +2		Tahiti	10
Burma	+2 +6½		Jordan	+2		Tanzania	+3 +7
Burundi	+0 <i>7</i> 2 +2		Kenya	+3 .		Thailand	+ 7
			Korea	· + 9		Togo	0
Cambodia	+7		Kuwait	+3		Tunisia	+1
Cameroun Canada	+1		Laes	⊥ 7		Turkey	+2
Atlantic	4(3)		Lebanon	+2 +33/4		Uganda	+3 0 -3
Eastern	5(4)		Liberia	+33/4	•	Upper Volta	0
Central	5(5)		Libya	+2		Uruguay	— 3
Mountain	-7(-6)		Luxembourg	+1			
Pacific	-8(-7)		Malagasy Rep.	∔ 3		USA	F/ 4)
Yukon	<u>-9(-8)</u>	1	Malawi	+2		Eastern	—5(—4)
Canary Is.	0		Malaysia	±7½		Central Mountain	—6(—5) —7(—6)
Cape Verde Is.	-2		Maldive Is. 🖫	$+5\frac{1}{2}$		Pacific	/(6) 8(7)
Cent. Afr. Rep.	$+\bar{1}$		Mali	0 .		racinc	o(/)
Chad	+1		Mauritania	0		USSR	
Chile	_4		Mauritius	-+-4		Moscow	+3
China			Martinique	-4		Baku ·	<u> </u>
West	+6		Mexico	6		Sverdiovsk	+4 +5
East	+8		Monaco	+1		Tashkent	- 16
Colombia	_5 -5		Mongolia	+8		Novosibirsk	+6 +7
Cook Is. Costa Rica	$-10\frac{1}{6}$		Morocco Mozambique	+2		Irkutsk	-∔8
Cuba Cuba	6 5		•	+4		Yakutsk	∔ 9
Cuba Cyprus	5 +2		Nepal Noth Antilles	+5.40		Khabarovsk	+10
Czechoslovakia	+2 +1		Neth. Antilles New Caledonia	-4		Magadan	+11
Dahomey (Benin)	T 1		New Guinea	$^{+11}_{+10}$		Petropavlovsk	+12
	+1		New Hebrides	+10 +11		Anadyr	+13
Denmark	+1		New Zealand	+11 +12		Vatican	1
Ecuador	-5 + 2(+ 2)		Nicaragua	-6		Venezuela	$^{+1}_{-4}$
Egypt El Salvador	$+\frac{2}{6}(+3)$		Niger	_0 +1		Vietnam	+7
Ethiopia	-6 +3		Nigeria	+i		Windward Is.	-4
синоріа	+3		Norway	+1		Yemen	
Falkland Is.	4(3)		Pakistan	-T-+		Yugoslavia	+3 +1
Fiji Is.	+12		Panama	+5 -5		-	+1
Finland	+2		Paraguay	—5 —4		Zaire	. 1
France	+2 +1		Peru	_4 _5		West East	+1
Gabon	+1		Philippines	—3 +8		Zambia	$^{+1}_{+2}_{+2}$
				, •		Edition	T-6



antenna that looks like those spring toys that walk down stairs. It is helically loaded, enabling the effective electrical length to be as much as five times the actual physical length of the dipole. Thus, this antenna made by Teletron Data Corp., is another favorite among those with limited outdoor space, or those who are seeking an antenna which is portable-easily taken down and put up.

Gilfer Associates Inc., markets a number of different antennas, including the Datong Active Antenna. Compact, wideband, it is for the listener who needs an indoor antenna with "gain," added signal strength.

Gilfer also has other antennas and couplers designed for shortwave reception. There is the RAK Listener 7, an outdoor active antenna which operates on a principal similar to the DA100 mentioned above. There is the RAK Listener 1 for limited outdoor space applications, and the "Double Dipole" RAK 3.

The antenna-any antenna-has an important job to do. Its job is to receive the electromagnetic energy transmitted by radio stations and deliver it to your receiver, where it can be changed into audio signals you can hear.

For the listener who likes to experiment but doesn't have too much cash, the antenna is a great place to start. For in its simplest form, the antenna or aerial is a piece of wire, isolated from the ground, attached at one end to the receiver with the other end as high above the earth as possible.

To construct your own antenna for



Sally Kase of Flushing, N.Y. is an avid CB'er, while her husband chases SW DX with a Zenith Transoceanic. Sally also wonders about the dearth of lady RF activists. OK, Sally, Kase klosed.

shortwave listening, you'll need a few easy-to-get components - some wire, copper or some other good electrical conductor, solid or braided; some nonconductive glass or ceramic insulators; a length of insulated lead-in wire and a lightning arrestor. Your local hardware or television store should have everything you need.

There are a lot of complicated theories involved in antenna design, but you can come up with a good, workable antenna even if you don't know a standing wave from a seated sailor! Frankly, it is an area of electronic experimentation where you just can't do any real harm by being technically ignorant-assuming you follow the common sense rules like not allowing your antenna to cross over power lines, and other bits of safety wisdom. Play around with home-brew aerials, if you wish, until you find one that works for

If you want to get involved in theory, there are some books such as Edward Noll's "SWL Antenna Constuction Projects" (a Howard Sams Publication, available at many stores dealing in amateur radio products or major book dealers) that can give you a

PHONETIC ALPHABET

To prevent confusion with letters which sound similar, especially under difficult reception conditions-such as A, J, K or B, P and V-the military has adopted an alphabetical word system. In use, for example, an Army communications station such as AAE60 would usually announce as "Alfa-Alfa-Echo-Six-Zero." Here is the standardized military phonetic alphabet:

N == November
, 0 = 0scar
P == Papa
$\mathtt{Q} = \mathtt{Quebec}$
R = Romeo
S = Sierra
T = Tango
U == Uniform
V == Victor
W = Whiskey
√X = X-ray
Y == Yankee
z = Zulu

For starters, however, here are a few relatively simple wire antennas you can build easily and with little cost.

Longwires. Technically, most simple wire type antennas used by DX listeners are not really longwire antennasthey aren't really long enough for such a designation. Still, that's what most listeners call these random length wire antennas anyway. And probably more SWLs use a so-called longwire than any other type of antenna.

The receiving portion of this is usually called the flat top and may be of any convenient length, usually at least

CITY	VH	F	10	IF
San Francisco, CA	154.28	154.43		
Seattle, WA	154.19	154.25	453.70	453.80
	154.34		•	
Portland, OR	154.25	154.28	460.525	460.550
or traina, or t			460.575	
Columbus, OH	153.77	154.31		
Salt Lake City, UT	154.31	154.34		
our came orty, or	154.43		,	
Atlanta, GA	153.89	154.19	460.600	460.625
Denver, CO	153.77	154.31		
Chicago, IL	153.83	153.95		
·····	154.01	154.13		
Houston, TX	153.89	154.16		
,	154.28			
Little Rock, AR	153.95		,	
Kansas City, MO	154.01	154.13	458.10	462.95
	154.28		•	
New Orleans, LA	154.235	154.37	453.15	460.575
<i>'</i>			460.600	460.625
Dallas, TX	153.89	154.07	·	
,	154.22			
Pittsburgh, PA	154.13	154.445		
New York, NY	153.77	153.89	460.525	460.575
•	153.95	154.01	460.625	460.675
	154.07	154.19		
Los Angeles, CA	33.48	33.53	506.3125	506.6375
<u> </u>	•		507.0125	
Cleveland, OH	153.89	153.93		
•	153.95			
Washington, DC	154.19	154.205		
	154.235	*		
Baltimore, MD	154.07	154.31		
Philadelphia, PA	153.89 154.01	153.95		

THE SINPO CODE

☐ The SINPO code is often used by SWLs in reporting conditions of reception to the major international broadcasters. The chart below indicates the values, in terms of reception quality, assigned to each number in the code. A station with good signal strength, moderate interference and atmospheric noise, slight propagational disturbances, or fading, and a good overall signal quality, would be designated SINPO 54454.

Signal Strength	Interference	Atmospheric Noise	Propagation disturbance	Overall Merit
S	I	N		0
5-Excellent	5-None	5—None	5—None	5—Excellent
4-Good	4-Slight	4—Slight	4—Slight	4—Good
3-Fair	3-Moderate	3—Moderate	3—Moderate	3—Fair
2-Poor	2-Severe	2—Severe	2—Severe	2—Poor
1-Barely audible	1-Extreme	1—Extreme	1—Extreme	1—Unusable

20 feet and not more than about 150 feet. The length is very often determined by existing supporting structures or the location of trees in your yard. An antenna tuner—of which there are some commercial models available or which can be easily built from plans often appearing in popular electronic hobby magazines such as ELEMENTARY ELECTRONICS — may help "tune'" the random wire antenna for optimum performance on various frequencies.

The antenna flat top should be as high above the ground as possible and should be insulated at both ends—not touching any object which will short it to ground. Preferably it should be located away from such electrical interference as power lines and busy streets. Auto ignition systems cause electrical noises in radios.

Soldered at one end of the longwire should be the lead-in, an insulated wire long enough to reach the receiver. The reason for the lead-in's insulation is, as with the flat top portion, to prevent the antenna from being shorted out.

The horizontal flat top, end-fed at right angles by the lead-in, looks like an upside-down "L." As a result, this type of skywire is sometimes called an Inverted L.

Two other antennas are related to the Inverted L. They are the T antenna and the Windom.

The "T" is really no different from the preceeding antenna, except instead of being end-fed, the lead-in is attached at the center. The reason for choosing a "T" over an Inverted L is purely practical. You may choose a "T" if the available supporting points for the antenna, convenient high points around your home such as the house itself, a garage roof, a pole, a tower, a tree, are located advantageously. You'll quickly discover that the shape of your yard or the locations of trees suitable for supporting the aerial are often critical design factors.

Similar to the T is the Windom antenna. Unlike either of the previously described antennas, the Windom works best on the particular frequency band for which it was designed.

Determine the center frequency of the band you tune most. If for example, it is the 31 meter band, base your computations on a frequency somewhere in the middle of the band, say 9,600 kilohertz (9.6 MHz). Use it in the following formula in which L stands for the length of the Windom's flat top portion:

$$L = \frac{468}{\text{Freq. in MHz}}$$

The flat top's length should be 468 divided by 9.6, or about 48% feet. Forty-eigth feet, for all practical purposes, is close enough—and easy to work with.

Install the Windom as you would a T antenna, only attach the lead-in not at the midpoint of the flat-top, but at a point one-third of the way from the end nearest your receiver, 16 feet in this case.

The Windom will work on other shortwave bands, but will get optimum results on the 31 meter SW band.

There is another type of wire antenna that is popular with SWLs—the dipole or doublet. At first glance it appears similar to the longwire T antenna, but there is an essential difference.

A dipole consists of two identical lengths of wire, separated from each other in the center by an insulator. It is fed by twin-wire lead-in, 75 ohm transmission line available at most ham radio supply stores. One half of the twinlead is attached to each segment of the dipole. The other end of the lead-in is similarly split, with each wire connected to one of the receiver's two antenna terminals. (Some receivers are not equipped with two terminals to handle a "balanced" antenna lead. Check your receiver before you take the time and effort of erecting a dipole.)

Unlike the random length wire antenna, which operates reasonably well over a wide range of frequencies, a dipole is designed for optimum performance on a specific shortwave band. If you plan on tuning a number of shortwave bands regularly, you may wish to construct several dipole antennas, one for each band. Furthermore, directionality is somewhat more important with a dipole, which tends to best receive those signals which approach from right angles to its length.

The formula for determining the length of the dipole's two top elements

SPANISH ABCs

Many Latin American stations use slogans, rather than call letters, for identification. Some—particularly the Mexican medium wave outlets—also refer to call letters, in full or in part. To help you identify these stations, here is the way the Spanish spoken letters and numbers sound.

A == ahG = hehN = EH-neh U = ooB == behH = AH-cheh O = ohV= veh C = sehl = eeP = pehW = DOH-bleh-veh D = dehJ = HOH-tah Q = kooX = EH-kees E = ehK == kahR = EH-reh Y = ee-gree-EH-gah F = EH-feh L == EH-leh S = EH-seh Z = SEH-tah M = EH-meh T = téh



L (length of each element) = 234 Freq. in MHz

For a 31 meter dipole, again let's use the 9.6 MHz figure. Plug the number into the formula and: 234 4divided by 9.6 = approximately 24 feet.

An improved version of the doublet \ is the folded dipole. The overall length of the flat top portion is computed using the same formula as for the Windom:

$$L = \frac{468}{\text{Freq. in MHz}}$$

At the midpoint of the standard 300 ohm television lead-in wire, used in this case to construct the flat top portion, one (and only one) of the two wires should be cut. Another length of 300 ohm TV lead should be used for the antenna lead-in, one wire attached to each side of the "cut" in the flat top. The two wires of the flat top should be connected at each end.

Again, as with the simple dipole, a receiver which can handle a balanced lead-in, with two antenna terminal connectors, is required.

The folded dipole has an additional advantage to the builder. In most cases the standard 300-ohm TV wire is easier to locate than is 75 ohm.

Yet another basic shortwave antenna is the vertical. It is particularly useful where horizontal space is at a premium. A pipe, insulated from ground, may make a suitable vertical antenna. The classic "whip" is essentially a vertical.

Here's a tip for apartment dwellers: A temporary vertical antenna can be created by dropping a length of insulated wire from your window, letting it hang down several stories-at least until the landlord or the tenants below get curious!



J. P. Kana of Atlanta, GA has been a DX'er for 20 years. He's QSL'ed the Congo and the Windward Islands' Radio Grenada.

Tuning Around. Many of you readers have been listening to shortwave programming for months or years. But we know also that a large number of you have just become interested in SWLing, and are reading your first issue of CW.

And for those of you in that sizable category, the next question, after you have your receiver and antenna set up is "where should I tune and what can I hear?"

Most, but not all shortwave broadcasting stations, can be found in a dozen different frequency, bands in the shortwave spectrum, which by DXer definition runs from just above the AM medium wave band to the point where the very high frequencies (VHF) begin -about 1,605 to 30,000 kilohertz.

Each of these bands is only a couple of hundred kilohertz wide. On one hand it is an advantage to have all, or most of the stations grouped together in bands where you can readily find them. But that situation presents a major disadvantage too. With several thousand SW broadcasting stations around the world packed into these relatively small frequency bands, interference is a real

Not all broadcasters operate in the internationally recognized SWBC bands. For many years it was mostly the So-

SWBC	BANDS AND FREQUENCIES
Band	kHz
120 meter	2300-2500
90 meter	3200-3400
75 meter	3900-4000
	4750-5060
49 meter	5950-6200
	7100-7300
31 meter	9500-9775
	11700-11975

viet, Chinese and North Korean stations that operated in significant numbers outside the established bands. And, ves, there also were some Latin American outlets that, it seems, didn't worry too much about where they operated. But in the past couple of years, more of the large western stations chose to operate on some out-of-band frequencies on shortwave. Their decisions may have been made to escape heavy interference within the SW bands. Some, however, saw it as a ploy to dramatize a need for more broadcasting space when an international frequency conference considers frequency allocations later this year.

Starting at the top end of the shortwaves, the first two shortwave broadcasting bands are the 11 Meter (25,-600 to 26,100 kiloherzt) and the 13 Meter Band (21,450 to 21,750 kHz).

There still is a real lack of activity

WHERE TO DX FOR WHAT

There are three very broad categories of stations. There are the broadcast stations, which air progams of infomation, entertainment and music to general audiences. Then there are the radio amateurs, hobbyists who operate in two-way communication on the shortwave and higher frequencies. Everything else falls into a grab bag called utility communications, which cover the whole range of services from longwave ship-to-shore to aeronautical VHF signals, pointto-point transatlantic phone calls to radioteleprinters, to name but a few types.

to posite trained	The state of the s	**	
kHz	Type of DX	kHz	Type of DX
Below 540	Utility, broadcast	10000-11700	Utility
540-1605	Broadcast	11700-11975	Broadcast
1605-1800	Utility	11975-14000	Utility
1800-2065	Amateur, utility	14000-14350	Amateur
2065-2300	Utility	14350-15100	Utility
2300-2500	Broadcast, utility	15100-15450	Broadcast
2500-3200	Utility	15450-17700	Utility
3200-3400	Broadcast, utility	17700-17900	Broadcast
3400-3500	Utility	17900-21000	Utility
3500-3900	Amateur, utility	21000-21450	Amateur
3900-4000	Amateur, Broadcast, utility	21450-21750	Broadcast
4000-4750	Utility	21750-25600	Utility
4750-5060	Broadcast	25600-26100	Broadcast
5060-5950	Utility	26100-26960	Utility
5950-6200	Broadcast	26960-27230	Amateur, CB
6200-7000	Utility	27230-28000	Utility
7000-7100	Amateur	28000-29700	Amateur
7100-7300	Amateur, broadcast	29700-30000	Utility
7300-9500	Utility	Above 30000	Utility, amateur,
9500-9775	Broadcast		broadcast (TV, FM)
9775-10000	Broadcast, utility		

on the highest band, 11 Meters. But as the number of sunspots—the violent eruptions on the surface of the sun that have a very real effect on high frequency reception—increases in the next year or so, look for radio-activity way up there.

Thirteen meters is turning up some broadcasting activity, and like "11," it will continue to pick up as the sunspot maxima approaches during the current cycle. Even in the best of times, however, these frequencies are for SWLing during the daylight hours.

The next pair of SW bands included the 16 Meter Band (17,700 to 17,900 kHz) and the 19 Meter Band (15,100 to 15,450 kHz). Again, these are daylight bands, the places to tune for the major international broadcasters whose signals are reaching you mostly over a daylight path between station and listener. You'll find a lot of broadcasting activity on 19 Meters; somewhat less on 16 Meters.

When it comes to the biggie broadcasters, the large international stations on shortwave, those located in Europe, Africa and Asia especially, the two bands most in use are the 25 Meter Band (11,700 to 11,975 kHz) and the 31 Meter Band (9,500 to 9,750 kHz).

Twenty-five meters is something of a transitional band. Reception is possible during your afternoon and evening hours, both in daylight and darkness. During the evening hours in North America, 31 meters is perhaps the best spot to look for English language transmissions from many countries. Many of these programs are directed specifically to listeners in the United States and Canada.

Next down the line are the 41 Meter Band (7,100 to 7,300 kHz) and the 49 Meter Band (5,950 to 6,200 kHz). At least part of the 41 Meter Band is shared with 40 Meter amateur radio operators in this hemisphere. This joint use of the frequencies can, and often does, create mutual interference.

Forty-nine Meters is one of the most crowded bands in the shortwave spectrum, since it is used by both the powerful international broadcasters and by countless local type shortwave radio stations in Latin America, Africa and elsewhere in the world.

While a few stations may be audible for a while in the post-dawn period, and late in the afternoon, these two shortwave bands produce the most signals during nightime. From dusk to dawn, the bands, especially "49," come alive!

The same thing is true of our last, four shortwave bands, which are call-

ed, collectively, the Tropical Bands. These are the 60 Meter Band (4,750 to 5,060 kHz), the 75 Meter Band (3,900 to 4,000 kHz), the 90 Meter Band (3,200 to 3,400 kHz), and the 120 Meter Band (2,300 to 2,495 kHz).

These bands get their joint name because most of the signals you'll hear on these frequencies come from domestic government or commercial SW stations in the Tropical regions, where programs are aimed at home audiences, rather than listeners abroad. There is some English language programming to be heard on the Tropical Bands, but

you're more apt to hear programs in Spanish, Portuguese, French and the languages of Africa and Asia.

These Tropical Bands are almost exclusively nightime listening spots. On such low shortwave frequencies, the path between the station and the listener should be mostly in darkness. These bands will "open" up a couple of hours before the sun sets, for stations to the east—such as those from West Africa. They will remain active through the night hours and will hold up for stations to the west, in Asia and the Pacific region, until shortly after dawn

TUNING THE POINT-TO-POINT

This is a colocted list of f	THE PARTY AND ADDRESS.	 white decomposition

Country	Station Ownership	Freq. (KHz)
Afars & Issa	PTT Service Radioelectrique	17,610, 19,545
Albania	Ministry of Communications	7,790, 7,850
Algeria	Ministry of PT	7,885, 16,165
Australia	Australian Overseas Telecommunications	·8,789.5, 10,420
Austria	Austrian Post and Telegraph	6,787, 13,848
Bahamas	Bahamas Govt. Telecommunications	4,825, 6,838
Barbados	Cable and Wireless W. I. Ltd.	10,115, 16,072.5
Belgium	Brussels Post, Telephone and Telegraph	7,927, 14,360
Brazil	EMB R ATEL	11,670, 16,340
Burma	Posts and Telegraph Dept.	20,460
Cameroun	Int. Telecom. of Cameroun	7,870, 15,832
Canada .	Canadian Overseas Telecom. Corp.	12,265, 13,745
Canary Islands	Compania Telefonos Nac. Espana	10,690,13,560
Central Af. Rep.	France Cables et Radio	11,160,15,530
Ceylon	Overseas Telecom. Service	9,050,10,485
Chad	France Cables et Radio	11,608, 14,747
Chile	ENTEL	13,520, 15,640
Denmark	Director General of Post & Telegraph	7,652, 11,460
Ecuador	, Empressa Nac. de Telecommunicationes	15,610
Falkland Is.	Cable and Wireless Ltd.	24,145
Gambia	Cable and Wireless Ltd.	13,797
Germany, West	Deutsche Bundespost	10,850, 16,430
Guam	RCA Global Communications	10,621
Honduras	Tropical Radio Telegraph	6,905, 11,190
Hungary	Minister of Pósts	6,390
Iraq	Director Gen. of Postes, Telegraphs	18,898
Italy	Italia Cable	10,135, 16,395
Ivory Coast	Soc. Telecom. Int. de la Cote d'Ivoire	12,115, 16,380
Jamaica	Jamaica Int. Telecom. Ltd.	5,205, 9,396
Japan	Kokusai Denshin Denwa Ltd.	10,660, 15,700
Kenya	East Af. External Te ^l ecom. Co.	10,730, 15,547
Kuwait	Kuwait PTT	· 7,699, 11,576
Lebanon	Societe Radio Orient	8,090, 13,445
Liberia	Liberian Telecomm. Adm.	10,730, 13,935
Martinique	French Telecomm. Service	17,565
Mexico	Mexican Post, Telephone, Telegraph	7,350
Netherlands	Netherlands Post and Telecomm.	8,160, 14,500
New Zealand	New Zealand Post Office	18,770, 20,725
Nicaragua	Tropical Radio Telegraph	5,735
Pakistan	Pakistan Telephone and Telegraph	20,936
Rhodesia	Rhodesian Post Office	18,690
Saudi Arabia	Ministry of Communications	9,867,11,417
Senegal	France Cables et Radio	20,327
Sierra Leone	Sierra Leone Telecommunications	17,655
South Africa	South African Post Office	6,770, 9,048
Spain	Compania Telefonos Nac. Espana	10,120, 19,030
Sweden	Swedish Telecommunications	16,052, 22,930
Switzerland	Swiss Telephone and Telegraph	19,585
U.S.S.R.,	Ministry of Communications	13,710, 16,325
Zambia	Post Office Telecommunications	20,261



where you live.

Sixty Meters is a very active band during the evening hours; and 90 Meters is only somewhat less active in terms of the number of stations to be heard. These are the bands that veteran DX listeners favor. But frankly, because of the limited English programming, weaker signals, heavier interference, they will present tougher listening for newcomers to the listening hobby.

Like "41" the 75 Meter Band is shared in part with radio amateur operators. This makes for interference problems at times. This band doesn't really have too many shortwave broadcasting stations, but those that do use these frequencies tend to be exotic catches, Greenland and Pacific area stations, for example.

The 120 Meter Band often seems just dead! Indeed, here on the lowest of the shortwave broadcasting bands, there are not too many stations operating. And conditions are often not conducive to long haul reception. But you may find some Latin American (especially Brazilian and Guatemalan) stations operating here, as well as some

There are many thousands of people out there in "radioland" who enjoy listening to stations on these dozen SW broadcasting bands.

DXer or SWL? Initially, almost everyone who tunes a shortwave receiver is intrigued and fascinated by the opportunity to hear a radio signal from some far-off spot, such as Australia or China or South Africa. The "far-away" aspect does provide much of the "kick" in the listening hobby. But many listeners quickly find themselves hooked on the programs, often programming much



Joy Cronin has a complaint. How come we rarely show pics of female DX'ers? That's because you ladies haven't been sending them in! How about some distaff QSLs?

different than what we hear on our everyday AM radios. These listeners find that there are some excellent and entertaining shows to be heard on shortwave stations. These persons find their favorite SW programs and listen to them regularly.

Generally speaking, these listeners are called SWLs, shortwave listeners who find their main enjoyment in the

DX CLUBS YOU CAN JOIN

One of the best ways of learning all about DXing and keeping up to date on the changing world of DX is to join one or more of the fine DXing clubs. The following clubs are affiliated with the Association of North American Radio Clubs (557 North Madison Avenue, Pasadena, CA 91101). In addition to the 11 affiliated clubs in North America, which cover one or several aspects of the DX hobby, there are seven associate member clubs which are regional in nature, or serve some smaller or specialized interest.

ANARC MEMBER CLUBS

American Shortwave Listeners Club (ASWLC). 16182 Ballad Lane, Huntington Beach, CA 92649.

Founded in 1964. For beginners and advanced DXers. Covers shortwave and utility or non-broadcast type DXing, including worldwide station data, QSL news, time index, receiver reviews. Monthly offset news bulletin, "SWL." Dues: \$13 per year. Sample bulletin copy, \$1.

Canadian International DX Radio Club (CIDX). 169 Grandview Ave., Winnipeg, Manitoba, R26 OL4, Canada.

Founded 1962. All bands, SW, MW, utilities, FM-TV, CB, amateur. Monthly mimeographed bulletin, CIDX Messenger. Dues: \$9 first class mail, \$7.50 third class. Sample bulletin copy, 25 cents. U.S. members to remit by international bank or money order, payable in Canadian funds.

International Radio Club of America (IRCA). P.O. Box 26254, San Francisco, CA 94126.

Founded in 1964. Medium wave broadcast band coverage only. Printed newsletter. DX Monitor, published 34 times a year; weekly during winter DX season. Worldwide roundup of medium wave information, special features, U.S. and Canadian station data, flash tips. Dues: \$12 per year. Sample bulletin copy 50 cents.

National Radio Club (NRC). P.O. Box 118, Poquonock, CT 06064 (membership center).

Founded in 1933. Covers medium wave BCB only. Printed magazine, DX News, issued 30 times a year, weekly in season. Technical articles, full coverage of international and domestic BCB logging and station information, receiver reviews, members musings/comments, data on test broadcasts. Dues: \$15 per year. Sample bulletin copy is 50 cents. NRC club headquarters is at P.O. Box 32125, Louisville, KY 40232.

Newark News Radio Club (NNRC). P.O. Box 539, Newark, NJ 07101. Founded in 1927. Pioneer all-band DX club in North America, covering SW, MW, QSLs, utilities, FM, TV, CB, ham. Monthly printed bulletin, NNRC Bulletin. Dues: \$15 via first class mail; \$12 via third class. Sample bulletin copy, \$1.

North American Shortwave Association (NASWA). P.O. Box 13, Liberty, IN

Founded in 1961. Covers shortwave broadcast exclusively. Detailed coverage of shortwave with log reports, worldwide technical articles, DX hot tips in mid-month Update flyer, QSL data, station information, etc. Monthly printed magazine, Frendx. Dues: \$13 per year. Sample bulletin

Ontario DX Association (ODXA). Apt. 1910, 1202 York Mills Road, Don Mills, Ontario M3A 1Y2, Canada.

Founded in 1974. Membership limited to DXers living in Ontario. Covers SW and medium wave BCB only. Monthly mimeoed bulletin, DX Ontario. Dues: Adults, \$11 per year, students, \$8 per year. Sample bulletin copy

Radio Communications Monitoring Association (RCMA). P.O. Box 4563, Anaheim, CA 92803.

Founded in 1975. Specialized radio club for DXers interested in listening to non-skip, two-way communications in the VHF-UHF public service and aircraft bands, including police, fire, marine, air, and weather bands. Monthly printed bulletin, R.C.M.A. Dues: \$6 per year. For sample bulletin copy, send large size, self-addressed envelope with stamp affixed for reply.

program content of the stations they hear.

There are others, however, who find that their real thrills continue to be linked, at least in part, to the "far away, far out" aspect of listening. They love the challenge of continually hearing new and previously unlogged stations from as many countries of the world as they can. For these hobbyists, the attraction is less in the program content than in the challenge of bringing in new and exotic stations, the continuing quest for something not heard be-

SpeeDX. P.O. Box E, Elsinore, CA 02330.

Founded in 1971. Specializes in shortwave and utility DXing, technical topics, receiver and equipment reviews, log listings, station information, QSL data. Monthly offset printed magazine, SpeeDX, plus mid-month SpeeDX-GRAM. Dues: \$12 per year. Sample bulletin copy, \$1.

United World Radio DX Club (WRDXC). P.O. Box 1075, Elizabethton, TN 37643.

Founded in 1975. Covers shortwave, BCB MW, utilities, and amateur radio. Has two bulletins. United World DXtra (bi-monthly) and DX-o-Gram (monthly). Dues include both publications: \$10 per year. Sample copy, \$1.

Worldwide TV-FM DX Association (WTFDA). P.O. Box 202, Whiting, IN 46394. Founded in 1967. North America's only UHF/VHF club specializing in FM and TV DXing. Technical articles, U.S. and Canadian FM and TV logs and data, QSL corner, photos of TV DX patterns, worldwide reports. Monthly printed bulletin, UHF-VHF Digest. Dues: \$11 per year. Sample copy, \$1.

ANARC ASSOCIATE CLUBS

Association of Illinois DXers. P.O. Box 95073, Schaumburg, IL 60195. Founded in 1976; formerly the Woodfield International DX Club. Regional club. Monthly bulletin, AIDX Journal. Dues: Chicago area, \$2 per year; elsewhere in Illinois, \$3. Sample copy, send large sized self-addressed, stamped envelope.

Brooklyn DX Club (BDXC). c/o David Snyder, 1137 East 12th St., Brooklyn, N.Y. 11230.

Founded in 1975. Covers English language SW broadcasts. Monthly bulletin, E.L.B. Dues: local members, \$3.50 per year, elsewhere in North America, \$5. Sample copy, 50 cents.

Handicapped Aid Program (HAP). c/o Wayne A. Davis, 27 Cleveland Avenue, Trenton, NJ 08609; Canadian Handicapped Aid Program (CHAP). c/o Bill Dulmage, Rt. 3, Colborne, Ontario KOK 1SO, Canada.

Assists handicapped DXers and membership open to those who are handicapped or those who wish to help the handicapped help themselves. Send large sized self-addressed envelope for further details.

Long Wave Club of America (LWCA). c/o W. R. McIntonsh, P.O. Box 33188, Grenada Hills, CA 91344.

Founded in 1974. The only radio club in North America specializing in frequencies below the medium wave band, 550 kHz and lower in frequency, plus the 1750 meter band. Technical topics, log listings, station data. Monthly newsletter, The Low-Down. Dues: \$6 per year. Sample copy, send stamped, self-addressed envelope.

Miami Valley DX Club (MVDXC). c/o Jack Wyatt, 170 Notre Dame Ave., Dayton, OH, 45404.

Covers SW only. Founded in 1973. Monthly mimeographed bulletin, DX World. Features propagation forecasts, technical and logging data, DX news. Dues: \$3 per year. Sample copy, 25 cents.

Minnesota DX Club (MDXC). 5212 Drew South, Minneapolis, MN 55410. Founded in 1973. Regional club, membership limited to DXers living in Minnesota. Covers SW and MW radio. Monthly newsletter, MDXC Messenger. Dues: \$2 per year. Sample bulletin copy, send stamped, self-addressed envelope.

University of Manitoba DX Club (UMDXC). Room 517, Box 131, University Centre, Winnipeg, Manitoba, R3T 2N2 Canada.

Founded in 1972. Regional club, membership limited to residents of Manitoba and DXers attending the U. of M. No bulletins. For information send self-addressed stamped envelope.

The Association of North American Radio Clubs (ANARC) is not itself a club, and accepts no individual memberships. It is an umbrella organization of North American hobby radio clubs. However, individuals may subscribe to the monthly ANARC Newsletter. Subscription: \$2.50 per year in North America.

fore.

These types are known as DXers—DX being an old radio term for "distance." The DXer gets his kicks by trying to hear the off-beat, difficult-to-tune stations, the low powered outlets, regardless of the programming. In fact, these stations usually don't broadcast in English and often aren't heard well enough to make the programs easily understood.

In reality, there's probably at least a little of the SWL and the DXer in every listener. It is the proportions that differ from individual to individual.

Curiously, most people when they first discover the excitement of listening to shortwave, begin as DX fans. They have initially little idea of what there is to hear, when or where to hear it.

So they tune around the shortwave dial, trying the various SW bands, but, generally, tuning at random. They find something that is coming through loud and clear, and in English, so they stop a while and listen. Then, later, they go on to other stations they can hear, hunting for whatever catches their attention as they tune down the dial. Everything is new and different at first.

Then, in time, most newcomers to the listening game veer in the other direction toward SWLing. They have, by then, found various stations and different types of programs. They have learned where and when to tune to find a certain favorite program. They seek out these programs they've come to enjoy.

The armchair travel aspect appeals to many! By listening to shortwave radio it is possible to roam the globe without ever leaving home—and at cutrate prices! SWLing is a terrific way to experience the cultures, the customs, the music and the language of different nations.

You can learn a language by shortwave. A number of overseas shortwave broadcasters have special language study courses and some will even send you free text materials to go along with the broadcast lessons. Once you have picked up the basics this way, you can polish your skills by tuning the regular programs in that language. Many high school and college language instructors recognize the value of listening to broadcasts in French, Spanish, German or some other language and encourage their students to become SWLs!

For some radio hobbyists, the approach of listening for program content is exactly what they want. They need no more than to have a shortwave receiver that will give them "ears" to a

new and enjoyable world of listeninglistening different from anything they can hear on their AM radio!

Others, however, decide that it is the challenge of the hunt that intrigues them. And, inevitably, that means they will be listening for stations that broadcast in languages other than English. For most listeners, they will never become fluent in the foreign languages they hear. At best they may learn enough of the languages, perhaps quite a few different languages, to enable them to identify the stations they are hearing. Some program items, music for instance, are universal, and there is no language barrier. But when a DXer pursues stations, regardless of language, it is the quest for the new, the unusual, the different, the rare, rather than the programs themselves, that is the major attraction!

Not everyone has this hunter in-

stinct for new stations. Nor is it necessary that they do. DXings is one aspect of the hobby; SWLing is another. The pure SWL may find it puzzling to think that someone would want to listen to a station whose programs he can't really understand. And the pure DXer, can't really understand. And the pure DXer, likewise, can't imagine why anyone would want to tune the same, familiar stations again and again.

The Original DXing. In terms of numbers of hobby listeners, there are probably more shortwave fans than any other group. But in the "radio-active" '70s, one of the fastest growing aspects of the listening hobby has been the monitoring of the VHF-UHF public service "action" bands!

There are other forms of DXing though-remember, that's hunting for distant or hard-to-receive radio frequency signals!

They may not attract as many adherents, but each has its fanatical band of supporters. Oh yes, indeedy! Here at COMMUNICATIONS WORLD I get letters from them, Like this one from a reader in Pennsylvania:

"In the '30s, there were virtually no all-nighters on the dial. Stations almost never broadcast 1 am local time, and most, even in the big cities, signed off at midnight. This meant that virtually every frequency . . . was clear from the East coast straight across to California, Oregon, Washington and British Columbia, seven mornings a week!

"So by 2 am, EST, on a good morning, it was not only possible to hear West coasters on regular schedule, it was in reality run-of-the-mill reception. With better equipment and more available time it would have been possible to hear (from the New York metropolitan area) 200 or more Western stations, in fact.

"Most New York, Chicago, San Francisco and Los Angeles stations

WHERE TO SEND THOSE RECEPTION REPORTS

des Martyrs, Algiers

Radio Afghanistan, P.O. Box 544, Kabul

Radio Tirana, Rua Ismail Quemal, Tirana

Radiodiffusion-TV Algerienne, 21 Blvd.

Ayacucho 1556, 1112 Buenos Aires

Radio Nacional, C.P. 1329, Luanda

Radiodifusora Argentina al Exterior,

Afghanistan **Albania** Algeria

Angola **Argentina**

Australia

Austria

Bangladesh

Belgium

Bolivia

Botswana Bulgaria Burma

Byelorussian SSR

Canada

Chile China

Colombia Costa Rica

Cuba

Ecuador

Czechoslovakia Denmark

Radio Australia, Box 4286, GPO, 3001, Melbourne, Victoria Austrian Radio, Short Wave Service, A-1136, Vienna Radio Bangladesh, 20 Green Rd., Dacca Radiodiffusion-TV Belge, P.O. Box 26, 1000 Brussels La Cruz del Sur, Cajon 1408, La Paz Radio Botswana, P.O. Box 52, Gaberones Radio Sofia, 4 Bd. Dragan Tsankov, Sofia Burma Broadcasting Service, Prome Road, Kamayut P.O., Rangoon Radio Minsk, 4 Krasnaya St., Minsk, U.S.S.R. CHU, National Research Council, K1A OS1 Ottawa, Ontario Radio Canada International, Box 6000, Montreal H3C 3A8, Quebec Radio Nacional de Chile, Casilla 244V, Santiago Radio Peking, Peking Radio Nacional, Apto. Aereo 51-72, Bogota TIFC, Faro del Caribe, Apartado 287, San Jose Radio Havana Cuba, P.O. Box 7026, Havana Radio Prague, Prague 2 Radio Denmark, TV-Byen, DK-2860

Soborg, Copenhagen

Andes), Casilla 691, Quito

HCJB, La Voz de los Andes (Voice of the

Radio Cairo, Engineering Dept., Box. Egypt 1186, Cairo Radio Finland, External Service, Finland Kesakuta 2, SF-00260 Helsinki Radio France International, B.P. 9516, France F-75016, Paris Radio Berlin International, Nalepastrasse Germany (DDR) 18-50, Berlin 116 Germany (GFR) Deutsche Welle, P.O. Box 10 04 44, Cologne 5 Great Britain British Broadcasting Corp., Bush House, Box 76, London WC2B 4PH Greece Voice of Greece, Box 19, 16 Mourouzi St., Aghia-Paraskev, Athens Guatemala TGNA, Radio Cultural, Aparatado 601, Guatemala City Haiti 4VEH, La Voz Evangelique, Boite Postale 1, Cap Haitien Trans World Radio, P.O. Box CC, Agana, Guam Guam 96910 **Honduras** La Voz de Evangelica, HRVC, Apartado 145-C, Tegucigalpa Hungary Radio Budapest, Brody Sando utca 5-7, 1800 Budapest All India Radio, P.O. Box 500, New Delhi India 11000 ISRAEL Broadcasting Authority, P.O. Israel Box 1082, 91-000 Jerusalem Italian Radio & TV, Caselle Postalle Italy 320, Rome Radiodiffusion-TV Ivorienne, Boite **Ivory Coast** Japan Korea (South) 150, Seoul Korea (North)

Postale 2261, Abidjan Radio Japan, Nipon Hoso Kyokai, Jinnan 2-2-1, Shibuya-ku, Tokyo 100 Korean Broadcasting Corp., P.O. Box Korean Central Broadcasting Committee, Pyongyang

Kuwait Broadcasting and TV, P.O. Box 397, Kuwait

ELWA, Box 192, Monrovia Radio Vilnius, 49 Konarsky St., Vilnius USSR

stayed on until 1 am," Cooper recalled. "After 1 am then, in the East, it was easy to log Chicago and other Central Standard Time zone stations. By 1 or 2 am EST, things were open through to the Mountain Standard Time zone stations and to some Pacific Standard Time zone stations.

"It was something like the network's coverage of New Year's Eve these days, following the New Year westward. And that was how it was so comparatively easy for those of us who were active in those exciting days to log and verify so many 3,000 milers. It worked in reverse, of course, for the West coast DXer. He could (in the mornings) get the East coast stations signing on, then an hour later, the Centrals and Mountain zone stations, before any of his locals opened up.

"Ah yes, 'twas fun!"

Just by reading Cooper's comments, it is easy to get caught up in the excitement of BCBing in that era.

But-and here's a flash for you-none

of that enthusiasm and excitement is gone from BCB medium wave DXing. Cooper would be the first to tell you that! The thrills of tuning elusive stations, both U.S. and Canadian domestics as well as the foreign broadcasters, are every bit as compelling in the late 1970s as they were in the '30s. And there are far more target stations to try for these days!

As the DXing craze spread across the country in the 1920s, listeners here and listeners there began to get together locally to share their tuning experiences and pass along tips on what to listen to and when. Before long there were listeners' clubs growing up in various cities. In some cases, the "glue" that stuck these club groups together was a radio column in the local newspaper. There were clubs sponsored by such papers as the Buffalo Evening News and the Newark (NJ) News.

In 1977, the latter club—long since divorced from any ties with the newspaper but still retaining its name of the



Now here's a smart looking shack. Ronald Robinson of Cedar Grove, N.J. has more than half of his 50 countries confirmed.

Newark News Radio Club-marked its 50th birthday!

It was in 1933 that members of the Philadelphia Radio Club and the Transcontinental Radio Club merged. And then the Buffalo group plus several other listener organizations from the Atlantic seaboard to the Middle West joined forces to form another major

`			•
Mexico	Radio Mexico, XERMX, P.O. Box 20-620, Mexico DF	Surinam	Stichting Radio Omroep Suriname (SRS), Box 271, Paramaribo
Mozambique	Radio Mozambique, C.P. 594, Maputo	Sweden	Radio Sweden, S-105 10, Stockholm
Nepal	Department of Broadcasting, Katmandu	Switzerland	Swiss Broadcasting Corp., Overseas
Netherlands	Radio Nederland, Box 222, Hilversum		Service, CH3000 Berne 16
Neth. Antilles	Trans World Radio, Bonaire	Syria	Radio Damascus, Omayad Square,
New Caledonia	Radio Noumea, B.P. 327, Noumea	5 ,	Damascus
New Zealand	Radio New Zealand, P.O. Box 2092,	Tahiti	Radio Tahiti, B.P. 125, Papeete
	Wellington	Tanzania	Radio Tanzania, P.O. Box 1178, Dar es
Nigeria	Voice of Nigeria, External Service.		Salaam
J	P.M.B. 12504, Lagos	Togo	Radiodiffusion du Togo, Boite Postale
Norway	Radio Norway, Bh. Bjornsons Plass 1,	. • 6 •	434, Lome
•	Oslo	Turkey	Radio Ankara, Genel Mudurlugu, Mithat
Pakistan	Radio Pakistan, World Service, P.O. Box	. a. noy	Pasa Caddesi 37, Ankara
	443, Karachi or 82-A Satellite Town,	United States	Armed Forces Radio & TV Service, Office
	Rawalpindi		of Information Washington D.C. 20305
Papua New Guinea	National Broadcasting Commission, Box		KGEI, Friendship Station, Redwood City,
	1359, Boroko		CA 94063
Peru `	Radio Nacional, Av. Petit Thouras 441,		Voice of America, Public Information
	Lima		Office, Washington DC 20547
Philippines	Far East Broadcasting Co., Box 2041,		WINB, P.O. Box 88, Red Lion, PA 17356
	Manila		WYFR, Family Radio, 290 Hegenberger
	Philippines Broadcasting Service, 5th		Road, Oakland, CA 94621
	Floor, GSIS Bldg., Arroceros Street,	Uruguay	S.O.D.R.E., Servicio Oficial de Difusion
	Manila		Radioelectrica, Merceded 823,
Poland	Radio Warsaw, P.O. Box 46, 00-950		Montevideo
	Warsaw	USSR	Radio Moscow, Moscow
Portugal	Radio`Portugal, Rua do Quelhas 21,		Radio Kiev, Radio Centre, 26 Krescha-
	Lisbon		tik, Kiev, Ukranian S.S.R.
Romania	Radio Bucharest, P.O. Box 111,		Radio Tashkent, 49 Khorezm St., Tash-
	Bucharest		kent, Uzbec S.S.R.
Saudi Arabia	Broadcasting Service of the Kingdom of	Vatican City	Vatican Radio, Vatican
	Saudi Arabia, Box 2476, Riyadh,	Venezuela	Radio Nacional, Apartado 3979,
0	Kingdom of Saudi Arabia	Water	Caracas DF
Senegal	Radiodiffusion due Senegal, B.P. 1765,	Vietnam	Radio Hanoi, Voice of Vietnam, 58
O b - II	Dakar	William State and Table and	Quan-Su Street, Hanoi
Seychelles	Far East Broadcasting Association, P.O.	Windward Islands	Radio Grenada, P.O. Box 34, St.
Cauth Africa	Box 234, Victoria	Vamon	George's, Grenada
South Africa	Radio RSA, P.O. Box 4559, Johannesburg	Yemen	Radio Sana, Sana
Cnain	2000 Padia TV Fanana Canaral Vagua 1	Yugoslavia 🥆	Radio Yugoslavia, External Broadcasting,
Spain	Radio TV Espana, General Ýague 1,	Zaire	Box 880, Belgrade
Sri Lanka	Madrid 20 Sri Lanka Broadcasting Corp. B.O. Boy	Zaire Zambia	La Voix du Zaire, B.P. 3171, Kinshasa
SII LAIINA	Sri Lanka Broadcasting Corp., P.O. Box	Lallivia	Zambia Broadcasting Service, P.O. Box
	574, Colombo 7		RW, 15, Lusaka



club, the National Radio Club.

Though the officers, editors and even the headquarters location have changed over the decades, the National Radio Club continues as an active medium wave listeners' club some 46 years later.

These two clubs, Newark News Radio Club and the National Radio Club, maintain a link with the past, bridging the years from the very early days of medium wave DXing to the present. There are of course a number of hobby clubs of more recent origin that also help to preserve the spirit of DXing's past days.

There were, from the early days, a number of publications to aid the MW listener. Virtually every major newspaper had a radio listening column at least weekly, and some on a daily

There were magazines also, Radio News, Radio Craft, All-Wave Radio, with information for listeners. There were publications such as What's On The Air, which began publication in 1929. In its day, it provided readers with a guide to what to tune, where to tune it and when. It was program oriented and contained feature stories about some of the early radio stars and hit programs of the airwaves. A sort of TV Guide for radio listeners, it described its offerings this way:

"The hours you spend with your radio are really more important because they constitute a very substantial part of your entire leisure. What's On The Air tells you with almost no effort on your part what the big chains (today we'd call them networks) and powerful nationally popular stations may be expected to offer at any moment. You not only learn what features are available, but also know what kind of enter-

Greg Deuhs of St. Paul, MN does his DX'ing with a Hallicrafters SX-100. He will be joining the ham ranks in the near future.

tainment to expect. For example, if your mood calls for a symphony concert, What's On The Air tells you where to look for a symphony concert; if your guests want to dance, it immediately gives you a list of dance orchestras on the air at the time-in short, it Itells you where to find exactly what you want exactly when you want it."

And the magazine also contained a radio log, a list of stations, call letters, locations, frequencies and powers.

There were, over the years, many published radio logs. Probably the most famous of the early magazine logs was White's.

Where White's Log Began. Longtime BCB DXers well remember the White's Radio Logs of the past, slim volumes that appeared on the newsstand four times a year. A little magazine packed with interesting data on radio stations, but with what must have been the ugliest black-and-white cover in the history of magazinedom!

While the other radio logs died, over the years, White's has gone on, as COMMUNICATIONS WORLD readers know fully well. And the medium wave BCB listeners of 1979 will rely on White's as much as their dads and grandads did over a half century ago.

How did White's Radio Log wind up as part of CW, the DXing magazine of the last quarter of the 20th century?

It began in Providence, Rhode Island, long ago. Charles De Witt White followed his father in his publishing business which specialized (long before radio) in printing city directories, municipal tax guides and street guides for various cities.

When radio first began making an impact on the American public, White quickly recognized an unmet need for an accurate list of stations and fre-

INTERPOL FREQUENCIES					
Location	kHz	Call			
Algiers, Algeria Helsinki, Finland Paris, France Stockholm, Sweden Wiesbaden, Germany West Wickham, England	4632.5	7RA20 OGX FSB53 SHX DHA33 GMP			
Beirut, Lebanon Paris, France Tel Aviv, Israel Utrecht, Netherlands	6792	0DW21 FSB54 -4XP40 PDB2			
Brussels, Belgium Oslo, Norway Paris, France Rome, Italy Vienna, Austria Zurich, Switzerland	7532	ONA20 LJP27 FSB55 IUV81 OEQ HEP			
Lisbon, Portugal Paris, France Rabat, Morocco	9200	CS166 FSB56 CNT			
Altamont, Canada Copenhagen, Denmark Madrid, Spain Paris, France Rio de Janeiro, Brazil Tunis, Tunisia	10390	XJE57 OWS4 EEQ FSB57 PYZ2 3VA			
Ankara, Turkey Caracas, Venezuela Buenos Aires, Argentina Ottawa, Canada	14817.5	TCC2 YV23 AYA48 XJD48			
Bogota, Colombia Mexico City, Mexico Paris, France Teheran, Iran	18380	FSB60			
Manila, Philippines Paris, France	19360	FSB62			

quencies. Compiling such a list was especially difficult before 1927, when legislation was passed in Congress to control the fledgling broadcasting in-

For in those earliest days, any small businessman could-and many didopen up his own broadcasting station without any licensing formality to advertise his wares or services. The owner of a hardware store or feed mill, a dentist or barber could build-or have built—a transmitter, select a frequency and go on the air.

It took a lot of research for such a

TV CHANNELS AND FREQUENCIES						
Channel	Video/Audio Freq. (MHz)	Channel	Video/Audio Freq. (MHz)			
2	55.250/59.750	7	175.250/179.750			
3	61.250/65.750	. 8	181.250/185.750			
4	67.250/71.750	9	- 187.250/191.750			
5	77.250/81.750	10	193.250/197.750			
6	83.250/87.750	11	~ 199.250/203.750			
		12	- 205.250/209.750			
		13	211.250/215.750			

The UHF TV channels begin at Channel 14 (471.250/475.750 MHz) and continue with audio and video channels six megahertz apart up to Channel 83 (888.250/889.750 MHz). Many other countries not only use different transmitting standards (positive or negative video modulation, number of scanning lines, channel width, etc.), but also have a different channel arrangement. In the United Kingdom there are 14 VHF TV channels running from 45,000 MHz to 216.250 MHz. In much of Continental Europe there are 12 channels, 48.250 to 229.750 MHz. France has 11 channels from 52.400 to 201.700 MHz. Italy, Russia, Morocco, Australia, New Zealand and Japan all have their own "channels" to add to the confusion. So if you plan to travel abroad, forget about taking your American made portable TV with you!

AERONAUTICAL DX

This is a selected list of tower and approach control frequencies used by major airports in the U.S.

Airport and Location	Tower	Approach	Airport and Location	Tower	Approach
Albany County, NY	119.5	125.0	J. F. Kennedy International, NY	119.1	134.35
Albuquerque, NM	118.3	124.4	LaGuardia, NY	118.7	118.0
Amarillo, TX 🕦	118.3	121.15	Lakefront, LA	126.2	125.5
Andrews AFB, MD	118.4	119.3	Logan International, MA	119.1	126.5
Baltimore-Washington International, MD	119.4	125.9	Los Angeles International, CA	120.8	128.5
Charleston, SC	126.0	123.9	Memphis International, TN	119.7	125.8
Chicago-Midway, IL	118.7	119.35	Metro Oakland International, CA	126.0	135.4
Chicago-O'Hare International, IL	118.1	125.7	Miami International, FL	118.3	128.6
Cleveland-Hopkins, OH	120.9	124.0	Minneapolis-St. Paul, MN	118.7	126.95
Dallas-Ft. Worth, TX	126.55		Nashville Metro, TN	119.1	124.0
Dallas-Love Field, TX	118.5	124.5	Newark, NJ	118.3	127.6
Dekalb-Peachtree, GA	120.9	119.3	Philadelphia International, PA	118.5	135.1
Des Moines Muni, IA	118.3	124.9	Phoenix-Sky Harbor International, AR	120.9	124.1
Detroit Metro, MI	121.1	125.15	Sacramento Metro, CA	125.7	125.2
El Paso International, TX	118.3	121.3	Salt Lake City International, UT	119.2	128:0
Fulton County, GA	118.5	122.45	San Diego International, CA	118.3	128.0
Greater Buffalo International, NY	120.5	126.2	San Francisco International, CA	120.5	134.5
Greater Cincinnati, OH	118.3	119.7	Seattle-Tacoma International, WA	119.9	123.9
Greater Pittsburgh, PA	119.1	124.15	Tampa International, FL	119.5	126.4
Houston International, TX	118.1	123.8	Tucson International, AZ	118.3	125.1
Indianapolis Muni, IN	120.9	124.65	Will Rogers World, OK	139.9	124.2
Jacksonville International, FL	118.3	124.4	William B. Hartford-Atlanta Intl. GA	119.1	120.5

radio log book. But White correctly felt that his background in the field of publishing statistical information and municipal directories would be helpful. Initially the scope of the project was limited. In 1924 he came out with his first limited publication, The Rhode Island Radio Call Book. A short time later, he followed up with what he called White's Triple List of Radio Broadcasting Stations. For decades this triple listing—by frequency, by call letters and by city— was the key to White's success. That triple listing format is retained today!

In 1927, these publications were merged and nation-wide coverage began. In ensuing years there were related White publications, such as Sponsored Radio Programs, Radio Announcer's Guide, Short Wave Schedule Guide and a special Canadian edition

In the years before World War II, the log would sometimes appear under the sponsorship of various products. In 1929-31, it was called the *Enna Jettick Radio Log*, sponsored by the shoe manufacturer of the same name. Nearly a decade later, 1938-39, it was called the *General Electric Radio Log*, promoting the "sensational 1939 receivers with pushbutton tuning!"

But usually it was White's Radio Log which DX fans looked for on the newsstands. And its circulation went well over the million copy mark.

Charles De Witt White made quite a name for himself with his radio log. But he had two distinguished names to start with. He was a direct descendant of Peregrine White, the first child born on the Mayflower's crossing to the New World, and De Witt Clinton, "father" of the Erie Canal.

In time the radio log operation was successful enough that White sold his city directory and street guide business. Later he moved from Providence to Bronxville, a New York City suburb. He continued to publish his log for 34 consecutive years. His publication already was 24 years old when this writer, COMMUNICATIONS WORLD's communications editor, picked up his first black- and white-covered issue in 1947.

It was ten years later, April 6, 1957, that White died at the age of 76. After his death, his daughter, Mrs. W. R. Washburn, sold all rights to the log to Science and Mechanics Publishing Co., now Davis Publications, Inc.

It was in 1958 that White's Radio Log appeared in Radio-TV Experimenter magazine, a bi-monthly that later became Science and Electronics, and which finally evolved into our sister publication, Elementary Electronics.

In 1964, when R-TV Experimenter became a bi-monthly, the decision was made to split the log into three parts, presenting a section in each issue. This meant that two complete White's Logs were published each year in the six magazine issues.

But as the log continued to grow in size, another change was necessitated. In 1969, White's Radio Log was published in six parts. Each issue contain-

ed a major listing for either AM broadcasting stations, FM broadcasting stations or television stations, plus an expanded listing of shortwave stations of the world, updated for each issue.

The final change for White's came in 1971, when this magazine, COMMUNICATIONS WORLD burst on the radio hobby scene. In response to many reader requests, it was decided that it was time to put the complete White's Radio Log back between the covers of a single issue of a magazine, back the way old Charles De Witt White had done for so many years. Since that time, the complete White's log has appeared in each issue of COMMUNICATIONS WORLD.

So in the coming months as you check through the station listings in the back of this issue of CW, remember the long tradition behind those useful lists, the 61st volume of White's Radio Log!

From Then to Now. When you tune the 540 to 1600 kHz medium waves, the Broadcast Band (BCB) of AM radio, the first observation likely will be, "Wow! What a lot of stations!"

That's right! There are more than 5,000 different stations on the air and they all occupy the same relatively small chunk of radio frequency spectrum, just slightly more than one megahertz of radio space. If you'd like to make a comparison, consider this: Television channels 2 through 6 occupy some 32 megahertz of radio spectrum!

With all those signals shoehorned into a relatively small space, it means

a lot of confusion and mutual interference. This isn't a serious problem to the casual AM radio listener who wants to tune his favorite music, or catch a newscast from one of a handful of powerful local or regional stations, or on a low powered local station practically next door in his home town.

But the BCB DXer has a different aim. He is setting out deliberately to hear those distant and weaker stations. So right off the top, the DXer has cochannel interference problems—in short, noise!

But let's think positively, not negatively. Focus on the bright spots! Consider how many potential targets there are, here and abroad, to try for in your logging.

Many of these medium wave outlets aren't too hard to hear, even distant stations on the opposite sides of our continent are audible. There are powerful stations in most of the major U.S. and Canadian cities that will be fairly simple catches at night on AM radio.

However, there also are thousands of stations out there which will be difficult to nearly-impossible targets for your tuning. These are the low powered stations jam packed into crowded, interference-ridden frequencies.

Just because they are North American stations, not stations across the ocean or on the opposite side of the world, don't get the notion that BCB DXing is a snap. Just because you may have picked up on your bedside radio some night a station in Salt Lake City or New Orleans or Richmond, Virginia, a thousand miles or more away, don't think that logging all medium wave outlets is a cinch! Anything but!

Oh yes, your first hundred BCB AM catches will come quite easily—maybe even a couple of hundred. After that, however, it gets progressively harder to hear new, previously unheard stations.

By international agreements, you are probably aware that U.S., Canadian



Brian A. Rogers of Allen Pk., MI SWL's mainly for international news. He uses a Drake SW-4A and Realistic's DX-150A.

and Mexican stations as well as those in other western hemisphere nations, are located on frequencies 10 kilohertz apart, in the range from 540 to 1600 kHz.

In the U.S. and Canada, these BCB transmitters range in power from about 250 watts to 50 kilowatts, that is, 50,000 watts. There are some untended Canadian relay transmitters that run less power, as little as 20 watts. And there are, in recent years, some U.S. highway and recreational information stations, including a number within our

national parks, which operate with even less wattage on frequencies just above 1600 kHz (but which are still tunable at the high end of your radio dial). Mexican stations are allowed much higher transmitter powers, up to 150 kw. in some cases, though these are the exceptions rather than the rule.

Not all medium wave frequencies are created equal! In fact, the 107 different frequency channels between 540 and 1600 kHz are divided into three different categories: clear, regional and local channels.

Clear Channels. Clear Channels are the easiest to tune of all the BCB frequencies. The reason this is true is

VERY LOW FREQUENCY DXING

The very low frequencies 3 to 30 kHz are off the beaten track but there are some DXers who prowl these bottom bands. And there are some interesting things to be heard here, much of it in CW Marse code

kHz	Station	Location	Type of transmission
14.1	NAA	Cutler, ME	Navy VLF communications
14.5	HWU	Le Blanc, France	Point-to-point
14.7	NEJ .	Seattle, WA	Navy VLF communications
16.0	GBR	Rugby, England	Time standard signals
18.6	NPG	San Francisco, CA	Navy VLF communications
19.6	- GBZ	Rugby, England	Point-to-point
24.0	NBA	Balboa, Canal Zone	Navy RTTY, CW, time signals
25.0	RWF ,	USSR	. CW, time signals
25.0	RCV	USSR	CW, time signals \
25.0	ROR	· USSR	CW, time signals
20.0			,

$\begin{tabular}{ll} VHF AND UHF FREQUENCIES USED BY POLICE DEPARTMENTS \\ This is a selected list of frequencies assigned to police departments in major U.S. cities. \\ \end{tabular}$

CITY	FREQUENCY	CITY	FREQUENCY
Akron, OH	VHF-High: 155.97, 156.15, 156.21	Minneapolis, MN	VHF-High: 154.74, 154.90, 156.03
Atlanta, GA	UHF: 460.050, 460.375 VHF-High: 155.85, 156.21 UHF: 460.025, 460.075,	New Orleans, LA	VHF-High: 158.91 UHF: 460.25, 460.100, 460.200, 460.225, 460.475
Baltimore, MD	460.150, 460.425 VHF-High: 155.79 UHF: 495.1875	New York, NY	UHF: 470.6375, 470.6625, 470.6875, 470.7125, 470.7375, 470.8125,
Cleveland, OH	UHF: 460.125, 460.225, 460.275, 460.400,		470,8625, 470.8875, 470.9375, 470.9875
Columbus, OH	460.450 VHF-High: 154.65, 154.71,	Omaha, NB	UHF: 460.100, 460.225, 460.375
	155.25, 155.55, 155.58 UHF: 460.075, 460.125, 460.200, 460.275,	Philadelphia, PA	VHF-High: 155.07, 155.625 UHF: 460.150, 460.250, 460.350, 460.375
Dallas, TX	460.350, 460.400 VHF-High: 155.19, 155.26	Pittsburgh, PA	VHF-High: 158.97 UHF: 458:10, 458.40
/	UHF: 460.025, 460.075, 460.175	Portland, OR	VHF-High: 154.65, 155.97, 156.15, 158.91, 159.21
Denver, CO	VHF-High: 156.03 UHF: 460.425		UHF: 460.500
Detroit, MI	VHF-High: 155.85	St. Louis, MO	VHF-High: 155.61, 159.03 UHF: 453.40
Houston, TX	UHF: 460.275 VHF-High: 154.86, 155.13,	Salt Lake City, UT	VHF-High: 154.83, 154.875, 155.01, 155.13
	155.55 UHF: 460.025, 460.050, 460.350	San Francisco, CA	
Kansas City, MO	VHF-High: 154.71, 155.64, 155.85, 156.09		460.075
	UHF: 453.10	Seattle, WA	VHF-High: 155.25, 155.64, 155.97
Las Vegas, NV Little Rock, AR	VHF-High: 155.55, 155.73 VHF-High: 155.61	Washington, DC	UHF: 460.100, 460.250, 460.475

VHF-High: 154.83, 159.03

UHF: 453.100, 506.5875,

506.8125

Los Angeles, CA

easily understood-limited interference. There are 60 different medium wave frequencies-over half the number in the band-designated as clear channels in North America. The term "clear," however, may not be exactly what it seems. WOAI, San Antonio, Tex., 1200 kHz, is the only station that stands alone on its frequency. Other clear channels are shared by a few stations, although there is a primary, dominant broadcaster within this select group on each frequency. On most of the clear channels, the primary station is in the United States. On some of the clears, however, the main station is in Canada, Mexico, Cuba or the Bahamas.

So several stations, at least, use each of the so-called clear channels, with the exception noted above.

On 720 kHz, for example, WGN, Chicago, is the primary outlet and can be heard nationwide at night. But KDWN in Las Vegas also uses the frequency on a restricted basis. Outlets in Alaska and Hawaii also use 720 kHz.

One of the nation's pioneer stations, WLW in Cincinnati operates on clear channel 700 kHz. That frequency, however, also is assigned to KBYR in Anchorage, Alaska, far enough away to cause no mutual interference.

The second basic category of frequencies is the regional channel. While the clear channels are intended to provide interference protection for some powerful 50,000 watt AM stations that can, at night, provide reception across wide areas of the country, the regional stations are intended to cover much smaller areas with minimal co-channel interference. Regional stations could reach (on a regular basis with good, listening quality signals) listeners in a number of adjacent counties, all of a state, or parts of several states.

There are 41 regional channels and each of these frequencies is home to some 25 to 50 different stations. To minimize interference, regional stations are limited to 5,000 watts of power. Many of them broadcast only during daylight hours, but since signals reach out much further at night, interference would be more likely to occur during darkness hours. Also, directional antenna patterns, to minimize interference, are required. Similar hour and antenna restrictions are imposed on the secondary stations on the clear channels.

The third and final category of frequencies is the local channel. There are, and this may come as a surprise considering there are so many low powered local stations across the continent.

only a handful of channels assigned to this group. In fact, there are just six—count 'em, six—local frequencies. They are 1230, 1240, 1340, 1400, 1450 and 1490 kHz.

But about one fourth of all the licensed AM BCB stations in the United States are assigned to these six frequencies. That figures out to an average of about 150 to 200 stations on each of these half dozen channels!

These stations may operate 24 hours a day, with up to 1,000 watts during the day; 250 watts at night. Many, however, operate with 250 watts during their entire programming day.

No matter where you live in the U.S. and Canada—with perhaps the exception of some very remote western areas—you should have reception from

HOW TO HEAR ALL 50 STATES ON MEDIUM WAVE

☐ Some veteran listeners may take exception to some of our choices, but here is Communications World's suggestions as how to log the 50 states on BCB.

	Freq.		Call	-	
State	(kHz)	Channel	Letters	City	kw
Alabama	850	Clear	WYDE	Birmingham	10*
Alaska	750 600	Clear	KFQD	Anchorage	50*
Arizona	620	Regional	KTAR	Phoenix	5
Arkansas California	1090 640	Clear Clear	KAAY KFI	Little Rock	50
Colorado	850	Clear	KOA	Los Angeles Denver	50 50
Connecticut	1080	Clear	WTIC	Hartford	50
Delaware	1410	Regional	WDOV	Dover	5
Florida	560	Regional	WQAM	Miami	5
Georgia	750	Clear	WSB	Atlanta	50
Hawaii Idaho	650	`Clear	KORL	Honolulu	10
Illinois	1140 720	Clear	KGEM	Boise	10
Indiana	1190	Clear Clear	WGN WOWO	Chicago Ft. Wayne	50 50
lowa	1040	Clear	WHO	Des Moines	50
Kansas	1250	Regional	WREN	Topeka	5
Kentucky	840	Clear	WHAS	Louisville	50
Louisiana	870	Clear	WWL	New Orleans	50
Maine Maryland	970 1090	Regional	WCSH	Portland	5
Massachusetts	1030	Clear Clear	WBAL WBZ	Baltimore Boston	50 50
Michigan ,	760	Clear	WJR	Detroit	50
Minnesota	830	Clear	WCCO	Minneapolis	50
Mississippi	1550	Clear	WOKJ	Jackson	50
Missouri	1120	Clear	KMOX	St. Louis	50
Montana Nebraska	1370 1110	Regional Clear	KXLF KFAB	Butte	5
Nevada	630	Regional	KOH	Omaha Reno	50 5
New Hampshire	1290	Regional	WKNE	Keene	5
New Jersey	930	Regional	WPAT	Paterson	5
New Mexico	770	Clear	KOB	Albuquerque	50
New York North Carolina	770	Clear	WABC	New York City	50
North Dakota	1110 550	Clear	WBT	Charlotte	50
Ohio	700	Regional Clear	KFYR WLW	Bismarck Cincinnati	5 50
Oklahoma	1520	Clear	KOMA	Oklahoma City	5 0
Oregon	1190	Clear	KEX	Portland	50
Pennsylvania	1020	Clear	KDKA	Pittsburgh	50
Rhode Island	630	Regional	WPRO	Providence	5
South Carolina South Dakota	1390 570	Regional Regional	WCSC WNAX	Charleston Yankton	5 5
Tennessee	650	Clear	WSM	Nashville	50
Texas	1200	Clear	WOAI	San Antonio	50
Utah	1160	Clear	KSL	Salt Lake City	50
Vermont	1000	Clear	WHWB	Rutland	1**
Virginia	1140	Clear	WRVA	Richmond	50
Washington West Virginia	1510 1170	Clear	KGA	Spokane	50
Wisconsin	1070	Clear Clear	WWVA WTSO	Wheeling Madison	50 10
Wyoming	1410	Regional	KWYO	Sheridan	10
=Reduced power		r==Daylight op			

one or more local stations in your community or nearby. Because you are located only a relatively short distance from these local outlets, you can get clear reception. At short range, the signal is loud and clear, overpowering the distant signals of other stations sharing the frequency. Perhaps you never realized that there are hundreds of other stations across North America using the same local frequencies.

But try this. Tune to one of the six local frequencies on which you do not have a station in your immediate vicinity. During daylight hours, when medium wave signals don't travel so far, you might find some other area's local outlet, maybe 100 or 200 miles away. But chances are you'll hear a couple of stations—some other area's "locals"—mixing it up on the channel.

Then make the same test at night. Medium wave signals "reach out" across the darkness for many hundreds or even thousands of miles. Now, with no station in your hometown dominating a certain local frequency, you'll find total bedlam. You will be receiving signals from dozens, scores, hundreds perhaps, of somebody else's "local" stations.

What does it sound like to receive a hundred different signals all on the same frequency at the same time? Normally it is chaos, with no individual station's programming intelligible. On the local channels, the half dozen of them, predictable reception at night is a virtual impossibility. These are the frequencies BCB DXers call the "grave-yard."

Still, among veteran medium wave DXers, the six graveyard frequencies are the prime hunting grounds for BCB signals. These frequencies are unpredictable. Varying reception patterns, propagational vagaries often will bring in one or another, or yet another and another of the stations above the level of the background "mess." For a few



John Gee, of Listowel, Ontario is a BCB MW listener. Proving that AM DX requires no special equipment at the outset, John uses a simple table radio in his shack.

minutes, or many minutes, it might be possible to pick out one signal and identify the program and station you're logging. One night you may receive an intelligible signal from a certain station, but then never hear it again for years, no matter how often you tune the same channel.

This unpredictable nature of the local channels is a big attraction to many medium wave listeners. And some remarkably long-haul receptions of very low powered stations is possible.

The National Radio Club's bullettin periodically lists the "record" distances chalked up by its members in receiving stations on the graveyard local channels. For instance, Californian Gene Allen heard WXLI, Dublin, GA, at a distance of 2,330 miles on 1230 kHz. KPPC, Pasadena, CA, 1240 kHz, was logged 2,500 miles away in Massachusetts by Stan Morss, though this was some years ago. Jerry Starr, an Ohioan who is a professional broadcaster, received KLMX in Clayton, NM, 1450 Hz, 1,235 miles away. And many graveyard frequency stations are heard over distances of from 500 to 1,000 miles.

BCB station reception over a thousand, several thousand miles is not at all uncommon on the clear channels and even on regional frequencies, of course.

The AM broadcasting stations in North America use call letters, you know. This is usually not the case in other parts of the world, where slogans more commonly are used to identify stations.

Canadian broadcasters also use call letters. These calls begin with the letter "C." In Mexico, the call letters are in the "XE" series, although like other Latin American broadcasters, slogans in Spanish are often heard.

In the United States, as almost everyone knows, call letters begin with either the letters "W" or "K". As a general rule, stations east of the Mississippi use the W calls; those west of the Big Muddy use K calls.

Exceptions to the normal W and K divison are those stations which received their call letters years ago, before this rule of thumb was fixed. Thus, there are such anomalies as KDKA in Pittsburgh, KYW, Philadelphia and KFIZ, Fond du Lac, Wisconsin, all east of the Mississippi River. And such western stations as WOAI, San Antonio, TX, WFAA, Dallas and WDAY, Fargo, ND, don't follow the general rule.

Within the basic W and K rule, stations often can choose their own call letters with Federal Communications Commission approval when they are licensed, providing the desired call letters are not already assigned to another station. Stations can change their calls too, with FCC okay, and this happens frequently when the ownership of a station changes and the new owners are interested in altering the image or format of the station. New call letters tend to break past images in the public mind. Rarely, of course, will new owners change the calls of very successful stations, which makes good business

Image is very important to a radio station. You'll find this increasingly apparent as you begin to hear stations from other parts of the country, stations you haven't normally listened to in the past.

And so call letters often are chosen to create a certain image for the station in the minds of the intended audience.

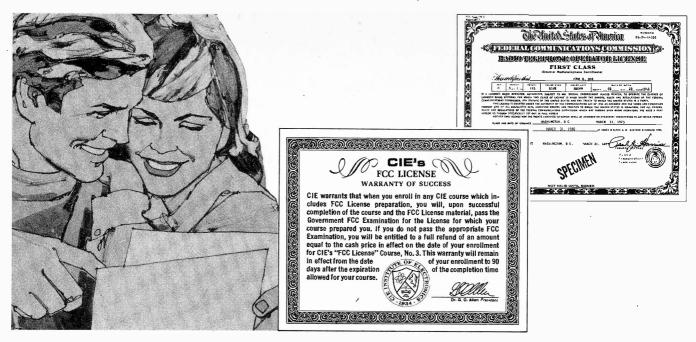
WRKR, an AM/FM outlet in Racine, WI, is a "Rocker," feautring the rock sound. Many stations choose a slogan that fits their call letters; others choose a set of call letters that fits a predetermined promotional slogan. And, it seems, if you can pronounce your call letters as a word-no matter how hard the struggle to make it "fit"—so much the better for the image projection!

Some stations seek an identification with their community. WACO, a call used by a Waco, TX, station is the best possible example (and also it is a case of a west-of-the-Mississippi station with a W call). Others include KBAD in Carlsbad, NM; KASL, Newcastle, WY; KARK, Little Rock, Arkansas.

Other calls, especially the older threeletter calls, originally had meanings that today are not so readily apparent. WGN in Chicago, founded by the owner of the *Chicago Tribune*, unbashedly stood for World's Greatest Newspaper. And the widely heard Chi-



John Bakelaar of Listowel, Ontario is a GRS operator (Canadan CB) in addition to his DX activities. He tunes MW AM and FM freqs.



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Age Phone (area code)	,							
Check box for G.I. Bill Information.	□ Veteran	☐ On Active Duty						
		CW-20						

COMMUNICATIONS WORLD



cago AM outlet, WLS, is said to have signified the World's Largest Store, a reference to early Sears-Roebuck own-

A station's image, its distinctive identity, is more than call letters.

In a particular market in which it must compete with other broadcasters, it is anxious to form a sound or programming image based on format. Formatting of programs has become a big business, with consulting firms advising stations on how they should sound to capture a certain desired audience segment.

Years ago, all that didn't seem to make much difference. Radio then was largely network radio. Stations affiliated with NBC, CBS, Mutual or whatever, carried network programs, drama, comedy, quiz shows, soap operas, live music and all the rest. The coming of television nearly doomed radio and certainly ended network programming as it had existed. Networks survived but mostly as news and feature services. Radio stations became, essentially, players of music, locally programmed disc jockey operations.

The "a-little-something-for-everyone" station of the past gave way to specialization as the broadcasters struggled to stay alive financially. Two basic formats developed: Top 40 (a jukebox formula, with only limited numbers of very popular songs being played) and Middle of the Road (MoR), which featured a softer, less rock-oriented popular sound.

Other formats developed, or in the cases of some specialized program formats, had been there all along. The latter included Country and Western, ethnic radio, etc. Some stations went to all news formats or talk shows, heavy with interviews and call-ins. A handful of classical music stations found listen-



Senor Jose Perez-Muros of San Juan, PR is a 50 year DX vet. During the past 30 years, he has served as a newscaster for radio stations WIAC and WKAQ, as well as TV 2 in San luan.

ership, though mostly on FM and in metropolitan or college communities. Other specialty formats include Soul, Rhythm and Blues, Jazz and the like.

Then the format specialization became even more specialized as stations sought slightly different sounds from their competitors. MoR split into such refinements as Adult Contemporary, Contemporary and Mainstream MoR.

Top 40 presentations became fragmented with some stations airing what became known as Adult Rock, Gold Rock (only million-seller records, past and present), and Bubblegum Rock (for pre- and early teen audiences). Some stations focused on Oldies.

Country and Western spawned specialized sound formats too: City and Western, a blend of traditional C&W with some from the pop charts by the likes of Elvis Presley and other artists whose attraction was broader than rural audiences. More recently the distinction between Country and Pop is blurred even more with nominally Country artists such as Willie Nelson and Dolly Parton crossing easily to the Pop field.

In addition, something called Black Progressive sprang from the old-line Rhythm and Blues format.

Today it is tough even for students of broadcasting developments to put labels on all the variations of programming formats used by stations to try to establish their own distinctive program identities.

But you can hear them all when you tune the medium wave frequencies from 540 to 1600 kHz.

When To Listen. Distant reception on the medium wave AM band, that is reception beyond the "ground wave" signal area which extends from a few dozen miles for the low powered locals to a few hundred miles for the 50 kilowatt "biggies" (generally the daylight reception range), is a night phenomenon.

Distant reception is possible because radio signals, transmitted from the broadcasting antenna in a straight line, are reflected back to earth from space at considerable distances from their point of origin. Ionized layers of gases serve as the reflective "mirrors" high above the earth. During the daylight hours a certain ionized "belt" of gases acts as a sponge, sopping up the radio signals rather than allowing them to reach higher altitudes and other reflective gaseous layers.

After dark, however, the absorbing layer vanishes. Then the medium wave signals travel from transmitting antenna, head out into space at the horizon, encounter the upper ionized layer and bounce back earthward. Skywave signals, as they're sometimes termed, come skipping back farther away from their originating point. So distant radio reception is possible over paths of darkness between transmitter and receiver.

The hours from dusk to dawn are the best for BCB reception. And at sunrise and sunset, when there are greater changes occurring in the all important gaseous reflective layers, top notch reception of distant AM stations is likely.

Winter reception is normally superior to that in summer. For one thing, winter nights are longer, there's more darkness time. Secondly, in the cold

CUBA ON MEDIUM WAVE

All broadcasting in Cuba is under central governmental control, although there are various national and regional networks, such as Radio Rebelde, Radio Liberacion, Radio Progreso, Reloj Nacional, Radio Revolucion and more. La Voz de Cuba is a music, news and commentary program aired for about five hours a day on many Cuban stations. This is a list of the more powerful Cuban medium wavers.

kHz	Call	City	kHz	Call	City
550	CMAN	Pinar del Rio	760	CMCI	Havana
570	CMHI	Santa Clara	780	CMJN	Camaguey
590	CMW	San Antonio de las Vegas	790	CMCH	Havana
600	CMKV	San German	820	CMCA	Havana.
630	CMHQ	Santa Clara	840	CMH	Santa Clara
640	CMQ	Havana	870	CMDN	Guantanamo
660	CMHG	Santa Clara	880	CMAF	Pinar del Rio
670	CMKP	San Pedro de Cacocum	910	CMFA	Camaguey
690	CMBC	Havana	950	CMBF	Havana
700	CMJT	Ciego de Avila	980	CMCK	Havana
720	CMGN	Colon	1010	CMKM	Holguin
730	CMKJ	Holguin	1060	CMBQ	Havan
740	CMJL	Camaguey	1220	CMGY	Perico
			1250	CMHS	Caibarien



Wright College undergrad Glen Robbins has quite a line-up in his shack. He favors his Hallicrafters S-120 above all the rest.

months there are fewer electrical storms, which are the prime source of atmospheric noise or static.

A particularly good time to hunt for distant AM medium wave signals is on Monday morning. That means, inevitably, a loss of some sleeptime if you wish to take advantage of this optimum tuning time.

Many broadcasters that normally broadcast 24 hours a day take a two to six hour breather early Monday mornings, usually after their local midnight program. These stations leave the air during those early morning hours to allow engineers to handle routine maintenance work on the broadcasting facilities.

Needless to say, 24-hour a day stations cause problems for BCBers. These are often the powerful big city stations on the so-called clear channels and the somewhat less powerful regional channel stations, which dominate their frequencies. But as noted earlier, there are other stations on the same frequencies, other stations which can't be heard as long as the dominant "biggies" are present.

Fortunately, Monday morning silent periods leave certain frequencies relatively free of the common interfering stations.

But, as noted earlier, some of these "other" stations on the clear and regional frequencies are limited in their broadcasting hours. Many are on during the daytime only. They aren't scheduled to operate during the offbeat times like 2 to 4 a.m., Mondays!

So for the dyed-in-the-wool, the answer is to find those special occasions—or if need be, try to create them—when these outlets will transmit on an early Monday morning!

That brings us to a subject raised by one of our COMMUNICATIONS WORLD readers, Eddie Ryan. Eddie notes that he is Courtesy Program Committee chairman for his club, the Golden West

		AER MAJO	O FREQUEI R WORLD /	NCIES (kH AIR ROUT	lz) FOR E AREAS		
North A 2868 2931 2945 2987 5610 5624	tlantic 8854 8889 8910 13288 13328 13352	\$. Americ 2910 3404.5 5566.5 5581.5 5582 8845.5	8847 8847 8872 11327 13320 17916.5	North Pac 2910 5589 8938 Central E 3467 5551.5	13264 17909	Far East 2868 2987 5624 5645 8840	8868 13288 13312 17965
5638 5673 South A 2875	17966.5 tlantic 8882	S. Americ 2889 4696 6666	8826 11343	5554 5603 6679.5 8875 8879.5	11299.5 13304.5 13334.5 13336	Middle I 3404 3446 5603 6624	8847 10009 13336
3432 6597 6610 Caribbe : 2875 2952	6561 6 568	Europe 2910 3467 4689 5554 6568 6582	8875 8930.5 8931 8871 11303	Central W 2896 4675 5505 6631 South Eas	8854 11303 13296 17909	Africa (6 2966 3481 5505 6540 6561	8959 10025 13280 13336
2966 548 4 5568 6540	8840 8959 10017 11343	South Page 2945 5638	8847 13304	2987 5673 8837 8868	8882 10049 13344 17946.5	Africa (v 3411 5519	vest) 8826 13304

DXers Association (P.O. Box 5735, Seattle, WA 98105), and explains just what his committee does:

"As an avid DXer over the past few years, I have always enjoyed and valued COMMUNICATIONS WORLD as a reference source for my BCB DXing. I've noted with interest all items on medium wave DXing, however, there is one item of this facet of the hobby that has been ignored in the past. This is one of the most interesting and special aspects of DX and is, in my opinion, what makes a DX club particularly valuable. I am speaking about Courtesy Program DX tests.

"These are tests that give many DXers a chance to hear stations they otherwise would never receive," Eddie explains. "They account for many fine loggings for DXers. The tests, arranged by DX clubs, are generally conducted on Monday mornings when the majority of radio stations in North America sign off for maintenance, technical adjustments or whatever.

"There are generally three types of tests: (1) Those arranged specifically for a DX club and its members. These are becoming fewer and fewer in number these days. Stations cannot afford the time or do not care to make the effort to go on the air specifically for a DX club. Also the FCC frowns on this practice when it involves daytime-only broadcasters. (2) Those which are regularly scheduled frequency checks. Stations routinely go on the air periodically, usually at definite and pre-set times, to check the accuracy of their frequency. (3) Proof-of-performance tests, periodic checks to make sure equipment is operating within prescribed limits. The latter two types of tests are part

of a station's normal testing. These tests, lengthened and with more IDs-identifications — given, become DX tests."

Ryan continues with his description of BCB special test transmissions:

"As for the duration of such tests, this varies with the station. Some run only two or three minutes, others for two or three hours. The norm is one hour. Programming during a test varies with the station. Standard items are test tones and identifications. Also programmed may be such things as Morse code IDs which may be easier to 'read' if reception conditions are not favorable, mentions of the DX clubs arranging these tests, mentions of the names of DX listeners who have called in reporting their reception. Recently one station, KTIL, 1590 kHz, Tillamook, OR, ran a test and aired phone calls received from listeners as far away as Toledo, OH.

"Daytime only stations are more restricted. With these stations, their tests consist mostly of tones and identifications.

"Once a DX test program is arranged, the DXer arranging it with the station will inform the various hobby clubs. The information about the pending test broadcast is published in various DX club bulletins. Thousands of listeners are thus alerted to be listening for the special test on the stated morning, usually a Monday morning. This is a valuable service provided by the clubs and really is the only way a BCB DXer will find out about these tests.

"Since many beginning BCB DXers and some veteran ones not affiliated with clubs have never heard of such testing, it seems that some sort of de-

COMMUNICATIONS WORLD



scription would be in order for the next issue of COMMUNICATIONS WORLD.'

I agree, Eddie, and thanks for describing for CW readers this interesting aspect of medium wave BCB listening.

Other clubs which actively arranged such special DX tests with AM stations are the National Radio Club, previously mentioned, the International Radio Club of America and the Newark News Radio Club, also mentioned earlier. More information about these and other clubs, and details on joining one or more of them, will be found elsewhere in this issue.

Tuning Targets. It is possible to hear medium wave stations in all of the 50 states, but it is a tough trick to turn, and getting harder all the time. It isn't as easy as it once was-but make no mistake about it, it was never a snap. Today, for those living in the eastern half of the nation, Alaska proves to be the real stickler; Westerners will almost certainly find several of the New England states extremely hard to hear.

With time and effort, however, most conscientious BCBers should manage to hear 45 to 48 states.

Depending on where you live and the interference you face on certain channels from stations located in your part of the country, your approach to hearing all states may differ from other DXers. Check CW's list, How To Hear All 50 States On Medium Wave. But depending on your location, some may prove especially difficult to hear. If that's the case, check out White's Radio Log in this issue of COMMUNICATIONS WORLD for other stations in the same states, preferably those with higher powered transmitters.

A few concentrated weeks of listening should put as many as half of the 50 in your log book, I'll bet! Go to it.

But don't limit yourself to only one station from each state. How many different stations can you bring in on the BCB? Depending on the enthusiasm you bring to the hobby, that could be hundreds, yes, several thousand stations!

Most people, even those who never thought about listening to distant AM broadcasting stations as a hobby activity, a least are aware that it is possible to hear these stations from across the nation. There are plenty of non-DXers who have stumbled, in casually tuning their radios, across one or more of the powerhouse broadcasters elsewhere in the U.S.

But foreign stations on the AM medium wave band? Foreign stations? On shortwave frequencies, yes. But on medium wave,-not likely!

But these folks are wrong . . . just plain wrong! It is perfectly possible to hear foreign BCB stations, no matter where you live in North America.

First of all, there's the obvious. If you live in the U.S., Canada is foreign territory to you. And if you're a Canadian, the Stateside signals represent foreign stations. With one exception, however, I'll quickly skip past the U.S .-Canadian situation. The English-speaking stations on both sides of the border

sound pretty much alike, and for the most part, are considered "domestics" regardless of which side of the frontier you live on.

The exception I mentioned is the group of Canadian stations that broadcast exclusively in French. Beginning DXers on the broadcast band are often puzzled to hear loud signals from French-speaking stations on the medium wave AM dial. The French-speaking stations the novice listener will pick up at good signal levels will nearly always be Canadian broadcasters. These stations program to the large Frenchspeaking population of Canada in Quebec, principally, though not exclusively.

CBF in Montreal, 690 kHz; CHRC, Ouebec, 800 kHz; and CKVL, Verdun, 850 kHz, all in Quebec province, are three French-speaking outlets running considerable transmitter power. There are also some Canadian stations which are bi-lingual, using both French and English in their programs.

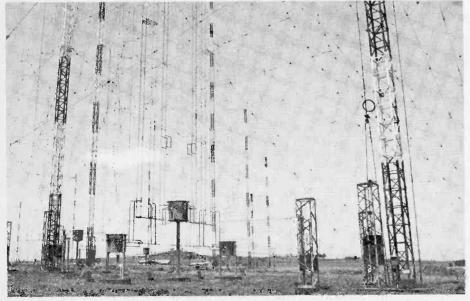
There are a number of Spanish language stations as well that will be easily heard when tuning the medium waves for the first time. Some of them will be Mexican.

However, perhaps the first Mexican outlets you tune won't even sound a bit Latin. For there are several stations, big, powerful stations just south of the border that program in English, at least at night, to American audiences. These stations include XETRA, 690 kHz in Tiajuana; XEROK, 800 kHz in Ciudad Juarez; XEPRS, 1090 kHz in Rosarito, and an old-timey station your Dad may have heard many years ago, XERF, 1570 kHz, Ciudad Acuna. The latter runs a full 250 kilowatts of power, five times that of the strongest U.S. or Canadian medium wave station.

Whether these border-area powerhouses program rock music, all news, country and western, or whatever format, they'll sound like American stations when you tune them-all except for the call letters, which begin with the Mexican "XE" prefix.

XERF, by the way, is the rock station that first brought fame to hirsute disco jockey and rock personality, Wolfman Jack. And if you're interested in a bit of BCB history-fictionalized, of course-you might watch your local theater ads for a new film featuring the Wolfman, a venture of a company call-The title: ed Howl Productions. "Shootout at ERF." Hmmmm!

Mexico, of course, is more than a few Americanized border "shouters" when it comes to AM radio. Most stations are broadcasting in Spanish for Mexican audiences. Many of these sta-



When this photo was taken several years ago, this antenna complex was owned by ETLF, Radio Voice of the Gospel, a religious station at Addis Ababa, Ethiopia. The station has since been taken over by the revolutionary government, and now operates on SW as the Radio Voice of Revolutionary Ethiopia.

MEXICAN MEDIUM WAVERS

For broadcast band listeners, here is a selected list of some of the more powerful Mexican medium-wave stations.

kHz	Call	Station	City	1030 1050	. XEQR XEG	R. Centro R. Melodia	Mexico City Monterrey
540 580	XEWA XEAV	L.V. de la America Latina Canal 58	San Luis Potosi Guadalajara	1090 1110	XEPRS XERED	R. Melodia R. Red	Rosarito Mexico City
590 620 660 680 690	XEPH XENK XERPM XELG XETRA	R. 590 R. 620 R. Uno LG, La Grande	Mexico City Mexico City Mexico City Leon	1130 1140 1150 1170	XEQD XEMR XEJP XERV	La Divertida La Nueva MR R. Varidades 	Chihuahua Monterrey Mexico City Arcelia
690 730	XEN XEX	Xtra Music R. Mundo L.V. de Mexico	Tijuana Mexico City Mexico City	1190 1220 1260	XEWK XEB XEL	L.V. de la America Latina R. Cuatro R. Capital	Guadalajara Mexico City Mexico City
790 800 810	XERC XEROK XEFW	R. Exitos X-Rok-80 Voz e Imagen de Tampico	Mexico City Ciudad Juarez Tampico	1290 1310 1370	XEDA XEBP XEMON	R. Trece R. Algeria 	Mexico City Torreon Monterrey
830 860 880	XELA XEUN XETZ	Buena Musica en Mexico R. Universidad Canal 88	Mexico City Mexico City Tequila	1420 1460 1470	XEWE XELX XESM	R. Irapuato R. Zitacuaro R. Cinco	Irapuato Zitacuaro Mexico City
900 940 950	XEW XEQ XEGM	L.V. de la America Latina La Q de Mexico R. 95	Mexico City Mexico City Tijuana	1500 1550 1560	XERH XEXB XEVIP	R. Seis R. VIP	Mexico City Jalapa Mexico City
970 980 990	XEJ XETU XET	R. Mexicana R. Tampico La T de Monterrey	Ciudad Juarez Tampico Monterrey	1570 1580	XERF XEDM	La Grande de Sonora	Ciudad Acuna Hermosillo
1000 1010	XEOY XEHL	R. Mil La Fabulosa HL	Mexico City Guatalajara	. 1590 1590 1590	XEKC XEVOZ XENMB	R. Voz	Mexicali Mexico City Valladolid

tions, and especially the more powerful ones, are often heard by U.S. and Canadian DX listeners. These stations would probably include XEW, whose slogan is La Voz de America Latina (The Voice of Latin America) on 900 kHz, and XEQ, 940 kHz, both in Mexico City.

Powerful Cuban medium wave outlets can be heard on 600, 670, 690 and 720 kHz, and in many parts of the eastern U.S., lesser powered Cuban signals are easily heard.

There are a number of other stations in the Central American and Caribbean areas which are not too difficult to log in North America.

We are most familiar with the ten kilohertz spread in this hemisphere—that is, we find our stations-neatly separated by 10 kHz. United States, Canadian, Mexican, Cuban and most stations in our part of the globe are found on frequencies evenly divisible by ten; 540, 550, 560, and so on, up through 1570, 1580, 1590 and 1600 kHz.

This is not the case in other parts of the world. And in parts of the western hemisphere, as well as in Latin America and the West Indies, you'll find some stations separated from others in their area by 15 or 25 kHz. Needless to say, if some stations are assigned on the basis of such odd frequency separations, at least half of them are going to fall into the "cracks" between the North American 10-kHz separations.

For example, ZIZ on the West In-

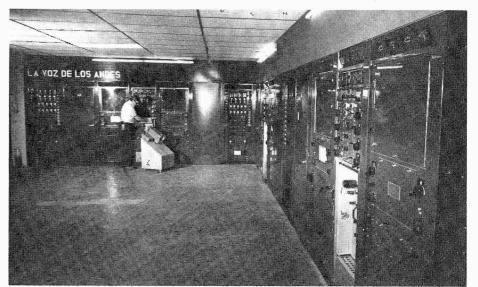
dian island of St. Kitts operates with 20 kilowatts of power on 555 kHz, half way between our "standard" frequencies of 550 and 560 kHz. On 655 kHz is YSS in El Salvador. A fairly recent addition to the Caribbean/Gulf area broadcasting scene on medium waves is Radio Cayman on Grand Cayman Island, not far from Jamaica. It uses two frequencies, both in the "cracks," 1205 and 1555 kHz.

BCB listeners call these in-between frequencies "splits." They make it far

more likely for North American listeners to hear these foreign broadcasters. With a very selective receiver, it is possible to hear distant stations on "split" frequencies while domestic stations—as long as they are not too strong—are simultaneously operating on the North American "Ten-Kilohertz" frequencies on either side.

Mention transatlantic or transpacific DXing on the medium waves and non-DX types will stare in disbelief.

"You don't mean you can tune in



La Voz de los Andes. That's Spanish for the Voice of the Andes, HCJB. This photo shows HCJB's three powerful RCA 100kW transmitters at the Pifo, Ecuador transmitter facility. In the background, engineer Jim Heck makes careful transmitter adjustments.

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	HEY CABBIE	!
Freq. (MHz.)	VHF Channel Number	UHF Channel Number
152.270 152.300 152.330 152.360 152.390 152.420 152.450 452.050 452.100 452.200 452.250 452.300 452.350 452.400	1 2 3 4 5 6 7	1 2 3 4 5 6 7 8

stations in Great Britain, or France, right on the AM band? Come on!"

But it is possible, as the knowledgeable BCB fan knows, even probable that some transoceanic signals will be logged. If you live on the east coast, your chances of hearing at least a few transatlantic stations are quite good, but those in the heartland of the continent can also realize this. On the west coast, the Japanese, North Korean and Chinese stations, as well as those stations in Asiatic Russia, are not at all difficult to log on medium wave.

Easterners will be able to hear signals from parts of Europe, North and West Africa. Westerners also may be able to hear stations in Hawaii, Australia, New Zealand and other Pacific Islands.



Many of Sylvester M. Hutton's 40 years of DX'ing have been spent listening to his 1941 Philco 4-band. He tunes BCB and SW.

In the center of the continent, both transatlantic and transpacific DX is possible, though it is not as common, or as well heard as on the coasts.

Again, this sort of overseas reception is generally the happy result of the use of "split" frequencies. In Europe and Africa, for instance, stations are separated by eight or nine kilohertz gaps, which, of course, puts them in the "holes" between the North American channels.

But make no mistake about it, hearing transoceanic signals is not just a matter of turning on your transistor portable and, voila, there's the British Broadcasting Corporation's Radio 1 program on 1214 kHz, or Radio Monte Carlo on 1466 kHz. It takes some tuning experience and some reasonably decent listening gear, a communications type receiver (which some folks would call a shortwave receiver, but as you can see, we're now talking about medium wave reception). Coastal listeners will have something of an advantage, but transoceanic BCB signals are possible nearly anywhere in North Amer-

If you want some goals to shoot at, consider what these veteran medium wave listeners have accomplished over the years:

Ben Dangerfield, Pennsylvania: 117 different countries heard and confirmed on the medium waves. Hilding Gustafson, an Illinois resident, has 105 countries tallied. Ron Schiller, Texas, counts 86 countries logged and Don Reynolds, California, 84.

Off-The-Wall DXing. Many DXers love to listen to shortwave. And, as we've seen, there are medium wave BCB fans as well. But there are some lesser known forms of DXing that have their adherents as well.

Here at CW we enjoy hearing about your favorite aspect of the DX hobby. We enjoy hearing about it because we can pass them along to the rest of our readers.

Some of our readers go in for the really far-out aspects of the monitoring hobby. One of these guys is Al Cikas of Springfield, IL. But I'll let Al tell you all about it:

"I'm a shortwave listener and I have been listening, off and on, for 16 years. After a few years of relative inactivity in the hobby, I rekindled my interest about two years ago. I purchased a used BC-348 receiver, a military surplus unit.

"I quickly began DXing, but I felt something was missing in the hobby.

Somehow just listening was no longer enough for me. I thought about acquiring a teletype machine to read RTTY traffic, or perhaps building a satellite converter or such.

'Then about a year ago, I heard two ham operator discussing something I wasn't aware of, the sending of pictures via radio—Slow-Scan Television (SSTV) over shortwave radio. I could hear the 'sound' of the video signals as transmitted by the hams, but I became curious as to what the signals would look like translated into video pictures. There was only one way to find out—build a monitor."

Reader Cikas was bitten, it seems....
"The more I read on the subject, the easier it looked. A visit to a local ham operator's house, equipped with a working TV monitor, sold me. SSTV was for me!

"The simplest circuit was an adaptor to convert an oscilloscope and that's the circuit I built. It takes five or six months on the average—and other hams confirmed this for me—to acquire all the necessary parts and get the bugs worked out. Then it is simply a matter of monitoring the amateur radio shortwave bands, from 80 to 10 meters, for incoming signals.

"The video signals can be taped (as audio sounds) on any tape recorder, even a \$20 cassette unit, and can be played back again and again for video display. It is also possible to photograph the pictures on the screen, even with a Polaroid camera. And the receiving equipment is minimal. I use the military surplus BC-348 with a 33-foot longwire antenna. The video resolution is 120 lines.

"A few words of caution, however. Slow Scan TV is not for everyone. Costwise it is about the same as for a large portable TV and, depending on the size of your parts 'junkbox,' a large amount of time may be required to assemble the adaptor circuits. Anytime you work with video, new headaches are bound to develop.

"But SSTV gives SWLing a whole new dimension," Al stresses. "There are a lot of circuit designs to choose from, as well as a large selection of literature on the subject at various ham radio parts stores or mail order dealers. Construction is not for the beginner. Good building-practice is a must. But the rewards, I have found, are endless!"

Normally, in COMMUNICATIONS WORLD, I don't get into amateur radio topics. For more about ham radio, see our sister publication, AMATEUR RADIO TODAY, soon to be on the newsstands. But in Al's case we have an instance of a technically-minded shortwave listener



Al Cikas, Springfield, IL is into an off-beat form of DXing, monitoring the video pictures of amateur radio slow-scan TV (SSTV). (See text.) Al has constructed an adaptor (flat unit on desktop) to convert an oscilloscope (left foreground) to receive the video signals.

straying from the beaten path and finding a whole new aspect to his DXing!

As he says, DXing the hams' SSTV signals is not for everyone. Not by a long shot! But perhaps it is for you!

Incidentally, our reader offers to answer readers' inquiries about his TV monitoring system. His address is Al Cikas, 2112 Stonehenge, Springfield, IL 62707. Thanks, Al!

DXing The Snow Bands. Amateur radio's SSTV may require more technical know-how than you've got right now. But there is a much simpler way to get into TV DXing without any special equipment or electronic expertise. I'm talking about hunting distant signals on the regular, everyday TV VHF and UHF channels.

Maybe you've never given much thought to the possibility of DXing on the TV channels. If so, then this is yet another unexplored area of the monitoring hobby you might consider. There are a lot of enthusiasts out there who have been seeking the far off and far out TV signals for ten, twenty, even thirty or more years, since television was in its infancy!

Is TV DX, distant reception of TV signals, unusual? Not as unusual as you might think. In fact, you may have already received some distant signals just in the course of your regular television viewing.

Sometimes the first hint is unusual interference on your regular TV channels. You may observe, on one of your normally watched channels, black interference "bars" across the picture like venetian blinds. Other times the distant signal, from a station from hundreds of miles away, perhaps a thousand or fifteen hundred miles away, will just fade in with surprisingly strong, but often unsteady signals.

It helps to have an exterior, good quality antenna, preferably with an



A sample picture transmitted by a radio amateur on 14,230 kHz in the 20 meter ham band, as received by Al Cikas.

antenna rotor, so you can beam the antenna toward the distant station, or away from local area interfering stations. And frankly, there is a lot of luck involved in pulling in identifiable distant TV signals. Often it is more a matter of being aware when favorable conditions occur and then making the most of them.

Assuredly, it is not just a case of turning on the TV and deciding to tune for a station in Denver or Miami. But distant TV reception relies on several well-documented natural phenomena. Knowing how they "work" can help you to be ready to DX television signals when the conditions are optimum.

One of those phenomena is known as tropospheric bending. It is a weather-related condition that affects signals on both the VHF and UHF channels, making reception over distances of from about 300 to perhaps 1,000 miles possible. Three hundred to five hundred miles is perhaps the most common reception range via "tropo." Signals tend to be steady and have a slow fading pattern.

Tropospheric bending of television signals back to earth, far from the transmitting antenna, occurs when there is a temperature layer inversion in the troposphere above the earth. The inversion causes a "signal pipeline" or path that bends VHF and UHF frequency signals, causing them to follow the earth's curvature—rather than shooting off into space in a beeline at the horizon—and to be received far beyond normal video signal range.

Tropo can happen anytime during the year, when the weather is "right." It is most common in late summer and early autumn, however.

Some really extensive tropo "openings" (such as what occurred last August on all VHF channels for over a week when a weather pattern stalled

over the north central states) can cause chaos on the TV, with distant signals interfering with regular local TV reception. But the average viewer's chaotic situation was heaven to the TV DXer who busily went about trying to identify those signals that periodically became identifiable during the tropo opening.

Another cause of distant TV reception is the so-called Sporadic-E Skip.

Above the weather, above the atmosphere, far above earth is the ionosphere. Here are a series of gaseous layers or belts around the globe. These layers of ionized gases are responsible for all distant reception on medium and shortwaves, regularly. On an irregular basis, they cause distant reception on the VHF frequencies above 30 MHz.

Radio signals travel, like light waves, in straight lines. But the earth is ball-shaped. So when a transmitted radio frequency wave leaves an antenna it travels toward the horizon . . . and keeps going. As the earth's surface below bends away, the radio signal continues traveling in a straight line into space.

Without the ionized layers circling the earth "out there," there would be no radio reception beyond perhaps a few hundred miles, depending on the transmitter power and antenna.

But as the radio signals travel outward bound, before long they encounter one of the gaseous layers of the ionosphere. While the longer medium and shortwave frequency waves are easily refracted in passing through the layer

JAPANESE BCB OUTLETS

☐ Japan has hundreds of medium wave outlets, many of them very low powered. Some operate synchronized transmitters—identical programs on the same frequency from different transmitters at various locations. Some stations, however, run as much as 500,000 watts. This is a selected list of those Japanese medium wave outlets most likely to be heard on this side of the Pacific.

kHz	Call	Location	kw
670	JOBK	Osaka	100
700	JOFB	Hiroshima	10
	JOKD	Kitami	10
750*	JOIB	Sapporo	100
770*	JOUB	Akita	500
830*	JOBB	Osaka	300
840	JOQK	Niigata	10
870*	JOGB	Kumamoto	500
880	JOPK	Shizouka	10
890	JOHK	Sendai	20
1210	JOOR	Osaka	50
1440	JOWF	Sapporo	50

*Best bets for reception east of the Rockies

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and come bouncing back toward earth, like a light wave reflected by a mirror, only rarely does this happen on the the higher frequencies. Normally, with VHF signals, the ionized layer is not "dense" enough to serve as a mirror for the signals. Only sporadically does the layer of the ionosphere—known as the "E" layer—become ionized to the extent that it can bounce back distant VHF TV signals. Thus the name, Sporadic-E skip.

Sporadic E skip (Es) can bring in signals from up to 1,500 or more miles away, but not less than about 500 or 600 miles. On rare occasions, double or even triple "hops" make really long haul receptions possible, such as from Central America or northern South America.

Es signal reception is very unpredictable, but the prime season for this propagation phenomenon is late spring and early to mid summer. A second and minor Es reception season may be noted in December or early January. Best chances for distant signals via Es will be on the low VHF channels—2, 3 and 4, though channels 5 and 6 also can bring such skip signals as well. Rarely, if ever, do Es extend above channels 7 or 8.

Sporadic E skip and tropospheric bending account for most of the TV DX reception noted by hobbyists. But there are some other natural causes that can bring long distance TV reception, though less frequently.

The F₂ ionospheric layer, like the E, can bring distant reception, though it often does not extend as high in frequency as TV channel 2. But it can bring distant VHF public service low band signals in the 30 to 50 MHz band. And some years ago, F₂ reception made it possible for an experimenter in Australia to receive both video and audio signals from the BBC-TV in Great Britain. This, however, was on a frequency lower than our lowest—channel 2—more commonly affected by F₂ skip.

Auroral activity—the Northern Lights are the most visible example—can cause distant reception on TV channels by providing "reflection" points similar to Es. Auroral propagation is usually characterized by wildly fluttering video pictures and garbled audio. Meteor showers, even lightning, can provide "reflective" points to bounce distant TV signals back toward earth. But these phenomena are of only minor imporatnce to the TV DXer.

Frequency-wise, the FM broadcasting band, 88 to 108 MHz, falls into the hole between TV channels 6 and 7. The VHF aeronautical band and the high band public service communications also use the frequency space between those two TV channels. So therefore, the same sort of natural factors that make distant VHF TV reception pos-

sible will also bring in distant FM radio signals.

It may even be easier to start out in FM DXing than it is to begin monitoring the snow bands for far away stations. Regularly tune the FM band. Become familiar with the "regulars," those stations in your area that you receive on a day-in, day-out basis. Check out the list of FMers in White's Radio Log. Look for the more distant stations, 100 to 200 miles away. Be alert for conditions such as tropospheric bending and Es that will, on occasion, produce the really distant stations.

Dr. Bruce Elving, a Minnesotan who has logged more than 1,000 FM stations, has said, "FM DXing is much like fishing. You have to be around when conditions are favorable. Generally the best antenna and receiver will not work as well on the poorest day as the poorest set on the best day!"

In other words, for FM and TV DX you've got to be there when it's happenin', baby! And when it's happenin', be there!

Out of the Mailbox. Time now to read the mail to find out what you, the COMMUNICATIONS WORLD readers, are doing and hearing. I look forward to learn about you and your DXing interests and experiences, consider your comments and answer—if possible—your questions.

This may also be a good time to remind you that I am always pleased to receive your photographs. Again, this time you'll be seeing the faces of many CW readers plus their DXing gear in these CW pages. You can join them in the pages of a forthcoming issue of CW if you send them in along with some information about yourself and the equipment shown in your DX "shack."

Send your letters to Don Jensen, Communications Editor, Communications World, Davis Publications, Inc., 380 Lexington Avenue, New York, NY 10017.

The first letter out of the box is from Peter G. Davies, St. Louis, MO, who says:

"I haven't been listening too long, but the first shortwave station I heard, and the one I hear most often, is HCJB, the Voice of the Andes, in Quito, Ecuador, South America. My grandfather, who used to listen to shortwave years ago, says he remembers HCJB from before World War II. Can it really be that old?"

Never doubt your granddad, Pete! He's right on target. Actually, HCJB, probably the best known and best heard of the many shortwave Christian missionary type stations, is not too far from being a half century old!



Video recording engineers monitor a taping session at Moscow's television center. If not for the sign in Russian, this might be a scene from any American studio.

FOREIGN MEDIUM WAVE DX'ING-WHEN TO TUNE

Station Location	Eastern North Ameirca	Western North America
Central America	year around, winter best	year around, winter best
Caribbean area	year around, winter best	year around, winter best
South America (Northern) (Southern)	year around, winter best spring, summer, fall	year around, winter best summer
Australia/New Zealand	spring, fall	spring
Asia	fall	fall, winter
Europe	fall, winter	winter
Africa (Northern) (Southern)	fall, winter spring	winter unlikely

The Voice of the Andes first went on the air on Christmas Day, 1931! The first programs were broadcast in Spanish, but since, HCJB has added a number of other language programs: Czech, English, French, German, Japanese, Swedish, Finnish, Norwegian, Danish, Portuguese, the Indian language Quicha, Romanian, Russian and Spanish.

HCJB is part of the World Radio Missionary Fellowship, Inc. Each broadcasting day contains more than 65 program hours and around 160 transmitter hours. The station, in its Quito headquarters, has a radio chapel, eight other studios and nine control rooms, two of which are equipped for stereo operation. A microwave relay system is used to send the programming to the transmitter and antenna site at Pifo, Ecuador, about 15 miles away.

Perhaps by the time you read this, Pete, HCJB will be running its master control room with the aid of a computer-controlled, fully automated "Program Automated Control System," which will automatically pass and maintain a log of all programs broadcast.

The station has eight transmitters, including a standby medium wave station, at the Pifo center. There are 19 different transmitting antennas supported by 28 towers, ranging in height from 80 to 240 feet. The transmitters have a combined power of nearly a half million watts. The most powerful HCJB shortwave transmitters run 1000 kilowatts of power each!

The station literally operates around the clock, sometimes with as many as three different broadcasts, in three different languages, on the air at the same time on different transmitters and frequencies.

HCJB transmitting equipment is powered by electricity generated by the station's hydroelectric site at Papallacta, which harnesses water power from the Andean lakes and rivers.

In addition to the Pifo transmitter

complex, HCJB broadcasts AM BCB and FM stereo to the local audiences from transmitters on Mt. Pichincha, overlooking the Ecuadorian capital city of Quito.

When HCJB started out, 47 years ago, its target area was South America. Today the station looks for listeners in North America, Central America, Europe, the Soviet Union, Japan and the South Pacific as well.

During 1977, the station received more than 110,000 letters, including 36,000 from Japan, 28,000 from Spanish-speaking listeners, 16,000 from English-speaking persons and nearly 13,000 from German-speaking audiences.

More than 2,900 persons, mostly DXing fans, have joined the station's SWL club, Andes DXers International (ANDEX), since it began in 1974. Members range in age from 8 to 84. Along with the club is HCJB's program, DX Partyline. Clayton and Helen Howard direct the club as well as the DX program and put out a monthly bulletin for ANDEX members. The program was voted the most popular by HCJB's Englis-speaking audience.

To operate the Voice of the Andes and its auxiliary operations (which include two hospitals in Ecuador and moblie medical care units) it takes about 430 missionaries, employees and supporting personnel plus about 65 nonresidents, most of whom are in the U.S. and Canada.

So you see Peter, HCJB, the Voice of the Andes (Box 691) in Quito, Ecuador, has grown into quite a broadcasting operation since your grandfather first tuned it. It is continuing to grow, with its new 500 kilowatt transmitter expected on the air shortly.

Next, a couple of queries that fall into the "who did I hear" category. As these two cases demonstrate, sometimes it is possible to help you identify your mysteries, and sometimes it isn't.

First Bob Heitzman, Rutland VT, asks about "a Portuguese-speaking sta-

tion playing American pop music. The station IDed as the BBC in Sao Paulo, Brazil; the frequency was near 12,120 kHz."

There just isn't enough here to go on, Bob. However, the BBC is the British Broadcasting Corp. and is located, of course, in Great Britain, not Brazil. The BBC does have several relay stations, in Singapore, Cyrus, etc., but not in South America.

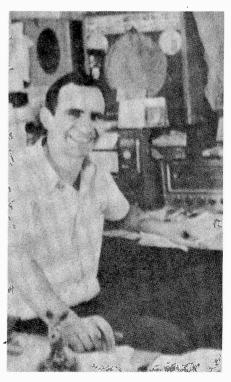
If your reception was in the late afternoon or early evening, you may have heard the BBC broadcasting to (not from) Brazil, in Portuguese. And your frequency quote is very probably "high."

An even tougher one is posed by Mark Henderson, Palmer, AK. Our Alaskan reader writes that he heard a station signing off at 0330 GMT, on frequencies in both the 25 and 19 meter bands.

The station, Mark writes, announced, "We are on the air every Tuesday, Wednesday, Friday and Saturday, from 7 to 7:30 p.m. Summertime, or from 8 to 8:30 p.m. PST, winter time."

"The identification sounded like, "Radio Urehan, central de vittorio board of the 48th bastian Republic of the Wilkheim. Goodbye, listeners!"

Sure you aren't pulling in the TV audio from "Battlestar Galactica," Mark? Seriously, though it's clear you're going to sharpen up your ear for



Bob Padula is one of the best known overseas listeners. An Austrailian telecommunications engineer, he is an editor of the Austrailian Radio DX Club and an author.

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those "tough-to-get" IDs, from that bit of gibberish I think what you actually had was Radio Yerevan, programming for Armenians abroad, aired by various stations in the Soviet Union.

And a couple that are a lot easier to ID:

Bill Bergadano, Staten Island, NY, says, "At 0200 today I caught a station IDing as "Radio Marajenis." I believe its announced location is Chile. The frequency was around 11,920 kHz, with good reception. Programs were in Spanish. By any chance do you have any idea of what I heard?"

Yep, Bill I do. It was the Radio Magellanes program broadcast by Radio Moscow to Chile. It is aired from 0200 to 0230 GMT in Spanish. As with all Radio Moscow programs, they may actually be transmitted by stations anywhere in the USSR. And remember also that Moscow frequently changes its frequencies.

Bill continues with a tip for BCB medium wavers: "For DXers who collect station stickers, I've gotten a few from stations when receiving QSLs, including WTMJ, 620 kHz, Milwaukee; WTAQ, 1300 kHz, LaGrange, Illinois; and WMOO, 1550 kHz, Mobile, AL."

John Stefanich, Bradley, IL, asks: "Have other listeners reported this station? I heard a broadcast in English in the 13 meter band. The announcer gave the time-9:27 p.m. local—and the station ID as Springbok Radio. The program consisted of popular music and the listeners were supposed to identify the numbers played. If the listener failed, a certain amount of Ruud or Rudd, their monitary unit, would be added to the jackpot. I'd like to see your comments regarding this in your next issue of CW."

Okay, John, here they are. You're right on target with the identification. The station is Springbok Radio, which is a domestic shortwave commercial radio service in South Africa. The monitary unit of the Republic of South Africa, by the way, is the rand.

Other listeners may have more luck hearing this one on 11,935 kHz, where it has been heard at various times—late at night and early in the morning.

Speaking about South Africa, a short-wave outlet from that country which is more commonly logged is Radio RSA in Johannesburg. And Glenn Bisgaard, Fife Lake, Saskatchewan, Canada, has a question about Radio RSA, plus several others, including Radio Nederland, the British Broadcasting Corporation's Far

East relay station and our previously mentioned HCJB. the Voice of the Andes in Quito, Ecuador.

"Could you please send me the addresses of these stations?" Glenn asks. "I want to send reception reports so I can receive OSL card."

I've already noted HCJB's box number address. Radio Nederland's address is P.O. Box 222, Hilversum, Holland. Radio RSA can be reached by writing to P.O. Box 4559, Johannesburg 2000, South Africa. And the BBC relay can be contacted via the home office of the British Broadcasting Corp., Box 76, Bush House, WC2B 4PH, London, England, Great Britain.

But, Glenn, if you're going to send reports to the stations you hear, you'll need a good address book with the addresses of the stations you hear on shortwave. There are two good ones:

World Radio TV Handbook: the so called DXer's bible, packed with all sorts of information including addresses, but much more on frequencies, schedules, leading personalities, programming, etc., etc. It is a must for all serious SWLs! It is published annually in Denmark-though the text is, of course, in English. At this writing the cost of the 1979 issue was not available. You may contact two North American representatives listed in the book: Gilfer Associates, Inc., P.O. Box 239, Park Ridge, NJ 07656; or Glen Mueller, Billboard Publications, Inc., 2160 Patterson St., Cincinnati, OH

QSL Address Book: by Gerry Dexter, which contains—as the name indicates—the addresses of stations around the world. There is also information on the "Art of Reporting" to get those verificaitons. It sells for \$4.75, and may be ordered from Gilfer Associates, Inc. (see address above).

Quite a number of our COMMUNICATIONS WORLD readers enjoy listening to shortwave stations from overseas countries. But some of them also live abroad. I've found from past listener response that many of you readers are interested in what can be heard on the shortwave bands when one actually lives "over there."

And with a firsthand report, heeeeeeeere's. . . .

"Don Clausen is my name and I live in Germany. My father is an Army 1st Set.

"I've been SWLing or DXing for some months now. I know the basic tricks and have felt out the shortwave frequencies enough to be entitled to the status of advanced beginner. I spend a lot of my day listening!

"Here's a little about my background. I'm 15 and lived in Oakland, CA for 13 years. I came to Germany about two years ago and became intersted in SW. I then had a little electronics background behind me and more clearly understood what it was all about."

Don's letter goes on:

"I've logged Germany, Albania, Radio Peking, Radio Moscow, BBC, the VOA, the U.S.A.'s AFRTS, Hungary, France, Spain and other countries around the world.

"To go through a 24-hour period would be very complex because there is so much to hear. The 49 meter band seems very popular though.

"I have found that the eastern European locations, such as Albania and Czechoslovakia are easy catches during the late Greenwich times, 2100-0100."

Thanks, Don for the capsule report on your SWLing in Germany. And now from the other side of the globe, another letter:



This multi-story building in downtown Montreal is the home of Radio Canada International, "Maison de Radio Canada."

"I am Dante T. Atendido, a Com-MUNICATIONS WORLD reader from the Philippines. I am 18 and have been DXing for four months and have heard 30 SW stations in 20 countries with my portable multi-band receiver with telescoping antenna.

"One of the DXing problems in our country is where to buy a big fancy receiver. Only portables with poor frequency readout are available in the radio stores. But I did see a used Hallicrafters S-120 in a junk store priced at 550 pesos or \$75.

"I've heard stations from other parts of Asia, from Europe, Australia, Africa and North America. I am watching for South American stations, but because of my unsophisticated receiver, I think receiving such stations will be real luck.

"Reception here in the Philippines is better on the 16 meter band during day-time to late evening. The 19, 25 and 31 meter bands are best in the morning, as the sun rises, until about 9 a.m. Stations are received well on 41, 49 and 60 meters during the night time, but I've never received stations on the 75 or 90

meter bands."

Thanks, too, Dante.

And now it is back to Germany again and a letter from Juergen Mangerich who is 20, a student, and living at Frankfurt-am-Main. Juergen says he lives in the fourth floor of a house on a busy road and because of interference cannot DX during the daytime. But he still has received QSLs from 63 stations in 46 countries.

"Once I was on vacation in a little village about 50 miles away from Frankfurt in the countryside. On a relatively old receiver there, I happened to tune shortwave by accident and heard the Voice of America very strongly. From that time I have been fascinated by shortwave.

"Today I am a member of the two biggest DX clubs in Europe, the Assoziation Deutschsprachiger DXer and the Arbeitsgemeinschaft DX, both of which publish club bulletins, of course in the German language.

"I think it is a good idea to publish such a magazine as COMMUNICATIONS WORLD. I am sure that in North America there is a great deal of interest for such a magazine. Over here in Germany there is no such German magazine, only the publications of the radio clubs.

"It was very interesting for me to learn that you deal with the several branches of DXing in the States. Most astonishing for me was to learn that you even monitor local services such as the police or fire departments on VHF frequencies. This is totally prohibited over here. In general, the German laws dealing with the reception of transmissions are much harsher than the American ones.

"Another point struck me. The frequencies you mentioned in past issues of COMMUNICATIONS WORLD may be out of date before your readers see them. I think it would be of use to tell readers that the broadcasting stations of the world change their frequencies four times a year. If the readers don't know this they may tune to frequencies you list in CW, but won't find those stations."

You're quite right of course, Juergen, many of the powerful international broadcasters do change frequencies on a seasonal basis—and some change even more frequently. I've tried to point out this fact many times, and again urge readers to check other frequencies in other bands if they fail to find stations when and where I indicate they were operating when this text was written.

Generally there are more changes in frequencies than there are in times and program schedules. So usually you can find the station on another frequency, if the channels have been altered after this manuscript has been completed.

However, I should also point out that domestic service stations in various parts of the world change their frequencies less often than do the big international broadcasting stations.

Normally I don't list reader addresses in these pages. The pen pal operation is a bit more than I can take on. However, Juergen indicates that he would like to hear from North American listeners, and since I believe many SWLs over here would enjoy contacting a German DXer to exchange listening experiences, I'm making an exception.

Our German reader's address is: Juergen Mangerich, Breite Gasse I, D-6000, Frankfurt-am-Main 1, Federal Republic of Germany.

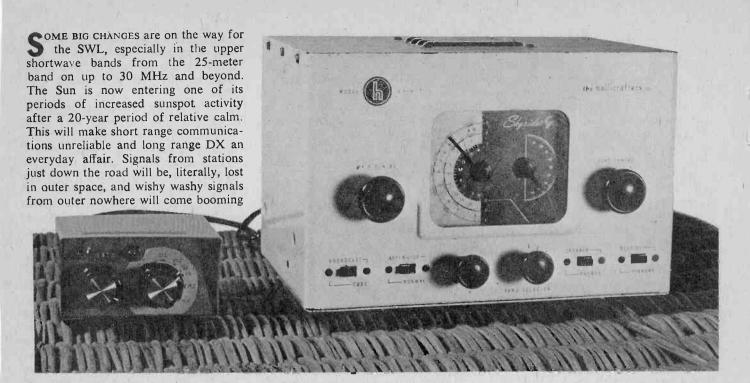
And, with that, it is time to close the mailbox for this issue, with the note that I'm always happy to hear from you, whether you live in the Philippines or Germany, here in the U.S. or Canada, or any place in between.

Until next time, good DXing!

LATIN AMERICAN TELEVISION

Under the right conditions, described in the text, long distance television reception is possible on the lower TV channels. This means Latin American TV reception is possible in the southern part of the U.S. and reception of Cuban and Mexican stations can occur in much of the rest of our country. Here are some possible targets for U.S. DXers.

Country	Station	Channel
Barbados	Caribbean Broadcasting Corp.	3
Costa Rica [,]	Co. Costarricense de Television	2
	Radio Television Tic-Tac	4
Cuba	Television Nacional Canal	
	Havana	2
	Ciego de Avila	2
	Santiago de Cuba	2
	Holguin - Camaguey	3 4
•	Santa Clara	4 5
	Havana	6
	Camaguey	6
Dominican Republic	Radio Television Dominicana	· 4
· "	Corp. Dominicana de Radio y TV	ż
El Salvador	Canal Dos YSR-TV	2
,	Canal Quatro YSU-TV	4
Guatemala	Radio Television Guatemala	3 -
Mexico	XHIA, Torrejon	2
• 1	XEPM, Ciudad Juarez	2
	XHCH, Chihuahua	2
	XEW, Mexico City	2
	XEFE, Nuevo Laredo	2
	XHBE, Mexicali XEPB, Monterrey	3
	XEZ, Cerro del Zamorano	2 2 2 2 2 3 3 3 3
	XHY, Merida	3
•	XHTV, Mexico City	4
	XHBS, Ciudad Obregon	4
Nicaragua	Televicentro de Nicaragua	2
Puerto Rico	Telemundo, WKAQ-TV	2
	WIPM-TM	3
	WAPA-TV	4
	WORA-TV	5



SHORTWAVE SUPERCHARGER

Turn your old SW clunker into a high-band hot-rod.

into your listening post like they were right next door.

Under these conditions many old and some not-so-old shortwave receivers will need a bit of help when they try to work the high bands. Their circuits tend to get a little frazzled. As a matter of fact, almost any SWL would appreciate a bit of a signal boost now and then. It might just

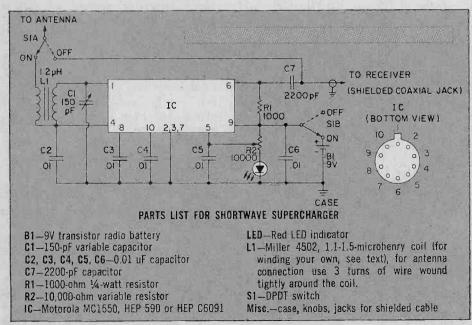
make the difference between a very good DX catch and a record breaking DX discovery.

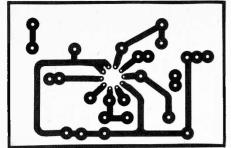
If you decide you want a DX boost or you need to increase the versatility of your old set then you should build this Shortwave Supercharger.

This unit will boost selectively the RF signal by 20-30 dB and it will compensate for many deficiencies of your set.

It will not only improve the gain of the shortwave receiver but will also improve its selectivity and the image frequency rejection. Simple, single conversion superhet SW sets have the annoying tendency of receiving spurious signals separated by twice the IF frequency from the desired signal. For example if you tune to 20 MHz you may also receive $20 + (2 \times 0.455) =$ 20.910 MHz (image frequency) signal which will interfere with the 20 MHz signal. In addition you will be able to pull in many SW stations you didn't even know existed. With 10- to 15-feet of wire behind your sofa as an antenna you may receive stations as distant as Australia or mainland China.

How does it work. The circuit is based on an inexpensive integrated circuit manufactured by Motorola and its HEP subsidiary. Its innards consist of three transistors, a diode and four resistors which together form an excellent automatic gain controlled (AGC) radio frequency amplifier. To build the circuit with separate discrete components would cost a bundle and the result would not be as good. The incoming RF signal is coupled with a few turns of wire to the coil L1. The tuned parallel-resonant circuit consisting of L1 and C1 selects the wanted signal by rejecting adjacent frequencies and feeds the sig-

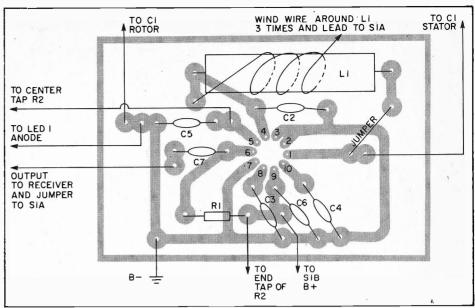




Use this full-size circuit-board template to build your Shortwave Supercharger. You can find etching materials at a radio shop.

nal to pin 1 of the integrated circuit. The amplified signal leaves the IC on pin 6. The AGC input on pin 5 is used to control the gain of the amplifier when you turn potentiometer R2. The light emitting diode indicates that the circuit is on and that the battery is still alive. The DPDT switch S1 selects between straight-through connection, booster off and booster on.

Construction. This is a radio frequency project which requires a neat soldering job and short connections. However, if you do a half-decent job the supercharger should fulfill your expectations. The author used point-to-point wiring on a perf board. If you have some experience with PC boards you might use the layout shown here. The Supercharger with the indicated component values will cover approximately 10-30 MHz. Using different values for L1 or C1 will change this range, though the ratio of minimum to maximum frequency will remain 1:3. Doubling the capacitor or inductance value lowers the frequency by 1.41 and lowering either value increases the frequency by the same factor. If you want to substitute some parts, or wind your own coil or use a different capacitor, the circuit is quite flexible in this respect. For example you may want to replace the 150 pF capacitor C1 used by the author since this is often difficult to find. Use instead the oscillator half of the stand-



This part's location overlay is twice the actual size in order to make the positioning clearer. If you use a loop different than specified in the parts list you may want to modify the appropriate spacing on the printed circuit board. Don't forget to wrap the L1-to-antenna wire around the loop stick three times. You might install an integrated circuit socket on the printed circuit board to simplify installation and repair.

ard AM tuning capacitor from any pocket transistor radio. Instead of the coil mentioned in the parts list you might try to wind 15-20 turns of insulated copper wire on a pencil.

Mount the Shortwave Supercharger inside a metal case which you can find in most electronic supply stores. Use shielded cable between the supercharger and your receiver otherwise the connecting wire will behave like an antenna and some of the features of your supercharger will be lost. The final job is to make a dial. You can calibrate it with your shortwave receiver by tuning C1 to optimum reception.

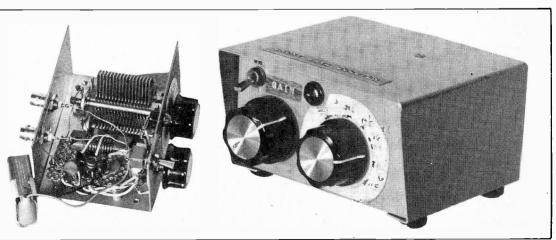
If you find that the circuit "whistles" at certain frequencies (this may easily happen if you do not use a PC board or your connections are too long), the simplest cure is to thread a few small ferrite cores through pins 1 and 4 of the

IC. Such cores can be purchased from many electronic surplus dealers.

Operation. Tune your receiver to the desired frequency and then tune C1 till you can hear maximum signal or noise, if no station is present. Returning your receiver with the fine tuning knob should require no readjustment of the supercharger. You can use R2 as your volume control or leave it in some intermediate position and use the volume control of the receiver. For strong signals you may want to turn R2 back to prevent overloading the receiver with the corresponding increase in the background noise.

Once you get it working, start diging deeper into the higher shortwave frequencies. There is a lot going on out there and with the increased sunspot activity and a Shortwave Supercharger you can't go wrong.

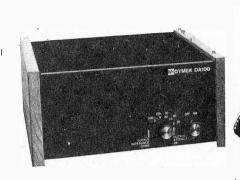
The author's prototype, shown here, used perfboard and point-topoint construction. You may build your Shortwave Supercharger using this technique or by making a printed circuit board and soldering on all the parts. The author added a small LED power indicator to prevent dead batteries if left on.



c/w checks out the...

DYMEK DA100 ALL-WAVE RECEIVING ANTENNA

This handy gadget will help you hear more from your receiver and less from your landlord.





Many short-wave listeners and DXers find that the landlord's regulations often preclude the use of a decent receiving antenna. In many buildings, nothing other than the landlord's master TV antennas can be installed on the roof; this often means the SW antenna can be no more than a short whip mounted on a terrace, or window ledge, or a short length of wire hanging down from the window, whose reception sensitivity varies as the wind blows the wire towards and away from the building.

Features. One good answer to the problem of no space for an antenna is the Dymek DA-100 All Wave Receiving Antenna, which is basically an automobile type antenna mounted on a weatherproof box with an encapsulated transistorized amplifier inside the box. The complete DA-100 system consists of the weatherproof housing, the autotype telescopic antenna that mounts on the box, fifty feet of RG-58 coaxial

cable that brings the signal down from the amplifier and which also carries the DC power, an indoor control box that contains the power supply, an antenna switch that selects either the signal from the preamplifier or an auxiliary wire antenna, and an "output impedance matching" switch that provides output impedances of 50, 100, and 500 ohms. The switch can also be used as a 0, 10 and 20 dB attenuator if needed to compensate for strong stations.

The operating frequency range of the DA-100 is 50 kHz to 30 MHz. The internal amplifier provides approximately 3 dB gain at 100 kHz falling to 0 dB at 1 MHz, again rising to approximately +11.2 dB at 20-25 MHz, and then falling to +8 dB at 30 MHz. Between 100 kHz at 50 kHz the gain falls from +2 dB to -6 dB.

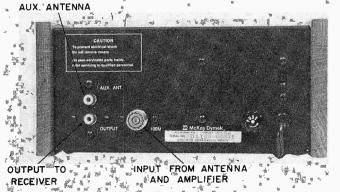
The DA100 system is touted as a replacement for a 1000 foot antenna. As any SWL and DXer should know, length does not necessarily mean "gain,"

or received signal strength, because signal strength does not necessarily depend on the length of the wire used for the receiving antenna. At some frequencies 1000 feet might be ideal, at others it might prove a disaster because of multiple nodes.

Rather than considering the DA100 a substitute for 1000 feet of wire, it is best to consider it as the solution to difficult antenna installations such as mentioned at the beginning of this article. For example, you cannot beat the DA100 with any other "all band" window antenna. Angled outward from the window the DA100 performs as well as a "car radio" whip at the lower frequencies, and as an amplified whip at the higher frequencies. If you have a terrace you can mount the weatherproof box and antenna on the metal' railing (the further away from the building the better). If you can get the antenna up on the roof, and find you're short of cable, you can simply add 50 ohm coaxial cable extensions, or use one of the pre-fab coax extensions,

Fitting it in. The total antenna height when extended is 4-ft. 8-in. The weatherproof housing is a standard electrical "outdoor/weatherproof" box specially modified with the antenna mounting on top and a weatherproof coax fitting on the bottom. The indoor control box measured 9-in. wide by 5-in. high by 9-in. deep.

The Dymek DA-100 system complete with 50 feet of 50 ohm coaxial cables is priced at \$135.00. For additional information circle No. 58 on the reader's service coupon.



A standard UHF connector is used for the coax running to the amplifier and phone type jacks are used for both the output to the receiver and for the auxiliary wire antenna. 115 or 220 VAC

SUPER BCB Booster



MAGINE YOUR BROADCAST BAND RECEIVER jammed from end to end with a solid wall of signals! Flea's-whisper stations, that normally can't be heard with headphones, booming into your shack at S9. This is the kind of reception you'll get with the Super BCB Booster, a preamplifier specifically designed for BC DX'ers.

Whether you live in a concrete and steel tower, or out in the boondocks with enough space for a long-wire antenna, the Super BCB Booster will dig out stations you've never heard before because its average gain is almost 42 dB-7 S-units of extra sensitivity.

The booster can function as an electronic antenna with signals received only by loopstick antenna coil L1, or as a preamplifier, with a "longwire" antenna connected to binding post BP1.

How It Works. The signal voltage appearing across tuned circuit L1/C1 is fed to FET Q1, which provides approximately 20 dB gain on top of the L1/C1 resonant "gain." Q1's output feeds transistor Q2, an emitter-follower that provides a 10- to 15-dB power gain, and also a low impedance output for connection to the relatively low impedance input of a communications receiver.

Though intended for direct connection to a receiver's antenna input terminals, the Super BCB Booster can also be used with "loop antenna radios" by connecting the booster's output to a loopstick antenna (duplicate of L1) positioned near the radio. We'll show

how both connections are used.

Powered by a 2U6 type 9-volt transistor radio battery the current drain is less than 2 mA and a standard battery will last at least three-months, even under heavy service. An activator or heavy duty battery can last a year or more. With such low power consumption there's no reason to build an external AC power supply for the Super BCB Booster.

Construction. Although the circuit appears simple, extreme care must be taken with the circuit board preparation since the high overall gain can cause instability if a single component, or printed circuit foil, is out of position. We suggest no attempt be made to use point-to-point wiring. Use a PC board that is an exact copy of the supplied template (any PC board material can

be used). If you cannot make your own PC boards you can obtain a plated board (for easy soldering) from the source indicated in the parts list.

Avoid component substitutions; Q1 and Q2 should be the specified types. Though the booster might work with some "general replacement" transistors, it might not work with others. Worse yet, it might work only on very weak signals while distorting strong signals.

The specified components will provide distortion-free reception on signals as strong as 80,000 uV. It will deliver excellent performance with battery voltage falling as low as 6-volts.

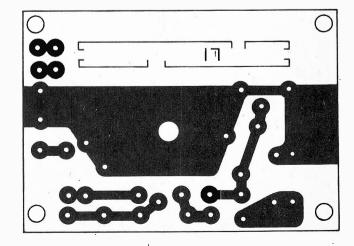
The circuit board and a very short connection to output jack J1 are the only critical assemblies. You can make mechanical modifications as long as the general layout approximates the unit shown in the photographs.

We suggest that the unit be assembled in a plastic cabinet with an aluminum front panel, though a full plastic cabinet can be used because the PC board has a built-in hand-capacitance shield. Maximum stability, however, is attained through the use of a metal front panel because it reduces the possibility of feedback from booster's output to its input.

Drilling the PC Board. All of the component mounting holes except for tuning capacitor C1 can be made with a #58, #59, or #60 bit. Capacitor C1 requires a 5/16-inch hole. If you don't have a 5/16-inch bit use a 1/4-inch drill and enlarge the hole very carefully with a miniature round file. The corner holes, which are used for the mounting screws, should clear #4 or #6 screws—which ever you prefer to use.

The PC board is best assembled in the following manner: Install capacitor C1 first, then all the remaining components except Q1. Then push Q1's leads through the board and solder. Note that Q1 is supplied with a shorting-clip around all the leads. This clip must be

Make a PC board that is an exact duplicate of this Template. Do not try to use point-to-point wiring since the high gains could cause instability if any parts or strips of foil were out of position. If you have any problem making yours write to the address listed with the parts for a finished board.



Booster

left in position until assembly is completed and the booster is ready for operation. If the clip is removed a high static voltage from the tip of the soldering iron, or a voltage generated through normal handling, might destroy Q1. Place a paper or tape tag on or near Q1 to remind you to pull off the shorting clip before applying power.

Double-check that the tab sticking out from Q1's case faces the nearest edge of the PC board before soldering. The round side (opposite the flat) of Q2 should face the same edge of the PC board.

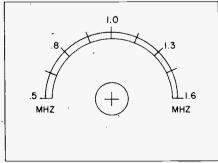
Note that Ll's primary and secondary windings are independent though their ground connections are generally shorted together by a wire jumper on the PC board. If for some reason you prefer a separate antenna system ground, open the shorting wire and install a "ground binding post" on the panel.

After L1 is wired to the PC board it can be secured with a few dabs of silicon rubber adhesive such as Silastic or G.E.'s RTV.

Since stand-offs space the PC board away from the panel to prevent shorts between the foil(s) and the metal panel, it will be impossible to add wiring after the assembly is installed on the panel. Install the wires for the connections to BP1, J1, SW1 and the battery connector before mounting the PC board. Insulated #20 or #22 solid wire is suggested. Mount the PC board to the panel using a 1/4-inch spacer or stack of washers between the panel and PC board at each mounting screw.

After all wiring to the panel components is completed adjust L1's slug so it protrudes between 1/4- to 1/2-inch from the top of the coil form—no further tuning is needed.

Make up a connecting lead from shielded or coaxial cable to go from output jack J1 to the receiver's antenna terminals. For least signal attenuation



The tuning dial faceplate can be used as is; just cut it out and paste it down.

the lead length should not exceed 15-inches.

If the booster will be used with a transistor-type radio having a built-in loop antenna and no terminals, connect the free end of the output cable to a loopstick antenna coil the exact duplicate of L1. Remove the primary winding—the heavy outer winding of plastic insulated wire wrapped around

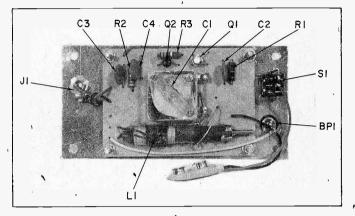
the coil. Position this coil on the radio's case opposite the built-in loopstick antenna and tape the coil in place.

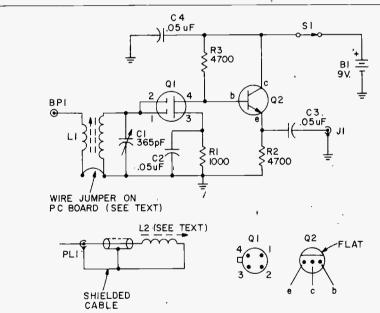
Using The Super BCB Booster. Turn on both the receiver and booster and tune in the desired station or frequency. Then adjust tuning capacitor C1 for maximum signal strength or highest Smeter reading. As a general rule the

(Continued on page 118)

The complete assembly—showing the recommended locations for BP1, S1 and J1.

Note that J1's ground lug is used; there are two connections to the PC board—one for the ground terminal and one for the jack's center conductor. Shielded cable isn't needed; just wrap the ground wire around the conductor a few times.





PARTS LIST FOR SUPER BCB BOOSTER

B1—9-volt battery (type 2U6 or equiv.)
BP1—Insulated 5-way binding post or equiv.

C1—365 pF miniature tuning capacitor (Polyvaricon type)

C2, C3, C4-0.05 uF disc capacitor rated 10 VDC or higher

J1-Phono jack

L1—Loopstick antenna (Radio Shack 270-1430 or equiv.)

L2-Same as L1 (Optional. See text.)

PL1—Phono plug (Optional for L2)

Q1-FET, RCA 40600

Q2—NPN transistor, 2N3394

R1-1000 ohms, ½-watt, 10% resistor R2, R3-4700 ohms, ½-watt, 10% resistor S1-SPST switch

Misc.—Cabinet, PC board, hardware, etc. A plated printed circuit board is available for \$5 from the Electronic Hobby Shop. Box 192, Brooklyn, N.Y. 11235. U.S. orders add \$2.00 for postage and handling: Canadian orders add \$3.50. No foreign orders, please. New York State residents must add appropriate sales tax for your area. Postal money orders speed delivery; otherwise allow 6-8 weeks for delivery.

L1 is secured to the back of the PC board, after it has been wired, with a couple of drops of silicon rubber adhesive. The coil can serve as an "electronic antenna," and a "long wire antenna is needed only if you are after super-DX reception. To keep dust out of the tuning capacitor's plates—and thereby avoiding snaps, crackles and pops when tuning—we suggest a model that is supplied with a plastic cover.

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c/w checks out the... ATRONICS CODE READER

Copy those dots and dashes in the blink of an eye!

CIRCLE 119 ON READER SERVICE COUPON

If the sound of dahdidahdit-dahdahdidah is more Greek than music to your ears—if you'd have a better chance understanding an outraged Patagonian peasant than the Morse Code—well, you could be missing out on a lot of fun. Some of the best DX around is yours for the tuning, if you can copy the dots and dashes of Mr. Morse.

Maybe you've tried to learn the code and—for one reason or another—haven't been successful. Or perhaps you do know the code at five or even ten words per minute but you still wish you could listen in on the stations that send at fifteen or even fifty words per minute.

The Atronics Code Reader has come to the rescue. One simple connection to your shack's receiver and you'll be able to watch as the Morse Code is visually decoded right before your eyes.

Alphanumerics. Each character of the Code, as received, is displayed on the code reader's 16-segment LED. The code reader can visually display letters of the alphabet just as clearly and precisely as you're used to seeing numbers displayed on a calculator.

At this point, you may be thinking that you've seen "letters" on a calculator and weren't all that impressed. Maybe a friend once told you to put 07734 on a calculator display and then

turn the calculator upside down. Sure enough, it looked a little bit like the word "HELLO." But, when it comes to displaying letters like W or Q even the trickiest calculator nut has to be left scratching his head.

The code reader uses an LED which has been especially engineered for displaying English letters A-Z as well as the numbers 1-10. The LED is a 16segment device which uses the same philosophy as a calculator's 7-segment LED. Individual segments are lit up and the eye sees the finished result. On a 7-segment LED, the number 1 is made up of two lit-up segments, one above the other on the right-hand edge of the LED. Similarly, the number 8 is formed when all seven segments are lit. As you can see, if you play around with this idea, there's just not enough segments for many of our letters.

The alphabet is easily accomplished with sixteen segments. Examine how the letter W is formed by this type of LED. The sides of the W are each formed by two segments above each other, but the interior rise is formed by two segments that originate at opposite corners of the LED at 45-degree angles to meet at a point. Other letters, such as B, D, X, etc., can be formed in just such a fashion.



The front panel controls are adjusted by means of LEDs above them. Practice will enable you to quickly change the station.

Also, there is absolutely no doubt if you are seeing a letter or a number. Many 7-segment "alphabets" make the lower case "b" do double duty as a "6." Unfortunately, this can result in some confusion as to which is being displayed. The 16-segment LED is able to display a capital letter "B" besides the normal configuration of a "6."

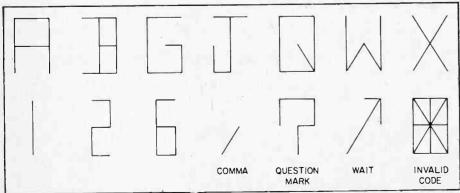
Copying the Code. The Code Reader is certainly one of the easiest accessories to hook into a station's receiver. All that is required is to connect the reader in parallel with your receiver's speaker terminals. Many receivers even have a SPKR OUT jack where this connection is already made. Once hooked up, operation is simple enough, but requires some practice before you can get the controls quickly adjusted when you change stations.

There are two controls on the front panel, level and speed. Each of the controls—one on either side of the 16-segment LED—has a small LED above it. The LED above the speed control indicates the anticipated length of a received Morse Code dot. The LED which is above the level control indicates "Mark" (ON) and "Space" (OEE) conditions

(OFF) conditions.

Tune across the band until you are receiving a good, clear signal. Adjust the *speed control* (which is calibrated in words per minute) until the LED

(Continued on page 118)



The Atronics Code Reader is able to display not only the numbers 1-10, but the letters from A-Z in a clear, concise style. It makes copying the morse code possible for those with little experience, and enjoyable even for the pro. Circle number 119 for more info.

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STATE-OF-THE-ART TECHNOLOGY IN A DIGITAL BROADBANDED TRANSCEIVER AND ACCESSORIES

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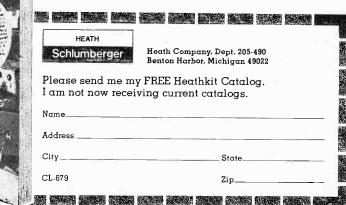
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c/w checks out the... ATRONICS CODE READER

Copy those dots and dashes in the blink of an eye!

CIRCLE 119 ON READER SERVICE COUPON

If the sound of dahdidahdit-dahdahdidah is more Greek than music to your ears—if you'd have a better chance understanding an outraged Patagonian peasant than the Morse Code—well, you could be missing out on a lot of fun. Some of the best DX around is yours for the tuning, if you can copy the dots and dashes of Mr. Morse.

Maybe you've tried to learn the code and—for one reason or another—haven't been successful. Or perhaps you do know the code at five or even ten words per minute but you still wish you could listen in on the stations that send at fifteen or even fifty words per minute.

The Atronics Code Reader has come to the rescue. One simple connection to your shack's receiver and you'll be able to watch as the Morse Code is visually decoded right before your eyes.

Alphanumerics. Each character of the Code, as received, is displayed on the code reader's 16-segment LED. The code reader can visually display letters of the alphabet just as clearly and precisely as you're used to seeing numbers displayed on a calculator.

At this point, you may be thinking that you've seen "letters" on a calculator and weren't all that impressed. Maybe a friend once told you to put 07734 on a calculator display and then

turn the calculator upside down. Sure enough, it looked a little bit like the word "HELLO." But, when it comes to displaying letters like W or Q even the trickiest calculator nut has to be left scratching his head.

The code reader uses an LED which has been especially engineered for displaying English letters A-Z as well as the numbers 1-10. The LED is a 16segment device which uses the same philosophy as a calculator's 7-segment LED. Individual segments are lit up and the eye sees the finished result. On a 7-segment LED, the number 1 is made up of two lit-up segments, one above the other on the right-hand edge of the LED. Similarly, the number 8 is formed when all seven segments are lit. As you can see, if you play around with this idea, there's just not enough segments for many of our letters.

The alphabet is easily accomplished with sixteen segments. Examine how the letter W is formed by this type of LED. The sides of the W are each formed by two segments above each other, but the interior rise is formed by two segments that originate at opposite corners of the LED at 45-degree angles to meet at a point. Other letters, such as B, D, X, etc., can be formed in just such a fashion.



The front panel controls are adjusted by means of LEDs above them. Practice will enable you to quickly change the station.

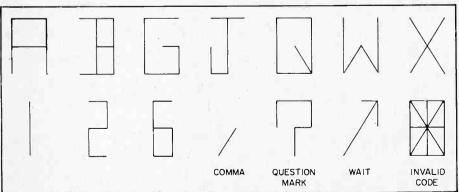
Also, there is absolutely no doubt if you are seeing a letter or a number. Many 7-segment "alphabets" make the lower case "b" do double duty as a "6." Unfortunately, this can result in some confusion as to which is being displayed. The 16-segment I ED is able to display a capital letter "B" besides the normal configuration of a "6."

Copying the Code. The Code Reader is certainly one of the easiest accessories to hook into a station's receiver. All that is required is to connect the reader in parallel with your receiver's speaker terminals. Many receivers even have a SPKR OUT jack where this connection is already made. Once hooked up, operation is simple enough, but requires some practice before you can get the controls quickly adjusted when you change stations.

There are two controls on the front panel, level and speed. Each of the controls—one on either side of the 16-segment LED—has a small LED above it. The LED above the speed control indicates the anticipated length of a received Morse Code dot. The LED which is above the level control indicates "Mark" (ON) and "Space" (OFF) conditions.

Tune across the band until you are receiving a good, clear signal. Adjust the *speed control* (which is calibrated in words per minute) until the LED

(Continued on page 118)



The Atronics Code Reader is able to display not only the numbers 1-10, but the letters from A-Z in a clear, concise style. It makes copying the morse code possible for those with little experience, and enjoyable even for the pro. Circle number 119 for more info.

c/w checks out the...



Five-band scanner BEARCAT

2250

This computerized scanner keeps track of radio traffic without jamming your brains circuits

A SCANNER THAT THINKS FOR IT-SELF is about the best way to describe the Bearcat 250 Five Band Scanning Receiver. No longer need the user know the precise frequency of a station or service: the Bearcat will discover the station's frequency. No longer need you wonder which is the most "popular" police, fire or public service frequency: the Bearcat will keep a running total of transmissions on each channel. And if all this isn't enough, the Bearcat can also scan a range of frequencies and electronically log each frequency used without stopping for the transmissions, individually program a delay or lockout for any channel, and even program automatic recorder control for specific channels. For example, if you are interested in recording only the activity on say, channel 14, you can program the receiver so a recorder starts only when a channel 14 signal is received, no other frequencies will be recorded. If you are interested in recording what's happening on multiple channels, say Nos. 1, 3, 5, 18, and 22, you can likewise program the recorder to start only when signals are received on any of these.

How is all this "magic" accomplished? Through use of an on-board microprocessor (microcomputer) that provides even more heretofore unimagined performance. But before we get too far ahead of ourselves, let's go back to the beginning and take a look at the big picture.

The Bearcat 250 is housed in a cabinet measuring 10¾-in. wide by 3½-in. high by 8-in. deep. It will operate off 120 VAC or 13.8 VDC. Though it covers five bands—32-50 MHz, 146-148 MHz, 148-174 MHz, 420-470 MHz, and 470.0125-512.0125 MHz, the tuner sections are so arranged that a single antenna input can be used. Provision is made for an external an-

tenna through a "Motorola" jack, or a supplied telescopic whip that protrudes through the top of the cabinet. The whip can be unscrewed when not needed. As with the antenna jack, the whip antenna serves for reception on all bands.

All functions and frequencies are entered through a keyboard having thirty pushbuttons. An eleven character L.E.D. display indicates frequency, time, and all programmed functions.

Heading the list of functions is a

CHANNEL DELAY PROGRAMMED

PRIORITY INDICATOR

LOCKOUT ON

A typical display. Numerals 10 indicate channel 10 is beng monitored. "D" indicates the 2-second delay has been programmed for the channel, meaning the scan will hold for at least 2 seconds after the station goes off before scanning is resumed. "L" means the channel has been temporarily locked out of the scanning: it can be selected manually, but not by scanning. Finally, the frequency readout is 146.450 MHz. The five dots at the upper left, directly over and to the right of the "10" indicate all five channel groups are switched on. A "P" showing before the "10" would indicate the priority has been switched on. During scan channel 1 will be scanned every 2 seconds. digital time clock indicating hours, minutes, and seconds that is always on even with the receiver turned off, or if the display is used to indicate frequency. Under any operating condition, the time is displayed when the *time* pushbutton is depressed. Pressing the button a second time turns off the time display and restores whatever was indicated prior to the clock display being turned on.

50 Channels. Next, is a 50 channel memory arranged in five switch selected groups of 10 channels each. Any group or combination of groups can be selected for scanning. The selected groups are indicated by small "dots" at the top left of the L.E.D. display. Even with the power switch off the onboard computer remembers the last group selection, and will resume scanning the selected groups as soon as power is turned on. The programming is such that you cannot turn off all groups. Attempting to place all groups on standby automatically activiates the channel 1 through 10 group. The 1-10 group can only be turned off (placed on standby) if another group(s) is selected.

In addition to the 50 scan channels, the Bearcat 250 has a separate memory for 64 frequencies. These 64 frequencies are stored independent of the 50 channel programming. If desired, any of the 64 frequencies can be entered as channel programming.

To "discover" unknown services or frequencies the receiver can be programmed to search any frequency range within a single band. The search can be programmed to stop each time a station is detected so the user can listen to the signal to see if it's a worthwhile service to store in a main channel memory. Or, the scan can be used just to locate frequencies; instead of stopping on the station until the transmis-

BEARCAT

sion is over, the search stores the "working" frequency in the 64 channel memory. The user can then step through the memory one frequency at a time to determine which frequencies were active, or can step and hold in order to monitor the signal. Again, any desired stored frequency can be entered into one of the 50 scan channels.

At the touch of a button marked priority, channel 1 can be programmed as a priority channel so that regardless of the channel groups programmed for scanning, the receiver will scan channel 1 for activity every two seconds. Any frequency within the five bands can be programmed into channel 1. With the priority switch off, channel 1 functions as any other channel.

If you're not certain which frequencies are the "hot" ones in your area, you can get a count on the number of transmissions by simply pressing a button marked count. The indicated frequency on the display turns off and the number of transmissions on that particular channel is indicated. Each channel's counter can be individually erased so it starts from zero whenever desired. Other channel counters are not affected by a counter erase. Pressing count a second time restores the frequency indication and the counter works "unseen."

The signal on any channel can be used to control an associated recorder (or other device) through the aux function. Pressing the aux and E (for enter) buttons programs any channel for remote control through a closed circuit providing up to 500 mA. As soon as a signal breaks the squelch the aux control circuit is closed. It is normally capable of handling the remote start circuit of a portable cassette recorder. For a higher power control device, an intermediate relay or transistor switch must be used. The aux function is indicated by a small dot in the lower right of the L.E.D. display.

Goodby Birdies. One of the problems with some digitally synthesized scanners in the past has been "birdies", unwanted signals generated by the scanner's internal oscillators. The search mode often picked up some of these unwanted signals and locked the scanning onto the birdie, because as far as the receiver is concerned the birdie is a legitimate unmodulated carrier. In the Bearcat 250, however, the user programs the birdies out first by disconnecting the antenna and making one search pass, storing the birdie freTELESCOPIC WHIP

AUX
SWITCH

TAPE JACK SPEAKER GROUND

TAPE JACK SPEAKER GROUND

TAPE JACK SPEAKER GROUND

TAPE JACK SPEAKER GROUND

All connections are through rear apron connectors. The power source is automatic: simply plug in the AC or DC power cord. The aux switch terminals can be used to start a recorder and are specifically programmed for one or more channels as required by the user.

quencies in the store memory. Then the antenna is connected and the search resumed. Now the search literally skips over the birdie frequencies and the only signals that will be "locked up" during the search will be legitimate signals. Of course, the birdie frequencies are entered in the 64 channel store memory, and by stepping through the memory the user can get a "listing" of both the birdie and signal frequencies.

You get the listing by pressing a recall button; each press steps the tuning and display to the next frequency in store memory. To let you know you have run through all the frequencies discovered through the last search run, the display will blank after the last searched frequency, and then repeat ("playback") from the lowest frequency.

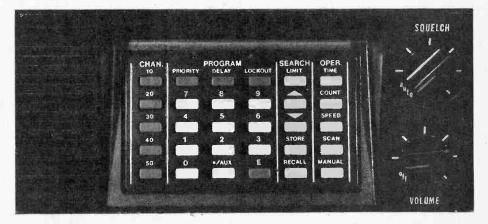
The Hardware. The front panel has only two controls: one for volume/power switch; the other for squelch. Somewhat unusual, the squelch control has a detented switch position at full CCW labeled auto, meaning automatic squelch. It's a factory set squelch level that appears to be "just about right."

The rear apron has sockets for the AC linecord, a DC power cord, the antenna jack, a remote speaker, and a line level output for a recorder. Screw type binding terminals are used for the aux control.

A gimbal bracket such as supplied with mobile CB transceivers is provided for mounting the Bearcat 250 in a vehicle. Plugs in the side of the cabinet normally conceal the threaded eyelets for the mobile bracket's screws.

Summing Up. The Bearcat 250, priced at \$399.95 complete with AC and DC power cords, mobile bracket, and telescopic antenna is one heck of a scanner. Overall performance is just about typical for high performance scanners such as previous Bearcats. The thing that makes the 250 stand head and shoulders above other scanners is the on-board computer. Fact is, it does so much that it takes a thorough read-thru of the manual before you can even start to get maximum utilization of the special computer features. Best bet is to stop into a local Bearcat dealer and get a hands-on demonstration. (Make certain you get a salesperson who really knows the 250 inside and out or you're likely to miss one or more of the outstanding features in a store demo.)

For more information on the Bearcat 250, circle No. 79 on the reader's service coupon.



Thirty pushbutton keys control all functions and the frequency selection. The five keys in the left vertical row select channels in groups of 10: 1-10, 11-10, 21-30, etc. The receiver scans only the groups "punched up." Individual channels in each group can be "locked out" by pressing the lockout key. The group scanning can be in any order: for example, if the 10 and 40 keys are depressed the receiver will scan channels 1 through 10 and 31 through 40. An individual channel is manually selected by simply pressing the key corresponding to the channel number and then the manual key. Direct selection of channel 15 would be selected by pressing keys: 1, 5, and manual.

SHORTWAVE-BAND AIDS

Become a "world-class" DXer by setting up your own super-equipped, shortwave listening post.

Your New SHORTWAVE radio is all plugged in and hooked to the antenna outside your window and you're starting to listen to the world. You've read a little about the sport of DXing—tuning in for long distance stations—and you decide to give it a whirl. How can you pursue this hobby and get a flood of exotic QSL cards coming through the mail? You have the main ingredients—short wave set and antenna. But what else do you need?

Information Aids. You probably began your listening by simply tuning through the bands to see what stations you could stumble onto. In time, you can catch a lot of stations this way. The experienced DXer, however, has a better way. He has an up-to-date list of foreign station broadcasts—by country, time and frequency. Thus he is able to target his tuning so that every time he turns on his set, he knows exactly what to look for. He may not always be successful in getting the program he tunes for but he knows where it can be found



The author tunes in a rare catch on his Drake SSR-1 shortwave receiver. Note the convenient layout of this listening post. Everything is handy but the desktop remains uncluttered—a key to relaxed DXing.

on the dial and, just as important, what time it is on the air.

Where does the DXer get such a list? Unfortunately, your local newspaper doesn't carry shortwave program listings. If you are a regular reader of Communications World you have probably already been referred to Don Jensen's excellent column in our sister publication Elementary Electronics. These are great sources of information for the DXer but there are many additional sources that will also prove helpful. Check your newsstand.

The first source is a copy of the World Radio TV Handbook. This 500-page annual publication lists all known shortwave broadcasters of the world. It lists them by country, by frequency and by time of broadcast. It also has a wealth of other essential information. For example, it gives the mailing addresses of all these stations—a necessity for your sending in your reception reports. It is available at many electronic stores or by mail from Gilfer Associates, Inc., P.O. Box 239, Park Ridge, N.J. 07656.

Up-dating foreign station broadcasting times and frequencies once a year is still not enough for the ardent DXer. The rapidity with which stations change their frequencies because of seasonal propagation conditions and interference by other stations broadcasting on the same or nearby frequencies, will amaze you. Therefore, the smart DXer joins a shortwave club and receives its periodic bulletins. These will feature reports sent in by members from all over the country, noting changes in frequencies and broadcasting times.

The same periodical will give you information about QSL card receptions. Members report on how long it took to receive these from various countries and whether or not return postage was needed. When you consider that it costs 31 cents each time you mail an overseas reception report, you may think



twice before sending one into a country that seldom replies. But you can get this kind of information from your shortwave club bulletin.

There are a number of shortwave clubs in the U.S. Some specialize in various types of shortwave listening. Others cover a variety of shortwave broadcasting. The largest in the U.S. that caters exclusively to the foreign broadcast shortwave listener is the North American Short Wave Association, P.O. Box 13, Liberty, Indiana 47353.

Many DXers take the information they get from these various sources and make up a target list. One way to do this is to use graph paper and list the countries you plan to try for down the left hand side of the paper, alphabetically. Leave space between countries because many will have more than one frequency that they broadcast from, List the frequencies in the column to the right of the country. Now go to the top of the page and list the time in twentyfour numbers. Start at the left wih "00" and continue across the page with "01," "02", etc. Finally, fill in the squares below to correspond to each country's broadcasting time and frequency. Now you have a practical, cross-reference list to work from. You can approach it from either the top (by time of day) or

BANDAIDS

by country (using the left-hand column).

Time Conversion Aids. One of the mysteries for the beginner in shortwave listening is the Greenwich Mean Time (twenty-four hour) clock system. All program listings are given in such unfamiliar numerals as "2300 hours," "1300 hours," etc. It makes no sense at all to go looking into a reference book every time you see or hear this kind of time announcement. Instead, make up a time equivalent chart and tack it up on the wall behind your receiver. Since I want a morning-to-afternoon-to-night listing, I start at the top with 1100 and put down 6 A.M. next to it, etc.

As handy as the chart is, you will find that a 24-hour clock is also a virtual necessity. You can make one yourself by simply lettering in the "13" to "23" additional hour-numbers under the appropriate existing numbers on an old kitchen clock. I used this arrangement for a while but found that I always had to hesitate and think a second to determine whether the clock said 0200 or 1400 hours. I finally broke down and purchased a regular 24-hour digital clock at an electronics store. Now when I sit down at my listening post and glance up at the clock on the shelf, I'm completely converted to G.M.T.-the World broadcaster's and DXer's universal time.

Listening Aids. Your new shortwave radio probably has a built-in speaker and you might wonder how much better the sound would be with a larger, external unit. Unless your particular set has a very poor speaker, you won't see much difference with the addition of an outside speaker. Shortwave reception is

a long way from hi-fi. There is, however, one listening aid that every shortwave listener should have and that is a set of headphones.

Unless you live alone in a tent in the middle of a forest, the squeaks and noises from your shortwave set's speaker will not make you very popular with the rest of the family. This will be a very definite problem in the wee hours of the morning or late at night when you're trying for some glamorous African or Polynesian "catch."

Headphones fulfill another need; they blot out external noises and let your ears concentrate on your listening and tuning. The last thing you need is the sound of a car's backfiring or the ringing of a doorbell when you're in the midst of tuning in that hard-to-get foreign station.

When you purchase headphones, make sure you get the communications type. The hi-fi headphones, used to listen to stereo music are not for shortwave listening. They will only emphasize the squeaks and buzzes that you don't want to hear. And since you will be using them for many hours, make sure they are comfortable. If you wear glasses, you may want to check into a special type of headphone that rests on your temples and has an adjustable tubular sound arm that goes into your ear.

Recording Aids. One of the handiest items to have near your radio receiver is a tape recorder. Some DXers use tapes to send in QSL reports. Others record specific programs or portions of them. A tape recorder is particularly useful in catching those "P.O. Box numbers" and addresses spoken over the air by the foreign broadcaster. Also it is a must if you are listening to a DX program where a whole list of frequency changes is being given out over the air. Unless you're a shorthand whiz,

A tape recorder is one of the most valuable DX aids—it will remember that long string of frequency changes that you couldn't copy fast enough or will keep listening while you answer the phone or doorbell. You can use a fancy reel-to-reel job or a small cassette recorder like this Panasonic RQ-332. Make sure the recorder has a jack so you can patch in your receiver. This unit has a counter so you can easily go back to a catch by winding to the number.

you simply can't write these numbers down fast enough. With a recorder, you can playback that portion of the broadcast and write down the information at your leisure. You will also find a recorder handy when you're busy taking down notes on a program's content for a QSL report and you are interrupted by the telephone or doorbell. In that case, you simply turn on your recorder and finish your report later.

If you don't have a tape recorder and set out to purchase one, you might consider an expensive reel-to-reel type, but I find an inexpensive portable cassette recorder works fine for my needs.

Geographic Aids. Part of the fun of shortwave listening is to bring in those programs from the far corners of the World. Unless you have recently completed a modern geography course, you will need some reference material to look up the locations of such obscure countries as Brunei, Sierra Leone and Sri Lanka. A wall map will probably be your first purchase. This is useful and nice to have; when your set is bringing in a program, you can look up and marvel at the wonderful World of shortwave listening that brings you this broadcaster from several thousand miles away. However, it still won't be quick or easy to find some of these obscure nations on the map. A better way is to get a compact atlas that has a good gazetteer to give you the page or map reference for a particular location. I find a "pocket book" size atlas the handiest to use. When you buy one, be sure it is a recently-published edition. In places like Africa, new countries are being born every year.

(Continued on page 120)

Country &		TARGET LIST Time G.M.T.																			
Frequency	01	02	03	04	05	06 (07 08	3 09				15	16	17	18	۱9	20	21	22	23	24
Albania 7065 7300																					
Algeria 9685																					
Angola 3375 4820																		i i			
Argentina 5985 6120																					
Australia 11705 15205																					

Every dedicated shortwave enthusiast should have a long target list — mark the frequency under the country and put an "X" under the time it signs on.

WHITE'S RADIO LOG

AN UP-TO-DATE DIRECTORY OF NORTH AMERICAN AM, FM, AND TV STATIONS INCLUDING A SPECIAL SECTION OF WORLDWIDE SHORTWAVE STATIONS

U.S. AM STATIONS BY FREQUENCY

Call Location W.P.	Call Location	W.P. Call	Location W.	P. Call	Location	W.P.
KVIP Redding, Calif. t000 WGTO Cypress Gardens, WDAK Columbus, Ga. 5000 KWMT Ft. Dodge, Iowa 5000d KNOE Monroe, La. 5000 WDMV Pocomoke City, Md. 500d WLIX Islip, N.Y. 250d	WWNC Asheville, N.C. WKBN Youngstown, OH WNAX Yankton, S.Dak, WFAA Dallas-Ft. Worth TX KLUB Salt Lake City, Utah KVI Seattle, Wash, WMAM Marinette WI	5000r WFRM	Salem, Ohio Coudersport, Pa. Mayaguez, P.R. Memphis, Tenn. El Paso, TX Kermit, Tex. Tyler, Tex. Richwood, W.Va.	IN MAC IN MAC	Providence, R.I. San Antonio, Tex. Salt Lake City, Uta Edmonds WA Opportunity. WA -468.5	5000 1000 d
WETC Wendell-Zebulon, N.C. 5000d WARO Canonsburg, Pa. 250d WYNN Florence, S.C. 250d WDNN Clarksville Tenn 1000d	KIKX Tueson AZ KMJ Fresno, Calif.	DUUG WEGN	-491.5 Birmingham AL 500 Lancaster, CA 100 San Francisco, CA 50 Torrington, CT 100	OF WHLO	os Angeles, CA (mes, lowa Akron, OH Norman, OK	50000 5000d 1000d 1000d
WRIC Richlands, Va. 1000d WYLO Jackson, Wise. 250d 550—545.1	KSAC Manhattan, Kans.	5000 WHYM 5000 WCEH 5000d KUAM 5000 WRUS	Miami, Fla. 50 Pensacola, FL 50! Hawkinsville, Ga. 50! Agana, GU 1000 Russellville, Ky. 50! Duluth, Minn. 50! Kansas City, MO 50	NO KYAK KORL WSM KIKK	Anchorage AK Honolulu, HI Nashviile, Tenn. Pasadena, Texas	50000r 10000 50000 250d
KOY Phoenix AZ 5000r KAFY Bakersfield, Callf. 1000 KRAI Craig, Colo. 5000 WAYR Orange Park, Fla. 1000d WGGA Gainesville, Ga. 5000 KMVI Wailuku, Hawaii 5000 KFRM Salina Kana 50000	WAGR Lumberton, N.C.	1000 KOJM 10000 KCSR 10000 WGIR 5000 KRKE 5000 WAYS	Havre, Mont. 101 Chadron, Nebr. 1004 Manchester, N.H. 50 Albuquerque, NM 500 Charlotte, N.C. 500	00 660- 00 KFAR KOWH 00 WNBC 00 WESC KSKY	-454.3 Fairbanks AK Omaha, Neb. New York, N.Y. Greenville, S.C. Dallas, Tex.	10000 1000d 50000 10000d 10000d
KSD St. Louis, Mo. 5000 KBOW Butte MT 5000 WGR Buffalo, N.Y. 5000 WDBM Statesville, N.C. 5000 KFYR Bismarck, N.Dak. 5000 WKRC Cincinnati, Ohio 5000 KOAC Corvallis, Dreg. 5000	WOFE Rockwood, Tenn. KDAV Lubbock, Tex. WLES Lawrenceville, Va. WCHS Charleston, W.Va. WKTY LaCrosse, Wis.		louston, Tex. 500 Logan, Utah 500 Roanoke VA 500 Winchester, Va. 500 Kennewick WA 500	670	-447.5 Dillingham, AK Hilo, HI Boise, Idaho Chicago, III.	5000r 5000 5000 50000
WHLM Bloomsburg, Pa. 1000 WPAB Ponce, P.R. 5000 WGNG Pawtucket RI 1000 KGRS Midland, TX 5000 KTSA San Antonio, Tex. 5000 WDEV Waterbury, Vt. 5000 WSVA Harrisonburg, Va. 5000 KARI Blaine, Wash. 5000 WSAU Wausau, Wis. 5000	KHAR Anchorage AK KBHS Hot Springs, AR KFXM San Bernardino, Cal. KTHO South Lake Tahoe, CA KCSJ Pueblo, Colo.	000d KTAR 5000 KNGS 5000 KWSD 1000 WSUN 2500 WSUN	Phoenix AZ 500 Hanford, Calif. 100 Mt. Shasta, Calif. 1000 Grand Junction, Colo. 5000 St. Petersburg, Fla. 500 LaGrange, Ga. 1000	0 KBRW d KNBR WWBA WRNG d WCTT WCBM	San Francisco, Cal. St. Petersburg, Fla. North Atlanta GA Corbin, Ky. Baltimore, Md.	10 000r 50000 1000d 25000 1000 10000
560—535.4 WOOF Dothan AL 5000d KYOK Kodiak AK 1000 KBLU Yuma, AZ KSFO San Fran., Calif, 5000 KLZ Denver, Colo.	WFLO ALBREA, ME KGMB Honolulu, Hawail KID Idaho Falls, Idaho WRTH Wood River, IL WVLK Lexington, Ky WEEI Boston, Mass, WIMS Ironwood, Mich;	1000 WJDX	Sioux City, Iowa 100 Louisville, Ky. 500 Bangor, Malne 500 Jackson, Miss. 500 Newark, N.J. 500 Syracuse, N.Y. 500 Durham, N.C. 500	d KPEU KWKA WINR WNYR WPTF WRGC	Boston, Mass. Escanaba, Mich. St. Joseph, Mo. Clovis, N.M. Binghamton, N.Y. Rochester, N.Y. Raleigh, N.C. Sylva, NC Butler, Pa. San Juan, P. Bloo	5000 5000 5000 1000 250d 50000 1000r 250d
WQAM Miami, Fla. 5000 WIND Chicago, Iii. 5000 WMIK Middlesboro, Ky. 500d WGAN Portland, Maine 5000 WFRB Frostburg, Md. 1000d WFRB Section Md. 1000d	KGLE Glendive, Mont. WOW Omaha, Nebr. WROW Albany, N.Y. WCAB Rutherfordton, N.C. WGTM Wilson, N.C. KUGN Eugene, Orea, WARM Serenter Ba	5000 WRJZ I 5000 WRJZ I 5000 WVMT 5000 WVMR 5000 WTMJ	Portland, Greg. 500 Greensburg, PA 2500 Cayce, S.C. 500 Knoxville, TN Wichita Falls, Tex. 500 Burlington, Vt. 500 Beckley, W.Va. 100 Milwaukee, Wis. 500	WMPS KKYX KOMW KOMW WCAW	Memphis, Tenn San Antonio, TX Omak, WA	1000 10000 50000r 5000d 50000r
WHND Monroe, Minass, 500d WEBC Duluth, Minn 5000 KWTO Springheld, Mo. 5000 KMON Great Falls, Mont. WCKL Catskill, N.Y. 1000 WISL Columbia, Pa. 5000 WIS Columbia, SC 5000 WHSQ Memphis, Tenn. 5000	KSUB Cedar City, Utah WLVA Lynchburg, Va. KHQ Spokane, Wash.	0007 1000 1000 5000 WAVU WJDB KJNO J	A75.9 Albertville, Ala. 1000 Thomasville AL 1000 uneau AK 1000 Magnolia AR 1000	WVOK KEOS KEVT KBBA	-434.5 Birmingham AL Flagstaff AZ Tueson AZ Benton AR Pueblo, Colo.	50000 1000r 250d 250d 250d 500d
KLVI Beaumont, Tex. 5000 KPQ Wenatchee, Wash. 5000 WJLS Beckley, W.Va. 5000 570—526.0 WAAX Gadsden AL 5000r	KCLS Flagstaff AZ 5 KINC Independence, CA KSXO Redding, CA KOGO San Diego, CA KIIX Ft. Collins, CO WICC Bridgenort. Conn.	500d WSAV: 5000 WNEG 5000 KIDO E 000d WLAP 1000 KTIB T	Denver, Colo. 500 Washington, D.C. 500 Savannah, Ga. 500 Toecoa, Ga. 500 Soise, Idaho 500 Lexington, KY 500 hibodaux, La. 500	WTIX KTCR	Ansonia, Conn. Jacksonville, Fla. Honolulu, Hawall Blackfoot, Idaho Coffeyville, Kans. New Orleans, La. Minneapolis, Minn. St. Louis, Mo.	50000 1000d 10000 10000 500d 1000d
KCNO Alturas, Cal. KLAC Los Angeles, Calif., 5000 WFSO Pinellas Park FL 500 WACL Wayeross, Gal. 5000 KATB Agana, GU 5000 WKYX Paducah, Ky. 1000 WGMS Bethesda, Md. 5000 WVMI Biloxi, MS KGRT Las Cruces, N.Mex. 5000d	WSNY Jacksonville, Flowa WWOG New Orleans, La. II WFST Caribou, Maine 5 WCAO Baltimore, Md. WBDN Escanaba, MI WTAC Flint, Mich, KGEZ Kalispell, MT	5000 St. P. 000d KXOK. 000d KGVW 5000 KOH R 000d KLEA I	Minneapolis- aul MN 5000 St. Louis, Mo. 500 Belgrade, Mont. 1000 eno, NV 500 ovington, N.Mex. 500 lickory, N.C. 1000 Wilmington N C. 1000	WYIS F KUSD KHEY KEY KEY KZEY	Terrytown, Nebr. Prineville, OR Phoenixville PA Vermillion, S.Dak. El Paso, Tex. Lamesa, Tex. Fyler, Tex. Bristol, Va. Warsaw, Va	1000d 1000d 1000d 10000 250 5000d 10000d 250d
KGRT Las Cruces, N.Mex. 5000d WMCA New York, N.Y. 5000 WSYR Syracuse, N.Y. 5000	WSJS Winston-Salem, N.C. KSJB Jamestown, N.D.	5000 WEJLS 5000 WQBSS	Coquille, OR 5000 eranton, Pa. 5000 an Juan, P.R. 500	WELD WAGO	Warsaw, Va. Fisher, W.Va. Oshkosh, Wis.	500d 250d

☐ Abbreviations used in this list; kHz—frequency in kilohertz; MHz—frequency in megahertz; W.P.—power in watts; d—daytime operation only; r—reduced power at night; n—nighttime power; C.L. or Call—call letters or call sign; Chan. or Ch.—TV channel number; i—educational TV station. Wavelength is given in meters. Listing indicates stations on the air as of September 28, 1978.

U.S. AM	STATIONS	BY	FREQU	JENCY
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		S BY FREQUE					C-11	lacution	W.P.
Call Location	W.P.	Call Location	W.P.	Call	Location	W.P.	Call	Location	w.r.
700—428.3 KBYR Anchorage AK WLW Cincinnati, Ohio 710—422.3 WKRG Mobile AL KMPC Los Angeles, CA KERE Denver O KFIA Carmichael, CA	5000	WBBM Chicago, IL WJAG Norfolk, Neb. KCRL Reno, Nev. WCKB Dunn, N.C. WBBO Forest City, N.C. KSPI Stillwater, Okla. WABS Arlington VA 790-379.5 WTUG Juscaloosa AL	5000 1000d 50000 1000d 1000d 250d 1000d	WRYM WHAS I WVPO S WXEW	Mobile AL New Britain, Conn. Jouisville, Ky. Stroudsburg, Pa. Yabucca, PR 352.7 Birmingham Al	1000d 1000d 50000 250d 250d	WFRO WCPA WFLN WKXV WCOR KALT KIKR KFLP	Canton, Ohio Fremont, Ohio Clearfield, Pa. Philadelphia, Pa. Knoxville. Tenn. Lebanon, Tenn. Atlanta, Tex. Cource, TX Floydada TX Hamilton, Tex. Bassett, Va.	500d 500d 1000d 1000d 1000d 500d 500d 250d 250d 250d
WGBS Miami, Fia. WUFF Eastman, Ga. WROM Rome, Ga. KEEL Shreveport, La. WEPA Eupora, MS WHB Kansas City, Mo. WOR New York, N.Y. WZOO Asheboro, N.C. WEGG Rose Hill, N.C. WKJB Mayaguez, PR WOKI St. Mathews. Si	5000r C 1000d	KCAM Glennallen AK KCEE Tueson AZ KOSY Texarkana AR KXQR Clovis, CA KHUM Eureka CA KABC Los Angeles, Calif. WLBE Leesburg, Fla. WFUN Miami, Fla. WPFA Pensacola, Fla. WPFA Pensacola, Fla.	5000 5000r 1000r 500d 5000d 5000 5000	KGOE T KOA DO WVFR I WRUF WEAT V WCUG (KHLO I WIVS (ome AK Benton AR housand Oaks, CA nver, Colo. Sidgefield, CT Gainesville, Fla. W. Palm Beach, Fla uthbert, Ga. Illo, Hawall Tystal Lake, Ill. Vaterioo IA	500d 1000 500d 500d	WATK 910— KJJJ P KLCN KAMD KMJC	Staunton, VA Wenatchee, Wash. Antigo, Wis. -329.5 hoenix AZ Blytheville AR Camden AR E Calon, CA	1000d 1000d 250d 5000d 5000d 5000r 1000 5000
WTPR Parls, Tenn. KGNC Amarillo, Tex. KURV Edinburg, Tex. KURV Edinburg, Tex. WBX Blacksburg VA KIRO Seattle, Wash. WDSM Superior WI 720—416.4 KOTZ Kotzēbue AK KUAI Eleele, HI WGN Chicago, III. KDWN Las Vegas, NV	250d 10000 250 10000d 50000 10000	WQXI Atlanta, Ga, WYNR Brunswick, Ga, WGRA Cairo, Ga, KKON Kealekekua, Hawali KSPD Boise, Idaho KBRV Soda Springs, Ida, WRMS Beardstown, Ill, KXXX Colby, KS WAKY Louisville, Ky, WRUM Rumtord, Me, WSGW Saginaw, Mich, KGHL Billings, Mont, WWNY Watertown, N.Y.	500d 1000d 1 5000 1000d 5000d 5000d 5000d 1000d 5000 5000	WKIX I WIW CI KRPT A WIAC J WEEU I WABA	Vaterioo IA Boston, Mass. Muskegon, Mich. Duluth, Minn. Forest, Miss. Islayton, Mo. Raleigh, N.C. eveland, Ohio haddarko, Okla. ohnstown, Pa. Reading, Pa. Aquadilla, P.R. Aquadilla, Tenn.	50000 1000d 1000d 1000dd 5000d 10000 10000 10000 10000 10000 500	KOXR KPOF WRCQ WPLA WGAF KBGN WAKO WSUI KINA	Oxnard, CA Denver, Colo. New Britain, CT Plant City FL Valdosta, Ga. Caldwell, Ida. Lawrenceville, III. lowa City, Iowa Salina, Kan.	5000r 5000 5000 1000 5000 1000d 500d 500d 500
WGN Chicago, III. KDWN Las Vegas, NV 730—410.7 WJMW Athens AL KSUD West Memphis WLOR Thomasville, Ga KLOE Goodland, Kans. WFMW Madisonville, WMTC Vancleve, KY, KTRY Bastrop, La, WAFB Covington, La, WAFB Cathon Main	50000r	WLSV Wellsville, N.Y. WTNC Thomasville, N.C. KFGO Fargo, N.D. KWIL Albarly, Oreg. WAEB Allentown, Pa. WPIC Sharron, Pa. WEAN Providence, R.I. WWBD Bamberg-Denmark, S.C.	1000d 1000d 5000 1000 1000d 5000d 5000d 5000d 5000d	KEYH WRAP KTAC T	Sparta, IN Houston, TX Norfolk, Va. acoma, Wash.	250d 10000 10000 10000 250d 1000d 1000d	KCJB W BRJ	Batton Houge, La. Bangor, Maine Filnt, Mich, Moridian, MS Billings, Mont. Roswell, N.M. New City, N.Y. Jacksonville, NC Minot, N.D. Marietta, OH Middletown, Ohlo Miaml, Okla. Brookings, Oreg. Annolio PA	5000 5000r 1000d 5000 1000d 5000 5000d 1000 1000d
WYIC E. Lansing, MY KWRE Warrenton, MO KWOA Worthington, M KURL Billings, Monta KDAZ Albuquerque, N WDOS Oneonta, N.Y. WFMC Goldsboro, N.C WOHS Shelby, N.C. WYM Bowling Green.	ch. 500d . 1000d Jinn. 1000d 500d N.M. 1000d 1000d . 1000d O H 1000d	WEIS Johnson City IN WMC Memphis, Tenn. KULF Houston, Tex. KUTO Lubbock, Tex. KUTO Blanding, Utah WSIG Mount Jackson, Va. WTAR Norfolk, Va. KTAR Bellingham, Wash. KJRB Spokane, Wash. KJRB Spokane, Wash. WEAQ Eau Claire, Wis. 800—374.8 WHOS Decatur AL	5000 / 5000 / 1000d 1000d 5000 5000 5000	WAZE WKKO WERD WDMG WGOM KWPC KOAM WSON I WAYE WSBS (KNUJ I	Nouesto, Cairt. Cocoa, Fia. Actianta, Ga. Douglas, Ga. Marion, Ind. Muscatine, Iowa Pittsburg, KS Henderson, Ky. Baltimore, Md. it. Barrington, Mas vew Ulm. Minn.	250 d 10000 500d 1000 1000d 5000d 250d 250d 10000r 1000d 8. 250d	KRIO KIKM KALL WNHV	Middletown, Ohlo Miaml, Okla. Brookings, Oreg. Apollo PA Scranton, Pa. York, Pa. Ponce, P.R. No. Charleston, S. Spartanburg, S.C. Johnson City, Tenr S. Pittsburgh, Ten Fredericksburg, Ten Bredericksburg, Ten McAllen, TX Salt Lake City, UT White River Jct., White River Jct., White River Jct.,	5000 1000 5000r Vt.
KÉOÝ Medford, Oreg. WNAK Nanticoke, Pa. WPIT Pittsburgh, Pa. WPAL Charleston, S.C. WLIL Lenoir, Tenn. KKDA Grand Prairie, KSVN Ogden, Utah WPIK Alexandria, Va. WMNA Gretne, Va. KULE Ephrata, Wash. WJMT Merrill WI	1000d 5000d 1000d 1000d Tex. 500d 1000d	WMGY Montgomery AL KINY Juneau AK KAGH Crossett AR KYOM Morrilton AR KHIS Bakersfield, CA KBRN Brighton, Cofo, WLAD Danbury, CT WRKV Rockville, Conn. WSST Largo FL WSUZ Palatka, Fla. WJAT Swainsboro, GA KTWG Agana, Guam WKZI Casey, III. KXIC Jowa Gity, Jowa	1000d 5000 250d 250d 250d 500d 1000d 1000d 1000d 1000d 1000d	KARS I WFMOZ KSHA WYJZ F WTEL I WUCR S WLBG I KFST I KPAN I KSFA N	Belen, NM Fairmont, N.C. Faylorsville NC Medford, Oreg. Pittsburgh, PA Philadelphia, Pa. Sparta TN Laurens, S.C. t. Stockton, Tex. Hacogdoches, Tex. Hacogdoches, Tex.	250d 1000d 250d 1000d 1000d 10000d 1000d 1000d 250d 1000d	WRNL WTOY KORD KIXI WHSM WDOR	Richmond, Va. Roanoke, Va. Possoo, Wash. Seattle, Wash. Hayward, Wis. Sturgeon Bay, Wis -325.9 Andalusia, AL Russellviile AL Soldotna, AK Little Rock AR	
WBAM Montgomery A KMEO Phoenix AZ KBRT Avalon. CA KCBS San Francisco. (KSSS Colorado Springi KVFC Cortez, Colo. WSBR Boca Raton FL WKMK Blountston, Fi WKIS Orlando, Fla. KYME Bolse, Idaho WVLN Olney, IL	10000d Calif. 50000 s, Colo. 1000 1000	WKVE Cave City, KY WSHO New Orleans, La. WCCM Lawrence, Mass. KQAD Luverne, Minn. WVAL Sauk Rapids MN KREI Farmington, Mo. WTMR Camden, N.J. KQCV Oklahoma City OK KPDQ Portland, Ore. WCHA Chambersburg. Pa.	250d 1000d 250d 1000d 1000d 500d 250r 1000d 250d 250d 1000d	WEVA WOAY WNOV 870	Sait Lake City, Utah Emporla, Va. Oak Hill, W.Va. Milwaukee, Wis. 344.6 ilendale, CA onolulu, Hawaii lew Orleans, I.a.	5000d 5000d 5000d 5000d 5000	KLOC KDES KVEC KLMR WTRS WMEL WGST WVOH WGNU	Ceres, Callf. Palm Springs, CA San Luis Obispo, C Lamar, Colo. Dunnellon, Fla. Melbourne FL Atlanta, Ga. Hazelhurst, Ga. Granite City, Ill. (Metronolis, Ill.	5000 5000d 5000r al. 1000 500d 1000 500d 500d 500d
WNOP Newport, Ky. WCAS Cambridge, Mat KBAD Carisbad NM WGSM Huntington, N. WMBL Morehead City, WPAQ Mount Airy, N. KRMG Tulsa, -0KH, N. WYGL Chester, Be.	250d 250d 1000d 3s, 250d 1000r Y, 5000d N.C. 1000d C. 1000d	WDSC Dillon, S.C. WEAB Greer, S.C. WDEH Sweetwater, Tenn. KDDD Dumas, Tex. KBUH Brigham City, UT WSVS Crewe, Va. KQIN Burien, Wash, WKEE Huntington, W.Va. WDUX Waupaea, Wis.	1000d 250d 1000d 250d 500d 5000d 5000d 5000d 5000d	WGTL WHOA KJIM F WFLO 880	Lexington, NE New York, N.Y. Cilnton, NC	10000d 5000d 1000d 5000 250d 1000d 50000	WTEW WBOX KTOC WPTX WMPL KDHL KWAD KWK KWYS	W. Lafayette, Ind. Shenandoah, IA Whitesburg, Ky. Bogalusa, La. Jonesboro, La, Lexington Park, M. Hancock, Mich. Faribault MN Wadena, Minn. St. Louis, MO W. Yellowstone, No Las Vogas, Nev.	5000d 1000d 1000d d. 5000 1000d 5000 1000 5000r nt. 1000 5000
WIAC San Juan, P.R. WBAW Barnwell, S.C. WRJ Humbolt, Tenn. WBGY Tullahoma, TN KTRH Houston, Tex. KCMC Texarkana, Tex. WBCI Williamsburg, WRNR Martinsburg WB00 Baraboo, Wis.	25000 50000 Va. 3 500d V 1000d 250d	WJXL Jacksonville AL (GGO San Francisco, Callf. KWSR Riffe, Colo. WBLW Royston, Ga, WATI Indianapolis, Ind. WEKG Jackson KY WYRE Annapolis, Md. WSJC Magee, Miss. WJPW Rockford, Mich. KCMO Kansas City, Mo. KAFE Santa Fe N.M.	50000 50000 1000d 250d 1000 250d 1000 250d 50000 5000d	WRFD 890 WLS CI WHNC KBYE (Worthington, Ohio 336.9 sicago, III. Henderson, N.C. Dkia. City, Okia. 333.1	5000d 50000 1000d 1000d	WEED WTTM WKRT WGHQ WIRD WBBB WPTL WMNI KGAL	Albuquerque, N.Me Trenton, N.J. Cortland, N.Y. Kingston, N.Y. Lake Placid, N.Y. Burlington-Graham N.C. Canton, N.C. Columbus, Ohio Lebanon, Oreg.	5000d 1000 1000 5000d 5000d 5000d 1000 1000
KFQD Anchorage AK WSB Atlanta, Ga. WBMD Baltimore, Md KMMS Grand Island, WHEB Portsmouth, N KSEO Durant, Okla. KXL Portland, Oreg. WPDX Clarksburg, W. 760—394.5	Neb. 10000d .H 1000d 250d 50000d Va. 1000d	WGT Schenectady, n. TC WKBC N. Wilkesboro, N.C. WEDO McKeesport, Pa. WKVM San Juan, P.R. WQIZ St. George, S.C. KBHB Sturgis, SD WMTS Murfreesboro, TN KBSN Crane TX WPED Crozet, VA	5000d 50000 1000d 1000d 1000d 50000 5000d 5000d 1000d 5000d	KFKB KHOZ KBIF I KGRB V WJWL WSWN WMOP WJTH WBML	Birmingham AL Mobile AL Ozark AL Fairbanks AK Harrison AR Fresno, Callf. West Covina, CA Georgetown, Del, Belle Glade, Fla. Ocala, Fla. Macon GA Macon GA	1000d 1000d 10000 1000d 1000d 1000d 1000d 1000d	WKVA WJARD KKLS WLIV KELP KYXX KTLW KVEL KITN KXLY	Lewistown, Pa. Providence, R.I. Orangeburg, S.C. Rapid City, SD Livingston, Tenn. El Paso, Tex. Odessa, TX Texas City, Tex. Vernal, Utah Olympia, WA Spokane, Wash.	1000 5000 1000d 5000d 1000d 1000r 1000d 5000d 1000r 5000d
KFMB San Diego, Cal KGU Honotulu, Hawai WJR Detroit, Mich. WCPS Tarboro, N.C. WORA Mayaguez, P.R 770—389.4 KUOM Minneapolis, M WCAL Northfield, Min WEW St. Louis, Mo.	1 10000 50000 1000d - 5000 Inn. 5000d in. 5000d	WDMP Dodgeville. Wis. WJJQ Tomahawk, Wi. 820—365.6 WAIT Chicago, III. WIKY Evansville, IN WOSU Columbus, Ohio WBAP Ft. Worth, Tex.	5000d 250d 250d 5000d 50000	WEAS KSGL WF1A WLSI KREH WKXA WLMD WATC KTIS M WDDT KFAI	Savannah, Ga. Wichita, KS. Louisville, Ky. Pikeville, Ky. Oakdale, La. Brunswick, ME Laurel, Md. Gaylord, Mich. inneapolis, Minn. Greenville, Miss. Futton Mo.	5000d 5000d 5000d 250d 1000d 1000d 1000d 1000d 1000d 1000d	930— WJBY KTKN KAPR KAFR	N Fairmont, W.Va. Milwaukee, Wis. -322.4 Gadsden, AL Ketchikan AK Douglas, AZ Fiagstaff AZ os Angeles, Calif. Paradise, CA Durango, Colo.	5000 10000 5000d 5000r 2500d 5000d 5000
KOB Albuquerque, N. WABC New York, N. KXA Seattle, Wash. 780—384.4 KNOM Nome AK	Mex. 50000 Y. 50000 1000d	830—361.2 KIKI Honolulu, Hawali WCCO Minneapolis-St. Pat Minn. KBOA Kennett, Mo. WNYC New York, N.Y.	10000 11, 50000 1000d 1000d	KJSK (WBRV WKAJ WKIK WAYN	Columbus, Nebr. Boonville, N.Y. Saratoga Springs,	1000d 1000d Y, 250d	WTHD WHAN WJAX WKXY WMGF	Durango, Colo. Milford, Del. Haines City, Fla Jacksonville, Fla. Sarasota, Fla. Bainbridge, Ga. Pocatello, Idaho	5000 500d 500d 5000 1000 5000 5000

Call	Location	W.P.	Call	Location	W.P.	Call	Location	W.P.	Call	Location	W.P.
WHON WKCT WFMD WREB WBCK KKIN WSLI KWOC I KYSS M	Quincy, III. Centerville, Ind. Bowling Green, K. Frederiek, Md. Holyoke, Mass. Battle Creek, Mich ikkin, Minn. ackson, Miss. Opplar Bluff, Mo. lissoula, Mont.	5000 500d - 5000 1000d 5000 5000 5000d 5000d	WRFC KSRA S WDLM WSBT KMA S WPRT KROF	Albany, Ga. Athens, Ga. Salmon, Idaho E. Moline, Ill. South Bend, Ind. henandoah, Iowa Prestonsburg, Ky. Abbeville, La. Sallsbury, Md. Fitchburg, Mass. Rogers City, Mlch	5000	KSCV F WFHG WMEK KUTI Y WHAW WCUB WNBI F	conora TX Richfleld, Utah Bristol, Va. Chase City, Va. akima, Wash. Weston, W.Va. Manitowoc, Wis. Park Falls, Wis. Prairie du Chlen, Wis.	1000d 5000d 5000 500d 5000d 1000d 1000d	TOZO- KTNQ WCIL WPEO KBCQ KDKA	Stevens Pt., Wis. —293.9 Los Angeles, CA Carbondale, 111. Peoria, It. Roswell, NM Pittsburgh, Pa.	1000d 5000 1000d 1000d 50000 50000
WORL IN WEOL	arisbad, N.M. Rochester, N.H. Paterson, N.J. Buffalo, N.Y. Dhnstown, N.Y. Charlotte, N.C. Vashington, N.C. Elyria. Ohlo	1000d 5000 5000 5000 1000d 5000 5000	KFLN I KREB :	Fitchburg, Mass, Rogers City, Mleh Little Falls, Minn Greenwood, Miss, Cape Girardeau, M Baker, Mont, Scottsbluff-Gering, Farmington NM Plattsburg, N.Y. Kinston, N.C.	5000d NE 1000r 5000d 5000d	KIKI I KKIS P KTYD S	entre AL Fayette AL Flomaton AL 'ucson AZ itsburg, Calif. Santa Barbara. CA	250 d 10 00 d 500 d 10 00 0 r 500 0	WBZ E KCTA KANC WOSO KTWO	—291.1 Boston, Mass, Corpus Christ), Tex Anchorage, AK San Juan, PR Casper, WY	50000 c. 50000d 10 000 10,000 50000
WKY OF KAGI G KSWB S WCNR E WEKO O	klahoma City, Oklirants Pass, Oreg. Seaside, Ore. Sloomsburg, PA Cabo Rojo, PR berdeen, SD Sevierville, Tenn. Senter, Tex. Berrell, Hills, Tex.	a. 5000 5000 1000d 1000 5000 5000r 5000d 1000d	WWST KGWA KLAD WHYL WKZA	Wooster, Ohio Enid, Okla. Klamath Falls OR Carlisle, Pa. Kane, Pa.	5000 1000d 1000 5000 5000d 1000d 1000d	KLIR D WNTY S WHOO S WDWD WGML WGUN KPOI H	enver, Colo. Southington, Conn Orlande, Fla. Dawson, Ga. Hinesville, Ga. Atlanta GA onolulu HI	1000d 500d 50000 1000d 250d 5000d 5000d	KPBC Khuh Who i	—288.3 Dallas, TX Honolulu, Hi Des Moines. Iowa —285.5	1000 d 10000 5 0000
KBFW I KQOT Y WGNT I KROE S	perrell Hills, Tex. ynchburg, Va. Bellingham, Wash. 'akima, Wash. Huntinton, W.Va. heridan, Wyo.	5000 5000d 5000d 1000d 5000 1000d	WFIR	Beaufort, S.C. McMinnville, Tenn Mt. Pleasant, Tex. San Angelo, Tex. Provo, UT Roanoke, Va. Richland WA Shawano, Wis,	500d 1000d 5000 5000 5000 100 0	WERK KAYL S KRSL F WNNR F KRIH F WRNN	arthage, III. asper, Ind. Muncie, Ind. Storm Lake, Iowa tussell, Kans. New Orieans LA tayville, La. Clare, MI	1000d 250d 250d 250d 250d 250d 250d	WRFS WCRI KSOH KBBV KOFY KWSO WJSB	Alexander City, A Scottsboro AL Little Rock AR Big Bear Lake, C San Mateo, Calif, Wasco, Calif, Crestylew, Fla.	1000 A 250d 1000d 1000d 1000d
940—3		1000	970-	309.7 Hamilton, AL	50004	KRMO I WEEB S WBTE V	Waynesboro, Miss Monett, Mo. Southern Pines, N.C Vindsor NC	250d C. 5000d 1000	WCMG WHBO WAUG	Jacksonville FL Tampa, Fla. Augusta, Ga. Montezuma, Ga.	5000d 250d 5000d 250d
WINE B	reson AZ resno, Calif. rookfleld, Conn. Chiefland, Fla.	50000 1000d 500d 50000	WIBF KIAK I KVWM	Iroy AL Fairbanks AK Show Low AZ	5000d 5000r 5000 5000d	WTIG N	Gallipolis, Ohio Massillon, Ohio Albany, Oreg. Philadelphia PA	1000d 250d 250d 50000	WDZ I WTCA KUPK	Decatur, III. Plymouth, Ind. Garden City. Kai	1000d 250d 1. 5000d
KMIXM	liami, Fla. Macon, Ga. Waipahu, Hawail Jount Vernon, IL	50000 10000 5000d	KUZZ E	Joneshoro AR Jakersville, CA Coachella, CA Modesto, Calif. Pueblo, Colo.	1000d 1000 5000r 1000	WVSC S WPRA I	omerset, Pa. Mayaguez, P.R. Providence R.I	5000d 1000 50000d 1000d	KLPL KVPI	Central City, Ky. Lake Providence, Villa Platte, LA Oakland, Md. Silver Spring MD	La. 250d 250d 500d
WCND S	es Moines IA Shelbyville, Ky. t. Ignace, Mich. outh Haven, Mich. ouston MS	10000r 250d 5000d 1000d	WOZN WFLA WKLS	Jacksonville, Fla. Tampa, FL Atlanta GA	1000d 1000d 5000 5000d	KIRME	Aiken, S.C. Knoxville, Tenn, Memphis, Tenn, Beaumont, Tex, Cenedy-Karnes Cit	00001 500001 00001	WPAG KLOH WACR	Ann Arbor, Mich. Pipestone, Minn. Columbus, Miss.	10000
KSMW / KVSH V WKYK	Aurora, Mo. 'alentine, Nebr. Burnsville, NC	500d 5000d 10001s	KPUA KAYT	Vidalia, Ga. Hile, Hawali Rupert, Idaho Springfield, III. Loulsville, Ky,	5000d 5000 1000d 1000	KNIN W	Te /ichita Falls, Tex ooele, Utah Narrows	x. 250d	KSIS S WBNC	Portageville, Mo. Sedalia, Mo. Conway, N.H. Peterborough, N.H Baldwinsville, N.	1000d 1000d 1000d 1000d
WENC F	ayetteville NC ima, Ohio Bend, Oreg. Woodburn, Ore.	50000r 250d 1000d 1000d	I KSYLA	Louisville, Ky, Mexandria, La. Portland. Maine Aberdeen, Md.	5000 1000 5000 500		Pearisburg, Va Richmond, Va. Visconsin Dells, W	a. 5000d 1000d /1 500d	WHN	Massena, N.Y. New York, N.Y.	Y. 1000d 1000d 50000 1000d
WESA C WGRP (WVLV I	charlerol, Pa. Greenville, Pa. Lebanon, PA an Juan, P.R.	250d 1000d 1000d 10000	WESO WILDY	Southbridge, Mass. Shpeming MI Jackson, Mich. Austin, Minn,	1000d 1000 5000d	1000—	Huntsville AL	1000004	WWGP	Franklin, N.C. Lincolnton, N.C. Sanford, N.C. Cincinnati, Ohio Lawton, Okla.	1000d 1000d 1000d 250d
WECO W KIXZ A KTON E	Vartburg, TN marillo, Tex. Belton, Tex.	1000d 5000 1000d	WRKN	Brandon Mi Billins Mont	1000d 5000 5000d	WQTY # KMLO Y WRYZ J	Montgomery AL Vista, Cal. upiter, FL soperton, GA	5000 1000d 1000d 1000d	KFMJ KORE WBUT	Tuisa, Okia. Eugene, Ore. Butler, Pa.	1000d 1000d 250d
KBRE C WNRG (WEOO S	exarkana, IX Sedar City, UT Grundy, Va. mithfield, VA	2500d 10000d 5000d 1000	KVEG WWDJ KDCE I WEBR	o. Platte, Nebr. Las Vegas, Nev. Hackensack, NJ Espanola, N.M. Buffalo, N.Y.	500d 5000 1000d 5000	WCFL C WREM . WOOP C	Chicago, III. Jenkins, Ky. Danville, KY	50000 1000d	WLYC WCGB WSMT	Everett, Pa. Williamsport, Pa. Pastillo, P.R. Sparta, Tenn. Killeen TX	250d 1000d 1000d 1000d
WFAW WCSW S	Ft. Atkinson, Wis. Shell Lake, Wis.	500d 1000d	WCHN WRCS	Norwich NY Ahoskie, N.C. Canton, NC Fargo, N.Dak.	1000d 1000d 5000d 5000	WRNJ H	Leominster, Mass, Lexington, Miss, lattsmouth, Neb, lackettstown, NJ	1000d 5000d 250 d 1000d			250d 250d 250d
KRXAS	ontgomery, AL eward AK	1000	WREO KAKC KYTE F	Ashtabula, Ohio Tulsa, Okla. 'ortland, OR	5000 1000 5000	WKBQ G WSPF I KKIM A	orseheads, N.Y. Jarner, NC Lickory, N.C. Ibuquergue N.M	1000d 1000d 5000d 10000d	KRIE	Liberty, Tex. Slaton, Tex. Gate City, Va. Lynchburg, Va. Norfolk, Va. Seattle WA	250d 1000d 1000d 5000d 5000d
KXJK F KFSA F KAHI A	oldotna AK orrest City AR ort Smith AR uburn, Calif.	5000 5000d 1000r 5000d	wwew	Bellefonte, PA Pittsburgh, Pa, Florence, S.C. ustin, TX Crane, Tex. EAN Author Tex	1000d 5000 5000 1000d	WHIH I WSUM P KTOK O	teath, Ohlo 'arma OH okla. City, Okla. arlisle, Pa.	250d 5000d 5000 1000	WADC	Parkersburg, WV Eau Claire, Wis. Kaukauna, Wis.	5000d 1000d 1000d 250d
WLOF O WGTA S WGOV V	Denver, Colo. Irlando, Fla. Summerville, Ga. Valdosta, Ga.	5000 5000 5000d 5000	WSTX	Christiansted, V.I. Danville, Va.	1000d 1000d 1000d	WKYB I WGOG V	Hemingway, S.C. Wahalla, S.C. Meman Tev	10000d 1000d 250d		Kenosha, Wis. Douglas, WY —282.8	1000r
KBRJ B	oise ID rofino, Ida.	5000d 1000d 1000d 5000d	WANV	Waynesboro, Va. Spokane, Wash. Pineville, W.Va. adison, Wis. Superior, W!	5000 5000 1000d 5000d	WKDE / WRAR 1 WHWB	enderson, Tex. Altavista, Va. Tappahannock, Va. Rutland, Vt.	1000d 500d 1000d	KKKQ KAYR KPAY	Tempe AR Van Buren AR Chico, Calif.	5000 10000
KOEL O	nicago, 1L Indianapolis, Ind. elwein, la. ewton, Kans. Barbourville, Ky. Presque Isle, Main otomac-Cabin John	5000 500d 1000d	980—	305.9	1000d	1010—	Rutland, Vt., harlotte Amalie, V leattle, Wash.	50000	WRMF WXIX	Titusville, FL Milledgeville, GA	10000d 10000r 1000d 2500d
WRYTB	otomac-Cabin John Md. oston, Mass.	1000d 5000d	KFWJ I KCAB I KINS E	Clanton AL Lake Havasu City A Dardanelle AR Lureka, Calif. Fresno, Calif.	5000 [KXEG P KVNC W KLRA L	hoenix AR /inslow, Arlz. ittle Rock AR	0001 0001 00001	KBGN WMCL WRHL WIKY	Tallapoosa, GA Caldwell, ID McLeansboro IL Rochelle, III. Jamestown, Ky	1 0000d 2500d 250d 1 000d
KRSI ST WBKH KLIK Je	oston, Mass. troit, Mich. Louis Park, Mint Hattiesburg, Miss. fferson City, Mo. elena,MT Hyde Park, NY Zenberten, NY	1. 1000 5000d 5000	KFWB KCTY S	Los Angeles, Calif, alinas, Calif. Glennwood Springs,	1000d	KCHJ D KCMJ P KIQI Sa KCMP B	elano, CA alm Springs, CA n Francisco, CA rush CO	5000r 1000r 10000d 5000r	WHEB	Rochelle, III. Jamestown, Ky. New Orleans LA Natick, Mass. Benton Harbor-	50000r 1000d
KNFT B	ayard, NM Hyde Park, NY Rochester, N.Y.		WRC W	Colo Groton- ondon CN ashington, D.C.	1000 d 5000		rush CO Crestview, Fla. acksonville Beach. Fla. ampa. Fla.	1000d 1000dd 5000dd	WBMB WKKQ KFIL P	St, Joseph, Mic West Branch, Mi Hibbing, MN Preston, Minn.	1000d 5000d 1 00 9d 5000d
WIBX U	tica, N.Y. ireensboro. N.C. eubenville, OH oseburg, Oreg. arnesboro. Pa,	5000 500d 1000d 1000d	WBOP	Gainesville, Fla. Marianna, Fla. Pensacola, Fla. ompano Beach FL	5000d 1000d 1000d 1000d	WCSI CO	ampa, Fia. tlanta, GA slumbus, Ind. tason City, Iowa dependence, Kans	500d 1000d	WILI T KBUG: KNLV	Hibbing, MN reston, Minn. Hibbing, MN upelo, MS Springfield MO Ord, Neb. Mebane, NC Monroe, N.C. St. Pauls NC Sparta, N.C. Canton, OH	250d 500d 1000d
WPEN P	'hi'adeiphia, Pa. Ioneks Corner. S.C.	500d 5000	WKLY WPGA 1 WRIP R	ompano Beach FL Hartwell, Ga. Perry, Ga. ossville GA Jaho Falls, Idaho	1000d 1000d 500 1000d	WMJL W KDLA D WKQT G	dependence, Kans larion, Ky. le Ridder, La. laryville, La. altimore, Md. unsing, Mich.	250d 1000d 500d 1000d	WQWX WMAP WLAB WCOK	Mebane, NC Monroe, N.C. St. Pauls NC Sparta, N.C.	1000d 1000d 250d 250d
WAGG F	partanburg, S.C. Vatertown. S.Dak. 'ranklin. Tenn. enison-Sherman, Te ouston, Tex. ibbock, Tex.	10001	KSGM (hester. III.	1000 1000 250d 1000d		attimore, Md. Insing, Mich. Iaplewood MN Meridian, Miss. Illicothe, Mo.	5000d 250d 10000		Canton, O H Philadelphia, Pa. Walterboro, S.C. Pierre, SD	5000d 50000 1000d
WAGIR	ibbook, Tex. ichmond, Va. ttle, Wash. agle River, Wis.	5000	WAOP (WAYL F WAPF	owell, Mass. Itsego, Mich. Iichfield, MN McComb, Miss.	1000d	WCNL N	estus-St. Louis, Mo. lewnort, N.H.	250d 50000d 250d		Newport TN Waverly, Tenn. El Paso, TX Gilmer TX	10000d 1000d 1000d 1000d
WERL E	agle River, Wis. harleston, W.Va. heboygan, Wis. emmerer, Wyo.	1000d 5000 500d 500d	WKOR KMBZ I KVLV F KICA C	nonfield, MN McComb, Miss. Starksville, Miss. (ansas City, Mo. allon, Nev. lovis N. Mex. irants, N. Mex. iroy, N.Y. Wilmington, N.C. VinSalem, N.C. Jayton, Ohio	1000d 5000 5000d 1000	WFGW	ew York, N.Y. Ibermarie, N.C. Black Mountain, N.C.	1000d 50000d	KCLT	Gilmer IX Lockhart, TX Winters TX Salt Lake City, Utal	250d 1000d
960—3	12.3	FAD.C	WTRY 1 WKLM WAAA	rants, N. Mex. roy, N.Y. Wilmington, N.C. VinSalem, N.C.	1000d 5000¢ 1000d	WIOI NE WTGC L WHIN-G	inston, N.C. w Boston, Ohlo ewisburg, PA allatin, Tenn.	1000q 1000q 1000d	WAPI	-280.2 Birmingham AL	50000r
	rmingham AL oenix AZ ppfe Valley, Calif. ompoc, Calif. akland, Calif.	5000 5000 5000d 5000	WILK W WAZS S WYCI Y	/ilkes-Barre, Pa ummerville, S.C.	5000 1000d 1000d	WORM S KDJW A KODA H KKIK W	avannah, Tenn. marillo, Tex. ouston TX aco-Marlin. TX	250d 5000 5000	WIRC	os Angeles, Calif. Tallahassee, FL Indianapolis, Ind. Estherville, Iowa	50000 10000d 50000 250d
WELI NO WELI NO WGRO L WJCM So	akland, Calif. ew Haven, Conn. ake City, Fla. ebring, Fla.	5000 5000 500d 1000d	WSIX N	eadwood, S.Dak. ashville, Tenn. losenberg-Richmond Tex.	1000 5000 I,	WELK C WMEV I WPMH F	harlottesville, VA Marion, Va. Portsmouth, VA erkeley SprgsW.V	5000 1	KHMO	Estherville, Iowa Wichita, Kans. Elkton, KY Hannibal, Mo. Polson, MT	10000 5000 25000r
	ONG MORIE	1070			·			,			

Call Location W.P.	Call Location W.P.	Call Location W.P.	Call Location W.P.
WKMB Stirling, NJ 250d WKDR Plattesburg, N.Y. 5000d WSCP Sandy Creek-Pulaski NY 2500d WNCT Greenville, N.C 10000 WGOS Highpoint, NC 10000	WSLV Ardmore, Tenn. 1000d WUAT Pikesville, TN 250d KDRY Alamo Helghts, Tex. 1000d WZAM Norfolk VA 50,000	KNOI Pullman, WA 1000d KAYO Seattle, Wash. 5000 WABH Churchville, VA 1000d WELC Welch, W. Va. 1000d WYNE Appleton, Wisc. 1000 WAYY Chippewa Falls WI 5000d	WKMT Kings Mtn. N.C. 1000d WREV Reidsville, NC. 1000d WENC Whiteville, N.C. 5000d KODR Oakes, ND 1000d WGAR Cleveland, Ohio 50000 WERT Van Wert, Ohio 250d KEMC Midwest City OK
WKOK Sunbury, Penn. 10000 WMIA Arecibo, P.R. 500 WHYZ Greenville, S.C. 50000d WFLI Leokout Mountain- Chattanooga, TN WDIA Memphis, Tenn. 50000r KWEL Midland, TX 10000d KOPY Allce, Tex. 1000 KNNN Friona, Tex. 250d	WUST Washington DC 1000d KMOX St. Louis, Mo. 50000 WWOL Buffalo, N.Y. 1000d KPNW Eugene, OR 50000 KCLE Cleburne, Tex. 250d WVUV Leone, Am. Samoa 10000	1160—258.5 WJJD Chicago, III. 50000d WBQN Barceloneta PR 1000 KSL Sait Lake City, Utah 50000	KBLY Gold Beach, Oreg. 1000d KCCS Salem OR 1000d WJUN Mexico, Pa. 1000d WRIB Providence R.1. 1000d WFWL Camden, Tenn. 250d WCPH Etowah, Tenn. 1000d KZEE Weatherford TX 500d
KNNN Friona, Tex. 250d KNNN Friona, Tex. 10000 WINA Charlottesville, Va. 5000 WIR Beckley, W.Va. 10000 WTSO Madison, Wise. 10000	1130—265.3 KRDU Dinuba, Calif. 1000 KSDO San Diego, Cal. 50000 WPUL Bartow, Fla. 1000d WLBA Gainesville, GA 10000d WMGA, Mouttrie, Ga. 10000d	WCOV Montgomery AL 10000r KJNP North Pole AK 50000 KCBQ San Diego, CA 50000r KLOK San Jose, CA 50000r KLOK Windsor, Colo. 1000d WSNE Cumming, Ga. 1000d	KVLL Woodville, Tex. 250d WLSD Bly Stone Gap, Va. 1000d WFAX Falls Church, Va. 5000d KASY Auburn, Wash. 250d 1230—243.8 WAUD Auburn AL 1000r
WKAC Athens AL 80000d KANC Anchorage. AK 10000 KSCO Santa Gruz, Callf. 10000 WTIC Hartford. Conn. 50000 WVCG Coral Gables, Fla. 10000 WFIV Kissimmee, Fla. 5000d WJOE Port St. Joe, Fla. 10000d	KLEI Kailua, Hawall 10000 WWCM Brazil, Ind. 500d KKSI Mt. Pleasant, IA 1000r KLEY Wellington, Kan. 250d WKED Frankfort, KY KWICH Shreveport, La. 50000 WCGR Detroit, Mich. 50000 WDGY Minneapolis, Minn. 50000	KOHO Honolulu, Hawail 5000 WLBH Mattoon, IL 5000d KQKI Bayou Vista, LA 250d KSTT Davenport, Iowa WJMQ Norfolk, MA WVLC Orleans, Mass. 1000d KOWO Waseca, MN 1000 KIAS Jackson MO 250d	WJBB Haleyville AL 1000r WBHP Huntsville AL 1000r WH0D Jackson, AL 1000r WH0Z Talladega AL 1000r WTBC Tuscaloosa AL 1000r KIFW Sitka AK 250 KSUN Bisbee, AZ 1000r
W BIE Marletta, Ga. 10000d K 10E Honolulu, HI 5000d K V NI Coeur d'Alene ID 10000 W P OK Pontiac, III. 1000d W N W I Valparaiso, IN 5000d K OAK Red Oak, Iowa 250d W K L O Louisville, Ky, 10000 W OAP Owosso, Mich. 1000d	WGUF Guifport, MS 500 KBLR Boilvar, Mo. 250d WNEW New York, N.Y. 50000 WPYB Benson, N.C. 1000d WCBX Eden, N.C. 1000d WJTP Newland, NC 1000d WCTM Eaton OH 250d WASP Brownsville PA 5000d	WCLN Clinton, NC 1000d KFNW Fagro ND 10000d WHLW Lakewood, NJ. 5000d WBRW Somerville NJ 5000d WWLE Cornwall, N.Y. 1000d WMVI Mechanteville, N.Y. 250d KV00 Tulsa, Okla. 50000 WIFO Ponce P. 8 250	KAAA Kingman AZ 1000r KRIZ Phoenix AZ 1000r KATO Safford AZ 1000R KINO Winslow AZ 1000r KCON Conway AR 1000r KETW Fort Smith AR 1000r KETM Jonesboro AR 1000r KCON Conway, Ark, 1000
WECP Carthage, Miss. 250d KYMN Northfield MN 1000d KGCL East Prairle, Mo. 250d KJEL Lebanon, MO 250d WUFO Amherst, N.Y. 1000d WEWO Laurinburg, N.C. 5000d WKGX Lenoir NC 1000d	WEEO Waynesboro PA 1000d WAMG Gallatin TN 2500d WDTM Selmer, Tenn. Z50d KWBY Edna TX 1000d KWBY Edna TX 1000d KRGH Memphis, Tex. 1000d WISN Milwaukee, Wis. 50000	WWVA Wheeling, W.Va. 50000 WLKE Waupun, WIs. 1000d	KGEE Bakersfield, CA 1000r KWTC Barstow, CA 1000r KIBS Bishop, CA 1000r KXO El Centro, CA 1000r KDAC Fort Bragg, CA 1000r KKTT Los Angeles CA 1000 KPRL Paso Robles, CA 1000r KRO G Redding CA 1000r
WWDR Murfreesboro, N.C. 1000d KNDK Langdon, N.D. 1000d WMVR Sidney, O. 250d KWJJ Portland, Oreg. 50000 WEEP Pittsburgh, Pa. 50000d WLEY Cayey, P.R. 250 KRLD Dallas, Tex. 50000 WZTQ Hurricane, WV	1140—263.0 KRAK Sacramento, Calif. 50000 KVLI Lake Isabella CA 500d KNAB Burlington, Colo. 10000 WQBA Miami, Fla. 10000 KGEM Boise, Idaho 10000 WSIV Pekin, III. 50000	KOFI Kallspell, Mont. 50000 WHAM Rochester, N.Y. 50000 1190—252.0 WAYD Ozark AL 1000d KRDS Tolleson AZ 280 KMCW Augusta, AR 5000	KWG Stockton, CA 1000r KEXO Grand Junction, Colo. 1000 KBRR Leadville, Colo. 1000 KDZA Pueblo, Colo. 1000 KBCR Steamboat Springs, CO KGEK Sterling, Colo. 1000d WINF Manchester, Conn. 1000
WZTQ Hurricane, WV 1090—275.1 KAAY Little Rock AR 50000 KNCR Fortuna, Cal. 10000d KAAT Denver CO 50000d WTBJ Monticello, FL 10000d	WAWK Kendaliville, Inc., 2500 KNEI Waukon, Iowa WKCM Lewisport, KY WKCM Hawesville KY WKWM Kentwood, MI 5000d KBIL Liberty, Mo. 500d	KEZY Anahaim, CA 5000r KNBA Vallejo CA 1000d KADE Boulder, CO 1000d WAVS Ft. Lauderdale FL 5000d W HLL Pine Castle-Sky Lake FL 1000d WGKA Atlanta GA 5000d	WÖNN Lakeland, Fla. 1000 WMAF Madison FL 1000r WSBB New Smyrna Bch. Florida 1000 WNVY Pensacola, Fla. 1000 WCNH Quincy, Fla. 1000d WJNO West Palm Beach FL 1000r
WBAF Barnesville, GA 1000d WCRA Effingham, III. 1000d WGLC Mendota, III. 250d KHAI Honolulu, Hawaii 5000 WFWR Fort Wayne, Ind. 1000d KVDB Sloux Center, Iowa KNWS Waterloo, Iowa 1000d WSLG Gonzales, LA 500d	KCTE Southwest City, MO 250d WAKK McComb, MS 500 KPWB Piedmont, Mo. 1000d KLUC Las Vegas, Nev. 1000d WCJW Warsaw, NY 1000d WCLW Mansfield, Ohio 250d KLPR Oklahoma City, Okla. 1000d WBZY New Castle, Pa. 5000d	WOWO Ft. Wayne, Ind. 50000 WANN Annapolis, Md. 10000d WKOX Fram'gham, Mass. 1000d WXGR Bay St. Louis MS 5000d KHAD Desoto, MO 5000d KWMB Wabasha, MN 1000d KAYO Kansas City MO 1000d KPAR Albuquerque, N. M. 1000d WLIB New York, NY 10000	WBIA Augusta GA 1000r WBLJ Dalton, Ga. 1000 WXLI Dublin, Ga. 1000 WFOM Marietta, Ga. 1000 WSOK Savannah, Ga. 1000 WAYX Wayeross, Ga. 1000 KORR Burley, Idaho 1000 KORR Grangeville, Ida. 1000
WIAL Baitimore, Md. 50000 WILD Boston MA 50000d WID Garden City MI 500 KEXS Excelsior Springs. Mo. KBOZ Bozeman, MT 5000	WQil San Juan, P.R. 10000 KS00 Sioux Falls, S.Dak. 10000 WIXC Fayetteville, TN 5000d KBUY Fort Worth, Tex. 50000 KORC Mineral Wells, Tex. 250d WRVA Richmond, Va. 50000	WSML Graham, N.C. 500d WIXE Monroe, NC 1000d KEX Portland, Oreg. 50000 WRAI Rio Pledras, P.R. 500 WBMJ San Juan, P.R. 1000C WJES Johnston SC 1000d KOKK Huron, SD 500d	KRXK Rexburg, Idaho 1000 WJBC Bloomington, 111. 1000 WQUA Molline, III. 1000 WHCO Sparta, IL 1000 WJOB Hammond, Ind. 1000 WSAL Logansport, Ind. 1000 WTCJ Tell City, Ind. 1000 WBOW Terre Haule, IN 1000d
WKTE King, N.C. 1000d WBZB Selma-Smithfield, NC 1000d KTGO Tiega. N.D. 250d WKFI Wilmington, OH 1000d WBOZ San German, PR 250 WMTY Greenwood, SC 1000d WKSP Kingstree, S.C. 300d	WGEA Geneva AL 1000d WJRD Tuscaloosa AL 5000r KABN Long Island AK KCKY Coolidge AZ KXLR North Little Rock AR KUS Los Angeles CA 5000r	KLIF Dallas, Tex. 50000 WAMB Donelson, Tenn. 250d WHMT Humboldt TN 800d 1200—249.9 WOAI San Antonio, Tex. 50000	KFJB Marshalltown, Iowa 1000 WH1R Danville, Ky. 1000d WH0P Hopkinsville, Ky. 1000 WANO Pineville KY 1000r KLIC Monroe, La. 1000r WBOK New Orleans LA 1000r KSLO Opelousas, La. 1000 WBME Belfast, Me. 250 WQDY Calais ME 1000r WSJR Madawaska, Me. 1000
WENR Englewood, Tenn. 1000d WJKM Hartsville, Tenn. 250d WGOC Kingsport TN 1000d KACO Beliville, TX 250d KKYN Plainview, TX 1000d KING Seattle, Wash, 50000 WISS Berlin, Wis. 500d	KBAI Morro Bay, CA 500d KPLS Santa Rosa, Callf. 5000 KWBZ Englewood, CO 5000d WCNX Middletown, Conn. 1000d WOEL Wilmington, Del. 5000 WNDB Daytona Beh Fla. 1000 WTMP Tampa, Fla. 5000d WFPM Fort Valley, Ga. 1000d	1210—247.8 KZ00 Honolulu, Hawall 1000 W1LY Centralia, III. 10000 WKNX Saginaw, Mich. 10000d WADE Wadesboro, N.C. 10000d WAVI Dayton, Ohlo 250d	WCMD Cumberland, MD 10000 WCMD Cumberland, MD 10000 WMNB Nn. Adams, Mass, 10000 WESX Salem, Mass, 1000 WNEB Worcester, Mass, 1000 WCUZ Grand Rapids MI 1000
T100—272.6 KFAX San Francisco CA 50000 KREX Grand Junction, Colo. 50000 WHLI Hompstead, N.Y. 10000d WWWE Cleveland QH 50000	WJEM Valdosta, Ga. 1000d WGGH Marion, III. 5000d WK(KN Rockford, IL 1000d KKUZ Burlington, Iowa 500d KWKY Des Moines, Iowa 1000 KSAL Salina, Kans, 5000 WMST Mt. Sterling, Ky. 500d WLOC Munfordville, Ky. 1000d	KGYN Guymon, Okla, 10000 WCAU Philadelphia, Pa. 50000 WHOY Salinas, PR 10000 1220—245.8 WBUL Birmingham AL 10000 WABF Fairhope AL 10000	WIKB Iron River, Mich. 1000d WMPC Lapeer, Mich. 1000 WS00 Sit. Ste, Marie, Mich. 1000 WSTR Sturgis, Mich. 1000 WKLK Cloquet, Minn. 1000 KGHS Internat'l Falls, Minn. 250 KYSM Mankato, Minn. 1000 KMRS Morris, Minn. 1000
WGPA Bethlehem, Pa. 250d 1110—270.1 WBCA Bay Minette AL 10000d WBIB Centreville AL 1000d KGFL Clinton, AR	WJBU Baton Houge, La. 3000 WSKW Skowhegan, ME 5000d WACQ Boston, MA 5000d WCEN Mt. Pleasant, Mich. 1000 KASM Albany, Minn. 1000d KRMS Osage Beach, Mo. 1000d KSEN Shelby, Mont. 5000 KJEF Albuoyerque NM 5000	K V S A McGehee AR 1000d K LIP Fowler, Call 1. 250d K IBE Paio Alto, Cal. 5000d K LIT Pomona CA 250d K B NO Denver, CO 1000d K STC Sterling, CO 1230 W OMN New Haven CT 1000d	KINF INITER HIV. Fails. Minn, 1000 KWN0 Winona, Minn, 1000d WHI Bay Spring, MS 1000d WCMA Corinth, Miss, 1000 WHSY Hattlesburg, Miss, 1000 WSSO Starkville, Miss, 1000
KIGI Pasadena, CA KPOP Roseville, Cal. 500 WQYK Tampa FL 10000d WEBS Calhoun, Ga. 250d WMBI Chicago, III. 5000d WHYT Noblesville, IN 5000d	WRUN Utica, N.Y. 5000 WBAG Burlington, N.C. 1000d WGBR Goldstoro, N.C. 5000 WCUE Cuyahoga Falls, Ohlo WIMA Lima, Ohlo KNED McAlester, Okla, 1000 KAGO Klamath Falls, Oreg, 5000	WKTZ Arlington FL 5000d WMJK Kissimee, FL 1000d WCMQ Miami, FL 1000d WQSA Sarasota, FL 1000d WCLB Camilla, Ga, 1000d WPLK Rockmart, Ga, 500d WSFT Thomaston, Ga, 250d WLPO LaSaile, III. 1000d	KUDE Jopin. Mo. 1000 KLWT Lebanon, Mo. 1000 KWIX Moberly, Mo. 1000 KBMN Bozeman, MT 1000 KHDN Hardin, Mont. 1000
WCBR Richmond KY 2806 WDPE Pittsfield, AA 1000d WUPE Pittsfield, MA 1000d WUNN Mason, MI 1000d WJML Petoskey, Mich. 1000d WKRA Holly Springs, Miss. 1000d KFAB Omaha, Nebr., 50000 KCIA Humble City. NM 1000d WVNH Salem, NH	KKEY Portland, Ore. 5000d WHON Huntingdon, Pa. 5000d WYNS Lehighton, Pa. 1000d WKPA New Kensington, Pa. 1000d WDIX Orangeburg, S.C. 5000 WTYC, Bock Hill, S.C. 1000d	WKRS Waukegan, III. 1000d WSLM Salem, Ind. 5000d KJAN Atlantic, Iowa 250d KOUR Independence, Iowa 250d KOFO Ottawa. Kans. 250d WFKN Franklin, Ky. 250d	N. C. Lewistown, mont. 1000
WYNH Salem, NH 5000d WSFW Seneca Falls, N.Y. 1000 WTBQ Warwick NY 250d WBT Charlotte, N.C. 50000 WELX Xenia, Ohlo 250d KEOR Atoka, Okla, 5000d KBND Bend, Oreg. 100000 WJSM Martinsburg, Pa. 10000	WSN W Seneca, S.C. 1000d KIMM Rapid City, S.Dak. 5000d WGOW Chattanoga, Tenn. 5000 WCRK Morristown, Tenn. 1000 WTAW College Station TX 1000 KCCT Corpus Christi, Tex. 1000d KISO El Paso, TX 1000d KJISC BL Paso, TX 1000d KJISC Midland, Tex. 1000d KSUZ Port Neches, TX 500d	WEQU WINITEY CITY, KY 1000B KBCL Shreveport, La. 250d WLBI Denham Springs, La. 250d WSME Sanford, Maine 1000U WBCH Hastings, Mich. 250d WAVN Stillwater, Minn. 5000d WMDC Hazelhurst, Miss. 250d KEYM Cape Girardeau, Mo. 250d KBHM Branson, Mo. 1000d KLPW Union, Mo. 1000d	KOTS Deming N M 1000 KYVA Gallup, N.Mex. 1000 I(FUN Las Vegas, N.M. 1000 KRSY Roswell, N.Mex. 1000 WNIA Cheektowaga, N.Y. 500 WENY Elmira, N.Y. 1000 WIGS Gouverneur, N.Y. 1000 WHUC Hudson, N.Y. 1000
WISM martinsoury, Pa. 1000d WNAR Norristown, PA. 50000d WVJP Caguas, P.R. 250 WHIM Providence, R.I. 1000d	KSUZ Port Neches, TX 500d KOLJ Quanah, Tex. 500d KQAM San Antonio. TX 1000d	WLBK Keene, N.H. 1000d WGNY Newburgh, N.Y. 5000d WSOQ N. Syracuse, N.Y. 1000d	WLFH Little Falls, N.Y. 1000 WFAS White Plains, N.Y. 1000 WSKY Asheville. N.C. 1000

Call Location W.P.	Call Location W	P. Call Location W.P.	Call Location W.P.
WFAI Fayetteville, N.C. 1000 WMFR High Point, N.C. 1000 WMSP Kinston, N.C. 1000 WNNC Newton, N.C. 1000 WCBT Raanoke Ran, N.C. 1000 WCBT Roanoke Ran, N.C. 1000 WUBE Cinclinnati, 0, 1000 WUBE Cinclinnati, 0, 1000 WUBE Cinclinnati, 0, 1000 WIRO Ironton, Ohio 1000 WIRO Ironton, Ohio 1000 KADA Ada, Okla. 1000 KADA Ada, Okla. 1000 KWAS Astoria, Ore. 1000 KRNS Burns, Ore. 1000 KRNS Burns, Ore. 1000 KRNS Burns, Ore. 1000 KRNS Burns, Ore. 1000 KRNS Goos Bay OR 1000 KRNS Gresham, Ore, 1000 KYJC Medford, Oreg. 1000 KYJC Medford, Oreg. 1000 KGJIK Lakeview, Ore. 1000 KGJIK Lakeview, Ore. 1000 WES Easton, Pa. 1000 WEEX Easton, Pa. 1000 WEEX Easton, Pa. 1000	WMFG Hibbing, Minn. 101 KPRM Park Rapids, Minn. 100 WJON St. Cloud, Minn. 100 WJON St. Cloud, Minn. 100 WJON Aberdeen, MS 100 WGRM Greenwood, Miss. 20 WGCM Guffport, Miss. 100 KFMO Flat River, Mo. 100 KFMO Flat River, Mo. 100 KFMO Flat River, Mo. 100 KVOS Jefferson City, Mo. 100 KNEM Nevada, Mo. 20 KBMY Billings, Mont. 100 KLEX Glasgow, Mont. 100 KLYQ Hamilton, MT 100 KGLYQ Hamilton, MT 100 KFOR Linceln, Nebr. 100 KFOR Linceln, Nebr. 100 KFOR Linceln, Nebr. 100 KFOR Linceln, Nebr. 100 KFOR Billings, Mont. 100 KFOR Linceln, Nebr. 100 KFOR Billings, Mont. 100 KFOR Billings, Millings, MILLING		Mandan, ND 1000 WILE Cambridge, Ohio 1000d KWPR Claremore, Okla. 500d KAJO Grants Pass, Oreg. 5000d WLBR Lebanon PA 5000r WBHC Hampton, S.C. 1000d KNWC Sioux Falls, S.Dak. 1000 KNWC Sioux Falls, S.Dak. 1000 KIOX Bay City, Tex, 1000 KHEM Big Spring, Tex, 1000d KEPS Eagle Pass, Tex. 1000d KFIZ Fort Worth Tex, 5000 WRIC Townorth Tex, 5000 WOKT Newport News, VA WHEO Stuart, Va, 1000d KCVL Colville, Wash. 5000d KBAM Longview, Wash. 5000d KIML Gillette, Wyo, 5000
WCRO Johnstown, Pa. 1000 WBPZ Lock Haven, Pa. 1000 WTIV Titusville, Pa. 1000 WTIV Titusville, Pa. 1000 WRIK Arecibo, P.R. 1000 WAIM Anderson, S.C. 1000 WAIM Anderson, S.C. 1000 WOLS Florence, S.C. 1000 KISD Sloux Falls, S.Dak. 1000 KISD Sloux Falls, S.Dak. 1000 WAKI McMinnville, Tenn. 1000 WMLR Hohenwald, TN 1000 KEAN Abilene TX 500d KEAN Abilene TX 500d	WGBB Freeport, N.Y. 100 WGVA Geneva, N.Y. 100 WJTN Jamestown, N.Y. 100 WNBZ Saranac Lake, N.Y. 100 WWWD Schneetady, N.Y WATN Watertown, N.Y. 100 WPNF Brevard, N.C. 100 WJST Charlotte, N.C. 100 WJST Charlotte, N.C. 100 WJL Raleigh NC WJL Raleigh NC KDLR Devils Lake, N.Dak. 22 WBBW Youngstown, Ohlo 100 WHIZ Janesvilla, Ohlo 100	KBHC Nashville AR 500d KGIL San Fernando, Calif. 5000 KYA San Francisco, Calif. 5000 KSNO Aspen, Colo. KSNO Aspen, Colo. WCRT Birmingham, Ala. 5000d WMRK Newstport, Conn. 1000d WNRK Newsrk, Del. 500d WWDC Washington, D.C. 5000 WFTW Ft. Walton Beach, FL WWOK Miami, Fla. 5000 WWFF Palatka, Fla. 1000 WWFF Baxkey, Ga. 5000d WJFE Bakkey, Ga. 1000d WJHE Last Point, Ga. 5000d WJHE Last Point, Ga. 5000d	1280—234.2 WP1D Piedmont AL 1000d WNPT Tuscalosa AL 5000r KHEP Phenix AZ 1000d KNBY Newport AR 1000d KFYV Arroyo Grande CA 1000 KFYV Arroyo Grande CA 1000 KIDY Stockton, Calif. 1000 KTLK Denver, Colo, 5000 WSFD Seaford DE WGTX De Funiak Springs, Fia. 5000d WEX Jacksonville, FL WIPC Lake Wales, Fla. 1000d WYND Sarasota, Fla. 5000d
KNUZ Houston, Tex. 1000 KCPV Kerrville, Tex. 1000 KLVT Levelland, Tex. 1000 KCEE Nacogdoches, Tex. 1000 KCZA Odessa, Tex. 1000 KGRO Pampa, Tex. 1000 KSEY Seymour, TX 1000 KSTS Sulphur Sprgs. Tex. 1000 KWTX Waco. Tex. 1000 KPRQ Murray, UT 1000 KOAL Price, Utah 1000 WJOY Burlington, Vt. 1000 WBBI Abingdon, Va. 1000 WOBI Brockneal, Va. 1000	KVSO Ardmore OK KADS Elik City, Okla, 100 KBEL Idabel, Okla, KOKL Okmulgeo, Okla. 100 KFLY Corvallis OR KTIX Pendleton, Oreg, 100 KPRB Redmond, Ore, KQEN Roseburg, Ore, WHUM Reading, Pa, WSEW Selinsgrove, Pa WBAX Wilkes-Barre, Pa. 100 WBAX Wilkes-Barre, Pa.	N.W.E. Welser, 10a. 1000d	WYND Sarasota, Fla. 500d WIBB Macon, Ga. 5000d WMRO Aurora, IL. 1000r WFE Evansville, Ind. 5000 WFE Indianapolis, IN KCOB Newton, Iowa 1000d KSOK Arkansas City, Kans. 1000 WCPM Cumberland, KY 1000d WIX Lancaster, Ky. 1000d WKJK Lancaster, Ky. 1000d WKWL Oak Grove, La. 1000d WABK Gardiner, Me. 5000 WEIM Fitchburg, Ma. 5000d WFYC Alma, Mich. 5000d WYTC Minneapolis, Minn. 5000 KVOX Moorhead, Minn. 1000d KDKD Clinton, Mo. 1000d
WNOR Norfolk, Va. 1000 KOZI Chelan, Wash. 1000 KWYZ Everett, Wash. 1000 KSPO Spokane, Wash. 1000 KREW Sunnyside, Wash. 1000 WLOG Logan. W.Va. 1000 WKYG Parkersburg WV 1000 WKYG Parkersburg WV 1000 WCLO Janesville, Wis. 1000 WCCO Wausau. Wis. 1000 KVOC Casper WY 1000r 1240—241.8 WEBJ Brewton AL 1000r	KCCR Pierre, S.D. 100	WBUD Trenton, N.J. 5500 WSVSF Santa Fe, N.Mex. 1000 WSNR Beacon, N.Y. 1000d WNDR Syracuse, N.Y. 5500 WCWL Asheboro, N.C. 5000 WCUJ Edenton, N.C. 1000d WMGC Cleveland, 0H 5000r WNXT Portsmouth, Ohlo KWSH Wewoka-Seminole, WKSH Wewoka-Seminole, 1000 KMCM McMinnville, 0rg. 1000 WKK Frie, PA 5000d WISO Ponce, P.R. 1000 WMU Greenville, S.C. 5000d	KTRU Potesi MU 3000 KTRU Potesi MU 3000 KVOV Henderson—Las Vogas, W 5000d KVOV Henderson—Las Vogas, W 5000d KZE Farmington, N.W 5000d WADO New York, N.Y. 5000 W 800 Rock Rockster, N.Y. 5000 W 804 Salisbury, N.C. 5000 W 804 Salisbury, N.C. 5000 W 1000d W 1000d W 1000d W 1000d W 1000d W 1000d KLCO Poteau, Okla, 1000d KLCO Poteau, Okla, 1000d KBDF Eugene, OR 5000 W 1000d KBDF Eugene, OR 5000 W 1000d W 1000d KBDF Eugene, OR 5000d W 1000d
WULA Eufula AL WARF Jasper AL KPRR Globe AZ KBWA WIlliams, AZ KVRC Arkadelphia, AR KTLO Mountain Home AR KWAK Stuttgart AR KPOD Crescent City, CA KOAD Lemoore, CA KMBY Monterey, CA KMBY Sacramento CA KOAD Sacramento CA KBON Sacramento CA LOOOT	WROV Roanoke, Va. WROV Roanoke, Va. WTON Staunton, Va. OKXLE Ellensburg, Wash. OKGY Olymba, Wash. OWKOY Bluefield, W.Va. OWDNE Elkins, W.Va. OWDNE Elkins, W.Va. OWDNE Elkins, W.Va. OWDNE THE Manitowoc, Wis. OWOMT Manitowoc, Wis. OWOMT Rhinelander, Wis. OWOMT	KWYR Winner, S.Dak. 5090d WNOO Chatanooga TN 5000d WMCH Church Hill, Tenn. 1000d WDKN Dickson, Tenn. 1080d WDKN Dickson, Tenn. 1080d KSPL Dibol, Tex. 1090d KSPL Dibol, Tex. 1090d KSPL Dibol, Tex. 1090d KSPL Text Text 1000d KSPS Falfurrias, Tex 500d KSPS Falfurrias, Tex 500d KTJE Talan Text 100d KTJE Talan Text 100d KTJE Talan Text 100d WCHV Charlottesville, Va. 500d WJJ Christiansburg, Va. 1090d KWIQ Moses Lake, Wash. 1090d KWIQ Moses Lake, Wash. 1090d WVVW Grafton, W.Va. 500d WVVW Grafton, W.Va. 500d WVVW Grafton, W.Va. 500d WVCE Amery, W.V. 500d WVCE A	WCMN Arecibo, P.R. 5000 WANS Anderson, S.C. 5000 WJAY Mullins, S.C. 5000d WMCP Columbia, Tenn. 1000d WDNT Dayton, Tenn. 1000d KTTX Brenham, TX 1000d KLUE Longvlew, Tex. 1000d KRAN Morton, Tex. 500d KVWG Pearsall, Tex. 500d KVWG Pearsall, Tex. 500d WWTX Appomattox, VA 1000d WYTX Appomattox, VA 1000d WYVE Wytheville, Va. 1000d KUDY Spokane, Wash. 1000d KUDY Spokane, Wash. 50000 KIT Yakima, Wash. 50000 WGLR Laneaster, W1 5000d
KSON San Diego CA KSMA San Maria, Calif. KSUE Susanville, CA KBUE Colo. Springs, Colo. KBUE Oclo. Springs, Colo. KBUE Oclo. Springs, Colo. KBUE Oclo. Springs, Colo. KBUE Monto Vista. Colo. KBUE Monto Vista. Colo. KCRT Timidad, Colo. WBCC Chipley L WLCO Eustis, Fia. WMN FOYS, Fia. WMMB Melbourne, Fia. WFOYS St. Augustine, Fia. WBHB Fitzgerald, Ga. WDUN Gainesville, Ga. WDUN Gainesville, Ga. WDUN Macon GA WWNS Statesboro, Ga. WPAX Thomasville, Ga. WPAX Thomasville, Ga.	NZOB Fort Payne AL 5000 WETU Wetumpka AL 5000 KSWW Wickenburg AZ 5000 KFAY Fayetteville AR 1000 KALO Little Rock AR 1000 KHOT Madera, Callf. 500 KTMS Santa Barbara, Callf. 100 KTMI Twenty-Nine Palms.	WEKZ Monroe, Wis. 1000d WOCO Oconto, Wis. 1000d KPOW, Powell, Wyo. 5000 1270—236.1 WGSV Guntersville AL 1000d WKSI Prichard AL KDJI Holbrook AZ 5000d KADL Pine Bluff AR 5000d KBLC Lakeport CA 500d KGU Palm Desert, Cal. 1000d KCOK Tulare, Calif 5000	WNAM Neenah. Wis. 5000 1290—232.4 WSHF Sheffield, AL 1000d WMLS Sylacauga, AL 1000d KCUB Tucson AZ 1000 KCUB Silosan Springs, AR 5000d KUDA Silosan Springs, AR 5000d KUDA Silosan Springs, AR 5000d KHSL Chiloo, Calif. 5000 KAZA Giroy, Calif. 5000d KMEN San Bernardine, 5000 KKIO Santa Barbara, CA 500d WCCC Hartford, Conn. 500d WTUX Wilmington, Del. 1000d WTUX Wilmington, Del. 5000
WWNS Statesboro, Ga. 1000 WPAX Thomasville, Ga. 250 WTWA Thomasville, Ga. 250 WTWA Thomson, Ga. 1000 KFLI Mountain Home, Idaho 1000 KMCL MeCail, Ida. 500 WCRW Chicago, IL 1000 WEDC Chicago, IL 1000 WSBC Chicago, III. 1000 WSBC Chicago, III. 1000 WSBC Chicago, III. 1000 WSBC Chicago, III. 1000 WSBC Sterling, III. 500 WHBU Anderson, Ind. 1000 KWLC Decorah IA 1000 KWLC Decorah IA 1000 KBIZ Ottumwa, Iowa 1000 KIUL Garden City, Kans. 1000 KIUL Garden City, Kans. 1000 KAKE Wichita, Kans. 1000 WNNN Louisville, Kv.	KMSL Ukiah, Calif. WNER Live Oak, Fla. WQDE Albany GA WYTH Madison, Ga. WIZZ Streator, III. WGL Ft. Wayne, Ind. WGL Ft. Wayne, Ind. WGL Ft. Wayne, Ind. WRAY Princeton, Ind. KCFI Cedar Falls, Iowa KFKU Lawrence, Kans. WREN Topeka, Kans. WWEN Topeka, Kans. WWLCK Scottsville, Ky. WGUY Bangor, Malne WARE Ware, Mass. KBTC Houston, Mo. KIKC Forsyth, MIC. KIKC Forsyth, MT WMTR Morristown, N.J. WMTR Morristown, N.J. WYDA Hamile, N.C.	WINT Tallahassee, Flat. 5000 WKRW Cartersville, Ga. 5000d WHYD Columbus, Ga. 5000d WJUC Commerce, Ga. 1000d KTLC Twin Fails, ID 5000 KTLC Twin Fails, ID 5000 WEIC Charleston, IL 1000 WHBF Rock Island, Ill. 5000 WGMR Elkhart IN 5000r WWCA Gary, Ind. 1000d WORX Madison, Ind. 1000d WSCB Liberal, Kans. 1000d WAIN Columbia, Ky. 1000d WFUL Fulton, Ky. 1000d KYCL Winnfield, La. 1000d KYCL Winnf	WSCM Panama City Beach, Florida 500d WIRK W. Palm Bch., Fla. 5000 WDEC Americus, Ga. 1000d WCHK Canton, Ga. 1000d WTOC Savannah, Ga. 5000 KSNN Pocatello, Idaho 1000d WIRL Peorla, III. 5000 WDGS New Albany IN 500d KWLS Pratt KS 5000 WCBL Benton, Ky. 5000d KJEF Jennings, La. 1000d WHGR Houghton Lake, Mich. 5000 WNIL Niles, Mich. 500d WNIL Niles, Mich. 500d
KIUL Garden City, Kans. 1900 KAKE Wichita, Kans. 1900 WINN Louisville, Ky. 1900 WFM Maysville, Ky. 1900 WFKE Pikeville, Ky. 1900 WSFC Somerset, Ky. 1900 KASO Somerset, Ky. 1900 KASO Minden, La. 1900 KANE New Iberia, La. 1900 WCOU Lewiston, Maine 1900 WCKEM Cambridge, Md. 1900 WCEM Cambridge, Md. 1900 WIEL Hagerstown MD 1900 WHAI Greenfield, Mass. 1900 WOCB W. Yarmouth, Mass. 1900 WATT Cadillac, Mich. 1900 WCBY Cheboygan, Mich. 1900 WJPD Ishpeming, Mich. 1900 WJIM Lansing, Mich. 1900	KBTC Houston, Mo. KIKC Forsyth, MT SOOD WKBR Manchester, N.H. SOOD WIFS Ticonderoga, N.Y. WFAG Farmville, N.C. WKDX Hamlet, N.C. WKDX Hamlet, N.C. WCHO WashIngton Court House, Ohio WLEM Emporlum, Pa. WPEL Montrose, Pa. WTAE Pittsburgh, Pa. WTAE Pittsburgh, Pa. WTAE Charleston, S.C. WKBL Covington, Tenn. (NEU Rossevelt, UT	WSPR Springfield, Mass. 5000 WVOY Charlesvoix, MI 5000 WXYZ Detroit, Mich, 5000 KWEB Rechester, Minn. 5000 WWSM Louisville, Miss. 1000d WLSM Louisville, Miss. 5000d WLSM Louisville, Miss. 5000d KUSN St. Joseph. Mo. 1000d KUSN St. Joseph. Mo. 1000d KUSN St. Joseph. Mo. 5000d KWRL Sparks-Reno NV 5000d KWRL Sparks-Reno NV 5000d KWRL Sparks-Reno NV 5000d WTSN Dover, N.H. 5000d WTSN Dover, N.H. 1000d WINN Alamogordo, N.M. 1000d WHLD Niapara Falls, N.Y 5000d WDLA Walton, NY 5000d	KBMO Benson, Minn. 500d WBLE Batesville, Miss. 1000d KALM Thayer, Mo. 1000d KGVO Missoula, Mont. 5000 WKNE Keene, N.H. 5000 WSNE Socorro, N.M. 1000d WGLI Babylon, N.Y. 5000 WNBF Binghamton, N.Y. 5000 WNBF Binghamton, N.Y. 5000 WBSS Jacksonville, N.C. 1000d WBSS Jacksonville, N.C. 1000d WDMP Bellaire, Ohio 1000d WDMP Bellaire, Ohio 5000 WHO Dayton, Dhio 5000 KUMA Pendleton, Oreg. 5000 KUMA Pendleton, Oreg. 5000 KUMA Pendleton, Oreg. 5000 WFOR Altoona, Pa. 5000 WFOR Forvidence, R.I. 5000 WGIN Lykens, PA

U.S. AM STATION	IS BY FREQUENCY		
Call Location W.P.	Call Location W.P.	Call Location W.P.	Call Location W.P.
WF1G Sumter, S.C. 1000 WATO Oak Ridge, Tenn. 5000 KWGH Big Lake, Tex. 1000d KIVY Crockett, Tex. 5000 KTRN Weslaco, Tex. 5000 WPVA Colonial Huts., Va. 5000 WAGE Leesburg, Va. 1000d WNLB Rocky Mount, VA 5000 WAVDW Logan, W.Va. 5000 WAYDW Logan, W.Va. 5000 WAYDW Logan, W.Va. 5000 WAYDW Sparta, Wis, 5000d WCOW Sparta, Wis, 5000d KOWB Laramie, Wyo, 5000 WRAR Fredericksted, VI 5000d	WFAH Alliance, Ohio 1000d KNPT Newport, Oreg. 5000 WAYC Bedford PA 5000d WGSA Ephrata, Pa. 5000d WNAE Warren, Pa. 5000 WDKD KINGStree, S.C. 5000d WDMD Chattanooga, Tenn. 5000 WDXI Jackson, Tenn. 1000d KZIP Amarilio, Tex. 1000d KZIP Amarilio, Tex. 1000d KAM Dalias TX 5000 KOYL Odessa, Tex. 1000d KBUC San Antonio, Tex. 5000 WEL Fairfax, Va. WGLA WOYL STORM STO	WFBC Greenville, S.C. 5000 WAEW Crossville, Tenn. 1000d WTRO Dyersburg, Tenn. 500d KSWA Graham, Tex. 500d KSWA Graham, Tex. 1000d KINE Kingsville, Tex. 1000d KVKM Monahans, Tex. 1000d WATRO Danville, Va. 1000d WARAA Luray, Va. 1000d WOLD Marlon, Va. 5000 WESR Tasley, Va. 5000d KMB1 Spokane, WA WETZ New Martinsville, 1000d WHBL Sheboygan, Wis. 5000	WNCO Ashland, 0. 1000 WOUB Athens, OH 500r WIZE Springfield, Ohio 1000 WSTV Steubenville, Ohio 1000 KIHN Hugo, Okla, 1000 KTOW Sand Springs, Okla, 500 KLOO Corvaills, Ore, 1000 KLVOW Enterprise, Oreg. 250 KIHR Hood River, Ore, 1000 KBBR N. Bend, Ore, 1000 WSAJ Grove City, Pa. 100 WSAJ Grove City, Pa. 100 WAYL Philadelphia, Pa. 1000 WRAW Reading, Pa. 1000 WTRN Tyrone, Pa. 1000 WBRE Wilkes-Barre, Pa. 1000 WBRE Wilkes-Barre, Pa. 1000
WESA Boaz, AL 1000d WTLS Tailassee, AL 1000d WTLS Tailassee, AL 1000d WTLS Tailassee, AL 1000d KWEZQ Windew Rock AZ 1000r KWCK Searey, AR 1000d KROCK Searey, AR 1000d KWKW Pasadona CA 5000r KVNOR Colorado Springs, Colorado Spr	WENN Birmingham, AL	WKUL Cullman AL	WBRE Wilkes-Barre, Pa. WWNA Williamsport, Pa. WUNA Aquadilla, P.R. 250 WOKE Charleston, S.C. WRHI Rock HIII, S.C. WSCS Sumter, S.C. KIJV Huron, SD KTOQ Rapid City, SD WBRC Cleveland, Tenn. WGRV Greeneville, Tenn. WGRV Greeneville, Tenn. WGRV Greeneville, Tenn. WGRV KnoxVille, Tenn. WGRV KnoxVille, Tenn. WGRV Kolumbia, Tenn. WGDT Winchester, T
WARL Lantaster, NY WARL Ronsseleer, NY WGRC Spring Valley, NY WGRC Spring Valley, NY 0000d WYNG Goldsboro, N.C. WLD Laurinburg, C. WERE Cleveland, NC WERE Cleveland, NC WERE Cleveland, NC WERE Cleveland, NC KAVO Tulsa, OK KAVO Tulsa, OK KAVO Tulsa, OK KAVO Harlend, Ne WWCH Clarion, Pa. WWCH Clarion, Pa. WHOM Hazleton, Pa. 1000d WHZN Hazleton, Pa. 1000d WKSC Kershaw, S.C. 500d WKSC Kershaw, S.C. 500d KOLY Mobridge, S.D. 5000d WMTN Morristown, Tenn. KVET Austin, Tex. KVET Austin, Tex. KVET Austin, Tex. KSTU Logan, Utah WKCY Harrisonburg, Va. KMPS Seattle, WA WCLG Morgantown, W.Va. WKLC St. Albans, W.Va. WKLC St. Albans, W.Va. WLCT Marinette WI	WAGY Forest City, N.C. 1000d WCOR Geneshoro, N.C. 5000 WKRK Murphy, N.C. 5000d WERW Washington, N.C. 5000d WHOK Inot, N.C. 5000d WHOK Loserian, OHIO 1000d WHOK Loserian, OHIO 1000d KWPL Oserian, OHIO 1000d KWPL Oserian, OHIO 1000d KWATR Eulinon, Ore. 1000d KWATR Eulinon, Ore. 1000d WATR Elinon, OR 1000d WATR Patentown Pa. 5000 WKPQ Pittsburgh PA 5000 WKPQ Serration, Pa. 1000 WKPQ Serration, Pa. 5000 WKPQ Serration, Pa. 5000 WKPQ Serration, Pa. 5000 WKIN Kingsort Tenn. 5000d WKIN Kingsort Tenn. 5000d WKIN Kingsort Tenn. 5000d KYMC Conclination Service S	WURS Columbus, da. WBBT Lyons, Ga. WTIF Tifon, Ga. KSKI Hailey, Idaho KAKIN Nampa, Idaho KAKIN Nampa, Idaho KAKIN Nampa, Idaho KACH Preston, III. WBD WBBT WHP Herrin III. WHP Herrin III. WHI Jolloff III. WHI Jolloff III. WHO	WBCS Milwaukee WI 1000 KSGT Jackson, Wyo. KYCN Wheatland, Wyo. 250 KWOR Worland, Wyo. 1000 1350—222.1 WELB Elba AL 5000d WGAD Gadsden AL 5000d KLYD Bakersheld, Callf. 1000d KCKC San Bernardino, CA KSRO Santa Rosa, Callf. 5000 KKAM Pueblo, Colo. 5000 WNLK Norwalk, Conn. 1000 WNLK Norwalk, Conn. 1000 WOWP Cocoa FL 1000 WOWP Cocoa FL 1000 WCWR Cocoa FL 1000 WCWR Cocoa FL 1000 WCF To Jack City, FL 1000d WSGS Blackshear, Ga. 1000d WSGS Blackshear, Ga. 1000d WSGS Blackshear, Ga. 5000d KTOH Linue, Hawail 5000 KNTOH Linue, Hawail 5000 KRUT Lewistown, Ida. 1000d WXCL Peorla, III. 1000 WXCL Peorla, III. 5000d WXCL Peorla, III. 5000d KYRS Rock Springs, Wyo. KRNT Des Molnes, Iowa 50000 KNRT Des Molnes, Iowa 50000
### Table ### Ta	WROS Scottsboro AL KHYT Tuson AZ KHYT Tuson AZ KOD KVEE Conway AR KLOM Lompoc, Cal. KLOM Lompoc, Cal. KLOM Lompoc, Cal. KLOS Angeles, Calif. KLOS Angeles, Calif. KLOM Redding, Cal. WFTP FL. WWAB Lakeland, Fla. WCVC Tallahasee, FL WGWAB Lakeland, Fla. WGWAB WGWAB Lakeland, Fla. WGWAB	WMTE Manistae, Mich. 1000 WMTE Manistae, Mich. 1000 WMTEN Petoskey, Mich. 1000 WMTEN Petoskey, Mich. 1000 WEXL Royal Oak, Mich. 1000 KVBR Brainerd, Minn. 1000 KVBR Brainerd, Minn. 1000 KVBR Brainerd, Minn. 1000 KVBR Willmar, Minn. 1000 WEVE Eveleth, Minn. 1000 WEVE Eveleth, Minn. 1000 WEVE Eveleth, Minn. 1000 WEVE Willmar, Minn. 1000 WEVE Willmar, Minn. 1000 WTML Laurel, Miss. 1000 WAML Laurel, Miss. 1000 WAML Laurel, Miss. 1000 WANL Laurel, Miss. 1000 WANL Laurel, Miss. 1000 WANL Laurel, Miss. 1000 WANL Secusion 1000 KYEO Mexico, Miss. 1000 KYEO Miss. 1000 KYEO Miss. 1000 KYEO Miss. 1000 WYEO Miss.	WEUN Lossyster, No. 3000 WJEB Gladwin, MI 1000 WJEB GLADWIN MISS. 3000 WJES WJES WJES GLADWIN MISS. 3000 WJES WJES GLADWIN MISS. 3000 WJES WJES GLADWIN MISS. 3000 WJES WJES WJES GLADWIN MISS. 3000 WJES GLADWIN MISS. 3000 WJES GLADWIN MISS. 3000 WJES FORGERSWIN, NE. 3000 WJES FORGERSWIN, NE. 3000 WJES FORGERSWIN TON. 3000 WJES FORGERSWIN TON. 3000 WJES FORGERSWIN TON. 3000 WJES FORGERSWIN, NE. 3000 WJES FORGERSWIN NE.
WOTK Parsippany, NJ WVIP Mt. Kisch, N.Y. 5000d WVIP Mt. Kisch, N.Y. 1000 WVILB Uitica, N.Y. 1000 WVISE Asheville, N.C. 5000 WVIN Charlotte NC 1000d WVIK Durham, N.C. 5000 KNOX Grand Forks, N.Dak. 5000	WFIN Findlay, Ohlo 1000d WK0V Welston, Ohlo 500d WELW Willoughby, O. 500d KUPL Portland, OR 5000 WRIE Erle, Pa. 5000 WENA Penuelas, PR 500d WLAT Conway, S.C. 5000	WJRI Lenoir, N.C. 1000 WTSB Lumberton, N.C. 1000 WCBQ Dxford NC 1000r WOOW Greenville, N.C. 1000 WGNI Wilmington, N.C. 1000 WAIR Winston-Salem, N.C. 1000 KXPO Grafton, ND 1000r	1360—220.4 WWWB Jasper AL 1000d WLIQ Mobile AL 5000d WMFC Monroeville AL 1000d WELR Roanoke AL 1000d

	C-U transfer W.B.		
'Call Location W.P. KRUX Glendale AZ 5000r	Call Location W.P. WJWS South Hill, Va. 5000d	Call Location W.P. WEAM Arlington, Va. 5000	Call Location W.P. WWSF 'Loretto, PA 1000
KLYR Clarksville AR 500d KFFA Helena AR 1000d KFIV Modesto, Cal. 5000	WEIF Moundsville, WV 5000d	WWOD Lynchburg, Va. 5000 WKLP Keyser, W.Va. 1000g	WKBI St. Marys, Pa. 1000 WICK Scranton Pa. 1000
KZIQ Ridgecrest, CA 1000d KGB San Diego, CA 5000r WDRC Hartford, Conn. 5000	KVWO Cheyenne, Wyo. 1000d	KBLW Logan, VT 5000 KBBO Yakima, WA	WRAK Williamsport, Pa. 1000 , WVOZ Carolina, P.R, 500 WCOS Columbia, S.C. 1000
WCGL Jacksonville, FL 5000 WKAT Miami Beach, Fla. 5000	1380-217.3 WRAB Arab, AL 1000d WGYV Greenville AL 1000d	1400-214.2 WMSL Decatur AL 1000r	WGTN Georgetown, S.C. 1000 WKDY Spartanburg, SC 1000 KBJM Lemmon, S.D. 1000
WAZA Bainbridge, Ga. 1000d WLAW Lawrenceville, Ga. 1000d	WVSA Vernon, AL 5000d KZUL Parker AZ 2500d	WXAL Demopolis, AL 1000r WJLD Fairfield AL 1000d WFPA Fort Payne, AL 1000r	WJZM Clarksville, Tenn. 1900 WHUB Cookeville, Tenn. 1900 WLSB Copperhill, Tenn. 1900
WLBK DeKalb, III. 1000d	KATO Samord, Ariz. 5000 KDXE N. Little Rock, AR 1000d	WJHO Opelika AL 1000r KSEW Sitka, Alaska 1000 KCLF Clifton, Ariz. 250	WGAP Marvville, Tenn. 1000
WYER Mount Carmel, IL 500d WGFA Watseka, III. 1000d KHAK Cedar Rapids, Jowa 1000d	KGMS Sacramento, Calif. 1000 KTOM Salinas, Cal. 5000 KFLI Walsenburg, Colo. 1000d	KTUC Tueson AZ 250 KVOY Yuma AZ 1000r	WHAL Shelbyville, Tenn. 1000 WAAN Waynesboro TN 1000 KRUN Ballinger, Tex. 1000 KBYG Big Spring, Tex. 1000
KSCJ Sioux City, Iowa 5000 KBTO El Dorado, Kans. 5000	WOWW Naugatuck, Conn. 5900 WAMS Wilmington DE 5000 WLIZ Lake Worth FL 1000d	KELD EI Dorado AR 1000r KCLA Pine Bluff AR 1000r KWYN Wynne, AR 1000r	KUNO Corpus Christi, Tex. 1000 KILE Galveston TX 1000 KGVL Greenville, Tex. 1000
WFLW Monticello, Ky. 1000d KDXI Mansfield, La. 1000d KNIR New Iberia, La. 1000d	WDAT Ormond Beach FL 5000r WLCY St. Petersburg, Fla. 5000 WAOK Atlanta, Ga. 5000	KRE Berkeley, CA 1000r KRCQ Indio, CA 1000r KBIK Lompoe, CA 1000	KEBE Jacksonville, Tex. 1000 KIUN Pecos, Tex. 1000 KEVE Parryton Tex 1000
KTLD Tallulah, La, 500d WEBB Baltimore, MD 1000r WNSR Lynn, MA 1000d	WSIZ Ocilla, Ga. 5000d	KQMS Redding CA 1000r KSLY San Luis Obispo, CA 1000r KAAP Santa Paula, CA 1000r	KVOP Plainview, Tex. 1000 KDWT Stamford, Tex. 1000 KTEM Temple, Tex. 1000 KTEM Temple, Tex. 1000
WKYO Caro, MI 1000 WKMI Kalamazoo, Mich. 5000 KRWC Buffalo MN 500d	WBEL So. Beloit, III. 5000 WMEE Ft. Wayne IN 5000 KCIM Carroll, Iowa 1000	KTRT Truckee, CA 1000r KUKI Ukiah, CA 1000r	KTFS Texarkana, Tex. 1000 KVOU Uvalde, TX 1000 KFTN Provo, UT
KKBJ Bemidji MN 5000 KMRN Cameron MO 500d	KCIM Carroll, Iowa 1000 KCIM Carroll, Iowa 500d KCNW Fairway, KS 5000 WMTA Central City, Ky. 500d WWKY Winchester, Ky. 1000d	KONG Visalia, CA KRLN Canon City, Colo. 250 KDTA Delta, Colo. 1000 KFTM Ft. Morgan, Colo. 250	WDOT Burlington, Vt. 1000 WELK Charlottesville, Va. 1000 WHHV Hillsville, Va. 1000
KLRS Mountain Grove, Mo. 1000d KICX McCook, Nebr. 1000d WNNJ Newton, N.J. 1000d	WKTJ Farmington, Me. 1000d	KIDN L. Pueblo, CO	
WWBZ Vineland, N.J. 1000 KRRR Ruidoso, NM 5000d WKOP Binghamton, N.Y. 5000	KLIZ Brainerd, Minn. 5000		WINC Winchester, Va. 1000 KEDO Longview, Wash. 1000 KRSC Othella, Wash. 1000
WMNS Olean, N.Y. 1000d WCHL Chapel Hill NC 5000d KEYZ Williston, N.D. 5000	KIIVR Holdredge Neb 500d	WILI Willimantic, Conn. 1000 WFTL Ft. Lauderdale, Fla. 1000 WPRY Perry, FL 1000r WIRA Ft. Pierce, Fla. 1000	WHCE Portsmouth, VA 1000r WHLF So. Boston, Va. 1000 WINC Winchester, Va. 1000 KEDO Longview, Wash. 1000 KRSC Othella, Wash. 1000 KRSC Othella, Wash. 1000 WBBN Clarksburg, WV 1000r WRON Ronceverte, WV 1000r WYBC Spancer WV
WSAI Cincinnati, Ohio 5000 WWOW Conneaut, Ohio 5000 KOHU Hermiston, OR 1000	WBBX Portsmouth, N.H. 1000 WVIN Bath, NY 500d WBNX New York, NY, 5000	WNUE Ft. Walton Beach, Fla. 1000 WFRD Jacksonville Ft. 1000	WKWK Wheeling WV 1000r WBTH Williamson, WV 1000r
	WRAQ Asheville NC 5000 WBIC New Bern NC 5000d WTOB Winston-Salem, N.C. 5000	WPAS Zephyrhills, Fia. 1000 WULF Alma, Ga. 1000 WSGC Fiberton, GA 1000r	WATW Ashland, W1 1000r WJJK Eau Claire W1 1000 WDUZ Green Bay, W1 1000r WRJN Racine, W1 1000r
WPPA Pottsville, Pa. 5000	WLRO Lorain, OH 500d WPKO Waverly, OH 1000d KSWO Lawton Okta 1000	WCOU Nowres Co 1000	WRDR Readchurn WI 1000r
WLCM Lancaster, S.C. 1000d WBLC Lenoir City, Tenn. 1000 WNAH Nashville, Tenn. 1000d	KMUS Muskogee, Okla. 1000 KBCH Lincoln City OR 1000d KSRV Ontario, OR 5000r	WSGA Savannah, Ga. 1000 KART Jerome, Ida. 1000 KRPL Moscow, Ida. 1000 KIGO St. Anthony ID	WRIG Wausau, WI 1000r KATI Casper, WY 1000r KODI Cody, WY 1000r
KQIZ Amarillo, TX 500d KACT Andrews, Tex, 1000d KBUK Baytown, TX 1000	WACB Kittanning, Pa. 1000d WMLP Milton, Pa. 1000d WAYZ Wayneshore, Pa. 1000d	I(SPT Sandpoint, Idaho 1000 WDWS Champaign, III. 1000 WGIL Galesburg, III. 1000	1410-212.6 WUNI Mobile AL 5000
KXOL Ft. Worth, Tex. 5000	I WNRI Woodsocket R I 1000d	WROZ Evansville, Ind. 1000 WBAT Marion, Ind. 1000 KCOC Contemplies 1 800	WPXC Prattville Al. 5000r WZZA Tuscumbla, AL 500d KTGS Fort Smith AR 1000d
WHBG Harrisonburg, Va. 5000d KRKO Everett, WA 5000u KMO Tanoma Wash 5000	KOTA Rapid City, S.Dak. 500d	KVFD Fort Dodge, lowa 1000 KVOE Emporia, Kans. 1000 KAYS Hays, Kans. 1000 WCYN Cynthiana, Ky. 500	KERN Bakersfield, Calif. 1000 KRML Carmel, Calif. 500d KKOK Lompoc, Calif. 500d
WMOV Revenswood Vs. 1000d	WIZO Franklin TN 5000d	WETC Landan Ky. 1900	KMYC Marysville, Callf. 5000 KCAL Redlands CA 5000r KCAL Ft Colline Cole 1000
WGEE Green Bay, WI 5000 WISV Viroqua, Wis. 1000 WMNE Menomonie, Wis. 1000d KRKK Rock Springs, WY 1000	WTNN Millington, TN 500d KJET Beaumont, TX 1000d KJBWD Brownwood, TX 1000d KTSM El Paso, TX 5000r KMUL Muleshoe, TX 1000d	WFPR Hammond, La. 1000 KAOK Lake Charles, La. 1000	WPOP Hartford, Conn. 5000 WDOV Dover, Del. 5000 WMVP Fort Myore Fla. 5000
1370—218.8	KBOP Pleasanton, TX 1000d WSYB Rutland, VT 5000r WERV Lebanon, VA 500d	WRDO Augusta, Maine 1000 WRDO Augusta, Maine 1000 WIDE Biddeford, Maine 1000 WMCS Machias, Me. 1000 WWIN Baltimore, Md. 1000	WZST Leesburg, Fia. 1000d WONS Tallahassee, Fia. 5000d WGRI Griffin, Ga. 1000d WDAX McRae GA 1000 WLAQ Rome, GA 1000
WBYE Calera AL (000d KAWW Heber Springs AR 1000d KTPA Prescott AK 1000d	WTVR Richmond, Va. 5000 KRKO Everett, WA 5000 KEZE Spekane, WA 5000d		WDAX McRae GA 1000 WLAQ Rome, GA 1000 WRMN Elgin, III. 1000d
KWRM Corona, CA 5000d	WMTD Hinton, W.Va. 1000d	WHMP Northampton, Mass. 1000	WRMN Eigin, 111. 1000d WTIM Taylorville IL 1000 WAZY Lafayette, Ind. 1000d KGRN Grinnell, Iowa 500d KLEM LeMars, Iowa 1000d
KEEN San Jose, Calif. 5000 KGEN Tulare, Calif. 1000d WKMK Blountstown, Fla. 500d WWKE Ocala, Fla. 5000d	1390—215.7 WHMA Anniston, AL 5000r	WJBL Detroit, Mich. 1000 WHDF Houghton, MI 1000 WQXO Munising MI 1000 WSAM Saginaw, Mich. 1000	KELU Leavenworth, Kans. 50000 KEYN Wichita KS 5000
WCOA Pensacola, Fla. 5000 WAXE Vero Beach, Fla. 1000d	KDQN DeQueen AR 500d KAMO Rogers, AR 1000d	WSJM St. Joseph, Mich. 1000	WLBJ Bowling Green, Ky. 5000 WHLN Harlan, Ky. 5000d
WFDR Manchester, Ga. 1000d WLOV Washington, Ga. 1000d WPRC Lincoln, III. 1000d	KCEY Turiock, Calif. 5000 KFML Denver, Colo. 5000d WAPR Avon Park, Fla. 1000d	KMHL Marshall, Minn. 1000 KEYL Long Prairie, MN 1000 KEFY Minneanolls.	
WLOP Jesup, Ga. 5000 WLOV Washington, Ga. 1000d WLOV Washington, Ga. 1000d WPRC Lincoln, III. 1000d WTTS Bloomington, Ind. 5000 WLTH Gary, Ind. 1000d KDTH Dubuque, Iowa KGNO Dodge City, Kans. 5000 KIKS Iola KS WABD Fort Campbell KY 1000d WGOH Grayson, Ky. 5000d	KGER Long Beach, Callf. 5000 KCEY Turlock, Callf. 5000 KFML Denver, Colo. 5000d WAPR Avon Park, Fla. 1000d WAKA Gainesville FL 5000d WISK Americus, Ga. 5000d WYNL Reidsville GA 5000d WYNN Chicago, IL 5000 WFIW Fairfield, IL 1000d WJCD Seymour, Ind. 1000d KCLN Clinton, Iowa KCBN Clinton, Iowa KCBC Des Moines, Iowa KCBC Des Moines, Iowa KCBC Concordia, Kans. 5000 WANY Albany, Ky. 1000d	WTOM Traverse City, Mich. 1000 KEYL Long Prairie, Minn. 1000 KEYL Long Prairie, Minn. 1000 KEYL Long Prairie, Min 1000 KEYL Long Prairie, Min 1000 KEYL Hong Prairie, Minn 1000 WHLB Virginia, Minn 1000 WHLB Virginia, Minn 1000 WHB Dooneville, Miss. 1000 WHBC Columbus, Miss. 1000 WMAG Grenada, Miss. 1000 WNAG Grenada, Miss. 1000 WYAG Jackson, Miss. 1000 KJCF Festus, Mo. 1000 KJCF Festus, Mo. 1000 KTIS Sprindfield MO. 1000 KTIS Sprindfield MO. 1000	WHAG HAITWAY, Md. 1000d WOKW Brockton, Mass. 1000d KLFD Litchfield, Minn. 500d KLFD Litchfield, Minn. 1000 KRWB Roseau, Minn. 1000 WDSK Cleveland, Miss. 1000d WBKN Newton, MIss. 500d KBCC Cuba, MO 1000d KAHL North Platte NE 5000 WHTG Estantown N 1 5000
KGNO Dodge City, Kans. 5000 KIKS Iola KS WABD Fort Campbell KY 1000d	WYON Chicago, IL 5000 WFIW Fairfield, IL 1000d WJCD Seymour, Ind. 1000d	WMBC Columbus, Miss. 1000 WNAG Grenada, Miss. 1000 WFOR Hattlesburg, Miss. 1000	WBKN Newton, Miss. 500d KBCC Cuba, MO 1000d KAHL North Platte NE 5000
	KCLN Clinton, lowa 1000d KCBC Des Moines, lowa 1000 KNCK Concordia, Kans. 500d	WJQS Jackson, Miss. 1000 KFRU Columbia, Mo. 1000 KJCF Festus, Mo. 1000	WHTG Eatontown, N.J. 500d WDOE Dunkirk, N.Y. 1000 WELM Elmira, N.Y. 1000 WOTT Watertown NY 5000r
WDEA Elisworth, Me. 5000 WMH1 Braddocks Hts., Md. 500d WZYQ Frederick, MD	WANY Albany, Ky. 1000d WKIC Hazard, Ky. 5000d KFRA Franklin, La. 500d	KSIM Sikeston, Mo. 1000 KTTS Springfield MO 1000 KDRG Deer Lodge MT 1000 KXGN Glendive MT 1000	
WKIK Leonardtown, MD 1000 WWAM Cadillae M1 5000 WGHN Grand Haven Mich 500	WEGP Presque Isle, ME 5000 KJPW Waynesboro, MO 1000d WCAT Orange, Mass. 1000d		WVCB Shallotte, N.C. 500d KHOL Beylah, ND 1000d WING Davton, Ohin 5000
KSUM Fairmont, MN 1000d KDAN Minneapolis-	WPLM Plymouth, Mass. 5000 WCER Charlotte, Mich. 5000d KAOH Duluth MN 500d	KARR Great Falls MI 1000 KRBR Ainsworth, Neb. 1000 KCOW Aiflanse, Nebr. 1000 KLIN Lincoln, Neb. 1000 KMBI Henderson NV 1000r KWNA Winnemuca NV 1000 WBRL Berlin NH 1000r WTSI Hanover N H 1000	WING Dayton, Ohio 5000 KPAM Portland OR 5000d WLSH Lansford, Pa. 5000d KOV Pittsburgh Pa 5000
WMGO Canton, Miss. 1000d KWRT Boonville, Mo. 1000d KCRV Caruthersville, Mo. 1000d	KRFO Owatonna, Minn. 500d WROA Gulfport-Biloxl, MS 5000 WTNK Meridian, MS 5000d	KMBI Henderson NV 1000r KWNA Winnemucca NV 1000 WBRL Berlin NH 1000r	KQV Pittsburgh, Pa. 5000 WPCC Clinton, S.C. 1000d WYMB Manning, S.C. 1000d WTNR Kingston TN 500d
KXLF Butte, Mont. 5000 KAWL York, Nebr. 500d WFFA Manchester, N.H. 5000	KJPW Waynesboro, Mo. 1000d KENN Farmington, N.Mex. 5000 KHOB Hobbs, N.Mex. 5000d	WLTN Littleton, N.H. 1000	WCMT Martin, Tenn. 1000d KBUD Athens, Tex. 1000d KBAN Bowle, Tex. 500d
WELV Ellenville, N.Y. 500d WALK Patchogue, N.Y. 500d WSAY Rochester, N.Y. 5000	WEOK Poughkeepsie, N.Y. 5000 WRIV Riverhead, N.Y. 1000d WFBL Syracuse, N.Y. 5000	KTRC Santa Fe, N.M. 1000 KCHS Truth or Consequences, New Mexico 250 KTNM Tucumcari, N.M. 1000	KPAM Portland OR 5000d
WLTC Gastonia, N.C. 5000d WTAB Tabor City, N.C. 5000d KFJM Grand Forks, N.D. 1000d	WEED Rocky Mount NC 5000r WADA Shelby, N.C. 1000 WJRM Troy, N.C. 1000d	WOMP Pleasantville, N.J. 1000 WABY Albany, N.Y. 1000 WYSL Buffalo, N.Y. 1000 WSLB Ogdensburg, N.Y. 1000 WBMA Beaufort, N.C. 1000	KRIG Odessa, Tex. 1000 KBAL San Saba, Tex. 500d KNAL Victoria, Tex. 500
WIRY IOMBKINSVIIIe, Ky, 1000d KAPB Marksviile, La, 1000d WDEA Elisworth, Me. 5000 WMHI Braddocks Hts., Md. 500d WZYQ Frederick, MD WKIK Leonardtown, MD 1000 WKIK Leonardtown, MD 1000 WGHN Grand Haven, Mich. 5000 KSUM Fairmont, MN 1000d KDAN Minneapolis- St. Paul MN 5000d KWRT Boonville, Mo. 1000d KWRT Boonville, Mo. 1000d KCRY Caruthersville, Mo. 1000d KCRY Caruthersville, Mo. 1000d KALF Butte, Mont. 5000 KALF Butte, Mont. 5000 WKY EA Manchester, N.H. 5000 WELA Elienville, N.Y. 500d WALY Elsenville, N.Y. 500d WALY Rochester, N.Y. 5000 WSAY Rochester, N.Y. 5000 KFIR Storia Dreg. 1000d KSTR Storia Dreg. 1000d KSTR Sweet Home, Ore, 1000d WWCB Corry, PA	NOEK Concordia, Kans. 5000 NOEK Concordia, Kans. 5000 WANY Albany, Ky. 10000 WER Franklin, La. 5000 KERA Franklin, La. 5000 WERT Presque 1816, ME 5000 WCAT Orange, Mass. 10000 WCAT Orange, Mass. 5000 WCER Charlotte, Mich. 50000 KAOH Duluth MN 5000 KROO Owatonna, Minn. 5000 WROA Gulfport-Biloxi, MS 5000 WTOK Meridian, MS 50000 KINW Waynesboro, Mo, 10000 KENN Farmington, N.Mex. 50000 KENN Farmington, N.Mex. 50000 KENN Farmington, N.Mex. 50000 KENN Farmington, N.Mex. 50000 WEGE Poughkeepsie, N.Y. 10000 WEGE Rocky Mount NC 5000r WADA Shelby, N.C. 10000 WADO Bellefontaine, Ohle 5000 WMO Bellefontaine, Ohle 5000 WEMI Vournestwa, Ohle 5000	WSLB Ogdensburg, N.Y. 1000 WBMA Beaufort, N.C. 1000 WGBG Greensboro, N.C. 1000	KNAL Victoria, Tex. 500 WGGM Chester VA 5000d WRIS Roanoke, Va. 5000d WSCW South Charleston, WV
KFIR Sweet Home, Ore. 1000d WWCB Corry, PA 1000d WPAZ Pottstown, Pa. 1000d		WBMA Beautort, N.C. 1000 WGBG Greensboro, N.C. 1000 WSHB Raeford, N.C. 1000 WSIC Statesville, N.C. 1000 WLSE Wallace, N.C. 1000 WLSE Wallace, N.C. 1000 WHCC Waynesville, N.C. 1000 WSMY Weldon, N.C. 1000 KEYJ Jamestown, N.Dak. 1000 WMAN Mansfald, Ohin 1000	WSCW South Charleston, WV WIZM La Crosse, WI 5000 KWYO Sheridan WY 5000
KFIR Sweet Home, Ore, 1000d WWCB Corry, PA 1000d WPAZ Pottstown, Pa, 1000d WKMC Roaring Spring PA 5000d WIVV Vieques, P.R. 5000 WKFD WIckford, R.I. 500d WDEF Chattancoga, Tenn. 5000 KSUM Fairmont, Tenn. 1000 WDXE Lawrenceburg, Tenn. 1000d WMCS Rogersville, Tenn. 1000d KOKE Austin, Tex. 1000d KFRO Longview, Tex. 1000d KFRO Post. Tex. 1000d KSOM Spring Tex. 1000d KFRO Post. Tex. 1000d	KSLM Salem, Oreg. 5000 WLAN Lancaster, Pa. 5000	WHCC Waynesville, N.C. 1000 WSMY Welden, N.C. 1000 KEYJ Jamestewn, N.Dak. 1000	1420-211.1 WACT Tuscaloosa AL 5000d
WDEF Chattanooga, Tenn. 5000 KSUM Fairmont. Tenn. 1000 WDXE Lawrenceburg, Tenn. 1000d	WISA Isabella, P.R. 1000 WHPB Belton, S.C. 1000d WCSC Charleston, S.C. 5000	WMAN Mansfield, Ohio 1000 WPAY Portsmouth, Ohio 1000 KWON Bartiesville, Okia. 1000	KTAN Sierra Vista AZ 1000r
WHGS Rogersville, Tenn. 1000d KOKE Austin, Tex. 1000d KFRO Longview, Tex. 1000	KJAM Madison, S.D. 500d WYXI Athens, Tenn 500d WTJS Jackson, Tenn. 5000	KTMC McAlester, Okla. 1000 KNOR Norman, Okla. 1000 KNND Cottage Grove, Oreg. 1000	KSTN Stockton, Calif. 5000 WLIS Old Saybrook CT 1000d WBRD Bradenton, FL 1000
KPOS Post. Tex. 1000d KSOP Sait Lake City, Utah 1000d WBTN Bennington, Vt. 1000d WHEE Martinsville. Va. 5000d	KULP El Campo, Tex. 500d KBEC Waxahachie, Tex. 500d	KJDY John Day, Ore. 1000 WEST Easton, Pa. 1000 WJET Erie, Pa. 1000	KXOW Hot Springs AR 5000d KPOC Pocahonta AR 1000d KSTN Stockton, Calif. 5000 WLIS Old Saybrook CT 1000d WBRD Bradenton, FL 1000 WBRD Bradenton, FL 1000d WAOC St. Augustine, Fla. 1000d WAVO Avondale Estates, Ga. 1000d WRBL Columbus, Ga. 5000
WHEE Martinsville, Va. 5000d	KBLW Logan, UT 50001s	WFEC Harrisburg, Pa. 1000 I	WRBL Columbus, Ga. 5000

Call Location	W.P.	Call	Location 1	W.P.	Call	Location	W.P.	Call	Location	W.P.
WPEH Louisville, Ga. WLET Toccoa, Ga. KCCN Honolulu, Hawali WINI Murphysboro, IL WIMS Michigan City, Ind. WOC Davenport, Iowa KJCK Junction City, Kans. KULY Ulysses, Kan. WCTR Ashland, Ky. WHBN Harrodsburg, Ky. WYJS Owensboro, Ky. KYEL Lafayette, La. WBSM New Bedford, Mass. WBSM New Bedford, Mass. WBSM New Bedford, Miss. WGE Pittsfield, Mass. WAMM Flint, Mich. KTOE Mankato, Minn. KYPR Kalamazoo, Mich, KTOE Mankato, Minn. KYDE Oomba, Nebr. WABK Wolfeboro NHss. WGBC Vicksburg, Miss. KBTN Neosho, Mo. KOOO Omaha, Nebr. WASR Wolfeboro Nhex. WALY Herkimer, N.Y. WLNA Peekskill, N.Y. WLNA Peekskill, N.Y. WLNA Peekskill, N.Y. WLNA Peekskill, N.Y. WHYN Mayodan, N.C. WOT WIlson, N.C. WGAS S. Gastonia, N.C. WOT WIlson, N.C. WHK Cieveland, Unite KTJS Hobart, Okla. KYNG Coos Bay, Ores. WCOD Coatesville, Pa. WCED DuBois, Pa. WEUE Cherew, S.C. KABR Abordeen, S.D. WEMB Erwin, Tenn.	1000d 5000d 5000 5000 5000 5000 1000d 1000d 5000d 1000d 500d 1000d 50d	WRAJA WRAS A WPRS I WGEN WGEN WGEN WGEN WGEN WGEN WGEN WGEN	Anna, i.L. Normal IL. Paris, I.L. Quiney, III. Rockford, III. Portland, IN Cherokee, Iowa Topeka, KS. Glasgow, Ky. aris KY Villiamshurg, KY Monroe, LA Wostbrook-Portland, ME Worcester ME Worcester ME Worcester MI Dowagiac, MI Inkster, MI Jouden Valley, MN Luedale MS Pontotoc, MS Millville, N.J. Babylon NY Lizapara Falls, NY Oswego, N.Y. Elizahethown, N.C. Lexington, N.C. Grand Forks ND Warren, Ohlo Marren, Ohlo Medford, Oreg, The Dalles, OR Carbondale, Pa. Lansdale, Pa. Carbondy H. S. Cowan, Tenn. McKenzle, Tenn. McKenzle, Tenn.	500d 1000 5000 5000 5000 5000 5000 1000d 1000d 1000d 5000 1000d 5000 1000d 100	WROMAN CHEE WROTH WKO MAN WKO WKO MAN WKO MAN WKO MAN	Natchez, MS West Point, MS Fredericktown, Mo. Joplin, Mo. Kirksville, Mo. West Plains, Mo. Bozeman, Mont. Great Falls MT Missoula, MT Red Lodge, Mont. Wolf Point, Mont. Beatrice, Neb. Reno, Nev. Concord, N.H. Atlantic City, N.J. New Brunswick, N.J. Albuquerque, N.M. Clayton, N.Mex. Las Cruces, N.M. Portales, N.M. Portales, N.M. Portales, N.M. Corning, N.Y. Glens Falls NY Olean, N.T. Glens Falls, N.Y. Rome, N.Y. Gens Falls, C. Gattonic, C. Gattonic, C. Hundersinville, N.C. Rugby, N.D. Dover-New Philadel Ohio Sandusky, Ohio Altus, Okla. Shawnee, Okla.	1000r 1000r 1000 1000 1000 1000 1000 10	WYWKS WAKSSWAKS WAKKSWAKK WAKKSWAKK WAKKSWAKK WAKKSWAKK WAKKSWAKK WAKK	New Rochelle, N.Y. Rochester NY Fuquay-Varina, N.C. Fuquay Springs, NC Kannapolis, N.C. Marshall, N.C. Dickirson ND Columbus, Ohio Painesville, OH Dallas, Oreg. El Reno OK Ambridge, Pa. Juncos, P.R. San Sebastian, P.R. Allendale, S.C. Union, S.C. Lackson, TN Lafayette, Tenn. Freeport, Tex. Lubhock, Tex. Waco, Tex. Manassas, VA Radford, Va. Kirkland, WA Yakima, Wash. Buckhannon, W.Ya. Raeline, WI	500d 5000 1000d 5000 5000 1000r 5000d 5000 5000 5000 1000r 5000 1000d 1000d 1000d 1000d 1000d 5000d
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Call Location W.P.	Call Location W.P.	·Call Location W.P.	Call Location W.P.
WTLO Somerset, Ky. 1000d KCKW Jena, La. 500d KANV Jenesville, La. 500d KJOE Shreveport, La. 1000d WSAR Fall River, Mass. 5000 WMAX Grand Rapids, Mich, 5000d WIOS Tawas City E. Tawas.	WWIL Wilmington, NC WEMJ Laconia, N.H. 1000 WUSS Atlantic City, NJ 1090r KRSN Los Alamos, N.Mex. 1000 KRTN Raton, N.Mex. 1000 WCSS Amsterdam, N.Y. 1000 WBTA Batavia, N.Y. 500	1510—199.1 KACJ Greenwood, AR KOKB Mesa, AZ 10000d KNSE Ontario CA 10000 KIRV Fresno, Cal, 500d KTIM San Rafael, Calif. 1000d	KPCR Bowling Green, Mo. 1000d KMAM Butler, Mo. 5000d KECK Lincoln, Nebr. 5000d WJDM Elizabeth, N.J. 5000d WRBX Chapel Hill NC 10000d WOBR Wanchese, N.C. 250d WCKY Cincinnati. Ohlo 50000
WSDS Ypsilantl, Mich. 1000d KAUS Austin, Minn. 1000 KEHG Fosston, Minn. 5000d WECP Carthage, MS 250d KPIA Ironton, MO 5000d	WKNY Kingston, N.Y. 1000 WICY Malone, N.Y. 1000 WDLC Port Jervis, N.Y. 1000 WDLF Syracuse, N.Y. 1000 WDUR Durham, NC 1000 WLOE Eden. N. C. 1000	KDIKO Littleton, Colo. 1000 WNLC New London, Conn. 10000 WKAO Boynton Beach FL 1000 WWBC Cocoa, Fla. 250d WMIB Marco Island FL 1000 WINU Highland IL 10000	KWOK Wagoner OK 250d WBCW Jeanette PA WHYP North East, Pa. 1000d WVFC McConnellsburg PA WMBT Shenandoah PA 2500d WUPB Iltuado. P.R. 1000d
KDRO Sedalia, Mo. 1000 KGCX Sidney, Mont. 5000 KLMS Lincoln, Nebr. 1000 KWEW Hobbs, N.Mex. 5000 WLEA Hornell, N.Y. 1000d WJIT New York, NY WADR Remsen, N.Y. 5000d WWKO Fair Bluff, N.C. 1000d	WFLB Fayetteville, N.C. 1000 WRNB New Bern, N.C. 1000 WRMT Rocky Mount. N. C. 1000 WSTP Salisbury, N.C. 1000 WSTW Valdes, N.C. 1000 WSW W Valdes, N.C. 1000 WHSL Wilmington, N. C. 1000 KNDC Hettinger, N.D. 1000	WJRC Joliet, III. 500d WKAI Macomb, III. 1000d WAYT Wabash, Ind. 250d KIFG Iowa Falis, Iowa KANS Larned, Kan. 1000d KANS Larned, Kan. 1000d WAYT Port Sulphur LA 1000d WMEX Boston, Mass. 50000 WJCO Jackson, Mich. 5000d WLKM Three Rivers, Mich. 500	WASC Spartanburg S.C. 1000d W1P1 Huntington, TN 1000d KGTN Georgetown Tex. 1000d KAWS Hemphill TX KGBT Harlingen, Tex. 50000 KNBO New Boston, TX 1000d KCLR Ralls, Tex. 5000d
WWKO Fair Bluff, N.C. 1000d WAME Charlotte, N.C. 5000 WYRN Louisburg, N.C. 5000d WMSJ Sylva, N.C. 5000d WMSJ Sylva, N.C. 5000d WMDK Yadkinville, N.C 1000d WHBC Canton, Ohio 5000 WCIN Cincinnati, Ohio 5000	KNDC Hettinger, N.D. 1000 KOVC Valley City, N. Dak, 1000 KYNN Omaha, NE WBEX Chillicothe, Ohio 1000 WIMO Cleveland Hights., O. 1000 WOHL E. Liverpool OH 1000 WMOA Marietta, Ohio 1000 WMNOA Marietta, Ohio 1000 WMRN Marien, Ohio 1000	KCCV Independence, Mo. 1000d KEMM Marshfield Mo. 250d KTTT Columbus. Nebr. 500d	WFIC Collinsville VA 1000d WPWC Quantico, VA 250d KRNK Cheyenne, WY 1000d
WTRA Latrobe, Pa. 500d WDAS Philadelphia, Pa. 5000 WISL Shamekin, Pa. 1000 WSHP Shippensburg, Pa. 500d WNEL Cagues, P.R. 5000 WMDD Fajardo, P.R. 5000 KSDR Waterton, S.D. 1000d	KOKC Guthrie, OK 500 KBIX Muskogee, Okla. 1000 KBKR Baker, Oreg. 1000 KRNR Roseburg, Oreg. 1000 KBZY Salem, Oreg. 1000 WESB Bradford, Pa. 1000	WJIC Salem, N.J. 250d WPUT Brewster, N.Y. 1000d WEAL Greensboro, N.C. 1000d WEGG Rose Hill, NC WYRU Red Springs NC 1000 WLGD Logan, Ohio 5000d	WCOX Camden, AL 1000d WANL Lineville AL 1000d WRSM Sumiton AL 1000d KASA Phoenix, AZ 10000d KZRK Ozark, AZ 500d KMPG Hollister, Cal. 500 KKAP Aptos-Capitola, CA 1000d KPQL Los Angeles, CA 50000r
WJFC Jefferson City, 1enn. 3000d WMQM Memphis, Tenn. 5000d WJLE Smithville, Tenn. 1000d KBOX Dallas, Tex. 5000 KLVL Pasadena, Tex. 1000 WAPE San Autonlo, Tex. 500d	WJNL Johnstown PA WDDL Lancaster, PA WBCB Levittown, Pa. 1000 WMRF Lewiston, Pa. 1000 WMGW Meadville, Pa. 1000 WNBT Wellsboro, Pa. 1000	KBJS Sallisaw, Okla. 1000d WAHT Annville Cleona, Pa. 5000d WPSL Monroeville, Penn. 250d WVAP Burnettown, S.C. 500d WCPL Pageland, SC WSJW Woodruff, S.C. 1000d	WJGA Jackson GA 1000 WOGA Sylvester, Ga. 1000d KISA Honolulu HI 5000d WSMI Litchfield, III. 1000d WBNL Boonville, Ind. 250d WADM Decatur, Ind. 250d
KONI Spanish Fork, Utah 1000d WCFR Springfield, Vt. 5000d WBBL Richmond, Va. 5000 WBBL Richmond, Va. 5000 WLEZ Salem VA 5000d KQLA Lakewood WA (VAN Vancouver WA 1000 KISM Madison, Wis. 5000 KBBS Buffalo, WY. 1000 KBBS Buffalo, WY. 1000 KBSS Buffalo, W	WV 0.Z Carollina PR 1000 WZBS Ponce PR 10000 WGCD Chester, S.C. 1000 WMRB Greenville, S.C. 1000 WSDC Hartsville SC 250 KORN Mitchell, S.Dak. 1000 WOPI Eristol, Tenin. 1000	KMSD Millbank, SD 5000d WLAC Nashville, Tenn. 5000d KAGC Bryan, TX 250d KCTX Childress, Tex 250d KNAM Midiand, Tex. 500d KMOO Mincola, TX 500d KYKR Port Arthur_TX 5000d	WLOI LaPorte, Ind. 250d WCBK Martinsville IN 500d KXEL Waterloo, Iowa 50000 KNEX MePherson, Kans. 250d KLKC Parsons, Kans. 250d WKCB Hindman KY 1000d KCTO Columbla, La. 1000d KGLA Gretna LA 500d
KBBS Buffalo, WY 1000 KRAE Cheyenne, Wyo. 1000d 1490—201.2 WANA Anniston AL 250 WAJF Decatur AL 1000r	WDXB Chattanooga, TN 1000d WCSV Crossville, TN 1000r WKVB Knoxville, TN 1000 WJM Lewisburg, Tenn. 1000 WDXL Lexington, Tenn. 1000 KNOW Austin, Tex. 1000 KIBL Beeville TX 1000	KROB Robstown, Tex. 500d KSTV Stephenville TX 500d WBLB Pulaski, VA 1000d KAAR Mountlake Terrace, KGA Spokane, Wash. 50000 WAUK Waukesha, Wis. 10000d	KGLA Gretna LA
WRLD Lanett AL 1000r WHBB Selma AL 1000r KCUZ Clifton AZ 1000r KYCA Prescott AZ 1000r KAIR Tucson, AZ 1000r KXAR Hope AR 1000r KDRS Paragould AR 1000r	KBST Big Spring, Tex. 1000 KQTY Borger TX 1000 KBOX Dallas TX 5000r KNEL Brady, Tex. 1000 KWMC Del Rio, Tex. 1000 KSAM Huntsville, Tex. 1000 KYOZ Laredo, Tex. 1000	1520-197.4 WAOA Opelika AL 5000d KACY Port Hueneme, CA 5000d WTLN Appoka, Fla. 5000d WIXX Fort Lauderdale, Fla. 1000d	WYRD East Syracuse, NY 1000d WKYK Burnsville, N.C. 1000d WRPL Charlotte, N.C. 1000d WIFM Elkins, N.C. 1000d WOOZ Wifteville NC 1000d WBCO Bucyrus, Ohlo 500d
KOTN Pine Bluff AR 1000r KARV Russelville AR 1000r KWAC Bakersfield CA 1000r KICO Calexieo, CA 1000r KIRKC Ging City, CA 1000r KTOB Petaluma, CA 1000r KBLE Red Bluff, CA 1000r	KZZN Littlefield, Tex. 1000 KPLT Paris, Tex. 1000 KDOK Tyler, Tex. 1000 KVWC Vernon, Tex. 1000 KVGG Oden, Utah 1000 WKVT Brattleboro, Vt. 1000 WFAD Middlebury, Vt. 1000	WGNB Indian Hocks 1000d Beach, FL 1000d WEXY Oakland Park, Fla. 1000d WXPQ Eatonton, Ga. 1000d WOGL Douglasville, Ga. 1000d WNMT Garden City, Ga. 1000d WHOW Clinton. III. 5000d	WNRE Circleville, OH 1000 WABQ Circleviland, Ohlo 1000d WNIO Niles, Ohlo 500d WBTC Uhrichsville, O. 250d WRCP Philadelphla, Pa. 50000d WARD Pittston, PA. 1000d WARD Pittston, PA. 5000d WAMRO PITTSTON PA. 1000d WAMRO PITTSTON PA. 1000d WAMRO PITTSTON PA. 1000d
KOB Santa Barbara CA 1000r KOWL S. Lake-Tahoe, CA 1000r KSYC Yreka CA 1000r KBOL Boulder, Colo. 1000 KGUC Gunnison, CO 1000 KUL Manthu Spring CO 500	WYKR Wells River, VT 250n WIKE Newport, Vt. 1000 WCVA Culpeper, Va. 1000 WWDE Hampton VA 1000 WAYB Waynesboro, Va. 1000 WAYB Waynesboro, Va. 1000 WYKR Wells River, VT 1000d KBRO Bremerton, Wash. 1000	W.LUV Loves Park, III. 500d W.KVV Knox IN 250d W.SVL Shelbyville, Ind. 1000 K.SIB Creston, Iowa 1000d W.HIC Hardinsburg, K.Y 1000d W.RSL Stanford, Ky. 500d K.X.K.W. Lafayette, La. 10000	WTGF Pickens, SC WBIN Benton, TN WJJT Jellico, TN 1000d WBRY Woodbury TN 500d KRXV Fort Worth, TX 50,000r KGBC Galveston, Tex. 1000
WGCH Greenwich, Conn. 1000 WTRL Bradenton, Fla. 1000 WETO De Land, Fla. 1000 WKEM Immokatee, Fla. 1000 WMBM Miami Beach, Fla. 1000 WCKC Milton, Fl. 1000r WPXE Starke, Fla. 1000 WSIR Vero Beach, Fla. 1000 WSIR Vinter Haven, FL 1000r	KVAC Forks, Wash. 1000 KCNE Kelso, Wash. 1000 KENE Toppenish, Wash. 1000 KTEL Walla Walla, Wash. 1000 WXIT Charleston, W.Va. 1000 WACS Fairmont, W.Va. 1000 WAEY Princeton WV 1000r	WYOB Bel Air, Md. 250d WTRI Brunswick, Md. 500d WKIR Muskegon Hts., MI 10000d WYFC Ypsilanti, MI 250d KKEE Rochester MN 10000d WQMA Marks, Miss. 250d WPGR Port Gibson, MS 250d	KEOA San Antonio TX 1000d WKIE Richmond VA 10000d KZAAM Bellevue, WA 5000 WKTM Hartford, Wis. 500d
WMUG Brunswick, Ga. 1000	WSGB SUTTON, W.Va. 1000 WGEZ Beloit, Wis. 1000 WLCX LaCrosse. Wis. 1000 WJTL Oshkosh, WI 1000 WJTL Oshkosh, WI 1000 KOIO Laramie WY 500	KMPL Sikeston, Mo. 5000 WSLT Ocean City-Somers Pt. N. J. 1000d KAMX Albuquerque, NM 1000d WKBW Buffalo, N.Y. 50000 WTHE Mineola, N.Y. 1000d WDSL Mocksylle NC 5000r WARR Warrenton NC 1000d	WAAY Huntsville AL 5000r WM00 Mobile AL 50000d KUAT Tueson AZ 50000d KXEX Fresno, Calif. 500d KKHI San Fran., Calif. 10000 KQXI Arvada C0 10000d WMLB West Hartford, CT 1000d WRHC Coral Gables FL 10000 WCCZ New Smyrna Beach
KCID Caldwell, Idaho	KUGR Green River, WY 1000r KRTR Thermopolis, Wyo. 250 KGOS Torrington, Wyo. 1000	KMAV mayVIII	WYOU Tampa, Fla. 10000d WTHB Augusta, Ga. 5000d WYNX Smyrna, Ga. 10000
WRED Monroe, GA. 1000c WSFB Quitman, Ga. 250 WSNT Sandersville, Ga. 300 WSYL Sylvania, Ga. 1000c WKRO Cairo IL 1000c WKRO Cairo IL 1000c WKRO Cairo IL 1000c WSSL E. St. Louis IL 1000 WSDE Princeton, III, 1000 WZOE Princeton, III, 1000 WXOE Princeton, III, 1000 WNDW ROUTH SANDERS WROTH SANDERS WR	WKAX Russellville, AL 1000d KGMR Jacksonville AR 1000d KXRX San Jose, CA 10000r WFIF Milford, Conn. 5000d WT0P Washington, D.C. 50000 WKIZ Key West, Fla. 250	WTGR Myrtle Beach, SC 5000d WKMG Newberry, S. C. 1000d KCHF Sioux Falls SD 500d WBHT Brownsville, Tenn. 250d	WCSJ Morris, 111. 250d WPDF Corydon, Ind. 250d WCVL Crawfordsville, Ind. 250 WCTW New Castle, Ind. 250
KEUN Eunice, La. 1000 KJIN Houma, La. 1000	WSEM Donalsonville, Ga. 1000d MDEN Macon, Ga. 1000d MOEN MEN MEN MEN MEN MEN MEN MEN MEN MEN M	WIDD Elizabethton, Tenn. 1000d WEXM Jamesville VA 500d 1530—196.1 WAAO Andalusia AL 1000d WHIY Moulton AL 1000r KXRQ Truman AR 250d	WNDI Sullivan, IN 250d KIWA Sheldon, Iowa 500d KEDD Dodge City, Kans. 1000d KNIC Winfield, Kan. 250d WGRK Greensburg KY 250d WIRV Irvine, Ky. 1000d WMSK Morganfield, Ky. 250d WLUX Baton Rouge, La. 500d KOKA Shreveport, La. 1000d WNTN Newton, Mass. 10000d WBZQ Greenville, MS WSHN Fremont, Mich. 1000d
KRUS Ruston, La. 1000 WPOR Portland, Malne 1000 WTVL Waterville, Maine 1000 WARK Hagerstown, Md. 1000 WHAV Haverhill, Mass. 1000 WMRC Milford, Mass. 1000 WNUS West Surinofield. M6	WKZN Zion, IL 250d WBRI Indianapolis, Ind. 5000d WAKE Valparaiso, Ind. 1000d WKXO Berea, KY KWRG New Roads, La. 1000d WWKQ Battle Creek, MI 1000d WDEE Detrolt MI 50000r KSTP St. Paul, Minn. 50000 WBFN Quitman, Miss. 1000d KDFN Donlahan, Mo. 1000d	KCA1 Pine Bluff, Ark. 250d KTMN Trumann, Ark. 250d KFBK Sacramento, Callf. 50000 KRYT Colorado Springs,	WOKJ Jackson, Miss. 50000 WSAO Senatobia, Miss. 5000d KGMO Cape Girardeau, Mo. 5000d KKIO St. Joseph Mo. 5000
WARK Hagerstown, Md. 1000 WHAV Haverhill, Mass. 1000 WMRC Milford, Mass. 1000 WMC Milford, Mass, 1000 WNUS West Springfield, MA WABJ Adrian, Mich. 1000 WTIQ Manistique MI 1000r WMPX Midland, MI 1000 WLRC Whitehall, Mich. 1000 KXRA Alexandria, Minn. 1000 KXCA Alexandria, Minn. 1000 KOZY Grand Rapids, Minn. 1000 KLGR Redwd. Falls, Minn. 1000	WKER Pompton Lakes, N.J. 1000d WGMF Watkins Glen, N.Y. 250d WIWI Bookingham N.C. 500	WENG Englewood, Fla. 1000 WCRJ Jacksonville, FL 50,000d WTTI Dalton, Ga. 10000d WTHO Thomson GA 10000 WKDC Elmburst, IL 250 KDSN Denison, lowa 5000d KQNK Norton KS 1000	KICS Hastings, Neb. 500d KOBY Reno, Nev. 10000d WCGR Canandalgua, N.Y. 250d WBVM Utica, N.Y. 1000d WPXY Greenville, N.C. 1000d WYNA Ralelgh, N.C. 1000d WTYN Tryon, N.C. 1000d
WLOX Biloxi, Miss. 1000 WCLD Cleveland, Miss. 1000 WHOC Philadelphia, Miss. 1000 WTUP Tupelo, Miss. 1000 WJFL Vicksburg MS KDMO Carthage, Mo. 1000 KTTR Rolls Mb. 1000	WSMX Winston-Salem NC 10000dd WGFT Youngstown, OH 500 WGFT Youngstown, OH 500 WG LC Koften Sound WMNT Manati, P.R. 250 WEAC Saffney, S. C. 1000dd WD LEB Jamestown, Tenn. 250 WTNE Trenton, Tenn. 250dd KBGG Merkel, T.X 250d	KWLA Many, La. 1000d WPNO Auburn, ME 10000d WCTR Chestertown, MD 250d WTHM Lapeer, Mich. 5000d WYGR Wyoming, MI 5000d KYMN Northfield, Minn. 1000d WYRC Calhoun City, Miss. 250d WYAZ Yazoo City, MS 250d WRPM Poplarville, Miss, 10000d KSMM Shakopee, Minn. 500d	WDLR Delaware, Ohio 500d KMAD Madill, OK 250d KREK Sapulpa, Okia. 500d WLOA Braddock, Pa. 1000d WITC Towanda, Pa. 500d
KDRO Sedalia, Mo. 1000d KDBM Dillon, Mont. 1000 KLNG Omaha, Nebr. 1000	KBGG Merkel, TX 250d KXTO Sherman, Tex. 1000d KANI Wharton, Tex. 500	WYAZ Yazoo City, MS 250d WRPM Poplarville, Miss. 10000d KSMM Shakopee, Minn. 500d	WKFE Yauco, P.R. 250 WBSC Bennetsville, S.C. 10000 KHBJ Canyon TX 1000d

U.S. AM STATIONS BY CALL LETTERS

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Call Location kHz	Call Location kHz	Call Location kHz	Call Location kHź
KWBC Navasota, Tex. 250d WYYE Bristol, Tenn. 250d WYNE Bristol, Tenn. 250d WOKI Oak Ridge TN 250d WOKI Oak Ridge TN 500d WCHU Soddy Daisy, TN KCOM Comanche, Tex. 250d KRGO Granger, UT 0,000d KRGO Salt Lake City, UT 1000d WYAB Vinton, Va. 1000d KOQT Bellingham, Wash. 1000d KOQT Bellingham, Wash. 1000d KOQT Bellingham, Wish. 1000d WYAR Vancouver, WA 1000d WYAR Vancouver, WA 1000d WYAR WAGC Centre, AL 1000d WEVR River Falts, Wis. 1000d KDDA Dumas, AR 250d KBIB Monette, AR 250d KBIB Monette, AR 250d KPMC Bakersfield, Calif. 10000 KIQS WIllows, Calif. 10000 WYSE Inverness, FL 1000d WYSE Inverness, FL 1000d WYSE Inverness, FL 1000d WYSE Inverness, FL 1000d WYSE Santon, III. 1000d WSHY Shelbyville, III. 500d WUME Paoli IN 250d WUME Paoli IN 250d	WIFF Auburn, Ind. WIES New Albany, IN KMCD Fairfield, Iowa KQWC Webster City IA KNDY Marysville, Kans. WKYR Burkesville, Kans. WKYR Burkesville, Kans. WKYR Burkesville, Kans. WKYR Burkesville, La. KKLA Leesville, La. KLLA Leesville, La. WTOW Towson, Md. WPEP Taunton, Mass. WMLO Beverly, Mass. WMLO Beverly, Mass. WLDM Westfield MA WFUR Grand Rapids, MI KUXL Golden Valley MN 2500 WHIB Bay Springs MS WLDM WHII Bay Springs MS WKUL Molden Valley MN 2500 WHII Bay Springs MS WONA WINONA, MIONO KLEX Lexington, Mo. WFLR Dundee, N.Y. WBUZ Fredonia, N.Y. WBUZ Fredonia, N.Y. WHON Riverhead, NY WTKO Tithaca, N.Y. WTKO Tithaca, N.Y. WGLX Galion, OH WRLX Galion, OH WGLX Galion, OH WGLX Galion, OH WCLX WATTER IND. WTCL WATTER OH WTCL WATTER OH SO WTCL WATTER OH SO WTCL WATTER OH SO WTCL WATTER OH SO KITAT Frederick Okta.	WRDI Hammonton NJ 1000d WCRV Washington, N.J. 1000d KZIA Albuquerque NM 1000Dd WYFA Patchogue, NY 1000d WZKY Albemarie, N.C. 250d WVKO Columbus, Ohlo 1000d KLTR Blackwell, Okla. 1000d WCLY Columbia, PA 500d WRND Ebensburg, Pa, 1000d WRNB Waynesburg PA, 500rd WORG Orangeburg, S.C. 1000d WBBR Travelers Rest, S.C. 1000d WBRT Travelers Rest, S.C. 1000d WSKT Colonial Village, WHHM Henderson, Tenn. 250d WLIJ Shelbyville, TN 1000d KSKT Knoxville, Tenn. 5000d KGAF Gainesville, Tex. 250d KILE Galveston, TX 1000d KIRT Mission, TX 1000d KIRT Mission, TX 1000d KYED Sequin, Tex. 250d KILE Galveston, Tx 1000d KYED Sequin, Tex. 250d KRZI Waeo TX 1000d KYZI Waeo TX 1000d KYZI Waeo TX 1000d WYNW WILA Danville, Va, 1000d WTIN Watertown, WIs. 5000d WTIN Watertown, WIs. 5000d WTIN Watertown, WIs. 5000d WATM Atmore, AL WACD Alexander City, AL 1000d	WABV Abbeville, S.C. 1000d WACA Camden, S.C. 1000d WMSO Collierville TN 500d WJSO Jenesboro, Tenn. 5000d WJSO Jenesboro, Tenn. 5000d WJSO Jenesboro, Tenn. 1000d KGAS Carthage, Tax. 1000d KGAS Carthage, Tox. 1000d KINT El Paso, Tox. 1000d KINT El Paso, Tox. 1000d KYOK Houston, Tex. 5000 KSOK Houston, Tex. 5000d KYOK Houston, Tex. 5000d KYOK Houston, Tex. 5000d KYOK Houston, Tex. 5000d WSKN Medical States of the States o
WRIN Rensselaer, Ind. KRCB Council Bluffs, Iowa KCJJ Icwa City, IA KABI Abilene KS WKDO Liberty, Ky. WFXY Middlesboro, KY WDXR Padueah, KY. WOXR Padueah, KY. WSDL Slidell I.A WSMD La Plata, Md. WSML Slidell I.A WSMD La Plata, Md. WSUK Portage MI WMIC Sandusky, Mich. KEEW Blue Earth, Minn. KGYX Joplin, MO KLTI Maeon, Mo. WGXR New York, N.Y. WYZD Dobson NC WTRQ Warsaw, N.C. WTRQ Warsaw, N.C. WTRQ Warsaw, N.C. WTRO WORTH ONLOWED WTRD Toledo, Ohlo WTNS Coshocton, Ohlo WTNS Coshocton, Ohlo WTNS Coshocton, Ohlo WTNS Coshocton, Ohlo WTND Toledo, Ohlo KWCO Chickasha, Okla. KRBB Sallisaw, Okla. KRBB Sallisaw Okla. KRAA Aberdeen, SD 50000 KKAA Aberdeen, SD 50000 WKGM Nashville, Tenn, 100001	WPGM Danville, Penn. WBUX Doylestown, Pa. WGM Qartheatrobe, Pa. WFGM Gaffney, S.C. WFGM Gaffney, S.C. WLSC Loris, S.C. KURK Vermillion, S.D. WHLF Centerville, Tenn. WCLE Cleveland, Tenn. WCLE Cleveland, Tenn. WCLE Grange, Z.S. KYER La Grange, Z.S. KYER La Grange, Z.S. KYER Penington Gap, Va. WAPL Appleton, WI WFBZ Minocqua WI 1580—189.2 WEYY Talladege, AL KNIX Tempe, AZ KPCA Marked Tree AR KFDF Van Buren KFDF VAN	WYNA Tuscumbla, AL. 5000r KYDE Pine Bluff, AR. 1000d KSPR Springdale AK. 1000d KSPR Springdale AK. 1000d KXEM MeFarland CA. 500d KLIV San Jose, Cal. 5000 KBBQ Ventura-Oxnard, CA. 5000 KBQ Ventura-Oxnard, CA. 5000 WQW Waterbury CT. 5000 WQW Waterbury CT. 5000 WQW WXRS St. Perterside Beach, FL. 1000d WXRS St. Perterside Beach, FL. 1000d WALG Albany, Ga. 5000 WLFA Lafayette, Ga. 5000 WLFA Lafayette, Ga. 5000 WLFA Lafayette, Ga. 5000 WLFA Lafayette, Ga. 5000 WLTD Evanston, IL. 1000d WATGA Thomaston, Ga. 5000 WATGA Thomaston, Ga. 5000 WLTD Evanston, IL. 1000d WNTS Indianapolis, IN 5000d WNTS Color Burnie, MD 500 WISZ Glen Burnie, MD 500 WISZ Glen Burnie, MD 500 WST MEN MICH 5000 WYTB Coldwater, Mich. 5000 WGRY Grayling MI 1000d	WIND Attantic Beach, Fia. 1000 WKWF Key West, Fia. 500 WOKB Winter Garden FL 5000 WACX Austell, Ga. 1000d WAGA Nashville, Ga. 1000d WAGA Nashville, Ga. 1000d WCGO Chicago Hgts., III. 1000d WMCW Chicago Hgts., III. 500d WMCW Harvard, III. 500d WMTOW Harvard, III. 500d WMTOW Harvard, III. 500d WARU Peru, Ind. 1000d KLGA Algona. IA 5000d KCRG Cedar Rapids, Iowa 5000 KCMD DFt. Scott, Kans. 500d WSTL Eminence, Ky. 500d WSTL Eminence, Ky. 500d WLS Hartford KY 800d KLEB Golden Meadow, La. 1000d KLEB Golden Meadow, La. 1000d WINX Rockville, Md. 1000 WINX Rockville, Md. 1000 WINX Rockville, Md. 1000 WINX Rockville, Md. 1000 WINX Rockville, Md. 5000 WIXY East Longmeadow MA 5000 WAAM Ann Arbor, MI 5000 WATU Muskegon, Mich. 5000 WKDL Clarksdale, Miss. 1000d KATZ St. Louis, Mo. 5000 KTIN Trenton, Mo. 5000
WBOL Bollvar, Tenn. 2500 KCAD Abilene, Tex. 5000 KEGG Daingerfield, Tex. 10000 KHBR Hillsboro, Tex. 2500 KGUL Port Lavaea, Tex. 10000 KGPT Sumner, Wash. 2500 WFSP Kingwood, W.Va. 10000 WFSP Kingwood, W.Va. 10000 WFSP Kingwood, W.Va. 10000 WFSP Kingwood, W.Va. 10000 WFSP Kingwood, W.Va. 2500 KBRI Brankley, AR 2500 KBRI Brankley, AR 2500 KBRI Brankley, AR 2500 KSRB Hardy, AR 2500 KSRB Hardy, AR 2500 KSRB Hardy, AR 2500 KSRS Salinas, CA 2500 KLOV Loveland, Colo. WTWB Auburndale, Fla. 10000 WYHB Clayton, Ga. 10000 WGHC Clayton, Ga. 10000 WGSA College Park, Ga. 2500 WGSA Millen, Ga. 2500 WGSA Freeport II. 10000 WBEE Harvey, III. 10000	KTGR Columbia, Mo. 250 KESM El Dorado Springs. Mo. 500	WY1G Jackson MI	KRFS Superior. Nebr
W 1 A 1 (100) 1350, 111.		 ONS BY LOCATION	i
Location Call kHz	Location Call kHz	Location Call kHz	Location Call kHz
Abbeville AL WARI 1480 Abbeville, La. KROF 960 Abbeville, S.C. WABV 1590 Aberdeen, Md. WAMD 970 Aberdeen, S.Dak. KSDN 930 KABR 1420 KKAA 1560 Aberdeen Wash KBK 1450	WCUE 1150 WHLO 640 WHLO 640 WSLR 1350 Alamogordo NM KPSA 1230 KINN 1270 Alamo Heights, Tex. KDRY 1110 Alamosa Colo. KGIW 1450 Albany Gs. WALG 1590	KKIM 1000 KOB 770 KPAR 1190 KQEO 320 KRZY 1450 KZIA 1580 Alcoa, Tenn. WEAG 1470 Alexander City, Ala.	Alton, III. WOKZ 1570 Altoena, Pa. WFBG 1290 WRTA 1240 WVAM 1430 Alturas, Calif. KCNO 570 Altus, Okla. KWHW 1450 Alva, Okla. KALV 1430 Amarillo, Tex. KDJW 1010 KPUR 1440

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Location	Call kHz	Location	Call kHz	Location	Call kHz	Location	Call kHz
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Abbeville AL	WARI 1480		WCUE 1150		KKIM 1000	Alton, Ill.	WOKZ 1570
Abbeville, La.	KROF 960	i	WHLO 640	,	KOB 770	Altoona, Pa.	WFBG 1290
Abbeville, S.C.	WABV 1590	1	WSLR 1350		KPAR 1190		WRTA 1240
Aberdeen, Md.,	WAMD 970	Alamogordo NM	KPSA 1230		KQEO 920		WVAM 1430
Aberdeen, Miss.	WMPA 1240	1	KINN 1270		KRZY 1450	Alturas, Calif.	KCNO 570
Aberdeen, S.Dak.	KSDN 930	Alamo Heights,	Tex.	_	KZIA 1580	Altus, Okla.	KWHW 1450
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	KABR 1420		KDRY 1110	Alcoa, Tenn.	WEAG 1470	Aiva, Okla.	KALV 1430
	KKAA 1560	Atamosa Colo.	KGIW 1450	Alexander City, A	\la	Amarillo, Tex.	KD1M 1010
Aberdeen, Wash.	KBKW 1450	Albany, Ga.	WALG 1590		WRFS 1050		KPUR 1440
	KXRO 1320		WGPC 1450		WACD 1590		KGNC 710 KIXZ 940
Abilene, Tex.	KRBC 1470		WJAZ 960	Alexandria, La.	KALB 580		
	KCAD 1560		WQDE 1250		KDBS 1410		KQIZ 1360 KZIP 1310
	KEAN 1230	Albany, Ky.	WANY 1390		K8YL 970	Ambaidae Do	WMBA 1460
	KWKC 1340	Albany, Minn.	KASM 1150	Alexandria, Minn		Ambridge, Pa.	WDEC 1290
Abliene, Kans.	KABI 1560	Albany, N.Y.	WABY 1400	Alexandria, VA	WPIK 730	Americus, Ga.	WISK 1390
Abingdon, Va.	WBBI 1230	,	WOKO 1460	Algona, lowa	KLGA 1600	Amery, WI	WXCE 1260
Ada, Okla.	KADA 1230	1	WPTR 1540	Alice, Tex.	KOPY 1070		KASI 1430
Adel. Ga.	WBIT 1470	1	WROW 590	Allendale, S.C.	WD0G 1460	Ames, Iowa	WOI 640
Adrian, Mich.	WABJ 1490	Albany, Oreg.	KWIL . 790	Allentown, Pa.	WHOL 1600	Amherst, Mass.	WTTT 1430
Agana, GU	KUAM 610	1	KRKT 990		WAEB 790	Amherst, N.Y.	WUF0 1080
	KATB 570	Albermarie N.C			WKAP 1320 WSAN 1470	Amherst VA	WKYY 1420
	KTWG 800		WZKY 1580	Attlemen Mahm	KCOW 1400	Amite, La.	WABL 1570
Aguadilla, P.R.	WABA 850	Albert Lea, Mir		Alliance, Nebr.	WFAH 1810	Amory, Miss.	WAMY 1580
	WGRF 1340	Albertville, Ala	WAVU 630	Alliance, Ohio	WULF 1400	Amsterdam, N.Y.	WKOL 1570
Ahoskie, N.C.	WRCS 970	Albion. Mich.	WALM 1260	Alma, Ga.		Amsterdam, N	WC85 1490
Aiken, S.C.	WAKN 990	Albuquerque, N	.M. KABQ 1350 KAMX 1520	Alma, Mich.	WFYC 1280	Anaconda, Mont.	KANA 580
	WLAW 1300	l .	KUFF 1150	Alpena Township	, Mieh. WATZ 1450	Anacortes, Wash.	KAGT 1340
Ainsworth, NE	KBRB 1400			Alalas Tay	KVLF 1240	Anadarko, OK	KRPT 850
Aitkin, Minn.	KKIN 930	l l	KRKE 610 KDAZ 730	Alpine, Tex. Altavista, Va.	WKDE 1000	Anaheim, Callf.	KEZY 1190
Akron Ohio	WAKR 1590		KDAZ 730 '	milavista. Va.	MINDE INOU	Ananoim, Cairi,	

U.S. AM STATIONS BY LOCATION

		U.S. AM STATION	IS BY LOCATION
Location Call kHz	Location Call kHz	Location Call kHz	Location Call kHz
Anchorage AK KBYR 700 KANC 1030 KFQD 750 KENI 550 KHAR 590	KOKE 1370 KVET 1300 Ava, Mo. KSOA 1430 Avaion, CA KBRT 740 Avondale Estates, Ga.	KGK0 650 Benton, Ky. WCBL 1290 Benton, TN WBIN 1540 Benton Harber-St. Joseph, Mich. WHFB 1060 Berea. KY WKX0 1500	Breckenridge, Minn. Wahpeton, N.D. KBMW 1450 Breckenridge, Tex. KSTB 1430 Bremen, Ga. WWCC 1440 Bremerton, Wash. KBRO 1490
Andalusia, AL WKYD 920 WAAO 1530	Avon Park, FL WAPR 1390	Berkeley CA KRE 1400	Brenham, TX KTTX 1280 Brevard, N.C. WPNF 1240
Anderson Ind. WHUT 1470, WHBU 1240	Babylon, NY WNYG 1440 WGLI 1290	Berkeley Springs, W.Va. WCST 1010 Berlin, N.H. WBRL 1400	Brewter, N.Y. WPU 1510 Brewten AL WEBJ 1240 Bridgeport AL WBTS 1480
Andrews, Texas KACT 1360	Bad Axe, Mich. WLEW 1340 Bainbridge, Ga. WMGR 930 WAZA 1360	Berlin, N.H. WBRL 1400 Berlin Wis. WISS 1090 Berry Hill, Tenn. WVOL 1470 Berryville, Ark. KTHS 1480 Berwick, Pa. WBRX 1280 Bessemer Al. WVAM 1450	Bridgeport, Conn. WICC 600 WDJZ 1530 WNAB 1450
Annapolis, Md. WANN 1190 WYRE 810 WNAV 1430	Baker, Mont. KFLN 960 Baker, Oreg. KBKR 1490 Bakersfield, Calif. KAFY 550	Bethel AK KYUK 580	Bridgetown, N.J. WSNJ 1240 Brigham City, Utah KBUH 600 Brighton, Colo. KBRN 600
Ann Arbor, Mich. WAAM 1600 WPAG 1050	KBIS 970 KERN 1410 KGEE 1230	Bethesda, Md. WGMS 570 Bethlehem, Pa. WGPA 1100 Beulah, ND KHOL 1410	Brinkley AR KBRI 1570 Bristol, Conn. WBIS 1440 Bristol, Tenn. WOPI 1490
Anniston AL WANA 1490 WDNG 1450	KUZZ 800 KLYD 1350	Beverly, Mass, WMLU 1570 Biddeford, Maine WIDF 1400	Bristol, Va. WZAP 690
Annville-Cleona, Pa. WAHT 1510	KWAC 1490 KPMC 1560 Baldwinsville, N.Y. WSEN 1050 Ballinger, Tex. KRUN 1400	Big Bear Lake, CA KBBV 1050 Big Lake, Tex, KWGH 1290 Big Rapids, Mich. WBRN 1460 Big Sprg., Tex. KBST 1490	WFHG 980 Broadway-Timberville VA WBTX 1470
Anoka MN KTWN 1470 Ansonia, Conn. WADS 690 Antigo, Wis, WATK 900	Baltimore, Md. WBAL 1090 WAYE 860	Big Sprg., Tex. KBST 1490 KHEM 1270 KBYG 1400	Brockport NY WWBK 1590 Brockton, Mass. WBET 1460 WOKW 1410
Apollo, Pa. WAVL 910 Apopka, Fla. WTLN 1520 Apple Valley, Cal. KAVR 960 Appleton, Wis. WRXA 1570	WBMD 750 WCAO 600 WCBM 680 WEBB 1360	Big Stone Gap, Va. WLSD 1220 Blloxi, Miss. WLOX 1490 WVMI 570	Broken Bow, Nebr. KCN1 1280 Bronson, Mo. KBHM 1220 Brookfield, Conn. WINE 940
WHBY 1230 WYNE 1150	WFBR 1300 WITH 1230	Bittings, Mont. KBMY 1240 KGHL 790 KOOK 970	Brookfield, Conn. WINE 940 Brookfield, Mo. KGHM 1470 Brookhaven, Miss. WCHJ 1470 WJMB 1340 Brookings, Oreg. KURY 910
Appomattox, VA WTTX 1280 Aptos-Capitola CA KKAP 1540 Aquadilla, P. R. WIINA 1340	WSID 1010 WWIN 1400 Bamberg-Denmark, S.C.	KOYN 940 KURL 730 Binghamton, N.Y. WINR 680 WKOP 1360	Brookings, Oreg. KURY 910 Brookings, S.Dak. KBRK 1430 Brookline, Mass. WUNR 1600
Arab, AL WRAB 1380 Arcadla FL WAPG 1480 Arcata, Callf, KATA 1340	Bangor, Maine WWBD 790 WABI 910 WGUY 1250	Birmingham AL WAPI (070	Brookneal, Va. WODI 1230 Brooksville, Fla. WWJB 1450 Brownfield, Tex. KKUB 1300
Ardmore, Okla. KVSO (240) Ardmore Tenn. WSLV (110) Arecibo, P.R. WGMN (1280)	Baraboo, Wis. WBO 740 Barceloneta PR WBQN 1180 Bardstown, Ky, WBRT 1320	WERC 960 WCRT 1260 WAQY 1220 WENN 1320	Brownsville, Pa. WASP 1130 Brownsville, Tenn. WBHT 1520 Brownsville, Tex. KBOR 1800 Brownwood, Tex. KBWD 1380
WNIK 1230 WMIA 1070 Arkadelphia AR KVRC 1240	I BAFDOUFVILLE. KV WYWY 050	WATY 900 WSGN 610	Brownwood, Tex. KBWD 1380 KXYL 1240 Brunswick, Ga. WGIG 1440
Arkan. City, Kans. KSOK 1280 Arlington, Fla. WKTZ 1220	Barnwell, S.C. WBAW 740 Barre, Vt. WSNO 1450	WYDE 850 WYOK 690 Bishee AZ KSUN 1230	WMOG 1490 WYNR 790 Brunswick, ME WKXA 900
Arlington VA WABS 780 WEAM 1390 Arrovo Grande CA KFYV 1280	Barrow, AK KBRW 680 Barstow, Callf. KWTC 1230 KIOT 1310	Bishop, Calif. KIBS 1230 Bishopville, S.C. WAGS 1380 Bismarck, N.Dak. KFYR 550	Brunswick, Md. WTRI 1520 Brush. CO KCMP 1010
Artesia, N.M. KSVP 990 Arvada, Colo. KOXI 1550	Bartlesville, Okla, KWON 1400 Bartow, Fla, WBAR 1460 WPUL 1130	KBMK 1350 Bismarck-Mandan, ND KWWB 1270	I Bryan TX KTAM 1246 II
Ashburn, Ga. WMES 1570 Asbury Park, N.J. WJLK 1310 Asbury Park-Eatontown, NJ WHTG 1410	Bassett, Va. WODY 900 Bastrop, La. KTRY 730 KVOB 1340	WBMS 1350 WFGW 1010	Buckhannon, W.Va. WBHN 1590 Buckhannon, W.Va. WBUC 1460 Bucyrus, Ohio WBCO 1540 Buena Vista, VA WBNV 1270
Asheboro, N.C. WGWR 1260 WZOO 710 Asheville, N.C. WISE 1310	Batavia, N.Y. WBTA 1490 Batesburg, S.C. WBLR 1430	Black River Falls, Wis. WWIS 1260 Blackfoot, Idaho KRI 1 690	Buffalo-Hodgenville, KY WLCB 1430
WRAQ 1380 WSKY 1230	Batesville, Miss. WBLE 1290 Bath, Maine WJTO 730 Bath, NY WVIN 1380	Blacksburg, Va. WKEX 1430 WGBY 710	Buffalo, N.Y. WBEN 930 WYSL 1400
Ashland, Ky. WCMI 1340 WTCR 1420	Baton Rouge, La. WAIL 1260 WLUX 1550	Blackshear, Ga. WBSG 1350 Blackstone, Va. WKLV 1440 Blackwell, Okla. KLTR 1580 Blaine, Wash. KARI 550	WGR 550 WKBW 1520
Ashland OR KCMX 580 KDOV 1350	WIBR 1300 WJBO 1150	Blakely, Ga. WBBK 1260 Blanding, Utah KUTA 790	Buffalo, Wyo. KBBS 1450 Buford, GA WDYX 1460
Ashland, Va. WKDH 1430 Ashland, Wis. WATW 1400 Ashtabula, Ohio WAQI 1600	WLCS 910 WXOK 1450 Battle Creek MI WBCK 930 WKNR 1400	Bloomington, III. WIBC 1230 Bloomington, Ind. WTTS 1370 Bloomsburg, Pa. WCNR 930 WHLM 550	Burten, Wash. KQIN 800 Burkesville, KY WKYR 1570
Aspen, Colo. KSNO 1260 Astoria, Oreg. KAST 1370	Baxley, Ga. WUFF 1260	Blue Earth, Minn. KBEW 1560 Bluefield, W.Va. WHIS 1440 WKOV 1240	Burley, Idaho KBAR 1230 Burlington, Colo. KNAB 1140 Burlington, Iowa KBUR 1490
Atchinson, Kans. KARE 1470 Athens, AL WKAC 1080 Athens, Ga. WGAU 1340	WXOX 1250 Bay City, Tex. KIOX 1270 Bay Minette AL WBCA 1110	Blythe, Calif. KYOR (450 Blytheville AR KLCN 910 Boaz, AL WBSA (300	Burlington, Jowa KBUR 1490 KKUZ 1150 Burlington, N.C. WBBB 920 WBAG 1150
WDOL 1470 WRFC 960	Bayamon, P.R. WLUZ 1600 WRSJ 1560 Bayard, NM KNFT 950	Boca Raton, Fia. WSBR 740 Bogalusa, La. WIKC 1490 WBOX 920	Burlington-Graham, N.C. WBBB 920 Burlington, Vt. WDOT 1400
Athens, Ohio WOUB 1340 Athens, Tenn, WLAR 1450 WYXI 1390 Athens, Tex. KBUD 1416	Bayou Vista, LA KQK! 1170 Bay St. Louis MS WXGR 1190	Boise ID KBRJ 950 KBO1 670 KGEM 1140	WJOY 1230 WVMT 620 Burnet TX KHLB 1340 Burnettown, S.C. WVAP 1510
Atlanta, Ga. WPLD 590	Reacon NV WEND 1280	KIDO 630 KSPD 790 Bolivar, Mo. KBLR 1130	Burney, Cal. KAYA 1450 Burns, Oreg. KRNS 1230
WAOK 1380 WERD 860 WERD 860 WERT 1800 WEST 220 WEUN 1010	Beardstown, III. WRMS 790 Beatrice, Nebr. KWBE 1450 Beaufort, N.C. WBMA 1400 Beaufort, S.C. WBEU 960	Bolivar, Mo. KBLR 1130 Bolivar, Tenn. WBOL 1580 Bonham, Tex. KFYN 1420 Bonners Ferry ID KBF1 1450	Duties, mo. KmAm 1930 📰
WGST 920 WGUN 1010 WKLS 970	Beaumont, Tex. KLVI 580 KAYC 1450 KJET 1380	KFGO 1260	Butler, Pa. WBUT 1050 WISR 680 Butte, Mont. KBOW 550
WQXI 790 WSB 750 WYZF 1480	Beaver Dam. Wis. WRFV 1430	Boone, N.C. WATA 1450 Boonville, Ind. WBN, 1540 Booneville, Miss. WBIP 1400 Boonville, Mo. KWRT 1370 Boonville, N.Y. WBRY 900	Butte, Mont. KBOW 350 KXLF 1370 Cabe Rojo, P.R. WEKO 930 Cadillae, Mich. WATT 1240 WWAM 1370 Cadiz, Ky. WKOZ 1110
Atlanta-Decatur, Ga. WGUN 1010 Atlanta, Tex. KALT 900	Beaver Falls, Pa. WBVP 1230 Beckley, W. Va. WILS 560 WCIR 1070 WWNR 620	Borger IX KQTY 1490	Cadiz, Ky. WKDZ 1110 Caguas, P.R. WNEL 1430 WVJP 1110
	Bedford, Ind. WWNR 620 Bedford PA WAYC 1310 Bedford, Va. WBLT 1350	KBBB 1500 Boston, Mass. WBZ 1030 WACQ 1150 WILD 1090 WEZE 1260	Calro, Ga. WGRA 790 Cairo, III. WKRO 1490 Calais, Maine WQDY 1230
Atlantic Beach, Fla. WJNJ 1600 Atlantic City, N.J. WFPG 1450 WUSS 1490 WMID 1340 Atmore AL WATM 1590	Beeville, lex. KIBL 1490	WEFF A90	I GAINWAN.ID KRGNINGO MI
Attieboro, Mass. WARA 1320 Auburn AL WAID 1230	Bel Air, Md. WVOB 1520 Belen, N. Mex. KARS 860 Belfast, Me. WBME 1230 Belgrade, Mont. KGVW 630	WMEX 1510	Calexico, Calif. KICO 1490
Auburn, Calif. KAHI 950	Belgrade, Mont. KGVW 630 Bellaire, Ohlo WOMP 1290 Bellefontaine, O. WTOO 1390 Bellefonte, Pa. WBLF 970	Boulder, Colo. KBOL 1490	Calhoun City, Miss. WJRL 1530 Camas, Wash. KVAN 1480 Campridge MD WCFM 1240
WAUB 1590 !	Bell Fourche, S.Dak. KBFS 1450 Belle Glade, Fla. WSWN 900	Bowling, Green, Ky. WKCT 930 WBGN 1340 WLBI 1410	Cambridge, MD WCEM 1240 Cambridge, Mass. WCAS 740 Cambridge, Ohlo WLE 1270 Camden AL WCOX 1540
Auburn, Wash. KASY 1220 Auburndale, Fla. WTWB 1570 Auburndale, Wis. WLBL 930 Augusta AR KMCW 1190	Belleville, III. WIBV 1260 Bellevue, WA KZAM 1540 Bellingham, Wash. KPUG 1170 KGMI 750	Bowling Green, Mo. KPCR 1530	Gamden AK KAMD 910 RIWH 1450
WBIA 1230 WGAC 580 WRDW 1480	KREW 930	Bozeman, Mont. KXXL 1450 KBMN 1230 KBOZ 1090	Camden, N.J. WCAM 1310 WTMR 800 Camden, S.C. WACA 1590 WPUB 1130
Augusta, Ga. WAUG 1050 WBBQ 1340	Beloft, Wis. WGEZ 1490 WBEL 1380	WMHI 1370	Camperon, MO KMRN 1360
Augusta, Maine WRDO 1400 WFAU 1340 Aurora, Colo. KOSI 1430	Belton, S.C. WHPB 1390 Belton, Tex. KTON 940 Belzoni, Miss. WELZ 1460 Bemidji, Minn. KBUN 1450	WBRD 1420	Camilia, Ga. WCLB 1220 Campbell, Ohio WHOT 1330
Aurora, III. WMRO 1280 WEVR 1580	Bend. Orea. KRBJ 1360 Bend. Orea. KBND 1110	Brady, Tex. KNEL 1490 Brainerd, Minn. KLIZ 1380 KVBR 1340	Campbellsville, Kv. WTCO 1450
Austell, Ga. WACX 1600 Austin, Minn. KAUS 1480 KQAQ 970	KGRI 940 J	Bradly, Tex. Brady, Tex. KNEL 1490 KNEL 1490 KVBR 1340 Brandon, Miss. Branson, Mos. Brattleboro, Vt. WTSA 1450 WKVT 1490 Brawley, Calif. KROP 1300	Canonsourd, Pa. WARD 540 mm
Austin TX KNOW 1490 KIXL 970 KLBJ 590	Bennetsville, S.C. WBSC 1530 Bennington, Vt. WBTN 1370 Benson, Minn. KBM0 1290 Benson, N.C. WPYB 130 Benton AR KBBA 690	Brawley, Calif. KROP 1300 Brazil, IN WWCM 1130	Canton, Ga. WCHK 1290 Canton, III. WBYS 1560 Canton, Miss. WMS 1370 Canton, N.C. WWIT 970

U.S. AM STATIONS BY LOCATION

U.S. AM	STATIO	NS BY LOCATION		
Location	Call kHz	Location Call kHz	Location Call kHz	Location Call kHz
Canton, O.	WPTL 920 WHBC 1480	Chester, Pa. WQIQ 1590 WVCH 740	KVOR 1300 KSSS 740	Cynthlana, Ky. WCYN 1400 Dade City, Fla. WDCF 1350
	W010 1060 WINW 1520	Chester, S.C. WGCD 1490 Chester VA WGGM 1410	KYSN 1460 KRYT 1530	Daingerfield, Tex. KEGG 1560 Daihart, Tex. KXIT 1410 Dailas, Oreg. KROW 1460
Canyon TX Cápe Girardeau, M	WNYN 900 KHBJ 1550 o. KFVS 960	Chestertown MD WCTR 1530 Cheyenne, Wyo. KFBC 1240 KRNK 1530	Columbia, Ky. WAIN 1270 Columbia, La. KCTO 1540 Columbia, Miss. WCJU 1450	Dallas, Jex. KKLD 1080
	KZYM 1220 KGMO 1550	KRAE 1480 KVWO 1370	Columbia, Mo. KFRU 1400 KTGR 1560	KPBC 1040 KSKY 660 KLIF 1190
Carbondale, III. Carbondale, Pa. Caribou, Maine	WCIL 1020 WCDL 1440	Chicago, III. WAIT 820 WBBM 780	Columbia, Pa. WHEX 1580 Columbia, S.C. WCOS 1400	W F A A 570
Caribou, Maine Carlisle, Pa.	WHYL 960	WCFL 1000 WCRW 1240	WIS 560 WOIC 1320	Dallas-Ft. Worth TX
Carlsbad NM	W100 1000 KHHA 1240 KBAD 740	WEDC 1240 WFMT 1450 WGN 720	WNOK 1230 WQXL 1470 Columbia, Tenn. WMCP 1280	KBOX 1490 KAAM 1310 Dallas-Ft. Worth TX WFAA 570 Dalton, Ga. WBLJ 1230 WRCD 1430
Carmel, Calif.	KCCC 930 KRML 1410	WJPC 950 WIND 560	Columbus Ga. WKRM 1340 WDAK 540	Danbury, Conn. WLAD 800
Carmichael, CA	WROY 1460 KFIA 710	WIND 1160	WRBL 1420 WRCG 1440	Danville, III. WDAN 1490 WITY 980
Carnegie, PA Caro, Mich. Carolina PR	WPLW 1590 WKYO 1360 WVOZ 1490	WMAQ 670 WMB! 1110 WVON 1390	WHYD 1270 WCLS 1580 WOKS 1340	Danville, Ky. WHIR 1230 WOOP 1000 Danville, Pa. WPGM 1570
Carrington, N.Dak Carrizo Springs, 1	. KDAK 1600	WSBC 1240 Chicago Huts., III. WMPP 1470	Columbus, Ind, WCSI 1010	Danville, Va. WBTM 1330
Carroll, Iowa	KBEN 1450 KCIM 1380	Chickasha, Okla. KWCO 1560	Columbus, Miss. WACR 1050 WCBI 550	WYPR 970 WDVA 1250 WILA 1580
Carollton AL Carrollton, Ga.	WRAG 590 WLBB 1100 WPPI 1330	Chico, Callf. KHSL 1290 KPAY 1060 Chicopee, Mass. WACE 730	Columbus, Nebr. KJSK 900 KTTT 1510	Dardanelle AR KCAB 080 Darlington, S.C. WDAB 1350
Carrollton, Mo. Carson City, Nev.	KAOL 1430 KPTL 1300 WBHF 1450	Childress Tay KCTX 1510	Columbus, Ohio WBNS 1460 WCOL 1230	Davenport, lowa WOC 1420 KWNT 1580 KSTT 1170
Cartersville, Ga.	WKRW 1270	Chilicothe, Mo. KCHI 1010 Chillcothe, Ohlo WBEX 1490	WMNI 920 WOSU 820	Dawson, Ga. WDWD 990
Carthage, III. Carthage, Mo. Carthage, MS	WCAZ 990 KDMO 1490 WECP 1480	WCH1 1350 Chipley, Fla. WBGC 1240 Chippewa Falls WI WAYY 1150	WTVN 610 WVKO 1580 Colville, Wash. KCVL 1270	Dayton, Ohio WHIO 1290 WING 1410 WONE 980
Carthage, Tenn.	WRKM 1350 KGAS 1590	Christiansburg, Va. WJJ 1260 Christiansted, V.I. WSTX 970 Church Hill, Tenn. WMCH 1260	Comanche, Tex. KCOM 1550	Dayton, Tenn. WDNT 1280
Caruthersville, Mo Casa Grande AZ	KCRV 1370 KPIN 1260 WKZI 800	I Churchville, VA WADH 1130 I	Concord, Calif. KWUN 1480 Concord, N.H. WKXL 1450 Concord, N.C. WEGO 1410	Daytona Beach, Fla. WNDB 1150
Casey, III. Casper, Wyo.	KTWO 1030 KVOC 1230	Churchville, VA WABH 1150 Cicero, III. WVON 1450 Cincinnati, Ohlo WCKY 1530	Concord, Calif. KWUN 1480 Concord, N.H. WKXL 1450 Concord, N.C. WEGO 1410 Concordia, Kans. KNCK 1390 Conneaut, Ohio WWOW 1360	WMFJ 1450 WROD 1340 Deadwood, S.Dak. KDSJ 980
Cathedral City, CA	KATI 1400 KWXY 1340	WC1N 1480 WKRC 550 WLW 700	Connellsville, Pa. WCVI 1340 Connersville, Ind. WCNB 1580 Conroe, TX KIKR 900	Dearborn MI WWKR 1310 Decatur AL WHOS 600
Catckill N Y	WCKL 860 WKVE 800 WCAY 620	WSAI 1380 WUBE 1230 WZIP 1050	Convey AR KIKR 900 Conway AR KCON 1230 KVEE 1330	WAJF 1490
Cave City, KY Cayce, S.C. Cayey, P.R. Cedar City, Utah	WLEY 1080 KSUB 590	Circleville OH WNRE 1540 Clanton AL WKLF 980	Conway, N.H. WBNC 1050	Decatur-Atlanta, Ga. WGUN 1010 WXLL 1310
Cedar Falls, Iowa	KBRE 940 KCFI 1250	Clare MI WRNN 990 Claremont, N.H. WTSV 1230	Cookeville, Tenn. WHUB 1400	Decatur, III. WDZ 1050 WSOY 1340
Cedar Rapids, lov	KLWW 1450	Claremore, Okla. KWPR 1270 Clairon, Pa. WWCH 1300 Clarksburg, W. Va. WBOY 1400	WPTN 1550 Coolidge AZ KCKY 1150 Coos Bay OR KHSN 1230	Decatur, Ind. WADM 1540 KWLC 1240 Decorah, Iowa KWLC 1240
Cedartown, Ga.	KHAK 1360 WGAA 1340	WHAR 1340 WPDX 750	Councy Hill, Tenn. WLSB 1400	
Celina, Ohio Center, Tex. Centerville, Iowa	WCSM 1350 KDET 930 KCOG 1400	Clarksdale, Miss. WKDL 1600 Clarkston, WA KCLK 1430	Conville, Oreg. KWRO 630 Coral Gables, FL WRHC 1550	Deer Lodge, Mont. KDRG 1400 Defiance, Ohio WONW 1280 De Funiak Springs, Fla. WGTX 1280
Centerville, Ind. Centreville, Miss.	WHON 930 WLBS 1580	Clarksville AR KLYR 1360 Clarksville, GA WIAF 1500 Clarksville, Tenn. WJZM 1400	Corbin, Ky, WCG 1080 WCTT 680 WYGO 1330	De Kalb, III, WLBK 1360 De Land, Fla. WETO 1490
Centerville, Tenn Centerville, UT	KLRK 1600	WDXN 540	Cordele, Ga. WMJM 1490 Cordova AK KLAM 1450	Delano, Calif. KCHJ 1010
Central City, Ky. Centralia, III.	WNES 1050 WMTA 1380 WILY 1210	Claxton, Ga. WCLA 1470 Clayton, Ga. WGHC 1570	Corinth, Miss. WCMA 1230 WKCU 1350 Cornelia, Ga. WCON 1450	Delaware, Ohio WDLE 1550 Delray, Bch., Fla. WDBF 1420 Del Rio, Tex. KDLK 1230
Centralia & Cheh	KELA 1470	Clayton, MO KADI 1320 KFUO 850 KXLW 1320	Corning AR KCCB 1260 Corning, N.Y. WCBA 1350	Delta, Cole. KDTA 1400
Centre AL	WAGC 1560	Clayton, N.Mex. KLMX 1450	Cornwall, N.Y. WWLE 1170 Corona, Cal. KWRM 1370	Compan N.M. KOTS 1230
Centreville AL Ceres, Calif.	WEIS 990 WBIB 1110 KLOC 920	Clearfield, Pa. WCPA 900 Clearwater, Fla. WTAN 1340 WAZE 860	Corpus Christi, TX KCTA 1030 KCCT 1150	Demopolis AL WXAL 1400 Denham Sprgs., La. WLBI 1220 Denison, Iowa KDSN 1530
Chadburn, N.C. Chadron, Nebr.	WVOE 1590 KCSR 610	Cleburne, Tex. KCLE 1120 Clemson, S.C. WCCP 1560 Clermont FL WSLC 1340	KEYS 1440 KRYS 1360	Denison-Sherman, Tex. KDSX 950
Chambersburg, Pa	WCBG 1590 WDWS 1400	Clermont FL WSLC 1340 Cleveland, Ga. WRWH 1350 Cleveland, Miss. WCLD 1490	KSIX 1230 KUND 1400 Corry, PA WWCB 1370	Denmark-Bamberg, S.C. WWBD 790 Denton, Tex. KDNT 1440
Chanute, Kan. Chapel Hill, N.C.	KKOY 1460	WDSK 1410	Corsicana, Tex. KAND 1340 Cortez, Colo. KVFC 740	Denver CO KAAT 1090 KDEN 1340
Chardon, O. Charleroi, Pa.	WRBX 1530 WBKC 1560 WESA 940	Cleveland OH WWWE 1100 WMGC 1260 WERE 1300	Cortland, N.Y. WKRT 920 Corvallis, Ore. KLOO 1340	KFML 1390 KHOW 630
Charles City, low Charleston, III.	A KCHA 1580 WEIC 1270	WGAR 1220 WHK 1420	KFLY 1240 KOAC 550 Corydon, Ind. WPDF 1550	KIMN 950 KLIR 990 KLZ 560
Charleston, Mo. Charleston, S.C.	WCSC 1390 WOKE 1340	WABQ 1540 WJW 850	Coshocton, Ohio WTNS 1560 Cottage Grove, Ore. KNND 1400 Cottonwood AZ KVIO 1600	KERE 710 KOA 850
	WPAL 730 WQSN 1450	Cleveland, Tenn. WBAC 1340 WCLE 1570 Cleveland, TX KJCH 1410	Coudersport, Pa. WFRM 600	KPOF 910 KBNO 1220 KTLK 1280
Charleston, W.V.	WTMA 1250 a. WCAW 680	Cleve, Hahts., Ohio WJMO 1490	Council Bluffs, Iowa KRCB 1560 Courtenay B.C. CFCP 1440	DeQueen AR KDQN 1390 DeRidder, La. KDLA 1010
	WCHS 580 WXIT 1490 WKAZ 950	Clifton AZ KCUZ 1490 Clifton Forge VA WXCF 1230	Courtenay, B.C. CFCP 1440 Covington, Ga. WGFS 1430 Covington, Ky. WCLU 1320	Dermott, AR KAKA 1110 DeSoto, Mo. KHAD 1190
Charles Towns, W	WTIP 1240	Clincho, Va. WDIC 1430 Clinton, AR KGFL 1110 Clinton, III. WHOW 1520	Covington, La. WARB 730 Covington, Tenn. WKBL 1250 Covington, Va. WKEY 1340	Des Moines, Iowa KCBC 1390 KIOA 940 KRNT 1350
Charlesvoix, MI	WXVA 1550 WVOY 1270	Clinton, lowa KCLN 1390 KROS 1340	Cowan, Tenn. WZYX 1440 Cozad, Neb. KAMI 1580	KSO 1460 KWKY 1150
Charlotte, Mich. Charlotte, N.C.	WCER 1390 WBT 1110 WAYS 610	Clinton, Mc. KDKD 1280 Clinton, NC WRRZ 880 WCLN 1170	Craig, Colo. KRAI 550 Crane TX KBSN 810 Crawfordsville, Ind.	Detroit, Mich. WCAR 1130 WDEE 1500
	WGIV 1600 WHVN 1310	Clinton, Okla. KWOE 1320 Clinton, S.C. WPCC 1410	WCVL 1550 Crescent City, Calif. KPLY 1240	WJLB 1400 WJR 760 WWJ 950
	WSOC 930 WIST 1240 WAME 1480	Clinton, Tenn. WYSH 1380	Creston, Iowa KSIB 1520	WWJ 950 WXYZ 1270
charlotte Amalie,	WRPL 1540	Clovis, CA KXQR 790 Clovis, N.Mex. KCLV 1240 KICA 980	Crestviéw, Fla. WCNU 1010 WJSB 1050 Crewe, Va. WSVS 800 Crockett, Tex. KIVY 1290	Detroit Lakes, Minn. KDLM 1340 Devils Lake, N.Dak. KDLR 1240 Dewitt AR KDEW 1470
Charlottesville, V	WVWI 1000	I KWKA KNII	Crowe, Va. WSVS 800 Crockstor, Minn. KROX 1260 Crossett AR KAGH 800	
Onal luctes ville, v	WINA 1070	Coachella, Callf. KCHV 970 Coamo, P.R. WCPR 1450 Coatesville, Pa. WCOJ 1420 Cochran, Ga. WVMG 1440	Crossville, Tenn. WAEW 1330	Diboll, Tex. KSPL 1260 Dickinson, N. Dak. KDIX 1230
Chase City, Va. Chatham, Va.	WMEK 980 WKBY 1080	Cocoa Beach FL WCWR 1350 WWBC 1510	Crowley, La. KSIG 1450 KAIN 1560	Dickson, Tenn. WDKN 1260
Chattahoochee, F Chattanooga, Ten	WSBP 1580	Cody, Wyo: KODI 1400 Coeur d'Alene ID KVNI 1080	Crystal Lake, III. WIVS 850	Dillingham, AK KDLG 670 Dillon, S.C. WDSC 800
Onaccanooga, 1 on	WDEF 1370 WDOD 1310	Coffequitte Kans KGGF 690	Cuba, MO KBCC 1410 Cuero, TX KEWS 1600 Culiman AL WFMH 1460 WKUL 1340	Dimmitt, Tex. KDHN 1470
	WDXB 1490 WGOW 1150 WNOO 1260	Colby, Kans, KXXX 790 Coldwater Mich. WTVB 1590 Coleman, Tex, KSTA 1000 Colfax, Wash. KCLX 1450 College Park, GA WSSA 1570	Culpeper, Va. WCVA 1490	Dixon, III. WIXN 1480 Dobson NC WYZD 1580 Dodge City, Kans. KGNO 1370 KEDD 1550
Cheboygan, Mich Cheektowaga, N.)	. WCBY 1240	College Park, GA WSSA 1570 College Station, Tex.	Cumberland, Ky. WCPM 1280 Cumberland MD WCMD 1230 WCBC 1270	Dodgeville, Wis. WDMP 810
Chehalis-Centrali	a, Wash. KITI 1420	Collierville TN WMSO 1590	Cumming, GA WSNE 1170	Donalsonville, Ga. WSEM 1500 Donaldsonville, La. WSLG 1090
Chelan, Wash. Cheraw, S.C. Cherryville, N.C.	WCRE 1420 WCSL 1590	Colonial Heights, Va. WPVA 1290	Cushing, Okla. KUSH 1660 Cuthbert, Ga. WCUG 850 Cuyahoga Falls, Dhio	Doniphans, Mo. KDFN 1500 Dothan AL WAGF 1320
Chesapeake, Va.	WCPK 1600	Colorado City, Tex. KVMC 1320 Celo. Sprgs., Colo. KRDO 1240 KPIK 1580	Cypress Gardens, Fla. WGTO 540	WD1G 1450 WOOF 560
Chester, III.	KSGM BB0	KPIK 1580	WGTO 540	Douglas AZ KDAP 1450

	,	U.S. AM STATIONS	BY LOCATION
Location Call kHz	Location Call kHz	Location Call kHz	Location Call kHz
KAPR 930 Douglas, Ga. WDMG 860	Endicott, N.Y. WENE 1430 Englewood, CO KWBZ 1150	Forrest City AR KXJK 950 Forsyth, MT KIKC 1250	Gaylord, Mich. WATC 900 Geneseo IL WGEN 1500
WOKA 1310 Douglas, Wyo. KWIV 1050 Douglasville, Ga. WDGL 1520	Englewood, Fla. WENG 1530 Englewood, Tenn. WENR 1090	Ft. Atkinson, Wis. WFAW 940 Ft. Bragg. Calif. KDAC 1230	Geneva AL WGEA (150 Geneva, III. WGSB 1480 Geneva, N.Y. WGVA 1240
Dover, Del. WDOV 1410 WKEN 1600	KGWA 960 Enterprise AL WIRB 600	Ft. Campbell, Ky. WABD 1370 Ft. Collins, Colo. KCOL 1410 KIIX 600	Georgetown, Del. WJWL 900 Georgetown, Ky. WAXU 1580
Dover, N.H. WTSN 1270 Dover, N.J. WRAN 1510 Dover-Foxcroft, MEWDME 1340	Enterprise, Oreg. KWVR 1340 Ephrata, Pa. WGSA 1310 Ephrata, Wash. KULF 730	Ft. Dodge, lowa KVFD 1400 KWMT 540	WINH 14/0
Dover-New Philadelphia, O. WJER 1450	Erie, Pa. WLKK 1260 WJET 1400	Ft. Kent, ME WLVC 1340 Ft. Knox, Ky. WSAC 1470 Ft. Lauderdale, Fla. WFTL 1400	Georgetown, Tex. KGTN 1530 Gettysburg, Pa. WGET 1320 Gillette, Wyo. KIML 1270
Dowagiac, Mich. WDOW 1440 Doylestown, Pa. WBUX 1570 Dublin, Ga. WMLT 1330	WRIE 1330 WWGO 1450 Erwin, Tenn. WEMB 1420	WIXX 1520 WSRF 1580 WAVS 1190	Glimer TX KHYM 1080 (Gliroy, Cal. KAZA 1290 Gladewater, Tex. KEES 1430 Gtadwin, MI WJEB 1350
WXLT 1230 Du Bola, Pa. WCED 1420	Escanaba, Mich. WDBC 680 Escanaba MI WBDN 600	Ft. Madison, Iowa KXGI 1360 Ft. Morgan, Colo, KFTM 1400 Ft. Myers, Fla. WINK 1240	Glasgow, Ky. WKAY 1490
Dubuque, Iowa KDTH 1370 WDBQ 1490 Duluth, Minn. KDAL 610	Escondido, Calif. KOWN 1450 Espanola, N. M. KDCE 970 Estes Park, CO KSIR 1470	Ft. Myers, Fla. WINK 1240 WMYR 1410 WCAI 1350	Glasgow, Mont. KLTZ 1240 Glen Burnie, Md. WISZ 1590
WEBC 560 KAOH 1390 WWJC 850	Estherville, la. KILR 1070 Etowah, Tenn. WCPH 1220 Eufula AL WULA 1240	Fort Payne AL WFPA 1400 WZOB 1250	Glen Burnie, Md. WISZ 1590 Glendale AZ KRUX 1360 Glendale, Calif. KIEV 870 Glendive, Mont. KXGN 1400
Dumas AR KDDA 1560 Dumas, Tex. KDDD 800 Duncan, Okla. KRHD 1350	Eugene, Ore. KEED 1450 KASH 1600 KATR 1320	Ft. Scott, Kans. KMDO 1600	Glennalten AK KCAM 799
Dunedin FL WDCL 1470 Dundee, N.Y. WFLR 1570	KORE 1050 KBDF 1280	Fort Smith AR KFPW 1230 KF8A 950 KTCS 1410	Glens Falls, N.Y. WBZA 1410 WWSC 1450 Glenville, Ga. WKIG 1580
Dunnellon, Fla. WTRS 920 Dunkirk, N.Y, WDOE 1410 Dunn, N.C. WCKB 780	KPNW 1120 KUGN 590	KWHN 1320 Ft. Stockton, Tex. KFST 860 Ft. Valley, Ga. WFPM 1150	Glenville, Ga. WKIG 1580 Glenwood Sprgs., Colo. KGLN 980 Globe, AZ KPPR 1240
Du Quoin, III. WDQN 1580 Durand, Wis. WRDN 1430	Eupora, MS WEPA 710 Eureka, Calif. KINS 980	Ft. Walton Beach, Fla.	Gioucester, Va. WDDY 1420 Gioversville-Johnston NY
Durango, Colo. KIUP 930 KDGO 1240 Durant, Okla. KSFO 750	KHUM 790 KRED 1480 Eustis, Fla. WLCO 1240	Ft. Wayné, Ind. WGL 1250 WFWR 1090	WENT 1340 Gold Beach, Oreg. KBLY 1220 Golden Meadow, LA
Durham, N.C. WDNC 620 WSRC 1410 WDUR 1490	Evanston, III. WEAW 1330 WLTD 1590 Evanston, Wvo. KEVA 1240	WOWO 1190 WLYV 1450	Golden Valley, Minn.
WTIK 1310 Oyersburg, Tenn. WDSG 1450	Evansville, Ind. WROZ 1400 WGBF 1280	WMEE 1380 Ft. Worth, Tex. KJIM 870 KRXV 1540	KQRS 1440 KUXL 1570 Goldshoro, N.C. WFMC 780
WTRO (330) Eagle Pass, Tex. KEPS (270) Eagle River, Wis. WERL 950	WJPS 1330 Eveleth, Minn, WEVE 1340	KFJZ 1270 KNOK 970 WBAP 820	WGBR 1150 WYNG 1300 Gonzales, LA WSLG 1090
Easley, S.C. WELP 1360 E. Grand Forks, Minn.	Everett, Wash. KRKU 1380 KWYZ 1230	Fosston, Minn. KEHG 1480	Gonzales, Texas KCTI 1450 Goodland, Kans. KLOE 730 Gordon, Ga, WKOG 1560
KRAD 1590 Eastland, Tex. KERC 1590 E, Lansing, Mich. WKAR 870	Evergreen AL WBLO 1470 Excelsion Springs, Mo.	Fountain Inn, S.C. WFIS 1600 Fowler, Calif. KLIP 1220	Gouverneur, N.Y. WIGS 1230
WVIC 730 E. Liverpool, Ohle WOHI 1490 East Longmeadow, Mass.	KEXS 1090 Exeter, N.H. WKXR 1540 Fairbanks AK KFAR 660	Framingham, Mass. WKOX 1190 Frankfort, Ind. WILO 1570 Frankfort, Ky. WFKY 1490	Grafton, ND KXPO 1340 Grafton, W.Va. WVVW 1260 Graham, N.C. WSML 1190
WIXY 1600 Eastman, Ga. WUFF 710	KFRB 900 K1AK 970 Fair Bluff, N.C. WWKO 1480	Franklin, Ky. WFKN 1220	Graham, Tex. KSWA 1830 Grand Forks, N.D. KFJM 1870
E. Moline, IL WDLM 960 E. Point, Ga. WTJH 1260 East Prairie, Mo. KGCL 1080	Fairbury, Nebr. KGMT 1310 Fairfax, Va. WEEL 1310 Fairfield AL WJLD 1400	Franklin, La. KFRA 1390 Franklin, N.C. WFSC 1050 Franklin, N.H. WFTN 1240	KKXL 1440 KNOX 1310 Grand Haven, Mich.
E. St. Louis IL WESL 1490 E. Syraeuse. NY WYRD 1540	Fairfield, Iowa KMCD 1570	Franklin, Pa. WFRA 1450 Franklin, Tenn. WAGG 950	WGHN 1370 Grand Island, Nebr. KMMJ 750
Easton MD WEMD 1460 Easton, Pa. WEEX 1230 WEST 1400 Eaton, OH WCTM 1130	Fairfield, O. WCNW 1560	WIZO 1380 Franklin, Va. WYSR 1250 Franklinton, La. WFCG 1110	KRGI 1430 Grand Junction, Colo,
Eaton, OH WCTM 1130 Eatonton, Ga, WXPQ 1520 Eatontown, N.J. WHTG 1410	Fairmont, N.C. WFMO 860 Fairmont, W.Va. WMMN 920	Frederick, Md. WFMO 930 WZYQ 1370 Frederick, Okla. KTAT 1570	KREX 1100 KEXO 1230 KSTR 620
Eau Claire, Wis. WEAQ 790 WJJK 1400 WOKL 1050	WTCS 1490 Fairway, Kan. KUDL 1380 Fajardo, P.R. WMDD 1480	Fredericksburg, Tex. KNAF 910	KQIL 1340 Grand Prairie, Tex. KKDA 730
Eau Gallie, FL WTAI 1560 Ebensburg, Pa. WEND 1580	Falfurrias, Tex. KPSO 1260 Fallon, Nev. KVLV 980 Fall River, Mass. WALE 1400	Fredericksburg, VA WFAV 1230 WFLS 1350 Fredericksted, VI WRRA 1290	Grand Rapids, MI WMAX 1480 WCUZ 1230 WFUR 1570
Eden, NC WCBX 1130 WLOE 1490 Edenton, N.C. WCDJ 1260	WSAR 1480 Falls Church, Va. WFAX 1220	Fredericktown, Mo. KFTW 1450 Fredonia, N.Y. WBUZ 1570	WGRD 1410 WLAV 1340
Edinburg, Tex. KURV 710 Edmonds, Wash. KGDN 630 Edna, Tex. KWBY 1130	Fails City, Nebr. KTNC 1230 Fargo, N.Dak. WDAY 970 KFGO 790 KFNW 1170	Freeport, III. WFRL 1570 Freeport, N.Y. WGBB 1240	WOOD 1300 Grand Rapids MN KOZY 1320 Granger, UT KRGO 1550
Effingham, III. WCRA 1090 Elba AL WELB 1350	KQWB 1550 Faribault, Minn. KDHL 920	Fremont, Mich. WSHN 1550 Fremont, Nebr. KHUB 1340	Granger, UT KRGO 1550 Grangeville, Idaho KORT 1230 Granite City, III. WGNU 920 Granite Falls, N. C.
El Cajon, Callf. KDEO 910 El Campo, Tex. KULP 1390	Farmersville, La. KTDL 1470 Farmington, Me. WKTJ 1380 Farmington, Mo. KRE1 800		Grants, N.Mex. KMIN 980
El Centro, Calif. KXO 1230 KAMP 1430 El Dorado AR KDMS 1290	Farmington N M K FNN 1300	Fresno, Calif. KARM 1430 KBIF 900 KIRV 1510 KEAP 980 KXEX 1550 KFRE 940 KGST 1600	Grants Pass, Oreg. RAG1 980 KAJO 1270 Grass Valley CA KNCO 1250 Grayling, MI WGRY 1590
El Dorado KS KOYY 1430	KWYK 960 KRZE 1280 Farmyille, N.C. WFAG 1250 Farmyille, Va. WFLO 870		Grayling, MI WGRY 1590 Grayson, Ky. WGOH 1370 Gt. Barrington, Mass.
Eldorado Springs, Mo. KESM 1580 Eleele, Kanal, Hawali	Farrell, Pa. WFAR 1470 Farwell, Tex. KZOL 1570 Fayette AL WWWF 990	KMAK 1340 KMJ 580 KYNO 1300	Gt. Bend, Kans, KVGB 1590
KUAI 720 Elgin, III. WRMN 1410 Eliijay, GA WLEJ 1560	Fayetteville AR KHOG 1440 KFAY 1250	Friona, Tex. KNNN 1070 Front Royal, Va. WFTR 1450 Frostburg, Md. WFRB 560	KQD1 1450
Elizabeth, N.J. WJDM 1530 Elizabeth City, N. C. WCNC 1240	WFNC 940 WFLB 1490	Fulton, Ky. WFUL 1270	Greeley, Colo. KARR 1400 KFKA 1310 KYOU 1450
WGAI 560 Elizabethton, Tenn. WBEJ 1240	Fayetteville, Tenn. WEKR 1240	Fulton, Mo. KFAL 900 Fulton, N.Y. WOSC 1300 Fuggay-Varina, N.C.	WDUZ 1400
Elizabethtown, Ky. WIEL 1400	WIXC 1140 Fergus Falls, Minn.	Fulton, Mo. KFAL 900 Fulton, N.Y. WOSC 1300 Fuguay-Varina, N.C. WAKS 1460 Gadsden AL WGAD 1350 WIBY 930	WNFL 1440 Greeneville, Tenn. WGRV 1340 WSMG 1450
WBLA 1440 Elizabethtown, Pa. WPDC 1600 Elk City, OK KADS 1240	KBRF 1250 Fernandina Beach FL WYHI 1570	Gaffney, S.C. WFGN 1570	Greenfield, Mass. WHAI 1240 Green River, WY KUGR 1490
Elkhart, Ind. WOMR 1270 WTRC 1340 Elkins, N.C. WIFM 1540 Elkins, W.Va. WDNE 1240	Ferriday, La. KFNV 1600 Festus, Mo. KJCF 1400 Festus-St. Louis, Mo.	Gainesville, Fla. WDVH 980 WGGG 1230	WCOG 1320
EIKO, Nev. KELK 1240	KXEN 1010 Findlay, Ohio WFIN 1330 Fisher, W.Va. WELD 690	WRUF 850 WAKA 1390 Gainesville, Ga, WGGA 550 WDUN 1240	WGBG 1400 WPET 950 Greensburg, Ind. WTRE 1330
Elkton, Md. WSER 1550 Elkton, KY WSRG 1070 Ellensburg. Wash. KXLE 1240	Fitchburg, Mass. WEIM 1280 WFGL 960	WDUN 1240 WNRJ 1130 Gainesville, Tex. KGAF 1580	Greensburg, KY WGRK 1550 Greensburg, Pa. WHIB 620
Ellenville, N.Y. WELV 1370	Fitzgerald, Ga. WBHB 1240 Flagstaff AZ KCLS 600 KAFF 930	Galax, Va. WBOB 1360 Galesburg, Ill. WGIL 1400	Greenville, Mich. WPLB 1380 Greenville, Miss. WJPR 1330
Eimhurst, IL WKDC 1530 Elmira, N.Y. WELM 1410	Flat River, Mo. KF0S 690 Flint, Mich. KFM0 1240 Flint, Mich. WFDF 910 WTRX 1330	Galion, OH WGLX 1570 Gallatin, Tenn, WHIN 1010	WDDT 900 WGVM 1260 WBZQ 1550
WENY 1230 Elmira Heights- Horseheads, N.Y. WEHH 1590	WTRX 1330 WAMM 1420 WCZN 1570	Gallinolis Obio WAMG 1130	Greenville, N.C. WNCT 1070 WOOW 1340 WPXY 1890
El Paso, TX KROD 600 KAMA 1080 KELP 920 KHEY 890	WKMF 1470 WTAC 600	Gallup, N. Mex. KGAK 1330 KYVA 1230 Galveston TX KILE 1400 KGBC 1540	Greenville, Pa. WGRP 940 Greenville, S.C. WESC 660
KINT ISON 1	Flomaton AL WTCB 990 Florence AL WXOR 1340 WOWL 1240	Garden City, Ga. WMNT 1520 Garden City, Kan. KUIL 1240	WFBC 1330 WHYZ 1070 WMRB 1490
KISO 1150 KSET 1340 KTSM 1380	Fiorence, S.C. WJMX 970 WOLS 1230 WYNN 540	Garden City, Mich. WIID 1090	WMRB 1490 WMTY 1090 WMUU 1260 WQOK 1440
El Reno O K KTSM 1380 Ely, Minn. WELY 1450 Ely, Nev. KELY 1230	Floydada, Tex. KFLD 900 Foley AL WHEP 1310	Gardiner, Me. WABK 1280 Gardner, Mass. WGAW 1340 Garner, N.C. WKBQ 1000 Gary, Ind. WWCA 1270	Greenville, TX KGVL 1400 Greenwich, Conn. WGCH 1490
Elyria, Ohlo WEOL 930 Eminence, Ky. WSTL 1600 Emporia, Kans. KVOE 1400	Fond du Lae, Wis. KFIZ 1450 Fordyce AR KBJT 1570 Forest, MS WMAG 850	Garyville, La. WKQT 1010	Greenwood, Miss. WABG 960 WGRM 1240
Emporia, Va. WEVA 860 Emporium, Pa. WLEM 1250	Forest City, N.C. WBBO 780 WAGY 1320 Forks, Wash. KVAC 1490	Gastonia, NC WGNC 1450 WLTC 1370 Gate City, Va. WGAT 1050	Greenwood, S.C. WSWG 1540 WCRS 1450 WMTY 1090
MUNICATIONS WORLD 1979			

Location Call kHz	Location Call kHz	Location Call kHz	Location Call kHz
Greer, S.C. WEAB 800 WCKI 1300 Grenade, Miss. WNAG 1400 Greshan, Oreg. KRDR 1230 Gretna, La. KGLA 1540 Gretna VA WMNA 730 Griffin, Ga. WKEU 1450	WSPF 1000 Highland, III. WINU 1510 Highland Park IL WQVQ 1430 Highland Park, Tex KVIL 1150 Highland Springs, Va. WENZ 1450	NGNB 1520 Indio, Calif. KREO 1400 Inglewood, Calif. KTYM 1480 Inoz. KY WFJT 1590 Inkster, Mieh., WGHB 1440 International Falls, Minn.	KMBZ 980 KPRS 1590 WDAF 610 WHB 710 Kaukauna, Wis. WKAU 1050 Xealakokua, Hawali
Grinnell, Iowa KGRN 1410 Groton-New London CT WSUB 980 Grove City, Pa. WSAJ 1340	High Point, N.C. WMFR 1230 WGLD 1590 WGLD 1590 WGOS 1070 WSRW 1590 Hillsboro, Oreg. KUIK 1360 Hillsboro, Tex. KHBR 1560 Hillsbate, Mich. WCSR 1340	KG HS 1230 Inverness, Fla. WYSE 1560 Iola, KS KIKS 1370 Ionia, MI WION 1430 Iowa City, Iowa KXIC 800 KCJJ 1560	KKON 790 Kearney, Nebr. KGFW 1340 KRNY 1460 Keene, N.H. WKNE 1290 WKBK 1220 Kelso, Wash. KLOG 1490 Kemmerer, Wyo KMFR 950
Grundy, Va. WNRG 940 Guayama, P.R. WXRF 1590 Guifport, MS WGUF 1130 WGCM 1240 Guifport-Biloxi, MS WROA 1390	Hillsdate, Mich. WCSR 1340 Hillsville, Va. WHHV 1400 Hilo, HI KPUA 670 KIPA 620 KHLO 850 Hindman, KY WKCB 1340 Hinesville, Ga. KGML 990 Hilton, W,Va. WMTD 1380 Hobart, Okja. KTJS 1420	lowa Falls, Ia. KIFG 1510 Irondale AL WLPH 1480 Iron Mtn., Mich. WMKB 1230 Ironten, Ohlo WIRO 1230 Ironton, MO KPIA 1480 Ironwood, Mich. WJMS 590 Irvine, Ky. WIRY 1550	Kenedy-Karnes City, 1 exas KAML 990 Kennett, Mo. KBOA 830 KBXM 1540 Kennewick WA KOTY 1340
Guntersville AL WGSV 1270 Guthrie, Okia. KOKC 1490 Guymon, Okia. KGYN 1210 Hackensack, NJ WWDJ 970 Hackettstown, NJ WRNJ 1000 Hagerstown, Md. WARK 1490 WJEJ 1240	Hobart, Okia. K138 1420 Hopbs, N.Mex. KWEW 1480 KHOB 1390 Hohenwald, TN WMLR 1230 Holbrook AZ KDJI 1270 Holdenville, OK KYYL 1370 Holdedde Nehr. KUYR 1380	Isabella, P.R. WISA 1390 Ishpeming, Mich. WJPD 1240 WUPY 970 Islip, N.Y. WLIX 540 Ithaca, N.Y. WHCU 870 Uka. Miss. WVOM 1270	Kenosha, Wis, WLIP 1050 Kent, O. WKNT 1520 Kentwood, MI WKWM 1140 Keokuk, Iowa KOKX 1310 Kermit, Tex. KERB 600 Kerrville, Tex. KERV 1230 Kershaw, S.C. WKSC 1300
Haines City, Fla. WHAN 930 Haleyville AL WJBB 1230 Halfway, Md. WHAG 1410 Hamilton AL WERH 970 Hemilton MT KLYO 1249	Holly Hill SC WKH 1440 Hollister, Cal. KMPG 1540 Hollywood, Fla. WGMA 1320 Holly Springs, MIss.	Jackson, AL WHOD 1230 Jackson, Ga. WJGA 1540 Jackson, Ky, WEKG 810 Jackson, Mich. WIBM 1450 WKHM 970 WJCO 1510 Jackson, Miss. WJDX 620 WJQS 1400	Ketenikan Ar Kilki 930 Kewanee, III. W KEI 1450 Keyser, W.Va. WKLP 1390 Key West, Fia. WKWF 1600 WKIZ 1500 Kilgore, Tex. KOCA 1240
Hamilton, Ohlo WMOH (450 Hamilton, Tex. KCLW 900 Hamlet, N. C. WKDX (250 Hammond, Ind. WJOB 1230 Hammondon NJ WRDI (1800 Hampton VA WWDE (1490 Hampton VA WWDE (1490 Hampton WMPL) (1490 Hampton WMPL) (1490 WMPL)	Holyoke, Mass. WREB 930 Hemestead, FL WQDI 1430 Homewood, Ala. WJLD 1400 Hondo, Tex. KRME 1460 Honesdale PA WHPA 1590 Honotulu, HI KAIM 870 KISA 1540 KCCN 1420	WJXN 1450 WJXN 1450 WY1G 1550 WY1G 1550 WRBC 1300 WSL 930 Jackson MO KJAS 1170 Jackson, Ohlo WLMJ 1280	Killeen 1, Nebr. KIMB 1280 King, N.C. WKTE 1090 King City, Callf. KRKC 1490 Kingman AZ KAAA 1230 Kings Mountain, N.C. WKMT 1220 Kingsport, Tenn. WKMT 1320 WKPT 1400
Hanesdale PA WDHN 1990 Hanford, Calif. KNGS 620 Hannibal, Mo. KHMO 1070 Hánover, N.H. WTSL 1400 WDCR 1340 Hanover, Pa. WHVR 1280 Hardin, Mont. KHDN 1230	KGMB '590 KZ00 1210 K10E 1080 KP01 990 K1K1 830 KGU 780	Jackson, Tenn. WDXI 1310 WQZQ 1460 WTJS 1390 Jackson, Wis. WYLO 5440 Jackson, Wyo. KSGT 1340 Jacksonville AL WJXL 810 Jacksonville AR KGMR 1500	WGOC 1090 WGHQ 920 WKNY 1490 Kingston TN WTNR 1410 Kingstree, S.C. WDKD 1310 WKSP 1090 Kingsville, Tex. KINE 1330 Kingwood, W.Va. WFSP 1560
Hardinsourg, Ry. Hardy, AR Harlan. Ky. Harlingen, Tex. Harlingen, Tex. Harrisburg, III. Harriman TN WJZA 1690	KMVH 1040 KKUA 690 KNDI 1270 KOHD 1170 KORL 650 KUMU 1500 Hood River, Oreg. KHR 1340 Hope AR KXAR 1490 Hopewell, Va. WHAP 1340	Jacksonville, Fla. WJAX 930 WAPE 690 WV0J 1320 WV0J 1280 WPDQ 1460 WGZN 970 WSNY 600	Kinston, N.C. WELS 1010 WFTC 960 WISP 1230 Kirkland, WA KGAA 1460 Kirksville, Mo. KIRX 1450 Kissimmee, Fla. WFIV 1080 WMJK 1220
Harrisburg, Pa. WFEC 1400 WCMB 1460 WHP 580 WKB0 1230 Harrison AR KHOZ 900 Harrisonburg, Va. WHBG 1360 WKCY 1300 WSVA 550	Hopewell, Va. WHAP 1340 Hopkinsville, Ky. WHOP 1230 WKOA 1480 KGHO 1560 Hornell NY WHAP 1320 Horseheads, N.Y. WIGH 1000 Hot Springs AR KBHS 890 KXOW 1420	WCMG (050 WERD 1400 WCRJ 1530 Jacksonville, 111. W1L 1550 WLDS 1180 Jacksonville, N.C. WJNC (240 WBS 1290	Kittanning, Pa. WACB 1380 Klamath Falls, Oreg. KFLS 1450 KFLS 1450 KNOX, IN WKVI 1520 KNOXVIIIE, IOWA KNIA 1320 KNOXVIIIE, Tonn. WBIR 1240
Harrodsburg, Ky. WHBN 1420 WDRC 1360 WCCC 1290 WCCP 1410 WTIC 1080 Hartford, Ky. WLLS 1600 Hartford, Wis. WTKM 1540	Hot Springs, S.Dak. KOBH 580 Houghton, Mich. WHDF 1400 Houghton Lake, Mich. WHGR 1290	Jacksonville, Tex. KEBE 1400 Jacksonville Bch. Fla. WBIX 1010 Jamestown, Ky. WJKY 1060 Jamestown, N.Dak. KEYJ 1400 Jamestown, N.Y. WJTN 1240	W1VK 850 / WJBE 1430 WETE 820 WKGN 1340 WKXV 900 WNOX 990 WNOX 1490
Hartsville, S.C. WHSC 1450 WSDC 1490 WSDC 1490 Hartsville, Tenn. WIKM 1090 Hartwell, Ga. WKLY 980 Harvard, III. WMCW 1600 Harvey, III. WBEE 1570 Hastins. Mich. WBCH 1220	Houma, La. KJIN 1490 Houston, Miss. WCPC 940 Houston, Mo. KBTC 1250 Houston. Tex. KCOH 1430 KENR 1070 KEYH 850 KILT 810	Jamestown, Tenn. WKSN 1340 WCLC 1260 WDEB 1500 Jamesville, VA WEXM 1520 WCLO 1230 WWWB 1360 WARE 1240	WSKT 1580 Kodiak AK KVOK 560 Kokomo, Ind. WIOU 1350 Kosciusko, Miss. WKOZ 1340 Kotzebue AK KOTZ 720 Laconia, N.H. WLNH 1350 WEMJ 1490 La Crosse, WI WIZM 1410
Hastings, Minn. KDWA 1460 Hastings, Nebr. KHAS 1230 KICS 1550 Hattlesburg, Miss. WBKH 4550 WFOR 1400 WHSY 1230 WORY 1580 WXXX 1310 Havelock, N.C. WKYO 1330	KNUZ 1230 KODA 1010 KPRC 950 KULF 790 KTRH 740 KXYZ 1320 KYOK 1590 Howell, Mich. WHM! 1350	Jasper, Ind. WITZ 990 Jasper, Tex. KTXJ 1350 Jeanette PA WBCW 1530 Jefferson City, Mo. KLIK 950 KWOS 1240 Jefferson City, Tenn. WIFC 1480	WLCX 1490 WKTY 580 Ladysmith, Wis. WLDY 1340 Lafayette, Ga. WLFA 1590 Lafayette, Ind. WASK 1450 WBAA 920
Haverbill, Mass. WHAV 1490 Havre, Mont. KOJM 610 Havre de Grace, Md. WASA 1330 Hawesville, KY WKCM 1140 Hawkinsville, Ga. WCEH 610	Hugo, Okia. Kinn 1340 Hudson, N.Y. WHUC 1230 Humacao, P.R. WALO 1240 Humble City, N.M. KCIA 1110 Humboldt, Tenn. WIBJ 740 WHMT 1190 Humbingdon Pa WHUN 1150	Jeffersonville, Ind. WXVW 1450 Jellieo TN WJJT 1540 Jena, La. WCKW 1480 Jenkins, KY WREM 1000 Jennings, La. KJEF 1290 Jerome, Idaho KART 1400 Jerseyville, III. WJBM 1480 Jesub, Ga. WLOP 1370	NYUL 1330 KXKW 1520 Lafayette, Tenn. WEEN 1460 LaFollette, Tenn. WLAF 1450 LaGrande, Oreg. KLBM 1450 LaGrange, Ga. WLAG 1240 WTRP 620
Hays, Kans. KAYS 1400 Haysesville, La. KLVV 1580 Haysesville, La. KLVV 1580 Haysesville, La. KLVV 1580 Haysesville, La. KLVV 1580 Hazerd, Ky. WKIC 1390 Hazerlhurst, Ga. WYOH 920 Hazelhurst, Miss. WMDC 1220 Hazelton, Pa. WAZL 1490 Hazelton, Pa. WHZN 1300	Huntington, TN WJP 1530 Huntington, Ind. WHLT 1300 Huntington, N.Y. WGSM 740 Huntington, W. Va. WKEE 800 WGNT 930 WWHY 1470 Hunstyllie AL WBHP 1230	John Day, Ore. KJDY 1400 Johnson City, Tenn. WJCW 910 WETB 790 Johnstown N.Y. WIZR 930 Johnstown, N.Y. WIZR 930 Johnstown Pa. WJAC 850	LaGrange, Tex. KVLG: 1570 LaJunta, Colo. KBZZ: 1400 Lake Charles, La. KLGU: 1880 KLGL: 1470 KAOK: 1400 Lake City. Fla. WDSR: 1340
Heath, OH WHTH 1000 Heber Springs AR KAWW 1370 Helena AR KFFA 1360 Helena, Mont. KCAP 1340 KMIL 1240 KMTX 950 Hemet Calif. KHSJ 1320	WF1X 1450 WAAY 1550 WYOV 1000 Huntsville, Tex. KSAM 1490 Huron, SD K1JV 1340 KOKK 1190	WJNL 1490 WCRO 1230 WCRO 1230 WJOL 1340 WJRC 1510 WJRC 1510 WJRC 1510 KNEA 970 Jonesboro, La. KTOC 920 Jonesboro, Tenn. WJSO 1590	WGRO 960 Lake City, S.C. WJOT 1260 Lake Geneva, Wis, WMIR 1550 Lake Havasu City AZ KFWJ 980 Lake Isabella CA KVLI 1140 Lakeland FL WOPD 1430 WONN 1230
Hempstead, N.Y. WILL 1880 Henderson, Ky. WSON 880 Henderson, NV KBMI 1400 Henderson-Las Vegas, NV KVOV (280 Henderson, N.C. WHNC 890	Hutchinson, Kans. KWBW 1450 KWHK 1260 Hutchinson, Minn. KDUZ 1260 Hyde Park. NY WHPN 950 Idabel, Okla. KBEL 1240 Idaho Falls, Idaho KID 590 KTEE 1260	Jonesyllie, La. MANY 1460 Joplin, Mo. WMBH 1450 KQYX 1560 KFSB 1310 KODE 1230 Juneos, PR WFAB 1460 Lungtion Tey KMBL 1450	WWAS 1330 Lake Placid, N.Y. WIRD 920 Lakeport, Cal. KBLC 1270 Lake Providence, La. KBLC 1270 Lake Tahoe, Calif. KOWL 1490 Lakevew, Oreg. KVBL 1490 Lakevew, Oreg. WIPC 1280 Lakewood, Colo. KLAK 1600 Lakewood, NJ WHLW 1170
Henderson, Tenn. WHIM 1580 Henderson, Tenn. KGRI 1000 KWRD 1470 Hendersonville, N.C. WHKP 1450 WHVL 1600	Immokalee, FL WKEM 1490 Independence, CA KINC 600 Independence, Ia. KOUR 1220 Independence, Kans. KIND 1010 Independence, Mo. KGCV 1510 Independence, WD. MCCV 1510 Independence, WD. MCCV 1510	Jupiter, FL KINU 630 Jupiter, FL WRYZ 1000 Kallua, HI KLEI 1130 Kalamazoo, Mich. WKPR 1420 WZKO 590 WKMI 1360	Lake Worth, Fia. WLIZ 1380 Lamar, Colo. KLMR 920 Lamesa, Tex. KPET 690 Lampasas, Tex. KCYL 1450
Hereford, Tex. KPAN 860 Herkimer, N.Y. WALY 1420 Hermiston, OR KOHU 1360 Herndon, Va. WOHN 1440 Herrin IL WHPI 1340 Hettinger, N.Dak. KNDC 1490 Wibbing Minn. WMFG 1240	WBRI 1500 WNDE 1280 WNTS 1590 WIBC 1070 WIFE 1310 WIRE 1430 WXLW 950	MYYY 14/0 Kalispell MT KGEZ 600 KOFI 1180 Kane, Pa. WKZA 960 Kankakee, III. WKAN 1320 Kannapolis, N.C. WGTL 870 WRKB 1480	Lancaster, Ky. WIXI 1280 Lancaster, N.Y. WXRI 1300 Lancaster, Ohio WHOK 1320 Lancaster, Pa. WGAL 1490 WIAN 1390 Lancaster, PA WDDL 1490
WKKQ 1060 Hickory, N.C. WHKY 1290 WIRC 630	Indianola, Iowa KBAB 1490 Indianola, Miss. WNLA 1380 Indian Rocks Beach, FL	Kans. City, Kans. KCKN 1340 Kansas City, Mo. KCMO 810 KAYQ 1190	Laneaster, S.C. WLCM 1360 WAGL 1560 Laneaster, WI WGLR 1280

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Location	Call kHz	Location Call kl	lz Location Call k	Hz Location Call kHz
Lender Wyo	KOVE 1330	Livingston, Mont. KPRK 134	Manistique, Mich. WT1Q I	490 Merced, Calif. KYOS 1480
Lander, Wyo. Lanett AL Langdon, N.D.	KOVE 1330 WRLD 1490 KNDX 1080	Livingston, Mont. KPRK 134 Livingston, Tenn. WLIV 97 Livingston, Tex. KETX 144	O I Manitou Springs, Colo.	KWIP 1580
Lansdale, Pa. Lansford, Pa.	WNPV 1440 WLSH 1410	I LOCKBART. IX KULI 10t	i0 I Man∃towoe.Wis. WCUB	980 i Meridian Miss WCOC 910
Lansing, Mich.	WILS 1320 WILM 1240	I Lockport. NY WLVL (3	4) Mankato, Minn. KYSM i	230 I WMOX toto
Lapeer, Mich.	WITL 1010 WMPC 1230	Lodi. Galif. KCVR 157 Logan, O. WLGN 151 Logan, Utah KBLW 139	iŭ i Mansfleid La KUXII:	410 WQ1C 1450 360 WTNK 1390
LaPlata, Md.	WTHM 1530 WSMD 1560	KSTU 130 KVNU 6		400 Merkle, TX KBUS 1598
LaPorte, Ind. Laramie WY	WLOI 1540 KOJO 1498	Logan, VT KBLW 13 Logan, W.Va. WLOG 123	30 1 Manti.VT KMILI	340 Merrill WI WJMT 730 400 Mesa AZ KBUZ 1310
Laredo, Tex.	KOWB 1290	1 WYOW 100	Maplewood MN WMIN II Maquoketa, Iowa KMAQ I	320 i Metronolik III WMBBK 926
Largo, Fía. Larned, Kans.	KLAR 1300 KVOZ 1490 WSST 800	Lompoc, Calif. KBIK 14 KLOM 133	Maquoketa, Iowa KMAQ I Marathon, Fla. WFFG I Mareo Island FL WMIB I	300 Metter, Ga. WMAC 1360 510 Mexia TX KWFA 1508
LaSalle, III.	KANS (510 WLPO 1220	London, Ky. WFTG 140	Marianna, Fia. WTYS	340 Mexico, Mo. KAEU 1340 B40 Mexico, Pa. WJUN 1220
LasCruces, N.Mex	KGRT 570	Long Beach CA KFRN 128 KGER 139	Marletta, Ga. WFOM !	230 Miami, Fla. WGBS 710
Las Vegas, Nev.	KENO 1460 KLAV 1230	Longmont, Colo. KLMO 100 Long Island AK KABN 113	Marietta, Ohio WMOA I WBRJ	490 WFAB 990
	KRAM 1340 KLUC 1140 KORK 920	Long Island AK KABN III Long Prairie, Minn. KEYL 14 Longview, Tex. KFRO 18	Marine City, Mich.	WW0K 1280
	KNUU 970 KOWN 720	KLUE 129 Longview, Wash. KEDO 141 KBAM 12	00 Marinette WI WMAM	370 WQBA 1140 300 WQCN 1450
Las Vegas, N.Mex Latrobe, Pa.	C. KFUN 1230 WQTW 1570	Lookout Mountain-	Marion AL WJAM (3 Marion, III. WGGH (150 WINZ 940 WCMQ 1220
Laurei, Md. Laurei, Miss.	WTRA 1480 WLMD 900	Lorain, OH WLRO 13 Loretto, Pa. WWSF 149	nn I WGDMI-	400 Miami, Okia, KGLC 910 860 Miami Beach, Fis
Laurei, Miss.	WAML 1340 WLAU 1430	Loris, S.C. WLSC 15 Los Alamos, N.Mex. KRNS 14 Los Angeles, Calif. KABC 7	Marion, Ky. WMJL I	
Laurens, S.C. Laurinburg, N.C.	WNSL 1260 WLBG 860 WEWO 1080	I KFI 6	40 j mrarion, S.G. WALE I	430 Middlebury Vt WFAD 1400
Lawrence, Kans.	WI NC 1300	KHJ 93 KFWB 96 KKTT 123	io i Mold i	830 WMPO 1890
Lawrence, Mass.	KFKU 1250 KLWN 1320 WCCM 800	KFAC 133 KIIS II	0 Marks, Miss. WQMA I	520 WFXY 1560
Lawrenceburg, Te	nn.	KLAC 5: KMPC 7	70 I Mariboro MA WSBU I	Middletown, N.Y. WALL 1340
Lawrenceville, Ga. Lawrenceville, III.	. WAKO 910	KNX 103 KPOL 15	0 Marshall, AR KCGS I 10 Marshall, Minn. KMHL I	400 Midland, MI WMPX 1490
Lawrenceville, Va. Lawton, Okia.	KSW0 1380	KGBS 102		460 KJBC 1180
Leadville, CO	KCCO 1050 KBRR 1230	Los Banos, Calif. KLBS 13; Louisa, Ky. WVKY 12 Louisburg, N.C. WYRN 12 Louisville, Ga. WPEH 14; Louisville, Ky. WAYE 0	70 Marshall, Tex. KMHT I 10 KKYR I 10 Marshalltown, Iowa KFJB I	410 Midwest City OK KRMC 1330
Leavenworth, Kans Lebanen, Ky. Lebanen, MO	s. KCLO 1410 WLBN 1590 KLWT 1230	Louisville, Ga. WPEH 14: Louisville, Ky. WAVE 9: WAKY 7:	'O Marshfield, Mo. KEMM I	Milan, Tenn. WKBJ 1600 Milbank, SD KMSD 1510
Lebanon, Oreg.	KJEL 1080 :	WHAS 8 WKLO 10	ió Martin, Tenn. WCMT I 30 Martinsville, Ind. WCBK I	Fia I MILITORO, CONN. WELF 1500
Lebanon, Pa.	KGAL 920 WLBR 1270 WVLV 940	WINN 12- WFIA 90	10 Martinsburg, Pa. WJSM i No Martinsburg, W.Va. WEPM i	1 Millord, Mass. WMRC 1490
Lebanon, Tenn. Lebanon, VA	WCOR 900 WLRV 1380	WLOU 13: WTMT 6:	Martinsville, Va. WHEE I	Milledgeville, Ga. WMVG 1450
Leesburg, Fla.	WLBE 790 WZST 1410	Louisville, Miss. WLSM 12: Loveland, Colo. KLOV 15:	70 i Marvville, Mo, KNIM 1:	#50 WXLX 1060 #50 Millen, Ga. WGSR 1570 #60 Millington, Tenn. WTNN 1380
Leesburg, Va. Leesville, La.	WAGE 1290 KLLA 1570	Loveland, Colo. KLOV 15. Loves Park., III. WLUV 15. Lovington, N.Mex. KLEA 6.	Maryville, Tenn. WGAP 1 Marysville, Callf. KMYC 1 Marysville, Kans. KNDY !!	110 Millinocket, Me. WMKR 1240
Lessville, La. Lehigh Acres, Fla Lehighton, Pa. Leitchfield, KY	WYNS 1150	Lovington, N.Mex. KLEA 65 Lowell, Mass. WGAP 94 WLLH 14 Lubbock TX KEND 155)O Mason, Mich, WUNNI	WFGS 1330
Leland, Miss. LeMars, Iowa	WMTL 1580 WESY 1580 KLEM 1410	KDAV 50 KLBK 134	10 KRIBI	Milton WV WNST 1600
Lemmon, S.D. Lemoore, Galif.	KBJM 1400 KLAN 1320	, KLFB 142 , KFYO 79	() Маssепа, N.Y. WMSA I	340 MIWAUKEE, WIS. WEMP 1250
Lenoir, N.C.	WJRI 1340	KLLL 146 KSEL 98	Massillon, Ohio WTIG !	190
Lengir City, Tenn	WKGX 1080 WBLC 1360	IVER MA WINSE 12	Mattoon, III. WLBH I	70 WOKY 920
Leominster. Mass.	WLIL 730	Lucedale MS WRBE (4 Ludington, Mich. WKLA (4: Lufkin, Tex. KRBA (3:	Mayaguez, P.R. WAEL WKJB	300 Minden, La. KASO 1240 Mindela N.V. WTHE 1520
Leonardtown, Md. Leone, Am. Samoa Levelland, Tex.	WK1K 1370 1	KLUF 14 Lumberton, N.C. WAGR 5	10 WORA 20 WPRA 10 WTIL IS	Mineola, Tex. KMOO 1510 Mineral Wells, Tex. KORC 1140
Levittown, Pa. Lewisburg, PA	WBCB 1490 WTGC 1010			I Minneapolis-St. Paul MM
Lewisburg, Tenn.	WYMC 1430 WJJM 1490	Luray, Va. WRAA 13: Luverne, Ala. WLVN 10: Luverne, Minn. KQAD 8:	00 Mayodan, N.C. WMYN I	
Lewisport, KY Lewiston, Idaho	WKCM 1140 KRLC 1350	Lykens, PA WQIN 12 Lynchburg, Va. WLVA 5: WIII 9	Maysville, Ky. WFTM 12 McAlester, Okla. KTMC 14	40 WMRT 1370
Lewiston, Maine	WKCM 1140 KRLC 1350 KOZE 1300 WCOU 1240	Lynchburg, Va. WIVA 5: WLL 9: WLGM 13: WWOD 13: WWOD 13: WWOD 13: Lynn, Mass, W. WBST 10: Lyons, Ga. WBST 10: Machias, Me. WMCS 4: Macomb, Ill. WKAI 15: Macom GA. WBM 15:	MeAllen, Tex. KRID	
Lewistown, Mont.	KXLO 1230	WBRG 103 Lynn, Mass, WLYN 133	No. McAllen, Tex. KRIO (1) McCall, Ida, KMCL (2) McCamey, Texas KAMY (4) McComb, Miss. WHNY (4)	40 KTIS 900 KUOM 770
Lewistown, Pa. Lexington, Ky.	WLAM 1470 KXLO 1230 WKVA 920 WMRF 1490 WLAP 630	Lyons, Ga. WBBT 13- Machias, Me. WMCS 144 Macomb, III. WKAI 15	McAllen, Tex.	40 Minocqua WI WFBZ 1570
	WLAP 630 WBLG 1300 WVLK 590 WXTN 1000 KLEX 1570 KRVN 880 WBUY 1440 WDXL 1490 WDXL 1490 W WFEL 1450 d. WFTX 920 KLCB 1230	Macon GA WBML 90	McConnelisburg, PA	
Lexington, Miss. Lexington, Mo. Lexington, Neb.	WXTN 1000 KLEX 1570	Macon GA WBML 91 WCRY 90 WDD0 12- WDEN 15	Meteorine is burg, FA WVFC	100 KTYN 1430 160 Mission, Kans. KBEA 1480
Lexington, Neb. Lexington, N.C.	KRVN 880 WBUY 1440	WJEN 131 WIBB 121 WMAZ 94 WNEX 141 Macon, Mo. KLTI 151 Madawaska, Me. WSJR 121 Madera, Calif. KHOT 121	McFarland, Gal. KXEM 15 McGehee AR KVSA 12	90 Mission, Tex. KIRT 1580 20 Missoula, Mont. KGVO 1290
Lexington, Neb. Lexington, N.C. Lexington, Tenn. Lexington, Va. Lexington Pk., Mo Libby, Mont, Liberal, Kans.	WREL 1450	WNEX 14 Macon, Mo. KLTI 156 Madawaska, Me. WSJR 123	McKeesport, Pa. WEDO 6 WIXZ 13 McKenzie, Tenn. WHDM 14	10 KGRZ 1450 60 KYLT 1340 40 KYSS 930
Libby, Mont,	KLCB 1230	Madawaska, Me. WSJR 123 Madera, Calif. KHOT 125 Madill, Okla. KMAD 155	McKenzie, Tenn. WHDM 14 McKinney, Tex. KYAL 16 McLeansboro, 1L WMCL 10	40 KYSS 930 100 Mitchell, S.Dak. KORN 1490 160 Moab, Utah KURA 1450
	KLGB 1230 KSCB 1270 KLIB 1470 WKDO 1560 KBIL 1140 WVOS 1240 KPXE 1050 KTOH 1350	Madien El WMAE 199		60 Moberly, Mo, KWIX 1230 Mobile AL WUNI 1410
Liberty, Ky. Liberty, Mo. Liberty, N.Y. Liberty, Tex. Lihue, Hawaii	KBIL 1140 WVOS 1240	Madison, Ga. WYTH 22 Madison, Ind. WORX 122 Madison, S.D. KJAM 123 Madison TN. WJRB 145	0 McMinnville, Tenn. WBMC 1	30 WABB 1480
Liberty, Tex. Lihue, Hawaii	KPXE 1050 KTOH 1350	Madison TN WJRB 143 Madison, Wis. WHA 97	0 McPherson, Kans. KNEX 15 0 McRae, Ga. WDAX 14 0 Meadville, Pa. WMGW 14	10 WMOO 1550 90 WMOB 840
Lima, Ohio	WIMA 1150 WCIT 940	WIBA 131 WISM 148	0 Mechanicville, N.Y. WMVI 10 Mebane NC WQWX 10	70 WKRG 710 60 WLIQ 1360
Lincoln, III. Lincoln, Me. Lincoln, Nebr.	WPRC 1370 WLKN 1450		0 Medford MA WWEL 14 0 Medford, Oreg. KMED 14	Mobridge, S.Dak. KOLY 1300 40 Mocksville, N.C. WDSL 1520 Modesto, Calif. KTRB 860
Lincoln, Nebr.	KFOR 1240 KLIN 1400	WTT 131	KSHA KBOY	80 Modesto, Galif. KTRB 860 30 KBEE 970
Linesia Olf. OF	WIMA 1150 WCIT 940 WPRC 1370 WLKN 1450 KLIN 1490 KLIN 1490 KLIN 1480 KECK 1530 KBCH 1380 WLON 1050 WANL 1540 WSM1 1540 WSM1 1540 KLTF 960 KLTF 960 KARN 920 KARN 920 KARN 920 KARN 1010 KOKÝ 1440 KASOH 1050 KOKÓ 1510 WLTN 1490 WNER 1050	Madisonville, Tenn. WZZI 125 Magee, Miss. WSJC 81		Modards, Callf. Kine 800 Kele 970 Ke
Lincoln City OR Lincolnton, N.C. Lincville, Ala, Linton, Ind. Litchfield, III, Litchfield, Minn. Little Falls, M.Y. Little Falls, N.Y. Littlefield, Tex. Little Rock AR	WLON 1050 WANI 1540	Mages, Miss. WSJC 81 Mages, Miss. WSJC 81 Magnolia AR KVMA 63 Makawai, Hawaii KNUI 131 Maksviile, N.C. WDSL 15 Malden, Mo. KTCB 147 Malone, N.Y. WICY 148 Malone, N.Y. WICY 148	0 Medford, Wis. WIGM 14 0 Melbourne, Fla. WMMB 12	Monahans, Tex. KVKM 1330 Monahans, Tex. KVKM 1330 Moneks Corner, S. C.
Linton, Ind.	WBT0 1600 WSM1 1540	Maiden, Mo. KTCB 147	Memphis, Tenn. WHELE	20 Moncks Corner, S. C. 60 WBER 950 80 Monett, Mo. KRMO 990
Litchfield, Minn. Little Falls. Minn	KLFD 1410 . KLTF 960	Malvern AR KBOK 131 Manassas, Va. WPRW 146 Manati, P.R. WMNT 150 Manchester, Conn. WINF 123 Manabaster Ga WERD 133	0 WMC 7	30 Monett, Mo. KRMO 990 90 Monette AR KBIB 1560 70 Monmouth, III. WRAM 1330
Little Falls, N.Y. Littlefield, Tex.	WLFH 1230 KZZN 1490	Manati, P.R. WMNT 150 Manchester, Conn. WINF 123	0 WMPS 6 0 WLOK 13	70 Monmouth, III. WRAM 1330 80 Monroe, Ga. WMRE 1490 40 WKUN 1580 80 WRED 1490
Little Rock AR	KARN 920 KALO 1250	Manchester, Ga. WFDR 137 Manchester, Ky. WWXL 145 Manchester, N.H. WFEA 137	0 WMQM 14 WREC 6	80 WRED 1490 00 Monroe, La. KMLB 1440
	KOKY 1440	manenester, N.H. WFEA 137 WGIR 61	0 KWAM 9 0 Memphis Tex KBGH 11 0 Mena AR KENA 14 0 Mendota, III. WGLC 10	90 KLIC 1230 30 KNOE 540 50 Marcas MI WHAD 560
Littleton. Golo	KSOH 1050 KDKO 1510	Magee, Miss. WSJC 81 Magnolia AR KVMA 63 Makawal, Hawali KNUI 83 Maksville, N.C. WDSL 15: Malden, Mo. KTCB 14: Malone, N.Y. WICY 144 Malone, N.Y. WICY 144 Maloren AR KBOK 13: Manassas, Va. WPRW 14: Manatli, P.R. WMNT 15: Manchester, Ga. WFDR 13: Manchester, Ky. WFXL 144 Manchester, Ky. WFXL 144 Manchester, Ky. WFXL 144 WGIR 61 WKBR 125 Manchester, Tenn. WMSR 125 Manchester, Tenn. WMSR 125 Manhattan, Kans. KSAC 36	n I Mendata III . WGLC 10	90 Monroe N.C. WIXE 1190
Littleton, Colo. Littleton, N. H. Live Oak, Fla.	WLTN 1400 WNER 1250	Manhattan, Kans. KSAC 58 KMAN 135 Manistee, Mich. WMTE 134	0 Mendocino, CA KMFB 13 0 Menominee, Mich. WAGN 13 0 Menomenie, Wis. WMNE 13	00 WMAP 1060 40 Monroe Wis. WEKZ 1260 60 Monroeville AL WMFC 1360
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Location Call kHz	Location Call kHz	Location Call kHz	docation Call kHz
Monroeville, Pa. WPSL 1510 Monterey, Calif. KIDD 630	Needles CA KSFE 1340 Neenah, Wis. WNAM 1280	Northfield, Minn. WCAL 770 KYMN 1080	Pagosa Springs, CO KPAG 1400 Painesville, Ohio WPVL 1460
Montevideo, Minn. KDMA 1460 Monte Vista, Colo. KSLV 1240	Neillsville, Wis. WCCN 1370 Neon, Ky. WNKY 1480	N. Little Rock, AR KDXE 1380 KXLR (150 North Platte, Nebr. KJLT 970	Painesville, Ohio WPVL 1460 Paintsville, Ky. WSIP 1490 Palatka, Fla. WWPF 1260
Monte Vista, Colo. KSLV 1240 Montezuma, Ga. WMNZ 1050 Montgomery AL WBAM 740	Neosho, Mo. KBTN 1420 Nevada, Mo. KNEM 1240 New Albany, IN WOBS 1570	KAHL 1410 KODY 1240	Palestine, Tex. KNET 1450
WXVI 1600 WCOV 1170	New Albany, IN WOBS 1570 WDGS 1290 New Albany, Miss. WNAU 1470	North Pole AK KJNP 1170 KRKM 600	Palm Beach FL WPBR 1340 Palm Sprgs., Cal. KCMJ 1010
WHHY 1440 WMGY 800	Newark, Del. WNRK 1260 Newark, N.J. WVNJ 620	No. Syracuse, N.Y. WSOQ 1220 N. Vernon, Ind. WOCH 1460	KDES 920 KPSI 1450
Montgomery, W.Va.	Newark, N.Y. WACK 1420	No. Wilkesboro, N.C. WKBC 810 Norton, Kans. KNBI 1530	Paimdale, Calif. KUTY 1470 Paim Desert, Cal. KGOL 1270 Paio Alto, Calif. KIBE 1220
Monticello AR KHBM 1430 Montleello, FL WTBJ 1090	Newark, Ohio WCLT 1430 New Bedford, Mass. WBSM 1420 WNBH 1340	Norton, Va. WNVA 1350 Norwalk, Conn. WNLK 1350	Pamona, Cal. KWUW 1000 Pampa. Tex. KPDN 1340
Monticello, Ky. WFLW 1360 Monticello, Miss. WMLC 1270	New Bern, N.C. WHIT 1450 WBIC 1380	Norton, Va. WNVA 1350 Norwalk, Conn. WNLK 1350 Norwalk, Conn. WLKR 1810 Norwich, Conn. WICH 1810 Norwich, N.Y. WCHN 970	Panama City Beh., Fla.
Montpelier, Ida. KVSI 1450 Montpelier-Barre, Vt.	Newberry, Mich. WNBY 1450	Norwich, N.Y. WCHN 970 Oakdale, La. KREH 900 Oakes ND KDDR 1220	WGNE 1480 WSCM 1290 Panama City, Fla. WDLP 590
WSKI 1240 Montrose, Colo. KUBC 580 Montrose, Pa. WPEL 1250	Newberry, S.C. WKDK 1240 WKMG 1520 New Boston, Ohio WIOI 1010	Oak Gröve, La. KWCL 1280 Oak Hill, W. Va. WOAY 860	Paoli IN WUME 1560
Mooresville, N.C. WHIP 1350 I	New Boston, Tex. KNBO 1530 New Braunfels, Tex. KGNB 1420	KABL 960	Paradise, Cal. KEWQ 930 Paragouid AR KDRS 1490
Morehead, Ky. WMOR 1330 Morehead City, N.C.	New Britain, CT WRCQ 910 WRYM ,840	KDIA 1310 Oakland, Md. WMSG 1050 Oakland Park, Fla.	Paris AR KCCL 1460 Paris, III. WPRS 1440 Paris KY WBGR 1440
Morgan City, La. KMRC 1430 Morganfield, Ky. WMSK 1550	New Brunswick, N.J. WCTC 1450 Newburgh, N.Y. WGNY 1220	WEXY 1520 Oak Park, III. WOPA 1490	Paris, Tenn. WTPR 710 Paris, Tex. KPLT 1490
Morganton, N.C. WMNC 1430	Newburyport, Mass. WNBY 1470 New Castle, Ind. WCTW 1550	Oak Ridge, Tenn. WATO 1290 WOKI 1550	Parker, AZ KZUL 1380
Morgantown, KY WLBQ 1570 Morgantown, W.Va. WAJR 1440 WCLG 1300	New Castle, Pa. WBZT 1140 WKST 1280	Oberlin OH WOBL 1320 Ocala, Fla. WMOP 900 WTMC 1290	Parkersburg, WV WADC 1050 WPAR 1450 WKYG 1230
Morningside, MD WPGC 1580 Morriston AR KVOM 800 Morris, III. WGSJ 1550	Newcastle, Wyo. KASL 1240 New City, N.Y. WRKL 910 New Hayen, Conn. WAVZ 1300	Ocean City, Md. WETT 1590	Park Falls, Wis. WNBI 980 Park Rapids. Minn.
Morris, Minn. KMRS 1230	WELI 960 WNHC 1340	Ocean City, Somers Pt., N.J. WSLT 1520 Oceanside, Calif. KUDE 1320	Parma OH WSUM 1000
Morristown, N.J. WMTR 1250 Morristown, Tenn. WCRK 1150 WMTN 1300	New Iberia, La. KANE 1240	Ocilla, Ga. WSIZ 1380	Parsippany NJ WQTK 1310 Parsons, Kans. KLKC 1540 Parsons, Tenn. WTBP 1550
Morro Bay, Calif. KBAI 1150 Morton, Tex, KRAN 1280 Moscow, Idaho KRPL 1400	New Kensington, Pa. WKPA 1150	Odessa TX KBZB 920 KOZA 1230	Pasadena, Cal. KPPC 1240 KIGI 1110
Moses Lake, Wash. KSEM 1470 KWIQ 1260	Newland, NC WJTP 1130 New London, Conn. WNLC 1510 New Martinsville, W.Va.	KOYL 1310 KRIG 1410 Celwein, Inwa KOEL 950	Pasadena, Tex. KWKW 1300
Moss Point MS WKKY 1460	WETZ 1330	Ogaliala, Nebr. KOGA 930 Ogden, Utah KLO 1430	Pascagoula-Moss Point, Miss. WPMP 1580
Moulton, Ala. WHIY 1530 Moultrie, Ga. WMGA 1130 WMTM 1300	Newnan, Ga. WCOH 1400 WNEA 1300 New Orleans LA WGSO 1280	KANN 1090 KSVN 730	Paseo, Wash. KORD 910 Pase Robies, Calif. KPRL 1230 Pastilio, P.R. WCGB 1050
Moundsville, W.Va. WEIF 1370 Mountain City, Tenn. WMCT 1390	WNNR 990 WBOK 1230	Ondershurg NV WSIR 1408	Patchogue, L.I., N.Y. WALK 1370
Mountain Grove, Mo. KLRS 1360 Mountain Home AR KTLO 1240	WNOE 1060 WSMB 1350 WWIW 1450	Okasahahaa Ela WOKC 1570	Peterson N I WPAT 930
Mountain Home, Ida. KFLI 1240 Mountlake Terr., WA	WSH0 800 WTIX 690	Okla. City, Okla. KBYE 890 KLPR 1140 KOCY 1340 KOMA 1520	Pauls Valley, Okia. KVLH 1470 Pawhuska, OK KOKN 1500
KAAR 1510 Mt. Airy, N.C. WPAQ 740	WWL 870 WVOG 600 WYLD 940	KTOK 1000	Pawtucket RI WGNG 550 Payette, Ida. KYET 1450 Pearsall, Tex. KVWG 1280
WSYD 1300 Mt. Carmel, III. WYER 1360	Newport AR KNBY 1280 Newport, Ky. WNOP 740	KQCV 800 WKY 930 Okmulgee, Okia. KOKL 1240	Pecos, lex. KIUN 1400 Peckskill, N.Y. WLNA 1420
Mt. Clemens, Mien.	Newport, N.H. WCNL 1010 Newport, Oreg. KNPT 1310	Okmulgee, Okia. KOKL 1240 Old Saybrook, Conn. WLIS 1420 Olean, N.Y. WMNS 1360 WHDL 1450	Peli City AL WFHK 1430
Mt. Dora, FL WGTW 1580 Mt. Holly, N.J. WJJZ 1460	Newport, R.I. WADK 1540 Newport, Tenn. WLIK 1270 WNPC 1060	Oiney, III. WVLN 740 Olympia, Wash. KGY 1240	Pendleton, Oreg. KTIX 1240 KUMA 1290 Pennington Gap, Va.
Mt. Jackson, Va. WSIG 790 Mt. Kisco, N.Y. WVIP 1310 Mt. Olive, N.C. WDJS 1430	Newport, Vt. WIKE 1490 Newport News, Va. WGH 1310 Newport News, VA WOKT 1270	Omaha, Neb. KYNN 1490	Pensacola, Fla. WSWV 1570
Mt. Pleasant, IA KKSI 1130 Mt. Pleasant. Mich. WCEN 1150	Newport News, VA WOKT 1270 WTID 1270	KFAB 1110 KOIL 1290 KOOO 1420	WBSR 1450 WHYM 610 WNVY 1230
Mt. Pleasant, Tex. KIMP 960 Mt. Shasta, Calif. KWSD 620	Newport Richey, Fla. WGUL 1500	KOWH 660 WOW 590	WCOA 1370 WPFA 790
Mt. Sterling, Ky. WMST 1150 Mt. Vernon, III. WMIX 940 Mt. Vernon, Ind. WPCO 1590	New Prague, Minn. KCHK 1350 New Richmond, Wis. WIXK 1590	Omak, Wash. KOMW 680 Onelda, N.Y. WMCR 1600 Onelda, Tenn. WBNT 1310	Penuelas, PR WENA 1330 Peoria, III. WXCL 1350
Mt. Vernon, Ky. WRVK 1460 Mt. Vernon, Ohio WMVO 1300	New Roads Is KWRG ISON I	O'Neill, Nebr. KBRX 1350 Oneonta AL WCRL 1570 Oneonta, N.Y. WD08 730	WMBD 1470 WIRL 1290 WPEO 1020
KBKC 1430 I	New Rochells, N.Y. WVOX 1460 New Smyrna Beach, Fla. WSBB 1230 WCCZ 1550	Ontario CA KNSE 1510	Perry FL WGKR 1310 WPRY 1400
Muleshoe, Tex. KMUL 1380 Multins, S.C. WJAY 1280 Muncie, Ind. WLBC 1340	Newton lowe KCOR 1280 1	KSOM 1510 Ontario, Oreg. KSRV 1380 Opelika AL WAOA 1520	Perry, Ga. WPGA 980 Perry, Iowa KDLS 1310
WERK 990 WIBC 1070	Newton, Mass, WNTN 1550 Newton, Miss, WBKN 1410	Opelousas, La. KSLO 1230	Perryton, Tex. KEYE 1400 Peru. Ind. WARU 1600 Petaluma, Calif. KTOB 1490
Munfordville, Ky. WLOC 1150 Munising MI WQXD 1400 Murfreesborg, N. C.	Newton, Miss. WBKN 1410 Newton, Miss. WBKN 1410 Newton, N.J. WBKN 1360 New Ulm, Minn. KNU 800 New York, N.Y. WABO 270	Opp AL WAMI 860 Opportunity, Wash. KZUN 630 Orange, Mass. WCAT 1390	I Dotarhorough N U
Munising MI WQXD 1400 Murfreesboro, N. C. WWDR 1080 Murfreesboro, Tenn. WGNS 1450	New York, N.Y. WABC 770 WADO 1280	Orange Tex KOGT (600	Petersburg, Va. WSCV 1050 Petersburg, Va. WSSV 1240 Petosi, Mo. KYRO 1280 Petoskey, Mich, WMBN 1340
Murfreesboro, Tenn. WGNS 1450 WMTS 810 Murphy, N.C. WCVP 600	WBNX 1380 WCBS 880	Orange, Va. WJMA 1340 Orangeburg, S.C. WDIX 1150 WORG 1580 WTND 920	WIMI IIIO
WKRK 1320 Murphysboro, III. WINI 1420 Murray, Ky. WNBS 1340	Newton, Kans. KJRG 980 Newton, Mass. WHTN 1550 Newton, Miss. WHTN 1550 Newton, Miss. WHTN 1550 Newton, N.J. WNNJ 1360 Newton, N.J. WNNJ 1360 New York, N.Y. WADO 1280 WBNX 1380 WCBS 880 WCWD 1330 WHN 1050 WJIT 1480 WINS 1010 WLIB 1190 WMCA 570 WMCA 570 WMCA 570 WNEW 1300 WNYC 830 WNYC 830 WNYC 830 WNYC 830 WNYC 830 WNYC 830 WNOR 11560	Orange Park, Fla. WAYH 550	Phenix City, Ala. WPNX 1460 Philadelphia, Miss. WHOC 1460 Philadelphia, Pa. KYW 1060 WCAU 1210 WDAS 1480
Murray, Utah KPRQ 1230 Muscatine, Iowa KWPC 860	WINS 1010 WLIB 1190	Orange Park, Fla. WAYR 550 Ord, Neb. KRLV 1080 Oregan City, Ore. KYXI 1520 Orlando, Fla. WAS 1520 WHOO 990 WORL 1270 WLOF 950 WKLS 740 Orleans, Mass. WYLC 1170 Orleans, Mass. WYLC 1170	WCAU 1210 WDAS 1480
Muscle Shoals AL WLAY 1450 Muskegon, Mich. WKBZ 850 WTRU 1600	WMCA 570 WNBC 660 WNFW 1130	WHOU 190 WORL 1270 WLOF 950	WF1L 569 WFLN 900 WHAT 1340
WMUS 1090 Muskegon Heights, Mich.	WNYC 830 WOR 710	WKIS 740 Orleans, Mass. WVLC 1170	WZZD 990 WiP 610
WKJR 1520 Muskogee, Okla. KBIX 1490 KMUS 1380	WPOW 1330 WQXR 1560 WWRL 1600	Orocovis. PR WKCK 1470	
I MYTTIA HAACH S.C. WMYB 1450 I	Niagara Falls, N.Y. WHLD 1270 WJJL 1440 Nicholāsyille, Ky. WNVL 1250		Philipsburg, Pa. WPHB 1260 Philipsburg, KS KKAN 1490
WTGR 1520 Nacogdoches, Tex. KEEE 1230 KSFA 860		Orroyllie CA KORV 1340 Ortonville, Minn. KD10 1350 Osage Beh., Mo. KPMS 1150 Osseola AR KOSE 660 Oshkosh, Wis. WAGO 690 WYTL 1490 Oskaloosa, lowa KBDE 740 Oswego, N.Y. WSGO 1440 Othell Wash KPSC 1400	Phoenix AZ KIFN 860 KASA 1540
KSFA 860 Nampa, Idaho KFXD 580 KAIN 1340 Nanticoke, Pa. WNAK 730	I Noblesville. Ind. WHYI 1110	Oshkosh, Wis. WAGO 690 WYTL 1490	KAEG 1010 KPHX 1480 KHEP 1280
Napa, Calif. KVON 1440 Napies, Fla. WNOG 1270		Oswego, N.Y. WSGO 1440 Othello Wash. KRSC 1440	KMEO 740 KOY 550
Narrows-Pearlsburg, Va. WNRV 990	Norfolk, MA WIMQ 1780 Norfolk, Nebr. WIMQ 1780 Norfolk, Va. WIAG 780 WTAS 780 WCMS 1050	Oskaloosa, lowa KBOE 740 Oswego, N.Y. WSGO 1440 Othello, Wash. KRSC 1400 Ottsego, Mich. WAOP 980 Ottawa, III. WCMY 1430 Ottawa, Kans. KOFO 1220 Ottuwa, IOwa KBIZ 1240	Phoenix AZ KIFN 0600 KASA 1540 KXEG 1010 KYHEN 1480 KHEP 1280 KMEY 7550 KOOL 5660 KIJ 9610 KRIZ 1230 KTAR 620
Nashua, N.H. WOTW 900 WSMN 1590 Nashville AR KBHC 1260		Ottumwa, Iowa KBJZ 1240 KLEE 1480	KTAR 620 KTAR 620 KXIV 1400
Nashua, N.H. WUTW 900 Nashville AR KBHC 1260 Nashville, Ga. WNGA 1240 WLAC 1510 WMAK 1300 WNAH 1360 WSIX ORD	WRAP 850 WZAM 1110	Owatonna, Minn. KRFO 1390 Owego, N.Y. WEBO 1330	Phoenixville PA WYIS 690 Pleayune, Miss. WRJW 1320 Pickens, SC WTGF 1540
WLAC 1510 WMAK 1300	Normal IL WRBA 1440 Norman, Okla, WNAD 640		Pickens, SC WTGF 1540 Pledmont AL WPID 1280 Piedmont, Mo. KPWB 1140 Pierre, S.D. KGFX 1060
WSIX 980 WSM 650	KNOR 1400 Norristown, Pa. WNAR 1110 N. Adams, Mass. WMNB 1230	Owosso, Mich. WOAP 1080 Oxford, Miss. WSUH 1420 Oxford NC WCBQ 1340	Pierre, S.D. KGFX 1060 KCCR 1240
WSM 650 WWGM 1560 WWGM 1560 Natchez, Miss. WMIS (240	N. Atlanta, Ga. WKNG 680 N. Augusta, S.C. WGUS 1380	Uxnard, Calif. KUAR 910	Pikeville, Ky. WLSI 900 WPKE 1240
Natchitoches, La. KNOC 1450	WFNL 1600 N. Bend, Ore. KBBR 1340	WAYD 1190 Ozark AR KZRK 1540 Paducah, Ky. WDXR 1560	Pikesville, TN WPKE 1240 Pikesville, TN WUAT 1110 Pine Bluff AR KCLA 1400 KADL 1270
Natick, MA KGTR 1060 Naugatuck, Conn. WOWW 1380 Navasota, Tex. KWBC 1550 Nebraska City, Nebr	North Charleston, S.C. WNCG 910 Northampton, Mass.	WKYX 570 WPAD 1450	KOTN 1490 KCAT 1340
Nebraska City, Nebr. KNCY 1600	North East. Pa. WHYP 1530	Page AZ KPGE 1340 Pageland, SC WCPL 1510	Pine Castle-Sky Lake FL
		*	Carrier Maria 1

					U.S.	AIVI 5	I A HONS	BY LOCA	ATION
Location	Call	kHz	Location	Call kHz	Lo	cation .	Call kHz	Location	Call kHz
	WHHL	- 1190		WEGP 13un	R.	igeorest, Cal.	KI 04 1240	St. Joseph, Mo.	KFEQ 680
Pine City, Minn. Pineilas Park, Fla.	WCMP	1350	Preston, Idaho Preston, Minn.	WEGP 1390 KPST 1340 KFIL 1060		igefield,CT	KLOA 1240 KZIQ 1360 WVFR 850	эт. зовери, мо.	KKJO 1550 KUSN 1270
Pineville, Ky. Pineville, LA	WAND	1230	Prestonsburg, Ky.	WPRT 980 WDOC (310	I Rie	loeland. S.C.	WBUG 1430 1	St. Louis MI St. Louis, Mo.	WMLM 1540
Pineville, W.Va. Pipestone, Minn.	WWY0 KLOH WPTW	1 970 !	Price, Utah Prichard AL	KOAL 1230 WKSI 1270	Ric	le, Colo. Pledras, P.R. pley, Miss.	WUNO 1320 WSCA 1260		KMOX 1120 KSD 550
Piqua, Ohio Pittsburg, Calif. Pittsburg, Kans.	KKIS	3 9 90	Princeton, III. Princeton, Ind.	WZOE 1490 WRAY 1250 WPKY 1580	RI	piey, Miss. piey, Tenn. pon, Wis. ver Falls, Wis.	WTRB 1576 WCWC 1600		KTSL 690 KWK 920
Pittsburg, Kans.	KOAM	7 1946	Princeton, Ky. Princeton, Minn.	WGPM 1300	Riv	rer Falls, Wis. rerhead, N.Y.	WEVR 1550 WRIV 1390		KXOK 630 WEW 770 WIL 1430
Pittsburge, Pa.	WAMO WEPQ WATAE	1020	Princeton WV	WHWH 1350 WAEY 1490	RI	verside, CA	WRCN 1570 KPRO 1440		KXEN 1010
	WKPQ	1320	Prineville, Oreg. Prosser, Wash. Prichard AL	KRCO 690 KARY 1310	Ri	verton, Wyo.	KHNY 1870 KVOW 1450	St. Louis Park, Mil	KRSI 950
	WEEP	1257	Providence, R.I.	WKSJ 1270 WEAN 790 WHIM 1110	Ri	viera Beach FL anoke AL	WPOM 1600	St. Maries ID St. Mary's, Pa.	KOFE 1480 WKBI 1400
Pittsfield, III.	wwsw	/ 970 l		WHIM 1110 WICE 1290 WJAR 920	Ro	anoke, Va.	WFIR 960 WRIS 1410	St. Matthews, SC St. Paul MN (see	WQKI 710 Minneapolis-
Pittsfield, Mass.	WBBA WBEC WBRK	(1340		WLKW 990 WPRO 630	1		WTOY 910 WROV 1240	St. Paul MN) St. Pauls NC	WLAB 1060
Pittston, PA Plainfield, N.J.	WGRG	0 1540 I	Prove, Utah	WRIB 1220 KIXX 1400	Ro	апоке Rapids, N	WSLC 610	St. Peter, Minn. St. Petersburg, Fla.	KRBI 1310 WWBA 680
Plainview, Tex.	WERA	1400		KFTN 1400 KEYY 1450	Ro	aring Springs, P	A. WKMC 1370	St. Peterside Beach	WLCY 1380
Plant City, Fla. Platteville, Wis.	KKYN WPLA WSWW	910	Proce Ohio	KOVO 960 KAYK 960	Ro Ro	binson, III. bstown TX	WTAY 1570 KROB 1510	Salamanca, N.Y.	WRXB 1590 WGG0 1590
Plattsburg, N.Y.	WEAV	/ 9 6 0	Pryor, Okia. Puebio, Colo.	KOLS 1570 KDZA 1230 KAPI 690] Ro	chelle. III. chester, Minn.	WRHL 1060	Salem, III. Salem, Ind.	WJBD 1350 WSLM 1220
Plattsmouth, Neb.	WKDR	R 1070 D 1000		KAPI 690 KCSJ 590 KFEL 970	1		KROC 1340 KWEB 1270 KKEE 1520 WWNH 930	Salem, Mass. Salem, Mo.	WESX 1230 KSMO 1340
Plattsmouth, Neb. Pleasanton, Tex. Pleasantville, N.J.	WOND	1380		KIDN 1400 KPUR 1480	Ro Ro	cnester, N.Y.	WBBF 950	Salem NH Salem, N.J.	WANH 1110
Pivmouth Ind	WPLM	1 1050 1 1390	Pulaski, Tenn. Pulaski, Va.	WKSR 1420 WPUV 1580		•	WHAM 1180 WWWG 1460	Salem, O. Salem, Oreg.	WSOM 800 KSLM 1390
Plymouth, Mass. Plymouth, N.C. Plymouth, N.H.	WPLM WPNH WPLY KPOC	1300	Pullman, Wash.	WBLB 1510 KWSU 1250			WNYR 680 WSAY 1370 WROC 1280		KCCS 1220 KBZY 1490
Plymouth, Wis. Pocahontas AR Pocatello, Idaho	KP00 KSEI	1420 1420 1 930	Punta Gorda, Fla.	KPUL 1150 WCCF 1580	, Ro	ckford, 111.	WROK 1440 WYFE 1150	Salem VA Salida, Colo.	KGAY 1480 WUEZ 1480 KVRH 1340
· viatorio, Tauro	KWIK	1240	Punxsutawney, Pa. Putnam, Conn. Puvallus WA	WCCF 1580 WPME 1540 WINY 1350 KUPY 1450	Ro	ckford, Mich.	WRRE 1330 WJPW 810	Salina, Kans.	KSAL 1150 KFRM 550
Pocomoke City, Md. Polson, MT	WDMV KERF KWOW	7 540	Quanah, Tex.	KOLJ 1150 WPWC 1530	Ro	ck Hills, S.C.	WRHI 1340 WTYC 1150	Salinas, Callf.	KINA 910 KDON 1460
Pomona, Calif.	KWOW	1600	Puyallup, Conn. Puyallup, WA Quanah. Tex. Quantleo, VA Quincy, Cal. Quincy, Fla. Quincy, III,	KPC0 1370 WCNH 1230	}	ckingham, N.C.	WLWL 1500		KTUM 1380 KYWT 1570
Pompton, Lakes, N	WKER	1500		WGEM 1440 WTAD 930	Ro	ck Island, III. ckland, ME ckmart, Ga,	WHBF 1270 WRKD 1450		KCTY 980 KXES 1570
	WRBD	1470	Quincy, Mass. Quincy, WA	WJDA 1300 KWNC 1370 WSFB 1490	1 80	EK Springs. WY	WPLK 1220 KRKK 1360	Salinas, P.R. Saline, Mich.	WHOY 1210 WNRS 1290
Ponca, City, Okia. Ponce, P.R.	WBBZ	, 810	Quitman, Ga. Quitman, Miss.	WBFN 1500	L Ro	ckville, Md. ckwood, Tenn.	WRKV 800 WINX 1600 WOFE 580	Salisbur y, Md.	WBOC 960 WICO 1320 WJDY 1470
	WPAB	t 550 l	Racine, WI	WRKR 1460 WRJN 1400	Ro	cky Ford, Colo.	KAVI 1320 WCEC 810	Sallsbury, N.C.	WJDY 1470 WSTP 1490 WSAT 1280
4	WLEG	3 1260 I	Radford, Va. Raeford, N.C.	WRAD 1460 WSHB 1400	"		WEED 1390 WRMT 1490	Sallisaw, Okla.	KBJS 1510 KRBB 1560
Pontiac, III. Pontiac, Mich.	WZBS WPOK WPON	1460 I	Rainelle, WV Rainsville AL Raieigh, N.C.	WRRL 1130 WVSM 1500 WKIX 850		sky Mount, Va.	WYTI 1570 WNLB 1290	Salmon, Idaho Sait Lake City, Ut	KSRA 960
Pontotoc, Miss. Pooli, Ind.	WSEL	1440 1560	marerym, M.O.	WYNA 1550 WPTF 680	Ro	gers AR gers City, Mich.	WHAK 960	1	KALL 910 KCPX 1320
Popiar Biuff, Mo.	KWOC	930	Rails, Tex.	WPJL 1240 KCLR 1530	Ro	persville, Tenn. Ila, Mo,	WRGS 1370 KCLU 1590		KLUB 570 KNAK 1280
Poplarville, Miss. Portage MI	WRPM	1530 1560	Rantoul, III.	WRTL 1460 WCVR 1320	Ro	me, Ga.	KTTR 1490 WLAQ 1410 WIYN 1360	Salt Lake City, UT	KRSP 1060 KRGO 1550
	WRML	1350	Rapid City, S.Dak.	KIMM 1150	ì		WRGA 14/0		KSL 1160 KSOP 1370 KSXX 630
Portage, Wis. Portageville, Mo. Portales, N. Mex.	KENM	1 1450 I	Paten N May	KTOQ 1340 KKLS 920		me, N.Y.	WKAL 1450 WRNY 1350		KWHO 860 KWMS 1280
Port Angeles, Wash, Port Arthur TX	KONP	1450 1340	Raton, N.Mex. Ravenswood, W.Va. Rawline Wvo	KRTN 1490 WMOV 1360 KRAL 1240	Ro	nceverte, WV osevelt, UT	WRON 1400 KNEU 1250	San Angelo, Tex.	KTEO 1340 KGKL 960
TOTE ALGINE TA	KPAC KYKR KTIP	1250 1510	Rawlins, Wyo. Raymond, Wash. Raymondville, Tex.	KAPA 1340 KSOX 1240 KRIH 990	Ros Ros	seau, Minn. sebur g, Oreg.	KRWB 1410 KRNR 1490		KPEP 1420 KIXY 1260
Porterville, Calif. Port Gibson, MS	WKPG	3 1320	Rayville, La. Reading, Pa.	WEEU 850	ł		KQEN 1240 KRXL 1250 KYES 950	San Antonio, Tex.	KAPE 1480 KKYX 680
Port Hueneme, Calif	WPGF KACY	1520 1520		WHUM 1240 WRAW 1340	Ros	se Hill, N.C. senberg, Tex.	KYES 950 WEGG 710 KFRD 960		KQAM 1150 KBUC 1310 KCOR 1350
Port Hueneme, Calif Port Huron, Mich. Port Jervis, N.Y.	WPHM	1380	Redding, Calif.	WRMG 1430 KRDG 1230 KCLM 1330	l Ros	seville, Cal.	KPOP IIIO		KEDA 1540 KUKA 1250
PORT LAVACA, I ex.				KQMS 1400 KSXO 600	Ros	swell, N.Mex.	WRIP 980 KRSY 1230 KRDD 1320		KMAC 630 KONO 860
Portland, IN Portland, Maine	WPGW WCSH WGAN	560 I	Red Bluff, Calif.	KVIP 540	P.,	where N.C.	KBIM 910 KBCQ 1020	Can Danzandina Ca	KTSA 550 WOAI 1200
Portland C	WLOB		Red Bluff, Callf, Redfleid, SD Redlands, Callf, Red Lion, Pa. Red Lodge, Mont. Red Dak, Iowa Red Springs, N.C. Red Wing, Minn. Reddwod Falls, MI, Reedsburg, Wis.	KFCB 1380 KCAL 1410	1 Roy	kboro, N.C. /al Oak, Mich. /ston. Ga.	KBCQ 1020 WRXO 1430 WEXL 1340 WBLW 810 KGCA 1450	San Bernardino, Ca	KCKC 1350 KFXM 590
Portland, Oreg.	KBPS	1290	Red Lodge, Mont.	KRBN 1450	Ru Ru	/ston, Ga. gby, N.Dak. Idoso. N.M	KGCA 1450 KRRR 1360		KBON 1240
	KLIQ KEX KGW KKEY KOIN	620 1150	Red Oak, Iowa Red Springs, N.C.	KOAK 1080 WYRU IXIO	Ru Ru		KRRR 1360 WRUM 790 KAYT 970 KRUS 1490	Sandersville, Ga. San Olego, Calif.	WSNT 1490 KCBQ 1170
	KOIN	970 1 1410	Red Wing, Minn. Redwood Falls, Mi.	KCUE 1250 KLGR 1490	Ru:	snton, La. sk. Texas	KTLU 1580		KFMB 760 KOGO 600 KGB 1360
	KPAM KDPQ KUPI	L 1330 I	Reedsburg, Wis. Reedsport, Ore. Reidsville GA	KDBN 1470	Ru	sseliville AL Y	KRSL 990 YWWR 920		KSON 1240 KSDO 1130
Port Neches, TX	KWJJ	750	Reidsville GA Reidsville, N.C.	WTNL 1390 WFRC 1600	I Rus	sseliville AR	WKAX 1500 KARV 1490 WRUS 610	San German, PR Sandpoint, Idaho	WB0Z 1090
Port St. Joe, Fla. Portsmouth, N.H.	KXL KSUZ WJOE WBBX		Remsen, N.Y. Reno, Nev.	WREV 1220 WADR 1480 KOH 630			WRUS 610 WHWB 1000 WSYB 1380	Sand Spring, Okla. Sandusky, Mich.	KTOW 1340 WMIC 1560 WLEC 1450
Portsmouth, Ohlo	WHEB WPAY WNXT	750 (400	, 1001,	KBET 1340 KCRL 780 KOBY 1550	1	therfordton, N.C.		Sandusky, Ohlo Sandy Creek-Pulask	I, NY
Portsmouth, VA	WNXT WPCE WHNE	1260 1400		KOBY 1550 KOLO 920	Sac	ramento CA	WCAB 590 KGNR 1320 KFBK 1530 KGMS 1380 KJAY 1430 KRAK 1140		WSCP 1070
	WHNE WPMH KAGY	1350	Danascia	KOLO 920 KONE 1450 KCBN 1230			KJAY 1430 KRAK 1140	San Fernando, Calif Sanford, Fla.	WTRR 1400 WSFR 1300
Port Sulphur LA Port Washington, \	KAGY Vis. WGLB		Rensselaer, IN Rensselaer, N.Y. Rexburg, Idaho Rhinelander, Wis. Rice Lake, Wis. Ridgefield, CT	WRIN 1560 WQBK 1300 KRXK 1230 WOBT 1240			KNDF 1470	Sanford, Me. Sanford, N.C.	WSME 1220 WEYE 1290 WWGP 1050
Post, Tex. Poteau, Okla.	KP08	1370	Rhinelander, Wis. Rice Lake, Wis.		1	ford, Artz.	KGLU 1480 KATO 1230 WLNG 1600	San Francisco, CA	KFRC 610 KCBS 740
Post, Tex. Poteau, Okla. Potomac-Cabin John Potosi. Mo.	WCTN	1300	Ridgefield, CT Richfield MN	WYFR 850 WYOO 980	Sag Sag	Harbor, N.Y. inaw, Mich.	WKNX 1210		KFRC 610 KCBS 740 KFAX 1100 KGO 610 KNBR 680
Potsdam, N.Y.	WPDM	1470	Richfield MN Richfield, Utah Richland, Wash, Richland Center, V	KSVC 980 Kale 960	1	1	WSGW 790 1		KKHI 1990
Pottstown, Pa. Pottsville, Pa.	WPAZ WPAM WPPA	1370 1	Richlands Venter, V		St.	Albans, Vt. V Albans, W.Va. Anthony, Ida.	WWSR 1420 WKLC 1300 KIGO 1400		KIQI 1010 KSFO 560
Poughkeepsie, N.Y.	WEOK	1390 1	Richlands, Va. Richmond, Ind. Richmond, Ky.	WRC0 1450 WRIC 540 WKBV 1490 WEKY 1340	St.	Augustine, Fla.	WFOY 1240 WAOC 1420	San Gabriel, Cal.	KSF0 560 KEST 1450 KYA 1260 KALI 1430
Powell, Wyo. Poynette, Wis.	WKIP KPOW WIBU	12 6 0	Rishmond Va	WANT COO	St.	Charles, Mo. Cloud, MN	KIRL 1460 KCLD 1450	San German, P.R.	WB0Z 1090 WSAO 1550
Praire du Chien, V	VIS. WPRE	980		WBBL 1480 WK1E 1540 WLEE 1480 WEET 1320 WGOE 1590	6+	George S.C	WJON 1240	Sanitobia, Miss. San Jose, Calif.	KLOK 1170 KLIV 1890
Pratt KS	KWLS	1290		WLEE 1480 WEET 1320	St.	George, UT Helens, Oreg.	KDXU 1450 KOHI 1600	0 1	KEWN 1370 0
Prescott AZ	KYCA	1490		WGOE 1590 WTVR 1380 WRNL 910 WRVA 1140	St.	Johns, Mich.	WRBJ 1580	San Juan, P.R.	KXRX 1500 WAPA 680 WBMJ 1190
Presentt AR	WKPO KYCA KENT KNOT KTPA	1450 1870		WRVA 1140 WXGI 950	St.	Joseph, Mich. Joseph-Ranton	WSJM 1400		WHOA 870 WIAC 740 WIPR 940
Presque, Isie, Me.	WAGM	950	Richwood, W.Va.	WVAR 600	M	George, UT Helens, Oreg. Ignace, Mich. Johns, Mich. Johnsbury, Vt. V Joseph, Mich. Joseph-Benton H lich.	WHFB 1060	•	WQII 1140

U.S. AIVI	SIAIIO	NS, BT LOCATIO		
Location	Call kHz	Location Call kHz	Location Call kHz	Location Call kHz
	WKAQ 580	Shippensburg, Pa. WSHP 148	Stamford, Tex. KDWT 1400	Thomasville AL WJDB 630
1.	WKVM 810 W0S0 1030	Show Low, AZ KVSL 145 KVWM 97	Stamford, Tex. KDWT 1400 Stanford, Ky. WRSL 1520 Stanford, KY. WBFC 1470 Starke, Fla. WPXE 1480 Starkville, Miss. WFXE 1480 Starkville, Miss. WKOR 950	I Thomasvilla Ga WPAX 1240 I
San Luis Ohisao	WRAI 1520	Shreveport, La. KBCL 122 KEEL 71 KOKA 155 KJOE 148	Starkville, Miss. WKOR 980	WLDR 730 Thomasville, N.C. WTNC 790 Thomson, Ga. WTWA 1240
San Luis Obispo,	KÄTY 1340 KSLY 1400	KJOE 148 KGII 98	0 State College, Pa. WMAJ 1450 0 WRSC 1390 0 Statesboro, Ga. WWNS 1240	
San Marcos, TX	KVEC 920 KONY 1470	KCIJ 98 KRMD 134 KWKH 113	ก เ พาเหลอบ	Thousand Oaks CA KGDE 850 Three Rivers, Mich. WKLM 1510 Thurmont, Md. WTHU 1450 Ticonderoga, N.Y. WIPS 1250
San Marcos, TX San Mateo, Calif. San Rafael, CA	KONY 1470 KOFY 1050 KTIM 1510	KFLO 130	O Statesville, N.C. WSIC 1400	Thurmont, Md. WTHU 1450 Tleonderoga, N.Y. WIPS 1250
San Saba, 1ex.	B KRAL 1410	Sidney, Mont. KGCX 148 Sidney, Nebr. KSID 134 Sidney, O. WMVR 108 Sierra Vista AZ KTAN 142	0 Staunton, Va. WTON 1240 WKDW 900	Tiffin, Ohio WTTF 1600 Tifton, Ga. WTIF 1340 WWGS 1430
Santa Ana, Calif. Santa Barbara, Ca	KWIZ 1480	Sikeston, Mo. KSIM 140	0 Steamboat Springs, CO KBCR 1230	1 WW68 1430 I
Santa Barbara, Ca	KTYD 990	KMPL 137 Siloam Springs AR KUOA 127 Siloam Springs AR KUOA 128 Silsbee, Tex. KKAS 130 Silver City, N.Mex. KSIL 134 Silver Spring MD WGAY 103 Simcoc, Ont. CFRS 156 Sinton, Tex. KIKN 139 Sioux Center, Iowa KVDB 109 Sioux City, Iowa KNS 82 KMNS 82	Stephenville, Tex. KSTV 1510 Sterling, Colo. KSTC 1230 O Sterling, III. WSDR 1240 Steubenville, Ohio WSTV 1340	Tillamook, Oreg. KTIL 1590 Tloga, N.D. KTGO 1090 Titusville, FL WRMF 1060 Titusville, Pa. WTIV 1230
	KIST 1340 KTMS 1250 KKIO 1290	Silsbee, Tex. KKAS 130	0 Sterling, III. WSDR 1240 0 Steubenville, Ohlo WSTV 1340 WLIT 950	
Santa Calra, CA Santa Cruz, Calif.	. KSCO 1080	Silver Spring MD WGAY 105 Simons Out CFRS 156	Stevens Point, Wis, WXVQ 1010 Stillwater, Minn. WAVN 1220 Stillwater, Okla. KSPI 780	Toledo, Ohlo WOHO 1470 WSPD 1370
Sante Fe, N.Mex.		Sinton, Tex. KIKN 159 Sigux Center, lowa KVDB 109	0 Stillwater, Okla. KSPI 780 0 Stirling, NJ WKMB 1970	WTOD 1560 WCWA 1230
Santa Marla, Cal.	KVSF 1260 KUHL 1440	Sioux City, Iowa KSCJ 136 KMNS 62	0 Stockton, Calif. KJOY 1280 0 KSTN 1420	WGOR 1520
	KSEE 1480	KWSL 147 Sloux Fails, S.Dak. KISD 123 KCHF 152	0 Storm Lake, Iowa KAYL 990 Streator, III. WIZZ 1250	Toledo, Oreg. KTDO 1230 Tolleson AZ KROS 1190 Tomah, Wis. WTMB 1460
Santa Monica, Cal Santa Paula, CA	I. KDAY 1580	KGHF 182 	Stroudsburg, Pa. WYPO 840	I Tomahawk WI WYYS SIO I
Santa Rosa, Calif.	. KSRO 1350 KVRE 1460	KS00 114 Sitka AK KIFW 123	0 Stuart, Fla. WSTU 1450 0 Stuart, Va. WHEO 1270	Thompkinsville, Ky. WTKY 1370 Toosle, Utah KDYL 990 Topeka, Kans, WIBW 580
Santa Paula, CA Santa Rosa, Calif. Santa Rosa, N.Me Sapulpa, Okla. Saranae Lake, N.Y Sarasota, Fla.	KJAX 1150 x. KSYX 1420	KSEW 140	Sturgeon Bay, Wis. WDOR 910 Sturgeon Bay, Wis. WDOR 910 Sturgis, Mich. WSTH 1230 Sturgis, S.D. KBHB 810	KEWI 1440 WRFN 1250
Sapulpa, Okla. Saranae Lake, N.Y	KREK 1550 V. WNBZ 1240	Skowhegan ME WSKW 115 Slaton, Tex. KCAS 105 Slidell LA WSDL 156	0 Sturgis, S.D. KBHB 810 0 Stuttgart, AR KWAK 1240 0 Suffolk, VA WF0G 1450 0 Sullivan, Ind. WKQV 1550	KTOP 1490 Toppenish, Wash. KENE 1490 Torrington CT WSNG 610
Sarasota, Fia.	WQSA 1220	Smithfield, N.C. WMPM 127 Smithfield, VA WEOO 94	0 Sullivan, Ind. WKQV 1550 0 Sullivan, Mo. KTUI 1560 0 Sulphur, LA KEZM 131	Toppenish, Wash. KENE 1490 Torrington CT WSNG 1490 Torrington, Wyo. KGOS 1490 Towanda, Pa. WTTC 1550 Towson, MD WTOW 1570
		Smithville, Tenn. WJLE 148 Smyrna, Ga. WYNX 155	0 Sulphur, LA KEZM 1317 0 Sulphur Sprgs., Tex. KSST 1230 0 Sumiton AL WRSM 1540	Towson, MD WTOW 1570 Travelers Rest, S.C.
Saratoga Springs, Sauk Rapids, Minn		Sindell A.C. WMPM 127 Smithfield, N.C. WMPM 127 Smithfield, VA WEOO 94 Smithville, Tenn. WJLE 148 Smyrna, Ga. WYNX 155 Snyder, Tex. KSNY 145 Socorro, N.Mex. KSRC 129 Sets Springs 146 WRPN 27	0 Sumiton AL WRSM 1540 0 Summerville, Ga. WGTA 950 0 Summerville, S.C. WAZS 980	I WRRR 1580 I
Sault Ste, Marie.	WVAL 800 Mich.	Caddy Dalay TN WDID 188	d dammer tillet, order til til	Traverse City, Mich. WTCM 1400 WCCW 1310 Trenton, Mo. KTTN 1600 Trenton NJ WTNJ 1300
Savannah GA		Somerset, Ky. WSFC 124	0 Sumter, S.C. WFIG 1290 WDXY 1240	Trenton NJ WTNJ 1300 WBUD 1260
	WEAS 900 WSAV 630	Soldyna AK KSRM 82 Somerset, Ky. WSFC 148 Somerset, Pa. WVSC 99 Somerville, N.J. WBRW 117 Soddy, Tenn. WEDG 124	0	WBUD 1260 WTTM 920 Trenton, Tenn. WTNE 1500
	WSAV 630 WSGA 1400 WTOC 1290	Soddy, Tenn. WEDG 124 Soddy-Dalsy TN WPJD 155 Sonora, Calif. KVML 145 Sonora, TX KVRN 98		Trinidad, Colo. KCRT 1240 Troy AL WTBF 970 Troy, N.Y. WHAZ 1330
Sayannah, Tenn.	WSOK 1230 WORM 1010 WATS 960	Sonora, Calif. KVML 145 Sonora, TX KVRN 98	0 0 WARA 5/0	Trov. N. C. WJRM 1390
Sayre, Pa. Scheneetady, N.Y. Scotland Neck, N.C Scott City, Kans. Scottshiuff, Nebr.	WATS 960 WGY 810 WWWD 1240	Soperton, GA WYOK 100 So. Beloit, III. WBEL 138 So. Bend, Ind. WNDU 149	o i Swainsboro, Ga. WJAI 800	Troy, N. C. WJRM 1390 Truckee, Cal. KTRT 1400 Truman AR KXRQ 1530 Truth or Consequences, New Mexico KCHS 1400 Tryon, N.C. WTYN 1550 Tueson AZ KTUC 1400 KXEW 1600
Scotland Neck, N.C Scott City, Kans. Scottsbluff, Nebr.	KFLA 1310	Nebt 198	Sweet Home, Ore. KFIR 1370	Truth or Consequences, New Mexico KCHS 1400
Occitobian, its	KOLT 1320	Southwest City, MO KCTE 114 Southbridge, Mass. WESO 97 So. Boston, Va. WHLF 140	Sweetwater, Tem. KXOX 1240 Sweetwater, Tex. KXOX 1240 Sylvening AL WFEB 1340	Tueson AZ KTUC 1400
Scottsbore AL	WCRI 1050 WROS 1330 KDOT 1440 WLCK 1250	So. Boston, Va. WHLF 140 Southern Pines, N.C. WEEB 99	0 WMLS 1290 0 Sylva, NC WRGC 680	KAIR 1490 KCEE 790
Scottsdale AZ Scottsville, Ky. Scranton, Pa.	WLCK 1250 WARM 590	South Charleston, WV	Sylvania, Ga. WSYL 1490 Sylvaster Ga. WOGA 1540	KXEW 1600 KAIR 1490 KGEE 790 KIKX 580 KCUB 1290
Stranton, 1 a.	WARM 590 - WEJL 630 WGBI 910	WSCW 141 8. Daytona, Fla. WELE 159 So. Gastonia, N.C. WGAS 142	0 Syracuse, N.Y. WHEN 620 WFBL 1390	KEVT 690 KMGX 940 KHYT 1330
	WGBI 910 WICK 1400 WSCR 1320 WSFD 1280	So. Gastonia, N.C. WGAS 142 So. Haven, Mich. WJOR 94 South Hill, Va. WJWS 137 Southington, Conn. WNTY 99 So. Knowilla Tenn WSKT 158	0 WNDR 1260 0 WOLF 1490	KTKT 990 I
Seaford, DE Searcy, AR	WSFD 1280 KWCK 1300	Court Lake Tobas Cal	Tocome Wesh KMO 1380	KOPO 1450 KUAT 1550 Tugumgari N May KTNM 1400
Searcy, AR Seaside, Ore. Seattle, Wash.	KWCK 1300 KSWB 930 KAYO 1150 KIXI 910	South Lake Tahoe, Cal. KOWL 149	0 KTAC 850	Tueumearl, N.Mex. KTNM 1400 Tulare, Calif. KCOK 1270 KGEN 1370 Tulia, Tex. KTUE 1260
	KING 1090	South Miami FL WNWS 79 South Paris, ME WXIV 145	0 KTNT 1400 0 KVI 570 0 Taft, Calif. KTKR 1310	Tulia, Tex. KTUE 1260 Tuliahoma, TN WBGY 740
	KJR 950 Kmps 1309	South Lane (ano), Cal. KOWL 149 KTHO 59 South Miami FL WNWS 79 South Paris, ME WXIV 145 So. Pittsburg, Tenn. WEPG 91 So. St. Paul, Minn. KDAN 137	Taft, Calif. KTKR 1310 Tahlequah, Okia. KTLQ 1350 Tahoe Valley, Calif.	Tulsa, Okia. KAKC 970 KXXO 1300
	KOMO 1000 KZOK 1590	KDWB 63 KDAN 137	Talladega AL WEYY 1580	KRMG 740 KELI 1430 KV00 1170
	KYAC 1250 KVI 570 KXA 770	So. Williamsport, Pa. WMPT 145 Spanish Fork, Utah KONI 148	n WONG 1410	Tupelo, Miss. WELO 580
Out-land File	KXA 770 KBLE 1050 WJCM 960	Sparks-Reno NV KWRL 127 Sparts III WHCO 123	0 WANM 1070 0 WTAL 1450	WJLJ 1060 WTUP 1490
Sebring, Fia. Sedalia, Mo.	WSEB 1840 KDRO 1490	Sparta, N.C. WCOK 106 Sparta, Tenn. WSMT 105	u j laliapoosa, GA WKNG 1959 🔪	I Turlock Calif KCFV 1390 I
	KS1S 1050 KAZM 1470	WUCR 86	Tallulah, La. KTLD 1360	Tuscaloosa AL WJRD 1150 WACT 1420 WNPT 1280
Sedona, AZ Seguin, Tex. Selinsgrove, Pa.	KWED 1580 WSEW 1240	Spartanburg, SC WKDY 140 WORD 91	0 WUAE 1250	WTÜG 790 WTBC 1230 Tuseumbla AL WVNA 1590
Selma AL	WAMA 1340 WHBB 1490 WTQX 1570 WBZB 1090	WSPA 95 WASC 153		Tuskegee AL WBIL 580
Seima, N.C. Selmer, Tenn.	WBZB 1090 WDTM 1130	Spencer, Iowa KICD 124	WING 1010	Twenty-Nine Palms, Calif.
Seminole, Tex. Senatohia, Miss.	KIKZ 1250 WSAO 1550	Spokane, Wash. KGA 151 KXXR 144 KSPO 123	00 WINQ 1010 100 WTMP 1150 10 WS0L 1300 10 Taos, N. Mex. KKIT 1340	Twin Fails, Idaho KTLC 1270 KLIX 1310
Seneca Falls, N.Y. Seneca Township,	S.G.		10 Tarboro N.C. WCPS 760	Two Rivers, Wis. WQTC 1590 Tyler, Tex. KZAK 1330
Sevierville, Tenn.	WSNW 1150 WSEV 930	KHQ 59 KJRB 79 KREM 97	'O I Taunton Mass. WPEP 1570	KDOK 1490 KTBB 600
Seward, AK Seymour, Ind. Seymour, Tex.	KRXA 950 WICD 1390 KSEY 1230	KREM 97 KXLY 92 KMBI 133	n Tavior Tex. KTAE 1260	Tylertown, Miss. WTYL 1290
Shakopee, Minn. Shallotte, N.C.	KSMM 1530 WVCB 1410	Springdale AR KBRS 134	Taylorsville NC W Q X Z 850	Tyrone, Pa. WTRN 1340 Uhrichsville, O. WBTC 1540
Shamokin, Pa. Shamrock, Tex.	WISL 1480 KBYP 1580	Springfield, III. WCVS 145 WMAY 97		Ukłah, Cał. KMSL 1250 KUKI 1400 Ulysses, Kan. KULY 1420
Sharon, Pa. Shawano: Wis.	WPIC 790 WTCH 960	WTAX 124	/U S LAZEWEIL VA. WIZE 14/U	Union, Mo. KLPW 1220 Union, S.C. WBCU 1460
Shawnee, Okla. Sheboygan, Wis.	KGFF 1450 WHBL 1330	I WMAS 145	100 KNIX 1580 70 Temple, Texas KTEM 1400	Union City, Tenn. WENK 1240
Shafffaid A1	WKTS 950 WSHF (290	WSPR 127 Springfield MO KBUG 106 KGBX 126	Temple, Texas KTEM 1400 10 Terre Haute, Ind. WBOW 1230 00 WAAC 1300 WTHI 1480	
Shelby, Mont. Shelby, N.C.	KSEN 1150 Wohs 730	KGBX 126 KICK 134 KLFJ 155	WTH 1480 50 Terrell, Tex. KTER 1570	WCCR 1580 Utica, N.Y. WIBX 950 WRUN 1550 WRUN 1550
Shelbyville, III.	WADA 1390 WSHY 1560 WSVL 1520	KTTS 146 KWT0 50	10 [Terrell Hills, Lex. KILE 930	Utuado P.R. WUPR 1530
Shelbyville, Ind. Shelbyville, Ky. Shelbyville, Tenn.	WCND 940	Springfeld-Fugene Ore.	00 KTFS 1400 Texarkana, Tex. KCMC 740	Uvalde, Tex. KVOU 1400 Valdese N.C. WSVM 1490
Sheldon, lowa	WHAL 1400 WLIJ 1580 KIWA 1550 WCSW 940	KEED 143 KORE 103	Texarkana, TX-AR KADO 940 Texas City, Tex. KTLW 920	Valdosta, Ga. WGOV 950 WGAF 910
Shell Lake, Wis. Shelton, Wash.	KMAS 1280	F Springfield, Lenn. WDBL 189		WJEM 1150 WVLD 1450
Shenandoah, Iowa	KMA 960 KFNF 920	l Spring Lake, N.C.	1 Inarmopolis, Wyo. KKIR 1490	Valentine, Nebr. KVSH 940 Vallejo, Calif. KNBA 1190 Valley City, N.Dak. KOVC 1490
Shenandoah, Pa. Sheridan, Wyo.	WMBT 1530 KWYO 1410 KROE 930	Spring Valley, N.Y. WGRC 130	Thief River Falls, Minn.	i Vainaraiso, Fia. WESH 1540
Sherman, TX	KIKM 910 KXTO 1500	Spruce Pine, N.C. WTOE 142 Stamford, Conn. WSTC 140	70 Thibodaux, La. KTIB 630	Valparaiso, Ind. WAKE 1500 WNWI 1080 Van Buren AR KAYR 1060
			,	COMMUNICATIONS WORLD 1

		U.S. AM STATION	S BY LOCATION
Location . Call kHz	Location Call kHz	Location Call kHz	Location Call kHz
Van Cleve, Ky. Vanceburg, Ky. Venura. Venice, Fla. Ventura. Ventur	WRC 980 WTOP 1500 WYCE 1344 WATOP 1500 WYCE 1340 WASHINGTON, IN. WLOV 1370 WASHINGTON, IN. WLOV 1370 WASHINGTON, IN. WCRV 1580 WASHINGTON, N.J. WCRV 1580 WASHINGTON, N.C. WEEW 1320 WASHINGTON, N.C. WEEW 1320 WASHINGTON, N.C. WEEK 1320 WASHINGTON, N.C. WITN 980 WASHINGTON, N.C. WEEK 1320 WASHINGTON, N.C. WCRV 1250 WASHINGTON, OWNER 1320 WATERDUTY, COMM. WATR 1320 WATERDUTY, COMM. WWOY 1240 WATERDUTY, COMM. WWWNY 1990 KKWM 1330 WATERDUTY, WATN 1240 WWNNY 1990 WAWNY 1320 WATERDUTY, LANGE 1440 WANT 1440 WANT 1440 WATT 1440 WAUKON, IA. WATR 1550 WATERDUTY, LANGE 1440 WAUKON, IA. WATR 1360 WAYNESDOTO, MASSAL, WATR 1440 WAUROSDOTO, MASSAL, WATR 1440 WAUNESDOTO, MASSAL, WATR 1440 WAUNESDOTO, MASSAL, WATR 1440 WAUNESDOTO, MASSAL, WATR 1360 WAYNESDOTO, MASSAL, WATR 1360 WAYNESDOTO, MASSAL, WATR 1460 WAYNESDOTO, MASSAL, WATR 1360 WAYNESDOTO, MASSAL, WATR 1360 WAYNESDOTO, MASSAL, WATR 1360 WAYNESDOTO, MASSAL, WARD 1360 WARNESDOTO, WARD 1360 WARNESDOTO, MASSAL, WARD 1360 WARNESDOTO, MASSAL, WAR	Location	Winder, Ga. WIMO 1300 Windermere, Fl. WVCF 1480 WIMO 1500 WIMO 1500 WIMO 1500 WIMO 1500 WIMO WIM
Warsaw IN WRSW 1480 Warsaw NY WCJW 1140 Warsaw, N.C. WTRQ 1560 Warsaw, Va, WNNT 890 Wartburg, Tenn. WECO 940 Warwick NY WTBQ 1110	WETC 540 Weslaco, Tex. KRGV 1290 West Allis, Wis. WAWA 1590 W. Bend, Wis. WBKV 1470 West Branch MI WBMB 1060 Westproak-Portland ME	WTUX 1296 Wilmington, N.C. WHFD 830 WHSL 1490 WKLM 980 WGNI 1340 Wilmington, OH WKFI 1099	WFMJ 1390 WGFT 1500 WKBN 570 Ypsilanti, Mich. WSDS 1480 WYFC 1520 Yroka. Calif. K8YC 1490
Warwick-E, Greenwich, R.J. WARY 1590 Waseca MN KOWO 1170 Wasco, Calif. KWSO 1050	WJBQ 1440 West Chester, Pa. WCHE 1520 West Covina, Cal. KGRB 900	Wilson, N.C. WGTM 590 WLLY 1350 WVOT 1420	Yuba City, Callf, KUBA 1600 KOBO 1450 Yuma AZ KAWC 1320
Washington, DC WFAN 1340 Washington, D.C. WMAL 630 WOL 1450	West Fargo ND KQWB 1550 Westfield MA WLDM 1570 W. Frankfort, III. WFRX 1300 W. Hartford, Conn.	Winchester, Ky. WWKY 1380 Winchester, Tenn. WCDT 1340 Winchester, Va. WINC 1400 WHPL 610	KVOÝ 1400 KBLU 560 Zanesville, Ohlo WHIZ 1240 Zephyrhills, Fla, WPAS 1400
WUST 1120 WWDC 1260	AM STATIONS	Windber, Pa. WWBR 1350	Zion, III. WZBN 1500
Call Location kHz	Call Location kHz	Call Location kHz	Call Location kHz
KAAA Kingman AZ 1230 KAAM Dallas TX 1310 KAAP Santa Paula, CA 1400 KAAR Mountlake Terr., WA 1510 KAAT Denver CO 1090 KAAY Uttle Rock AR 1090	KAHI Auburn, Calif. 950 KAHL North Platte, NB 1410 KAHU Waipahu, Hawaii 940 KAIM Honolulu, Hawaii 870 KAIN Nampa, Ida, 1340	KANS Larned, Kan. 1510 KAOH Duluth, Minn. 1390 KAOK Lake Charles, La. 1400 KAOL Carrollton, Mo. 1430 KAPA Raymond, Wash. 1340	KATR Eugene, Ore. 1320 KATY San Luis Ohispo, Cal. 1340 KATZ St. Louis, MO 1600 KAUS Austin, Minn. 1480 KAVA Burney, Cal. 1450

U.S.	AM STATIONS	S BY CALL LETTE	ERS
Call Location kHz	Call Location kHz	Call Location kHz	Call Location kHz
KAAA Kingman AZ 1230 KAAM Dallas TX 1310 KAAP Santa Paula, CA 1490 KAAR Mountlake Terr., WA 1510 KAAR Mountlake Terr., WA 1510 KAAR Little Rock AR 1090 KAAY Little Rock AR 1090 KABC Los Angeles, Callf. 1990 KABC AS ANGELES, CALL 150 KABL Abilene, Kans. 1860 KACL Frestoniles Oreg. 1800 KACL Andrews, Tex. 1860 KACL Andrews, Tex. 1860 KACL Andrews, Tex. 1860 KACL Abilene, 1860 KACL Abile	KAHI Auburn, Calif. KAHL North Platte, NB KAHU Waipahu, Hawali KAIM Honolulu, Hawali KAIM Honolulu, Hawali KAIN Sampa, Ida. KAIN Crowley, La. KAIN Grants Pass, Oreg. KAIN Growley, La. KAIN Grants Pass, Oreg. KAIN Grants Pass, Oreg. KAIN Crulsa, Okla. KAKE Wichita, Kan. KAKE Wichita, Kan. KALE Richland, Wash. KALE Sai Lake City, Utah KALE Sait Lake	KANS Larned, Kan. 1510 KAOH Duluth, Minn. 1390 KAOK Lake Charles, La. 1400 KAOK Carcoliton, Mo. 1430 KAPA Raymond, Wash. 1340 KAPA Raymond, Wash. 1340 KAPE San Antonio, Tex. 1480 KAPJ Pueblo, Colo. 690 KAPR Douglas AZ 930 KAPS Mt. Vernon, Wash. 1470 KAPY Port Angeles, Wash. 1290 KAPY Port Angeles, Wash. 1470 KARY Blaine, Wash. 550 KARM Flesno, Calif. 1430 KARN Little Rock AR 920 KARN Little Rock AR 920 KARN Restar Falls, Mont. 1400 KARN Restar Falls, Mont. 1400 KARS Belen, N.M. 660 KART Jerome, Idaho 1400 KARY Russeliville AR 1490 KASA Phoenix AZ 1540 KASA Phoenix AZ 1540 KASH Lugene, Ore. 1600 KASI Ames, Iowa 1430 KASL Neweastle, Wyo. 1240 KASO Minden, La, 1370 KASO Minden, La, 1370 KAST Astoria, Ore. 1220 KASY Abburn, Wash. 1240	KATR Eugene, Ore. KATR Eugene, Ore. KATY San Luis Obispo, Cal. 1340 KATZ St. Louis, MO KAUS Austin, Minn. KAVA Burney, Cal. KAVA Burney, Cal. KAVI Roeky Ford, Colo. KAVI Lancaster, Calif. KAVR Apple Valley, Calif. G10 KAWR York, Neb. 1320 KAWL York, Neb. 1320 KAWK Hemphill TX KAWW Heber Springs AR 1370 KAYG Beaumont, Tex. KAYG Beaumont, Tex. KAYG Beaumont, Tex. KAYG Kayou, UT S60 KAYG Lakewood, Wash. KAYG Karov, UT S60 KAYG KAYG Karos, Us KAYG Kansas City, Mo. KAYG Kansas City, Mo. KAYR Van Buren AR KAYS Wan Buren AR KAYS Wan Suren AR KAYS Hold Hold Syo KAYG Kayos, Cal. L290 KAZM Sedona, AZ KBAB Indianola, Iowa KBAI Morro Bay, Calif. KBAL San Saba, Tex. 1410 KBAL San Saba, Tex. 1410 KBAL San Saba, Tex. 1410
KAGI Grants Pass, Oreg. 1380 KAGO Klamath Falls, Oreg. 1150 KAGT Anacortes, Wash. 1340 KAGY Port Sulphur LA 1510	KANC Anchorage, Alaska 1030 KAND Corsicana, Tex. 1340 KANE New Iberia, La. 1240 KANI Wharton, Tex. 1500 KANN Ogden, Utah 1090	KATB Agana, GU 570 KATE Albert Lea, Minn. 1450 KATI Casper, Wyo. 1400 KATI Miles City, Mont. 1340 KATO Safford AZ 1230	KBAN Bowie, Tex. 1410 KBAR Burley, Idaho 1230 KBBA Benton AR 690 KBBB Borger, Tex. 1600 KBBO Yakima, Wash. 1390

Call Location	kHz	Call Location	kHz	Call Location	kHz	Call Location k	kHz
KBBQ Ventura-Oxnard, CA KBBR North Bend, Oreg.	1590 1340	KCCO Lawton, Okla. KCCR Pierre, S. D. KCC8 8alem, OR	1050 1240 1220	KDOM Windom, Minn, KDON Salinas, Calif. KDOV Ashtand OR	1580 1460 1 35 0	KFLP Floydada TX KFLS Klamath Falls OR	300 900 450
KBBS Buffalo. Wyo. KBBV Blg Bear Lake, CA KBCC Cuba, MO KBCH Lincoln City OR	1450 1050 1410 1380	KCCT Corpus Christi, Tex. KCCV Independence, Mo. KCEE Tucson AZ KCEY Turlock, Cal.	1150 1510 790 1390	KDQN DeQueen, AR KDRG Deer Lodge, Mont. KDRO Sedalla, Mo. KDRS Paragould AR	1390 1400 1490 1490	KFMB San Diego, Cal, 10 KFMJ Tuisa, Okla. 10	240 760 050 390
KBCL Shreveport, La. KBCR Steamboat Springs, CO	1220	KCFB Mendocino, CA KCFI Cedar Falls, Iowa KCGS Marshall, AR	1300 1250 1600	KDRY Alamo Hts., Tex. KDSI Deadwood, S. Dak. KDSN Denison, Ia.	980 980 1530	KFMO Flat River, Mo. I	240 600
KBCQ Roswell, NM KBDF Eugene, OR KBEA Mission, Kans.	1020 1280 1480	KCHA Charles City, Iowa KCHE Cherokee, Iowa KCHF Sioux Falls, S.D.	1580 1440 1520	KDSX Denison-Sherman, Tex. KDTA Delta. Colo.	950 1400	KENW Fargo ND	170 920
KBEC Waxahachie, Tex. KBEE Modesto, Calif. KBEL Idabel, Okla.	1390 970 1240	KCHI Chillicothe, Mo. KCHJ Delano, Calif. KCHK New Prague MN	1010 1010 1350	KDTH Dubuque, lowa KDUN Reedsport, Ore, KDUZ Hutchinson, Minn,	1370 1470 1260	KFPW Fort Smith AR 13	240 230 750
KBEN Carrizo Sprgs., Tex. KBET Reno. Nev. KBEW Blue Earth, Minn	1450 1340 1560	KCHR Charleston, Mo. KCHS Truth or Consequence New Mexico	1400	KDWA Hastings, Minn, KDWB Minneapolis- St. Paul MN	630 720	KFRA Franklin, LA II KFRB Fairbanks AK	390 900 610
KBF1 Bonners Ferry ID KBFS Belle Fourche, S.Dak. KBFW Bellingham, Wash.	930	KCHV Coachella, Calif, KCIA Humble City, N. Mex. KCID Caldwell, Idaho	970 1110 1490 1380	KDWN Las Vegas, NV KDWT Stamford, Tex. KDXE N. Little Rock, AR KDXI Mansfield, La.	1400 1380 1360	KFRD Rosenberg-Richmond, Tex. KFRE Fresno, Calif.	980 940
KBGG Merkel, TX KBGH Memphis, Tex. KBGN Caldwell, ID KBHB Sturgis, S. D.	1500 1130 1060 810	KCII Washington, lows KCIJ Shreveport, La. KCIM Carroll, lowa KCIN Victorville, Callf.	980 1380 1590	KDXU St. George, UT KDYL Tooele, Utah KDZA Pueblo, Colo,	1450 990 1230	KFRM Salina, Kan. KFRN Long Beach CA 17 KFRO Longview. Tex.	550 280 370
KBHC Nashville AR KBHM Branson, Mo. KBHS Hot Springs AR	1260 1220 590	KCJB Minot, N.Dak, KCJI fowa City, IA KCKC San Bernardino, Cal,	910 1560	KEAN Abilene TX KEAP Fresno, Callf, KEBE Jacksonville, Tex.	980 1400	KFSA Fort Smith AR KFSB Jonlin, Mo.	400 950 310
KBIB Monette AR KBIF Fresno, Calif. KBIK Lompoc, CA	1560 900 1400	KCKN Kansas City, Kans. KCKW Jena, La. KCKY Coolidge AZ	1340 1480 1150	KECH Ketchikan, Alaska KECK Lincoln, Neb. KEDA San Antonia, Tex. KEDD Dodge City, Kans. KEDO Longview, Wash.	620 1530 1540 1550	KFTM Ft. Morgan, Colo. 14	860 400 400 450
KBIL Liberty, Mo.	910 1490	KCLA Pine Bluff AR KCLD St. Cloud, NM KCLE Cleburne, Tex.	1400 1450 1 120	KEDO Longview, Wash, KEED Eugene, Ore. KEEE Nacogdoches, Tex.	1400 1450 1230	KFUN Las Vegas, N.Mex. 13	230 850 960
KBIX Muskogee, Okla. KBJM Lemmon, S.D. KBJS Sallisaw, Okla. KBJZ Ottuwa, Iowa	1400 1510 1240	KCLK Clarkston, Wash. KCLM Redding, Cal. KCLN Clinton, Jowa	1430 1330 1390	KEEL Shreveport, La. KEEN San Jose, Calif.	710 1370 1450	KFWB Los Angeles, Calif. KFWI Lake Havasu City AZ	980 980
KBKB Fort Madison, IA	1570 1360 1490	KCLR Rails, Tex. KCLS Flagstaff AZ KCLT Lobkhart. TX	1410 1530 600 1060	KEEP Twin Falls, Idaho KEES Gladewater, Tex. KEEY Minneapolls- St. Paul MN	1430	KFXM San Bernardino, Calif. KFYN Bonham, Tex. 1 KFYO Lubbock, Tex.	790
KBICW Aberdeen, Wash. KBLC Lakeport, Cal. KBLE Seattle, Wash. KBLF Red Bluff, Calif. KBLF Red Bluff, Calif.	1450 1270 1050	KCLU Rolla, Mo. KCLV Clovis, N.Mex. KCLW Hamilton, Tex.	1590 1240 900	KEGG Daingerfield, Tex. KEHG Fosston, Minn. KEIN Great Falls MT	1560 1480 1310		550 510 460
KBLF Red Blum, Calif. KBLI Blackfoot, Idaho KBLL Helena, Mont. KBLR Bolivar, Mo.	1490 690 1240 1130	KCLX Colfax, Wash.	1450 740 1010	Wash, KELD El Dorado AR	1470 1400		580 330 920 550
KBLU Yuma, Ariz.	560 1390 1220	KCMJ Palm Sprgs., Callf. KCMO Kansas City, Mo. KCMP Brush, CO KCMX Ashland OR KCNI Broken Bow, Nebr.	810 1010 580	KELI Tulsa, Okla. KELK Elko, Nev. KELO Sioux Falls, S.Dak.	1430 1240 1320 920	KGAS Carthage, Tex. KGAY Salem, Oreg.	590 430 360
KBLY Gold Beach, Oreg. KBMI Henderson, Nev. KBMN Bozeman, Mont. KBMO Benson, Minn.	1400 1230 1290	KCNO Alturas, Calif. KCNW Fairway, KS	1280 570 1380	KELP EI Paso, Tex. KELY Ely, Nev. KEMM Marshfield, Mo. KENA Mena AR	1230 1510 1450		540 260 450
KBMO Benson, Minn. KBMR Bismarck, N. D. KBMW Wahpeton, N.D Breckenridge, Minn.	1350 1450	KCNY San Marcos, Tex. KCOB Newton, Iowa KCOG Centerville, Iowa	1470 1280 1400 1430	KEND Lubbock TX KENE Toppenish, Wash, KENI Anchorage AK	1590 1490 550	KGCL East Prairie, Mo. 10 KGCX Sidney, Mont. 1- KGDN Edmonds, Wash.	080 4 80 630
KBMY Billings, Mont, KBND Bend, Oreg. KBNO Denver, CO	1240 1110 1220	KCOH Houston, Tex. KCOK Tulare. Callf. KCOL Ft. Collins, Colo. KCOM Comanche, Tex. KCON Conway AR	1270	KENM Portales, N.Mex. KENN Farmington, N.M.	1450 1390 1460	KGEE Bakersheid, Calif. KGEM Bolse, Idaho	140 370
KBOA Kennett, Mo. KBOE Oskaloosa, lowa KBOI Boise, ID	830 740 670 1310	KCON Conway AR KCOR San Antonio, Tex. KCOW Alliance, Nebr.	1550 1230 1350 1400	KENT Prescott, Ariz. KEOR Atoka, Okla,	1070 1340 1110	KGEZ Kalispell, Mont.	390 600 450 110
KBOK Malvern AR KBOL Boulder, Colo. KBON San Bernardino, Calif KBOP Pleasanton, Tex.	1490	KCPX Salt Lake City, Utah	1320 1390 1600	KEOS Flagstaff AZ KEPS Eagle Pass, Tex. KERS Kermit, Tex.	690 1270 600	KGFW Kearney, Nebr. 13 KGFX Plerre, S.D.	340 060 690
KBOR Brownsville, Tex. KBOW Butte, Mont, KBOX Dallas, TX	1600 550 1490	KCRG Cedar Rapids, Iowa KCRL Reno, Nev. KCRS Midland, Tex. KCRT Trinidad, Colo.	780 550 1240	KERC Eastland, Tex. KERC Denver CO KERG Eugene, Oreg. KERN Bakersheld, Calif.	1590 710 1280 1410	KGHM Brookfield, Mo. 1	790 1470 560
KBOY Medford, Oreg. KBOZ Bozeman, MT KBPS Portland, Oreg.	730 1090 1450	KCRV Caruthersville, Mo. KCSJ Pueblo, Colo. KCSR Chadron, Nebr. KCTA Corpus Christi, Tex.	1370 590 610 1030	KERR Polson, MT KERV Kerrville, Tex. KESM Eldorado Spring, Mo.	1070	KGHS International Falls, Minn, 12 KGIL San Fernando, Calif. 13	230 260
KBRB Ainsworth, Neb. KBRC Mt. Vernon, Wash. KBRE Cedar City. Utah	1400 1420 940	KCTE Southwest City, MO KCTI Gonzales, Tex. KCTO Columbia, La.	1140 1450 1540	KESI San Francisco, Calif. KETX Livingston, Tex. KEUN Funica La	1450 1440 1490	KGKO Benton AR	450 960 850
KBRF Fergus Falls, Minn. KBRI Brinkley AR KBRJ Bolse ID KBRK Brooklings, S.Dak.	1250 1570 950 1430	KCTY Salinas, Callf. KCTX Childress, Tex. KCUB Tueson AZ	980 1510 1290	KEVA Evanston, Wyo. KEVT Tueson AZ KEWI Topeka, Kans.	690 1440	KGLC Miami, Okla. KGLE Glendive. Mont.	540 910 590 740
KBRL McCook, Nebr.	1300 800	KCUE Red Wing, Minn. KCUZ Clifton AZ KCVL Colville, Wash.	1250 1490 1270	KEWQ Paradise, Cal. KEWS Cuero, TX KEX Portland, Oreg. KEXO Grand June., Colo.	930 1600 1190 1230	KGLN Glenwood Sprgs., Colo. S KGLO Mason City, Iowa 13 KGLU Safford Ariz	980 300 480
KBRO Bremerton, Wash. KBRR Leadville, Colo. KBRS Springdale AR KBRT Avalon, CA	1490 1230 1340 740 790	KCVR Lodi, Calif. KCYL Lampasas, Tex. KDAC Ft. Bragg, Calif. KDAK Carrington, N.D.	1570 1450 1230 1600	KEXU Grand June., Colo. KEXS Exeelsior Springs, Mo. KEYE Perryton, Tex. KEYH Houston, TX KEYJ Jamestown, N.Dak. KEYL Long Prairie, Minn.	1090 1400 850	KGMB Honolulu, Hawali KGM1 Bellingham, Wash, KGMO Cape Girardeau, Mo. 1	590 790 220
KBRT Avalon, CA KBRV Soda Springs, Ida. KBRW Barrow AK KBRX O'Neill, Nebr.	680 1350	KCVR Lodi, Calif. KCVL Lampassa, Tex. KDAC Ft. Bragg, Calif. KDAK Carrington, N.D. KDAL Duluth, Minn. KDAN Minneapollis- St. Paul MN KDAP Douglas, AZ KDAV Lubbock, Tex. KDAV Santa Monica, Calif. KDAZ Albuquerque, N.M. KDB Santa Barbara. Calif. KDB Santa Barbara. Calif.	610	KEYJ Jamestown, N.Dak. KEYL Long Prairie, Minn. KEYN Wichita KS		KGMR Jacksonville AR IS	380 310
KBSF Springhill, La.	1460 1460 810	KDAP Douglas, AZ KDAV Lubbock, Tex. KDAY Santa Monica, Calif.	1450 580 1580	KEYN Terrytown, Nebr. KEYS Corpus Christi, Tex. KEYY Provo, Utah KEYZ Williston, N.Dak. KEZE Spokane, Wash.	690 1440 1450	KGNO Dodge City, Kans. 13	420 710 370 320
KBST Big Spring, Tex. KBTA Batesville AR KBTC Houston, Mo. KBTM Jonesboro AR	1490 1340 1250 1230	KORM Dillon Mont	1490	KEYZ Williston, N.Dak. KEZE Spokane, Wash. KEZM Sulphur, LA	1360 1380 1310 1190	KGO San Francisco, Calif. & KGOE Thousand Oaks, Calif.	8 1 0 8 5 0
KBTN Neosho, Mo. KBUB Sparks, Nev. KBUC San Antonio, Tex.	1420 1270 1310	KDBS Alexandria, La. KDCE Espanola, N.M. KDDA Dumas AR	970 1560 800	KEZM Sulphur, LA KEZY Anahelm, Calif. KFAB Omaha, NB KFAC Los Angeles, Calif. KFAH Lakewood Center, Wash.	1110	KGOL Paim Desert, CA 12 KGOS Torrington, Wyo. 14	270 490 900
KBUF Garden City, KS KBUG Springfield MO	1410 1050 1060	KDDD Dumas, Tex. KDDR Oakes ND KDEN Denver, Colo, KDES Palm Sprgs., Calif.	1220 1340 920	Wash. KFAL Fulton, Mo. KFAR Fairbanks AK	900 660	KGRI Henderson, Tex. KGRL Bend, Oreg. KGRN Grinnell, Iowa	000 940 410 230
KRUN Remidii Minn.	800 1360 1450	KDEN Denver Colo, KDES Palm Spres., Callf. KDET Center, Tex. KDEW DeWitt AR KDEX Dexter, Mo. KDFL Sumner, Wash.	930 1470 1590	KFAL Fulton, Mo. KFAR Fairbanks AK KFAX San Francisso. Calf. KFAY Fayetteville AR KFBC Cheyenne, Wyo. KFBD Waynesville, Mo.	1100 1250 1240 1270	KGRU Fampa, Tex. KGRT Las Cruses, N.Mex. 5 KGRZ Missoula, Mr. 1	570 450 600
KBUR Burlington, lows KBUS Mexia, Tex. KBVM Laneaster, Callf. KBWA Williams, AZ	1490 1590 1380 1240	KDFL Sumner, Wash. KDFN Doniphan, Mo. KDGO Durango, Colo. KDHI Twenty-nine Palms,	1560 1500 1240	KFBD Waynesville, Mo. KFBK Sacramento, Cailf. KFBR Nogales AZ	1270 1530 1340 1380	KGTN Georgetown, Tex. I. KGU Honolulu, Hawall 7 KGUC Gunnison. Colo. 14	760 760
	1380 1540 890	California KDHL Faribault, MN KDHN Dimmitt, Tex. KDIA Qakland, Calif.	1250 920 1470	KFBK Sacramento, Calif. KFBR Nogales AZ KFCB Redfield, S. Dak. KFDF Van Buren AR KFDF Wichita, Kansas	1380 1070 1360	KGUL Port Lavae, Tex. 18 KGVL Greenville, Tex. 18 KGVO Missoula, Mont. 18	490 560 400 290 630
KBYG Big Springs, Tex. KBYP Shamrock, Tex. KBYR Anchorage AK	1400 1580 700	KDIO Ortonville, Minn.	1310 1350 1230	KFEL Pueblo, Colo. KFEQ St. Joseph, Mo. KFFA Helena AR	970 680	KGVW Beigrade, Mont. KGW Portland, Oreg. KGWA Enid, Okia.	630 620 960 240
KBWM Brownwood, IX KBXM Kennett, MO KBYE Okla, City, Okla, KBYG Big Springs, Tex. KBYP Shamrock, Tex. KBYP Shamborage AK KBZY Salem, Oreg. KBZY Lalunta, Colo. KCAB Dardanelle AR	1490 1400 980	KDJI Holbrook AZ	127 0 1010 1020	KFDI Wichita, Kansas KFDR Grand Coulee, Wash. KFEL Pueblo, Colo. KFEQ St. Joseph, Mo. KFFA Helena AR KFGD Fargo, N.D. KFGQ Boone, Towa. KFH Wichita, Kans. KFH Lee Angeles Cellf	1360 790 1260 1330	KGYN Guymon, Okla. 12 KHAC Window Rock AZ 13	240 210 300 190
KCAL Redlands, Calif.	1560 1410 790 1460	KDKA Pittsburgh, Pa. KDKB Mesa, AZ KDKD Clinton, Mo. KDKO Littleton, Colo. KDLA DeRidder, La.	1510 1280 1510	KELA Carmichael CA	640 710 1060		360 320
KCAN El Reno OK KCAP Helena, Mont. KCAR Clarksville, Tex. KCAS Slaton, Tex. KCAT Pine Bluff AR	1340 1350 1050	KDLA DeRidder, La. KDLG Dillingham, AK KDLK Del Rio, Tex. KDLM Detroit Lakes, Minn	1010 670 1230 . 1340	KFIL Preston, Minn. KFIR Sweet Home, Ore. KFIV Modesto, Calif. KFIZ Fond du Lac, Wis.	1370 1360 1450	I KHAS Heetings Nehr I	340 590 230 550
	1340 1390 1230	KDLR Devils Lake, N.Dak. KDLS Perry, lowa KDLT Delta, UT	1310 540	KFJB Marshalltown, Iowa KFJM Grand Forks, N.Dak. KFJZ Ft. Worth, Tex KFKA Granley, Colo.	1230 1370 1270 1310	KHDN Hardin, Mont.	550 430 560 230
KCBQ San Diego, Calif. KCBS San Fran., Calif. KCCB Corning AR	1170 740 1260	KDMA Montevideo, Minn. KDMO Carthage, Mo. KDMS Fl Dorado AR	1460 1490 1290	KFIB Marshalltown, Iowa KFIM Grand Forks, N.Dak. KFIZ Ft. Worth, Tex KFKA Gresley, Colo. KFKU Lawrence, Kans. KFLA Scott City, Kans. KFLD Floydad, Tex. KFLI Mountain Home, Ida. KFLI Walsanburs. Colo.	1250 1310 900	I KHEP PROBILLY AZ I	270 930 280
KCCC Carlsbad, N.M. KCCL Parls AR KCCN Honofulu, Hawaii	930 460 420	KDNT Denton, Tex. KDOK Tyler, Tex. KDOL Mojave, Calif.	1440 1490 1340	KFLI Mountain Home, Ida. KFLJ Walsenburg, Colo. KFLN Baker, Mont.	1240 960 1380	KHHA Carlsbad NM	590 240 800

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	NANANANANANANANANANANANANANANANANANANA	walla, Wash. os Angeles, CA Burnett TX Burnett TX Hilo, Hawail Hannibal, Mo. Riverside, CA Hobbs, N. Mex, Fayetteville CA Hobbs, N. Mex, Fayetteville CA Hobbs, N. Mex, Fayetteville AR Beulah, ND Madera, Callf, Denver, Colo. Harrison AR Bookane, WA Minot, N. D. Hemet, Callf. Cous Bay Off Fremont, Nebr. Eureka CA Honolulu, Hawail Gilmer TX Tueson AZ Fairbanks, AK abeville, Tex. Sishop, Callf. Seeville, Tex. Sishop, Callf. Seeville, Tex. Sishop, Callf. Seeville, Tex. Sishop, Callf. Seeville, Tex. Sishop, Callf. Jolovis, N. M. Speneer, Iowa Springfield, Mo. Jalexieo, Callf. Jastings, Neb. Monce AK Aho Falls, Idaho Monterey, Calif. Pueblo, CO Jolse, Idaho Jiendale, Calif. Jowa Falls, Ia, Phoenix AZ Sitka AK 'asadena, CA St. Anthony, Ida, Hugo, Okia, Lanitou Springs, Co Sex-Angeles, Calif. Lastings, Colo. Luron, S.D. Jose-Angeles, Calif. Seeminiole, Tex. Sinton, Tex. Joyand, Callf.	### ### ### ### ### ### ### ### ### ##	KTHANPSYJABYIKMNOSTOG SANYITABUJANTA SUKAMANAYJKMSOBABA INOABBAH MORUVYBDJABYIKMNOSTOG SANYITABUJANYYYYYAGOKAMNENYJKMSOBABA SOBBAH MORUVA HANPSYJABYIKMNOSTOG SANYITABUJANYYYYYA SUKAMANA SUBBAH MORUVA SUKAMANA SUKAMANA SUBBAH MORUVA SUBBAH MORUWA SUBBAH MORUWA SUBBAH MORUWA SUBBAH MORUVA SUBBAH MORUWA	Columbus, Nebr. Joshua Tree, Cal. Camden AR Aberdeen, SD Phillipsburg, Kans. Antos-Canitola, CA Silsbee, Tex. White Castle, LA Bemidji, M N Grand Pralrie, Tex. Rochester, MN Portland, Ore. San Francisco, Callf. Waco-Marlin, TX Albuquerque NM Aitkin, Minn Santa Barbara, CA Pittsburg, Callf. Taos, N. Mex. St. Joseph, Mo. Tempe AR Rapld City, SD Minto, ND Kealakekua, Hawall Chanute, Kan. Los Angeles CA Honolulu Hawall Brownfield, Tex. Burlington, Iowa Grand Forks ND Plainview, TX San Antonio Lancaster CA Los Angeles, Callf. Klamath Falls OR Lakewood, Colo. Cordova AK Los Angeles, Callf. Klamath Falls OR Lakewood, Colo. Cordova AK Les Angeles, Callf. Laredo, Tex. Las Vegas, Nev. Austin TX Lubhock, Tex. La Grande, Oreg. Los Banns, Callf. Laredo, Tex. Lake Charles, LA Blytheville AR Poteau, Okla. Lovington, Mo. Wellington, Kan. Lubbock, Tex. Lake Charles, LA Blytheville AR Poteau, Okla. Lovington, Mo. Wellington, Kan. Lubbock, Tex. Litchfield, Minn. Springfield MO Aligona, Iowa Redwood Falls, Minn. Lubono, Mo. Lushock, Tex. Litchfield, Minn. Springfield MO Aligona, Iowa Redwood Falls, Minn. Lubono, Mo. Lushock, Tex. Litchfield, Minn. Springfield MO Aligona, Iowa Redwood Falls, Minn. Longmont, Colo. Loncoln, Nebr. Coult, Calif. Oortland, Oreg. Denver, Colo. Pomona CA San Jose, Cal. Twin Falls, Idaho Srainerd, Minn. Springfield MO Aligona, Iowa Redwood Falls, Minn. Lubobock, Tex. Liber, Colo. Pomona CA San Jose, Cal. Twin Falls, Idaho Srainerd, Minn. Springfield MO Aligona, Iowa Redwood Falls, Minn. Longmont, Colo. Lake Providence, La. Loveland, Oreg. Denver, Colo. Pomona CA San Jose, Cal. Twin Falls, Idaho Srainerd, Minn. Parsons, KS Leesville, La, Lubbock, Tex. Lukelond, Okla. Little Falls, Minn. Agrand, Okla. Little Falls, Minn. Longmont, Colo. Lake Providence, La. Loveland, Okla. Little Falls, Minn. Agrand, Okla. Little Falls, Minn. Agrand, Okla. Little Falls, Minn. Agrand, Okla. Little Falls, Minn. Agranden, May Lexinger, May	900 1420 1450 1490 1560 1590 1590 1590 1590 1590 1590 1690 1690 1690 1690 1690 1690 1690 16	BBBCCCCCDATATION TO CONTRACT AND	Junction, Tex. Monterey, Calif. Kansas City, Mo. Fairfield, Iowa McCall, Ida. McMinnville, Oreg. Augusta AR Ft. Scott, Kans. Medford, Oreg. San Bernardino, Phoenix AZ Kemmerer, Wyo. Mendocino, Cal. Tueson, AZ Memoren, Cal. Tueson, AZ Marshall, Minn. Marshall, Minn. Marshall, Minn. Marshall, Mo. Serno, Calif. Monroe, La. Grand Island, Nebr. Marshall, Mo. Sioux City, Iowa acoma, Wash, Mont. Minneda, TX St. Louis. Mo. Sioux City, Iowa acoma, Wash, Great Falls, Mont. Mineota, TX St. Louis. Mo. Soantele, Wash, Mont. Mineota, TX St. Louis. Mo. Seattle, WA. St. Louis. Mo. Seattle, WA. Mineota, TX St. Louis. Mo. Seattle, WA. Morgan City, La. Cameron, Mo. Marshall, Calif. Helena, MT Hel	1450 1980 1240 1980 1220 1190 1440 1290 1940 1440 1300 1450 1300 1450 1300 1450 1300 1450 1350 1360 1360 1360 1360 1360 1360 1360 136	SHOULD IN THE PROBLEM OF ABOUT A PROCEDURE OF A PROCEDURA OF A PRO	Location it. Helens. Ore. Honolulu. Hawall Hermiston. OR matha. Nebr. favre. Mont. favre. Okla. favre. Okla. favre. Okla. favre. Okla. favre. Okla. favre. Okla. fort. Arthur TX fort. Okla. fort. Okl	1600 1200
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Column C		Call	Location	kHz	Call	Location	kHz	Call	Location	kHz	Call	Location	kHz
Col. Particular, C. 1989 Col. Particular, C		KOCV OF	klahoma City. OK eat Falls, MT	800 1450	KSEK K	Pittsburg, Kans. Lubbock, Tex.	1340 950	KTNC	Falls City, Nebr. Tucumcarl, N.Mex.	1230	MV		1450
Scholler, M. 1997. Cold Parties, Village Cold Parties, Cold 1, 1997. Cold Parties, Cold Parties, Cold 1		KQEO AI	buquerque, N.Mex. keview. Orea.	920	KSEN :	Shelby, Mont. Durant. Okla.	750	KINT	Tacoma, Wash.	1400	KVOY KVOZ	Yuma, Ariz. Laredo, Tex.	1400 1490
Cold		KQIL Gr	and Junction, CO Irien, WA	800	KSET	El Paso, Tex. Sitka, Alaska Seymour Tex.	1400	KTOC KTOE KTOH	Jonesboro, La. Mankato, Minn. Lihue, Hawali	1420	KVKU	Arkadeiphia Ar	1570
Grant Vales Mar. 165		KOKI Ba	you Vista, L.A skewood W.A	1170 1480	KSFA KSFE	Nacogdoches, Tex. Needles CA	1340	KTOK	Oklahoma City, Okla. Salinas, Cal.	1000 1380 940	KVRE KVRH KVRN	Santa Rosa, CA Salida, Colo. Sonora, TX	980
Service 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		KONK N KOOT Ya	orton, KS kima. Wash.	930 930	KSGL KSGM	Wichita, KS Chester, III.	900 980	I KTOP	Topeka, Kans.	1490 1340	KVSA KVSF	McGehee AR Sante Fe, N.Mex.	1220 12 6 0
School, Wester-City 1, 100 COLD Arrows, Chill. COLD Children, Chill. COLD Arrows, Chill.		KQTY BO	orger TX sburgh, Pa.	1410	KSGT.	Jackson, Wyo. Medford, Ore.	1340 860	I KIPA	Prescott AR	1370 860	KVSI KVSL	Montpelier, Ida. Show Low AZ	1450 1450
COLD F. Transf. Cold. Cold S. Error F. William (1986) Cold S. Er	۲.	KOWC W	ebster City IA	1570	KSIG 0	Crowley, La.	1340 1450	KTRF	Thief River Falls,	1230	KVWC	Vernon, Tex. Pearsall, Tex.	1490 1280
SAA SELECTION COLL 1997 SAA SELECTION COLL 19		KQXI Ar	vada, Colo. plin. Mo.	1550 1560	KSIM S	Sikeston, Mo, Estes Park, CO	1470	KTRM	Beaumont, Tex. Wichita Falls, Tex.	990 1290	KVWC	Chevenne, Wyo.	1370 1370
Col. A. State Col. A.		KRAE CH	neyenne, Wyo, aig. Colo.	1480 550	KSIW KSIX (Woodward, Okla. Corpus Christl. Tex.	1450	KTRY	Bastrop, La. San Antonio, Tex.	730 550	KWAE) Wadena, MN (Stuttgart AR	920 1240
Compared 1975 197		KRAL RE	ewlins, Wyo. as Vegas, Nev.	1240	KSJB J KSKI KSKY	Jamestown, N.Dak. Hailey, Ida. Dallas, Tex.	600 1340 660	I KTTR	Rolla, Mo	1600 1490	KWAN	1 Memphis, Tenn, Watertown S.Dak.	990 950
Sell SI, Fette, Minn. Sell SI, Fette, Minn. Sell		KRBA LI	orton, Tex. ufkin, Tex. allisaw, Okla.	1340 1560	KSL Sa	alt Lake City. Utah	1390	I KTTX	Brenham, TX	1510	KWAY KWBE KWBC	Waverly, lowa Wichita, Kans. Navasota, Tex.	1410 1550
CROP Control Crop		KRBI St.	Peter, Minn.	1310	KSLV	Monte Vista, Colo. San Luis Obispo, C	1240 al. 1400	KTUC	Tucson AZ Tulia, Tex.	1260	KWBE	Beatrice, Nebr.	1590
REDO Costs Springs Dobs 1240 1250		KRCB Co KRCO Pr	uncil Bluffs, la. ineville, Oreg.	690 1400	KSM M KSM N	Shakopee, Minn. Mason City, Iowa	1530	1 KTWG	: Anana Guam	800 1470	KWBY	Edna, Tex.	1130 1150
KROU Dinna, Call. 1359		KRDD R	oswell. N.Mex. edding. Calif.	1320 1230	KSNN KSNO	Pocatello, Ida. Aspen. Colo.	1290 1260	KTXO	Sherman, Tex.	1350 1500	KWCL	Oak Grove, La. Chickasha, Okla.	1280 1560
COLD WATER COLD 1470		KRDR G	resham, Ore. olleson AZ	1190	KSO D KSOA	es Moines, Iowa Ava, Mo.	1460 1430	KTYM	Inglewood. Calif, Minot, N.D.	1460 1430	KWED	Seguin, Tex. Weiser, Idaho	1580 1260
KSDP Salt Lake City, Utah 1370		KRDZ W	ray CO keley CA	1470 1400	KSOK	Arkansas City, Kar	18. 280 1240	I KUAI	Elecie, Kanal, Hawaii	720 610	KWEY	/ Hobbs, N.Mex. Weatherford, Okla.	1480 1590
REEW Supriside, Wash. 526 KEEW Supriside, Wash. 526 KEEP Supriside, And 526 KEEP Supriside, Wash. 526 KEEP Supriside, And 526 KEEP Supriside, Wash. 526		KREH O	akdale, La.	900 800	KSOP KSOP KSOX	Sioux Falls, S.Dak Salt Lake City, Uta Raymondville, Tex.	. 1140 ah 1370 1240	KUBA	Yuba City, Calif. Montrose, Colo.	1600	KWGF	Rin lake Tex.	1230 1290
KEPS Dureitens, Main. (KPS Supering, Mer. (KPS Su		KREK S	npulpa, Okla. pokane, Wash. unnyside, Wash.	970 1230	KSPI S	Stillwater, Okla.	780	KUDE KUDY KUEN	Oceanside, Calif, Spokane, Wash, Wenatchee, Wash,	1320 1280	KWHO	Salt Lake City, Utah	1320 860
KRHD Dunean, Okta. 1330 KSRA Solidona AK 230 KUU Walla Walla, Wath. 1420 KWI Shirta, Okta. 1416 KSR Olaria, Okt		KREA G	watonna, Minn.	1390	KSP0 KSPR	Spokane. Wash. Springdale AR	1230	KUFE	Agana, Guam Albuquerque, NM	940 1150	KWHV KWIK KWIL	V Altus, Okla. Pocatello, Idaho Albany, Oreg.	1240 790
KRHD Dunean, Okta. 1330 KSRA Solidona AK 230 KUU Walla Walla, Wath. 1420 KWI Shirta, Okta. 1416 KSR Olaria, Okt		KRGU S	alt Lake City, UI	1430 1550	KSRA KSRB	Salmon, Idaho Hardy, AR	960 1570	KUGR	Green River, WY Santa Maria, Cal.	1490 1440	KWIP KWIQ KWIV	Merced, Calif. Moses Lake, Wash. Douglas, WY	1260 1050
RRILL Rayville, La. 966 KSSS Colorado Springs, COL. 7460 KRILD MARIAIT. 72. 1220 KRCK King City, Cull 11 1490 KSTD Brekkeridge, Tex. 1490 KSTD Stockton, Calif. 1490 KSTD Stock		KRHD D	uncan. Okta	1350 1490	KSRM KSRO	Soldotna AK Santa Rosa, Calif.	920 1350	I KUIV	Valla Walla, Wash.	1420			1480
RRING Aller City, Calif. 1490 KRING Robert Springs, WY 1806 KRING Lewiston, Ida. 1500 KRING Lamist, Tex. 1600 KRING Allers, Tex. 1500 KRING Allers, Tex. 1600 KRING Allers, Tex. 16		KRIG OG KRIH RA	lessa, lex, ayville, La. Allen, Tex	990	KSSS KSST	Colorado Springs, C Sulphur Springs, To	ex. 1230	I KIIKII	WILLOW Springs 1870	1330 690	KWK	St. Louis, MO	920 680
RRRN North Pole, AK. 600 (RRIO Evert. Wash. 1300 (RRIO Evert. Wash. 1300 (RRIO Evert. Wash. 1300 (RRIO Evert. Wash. 1300 (RRIO Albary, Ore. 900 (RRIO Evert. Wash. 1300 (RRIO Ballis, Tax. 1000 (RRIO Dallis, Tax. 1000 (RRIO Ballis, Tax. 1000 (RRIO Evert. Wash. 1300 (RRIO Ballis, Tax. 1000 (RRIO Market City OK 1200 (RRIO RIO Market City OK 1200 (RRIO RI	ŀ	KRKC K	ing City, Callf. Ibuquerque, NM	1490 610	KSTB KSTC	Breckenridge, Tex. Sterling, CO	1430 1230	I KULP	El Campo, 1ex,	790 1390	KWKY	V Pasadena, Calif.	1300
KRYA Albany, Ore. 990 KSTE Grand Junction, Colo. 620 KRUD California Art. 190 KRUD Dallas, Tex. 190 KRUD Dallas, Tex. 190 KRUD Dallas, Tex. 190 KRUD California 190 KRUD Californi		KRKM N	iorth Pole, AK	600 1380	KSTN KSTP	Stockton, Call'. St. Paul. Minn.	1420 1500	KUMA	Pendleton, Oreg. Honolulu, Hawaii	1290 1500	KWLA KWLC	Many, LA Decorah, Iowa	1400 1240
KRHO Midwest City Off. 120 KRHO Talas, Okia. 1460 KSUB Bisbee AZ. 1239 KRHO Talas, Okia. 1460 KSUP Christophe AZ. 1239 KRHO Carmit, Okia. 1460 KSUP Christophe AZ. 1239 KRHO Carmit, Okia. 1460 KSUP Artesia. N. Max. 990 KRHO Carmit, Okia. 1460 KSUP Artesia. N. Max. 990 KRHO Carmit, Okia. 1460 KSUP Artesia. N. Max. 990 KRHO Carmit, Okia. 1460 KSUP Christophe AZ. 1239 KRHO Carmit, Okia. 1460 KSUP Christophe AZ. 1239 KRHO Carmit, Okia. 1460 KSUP Christophe AZ. 1239 KRHO Carmit, Okia. 1460 KRHO Karray, Nabr. 1460 KRHO KRHO KARRAY, Okia. 1570 KRHO Carmit, Okia. 1460 KRHO Karray, Nabr. 1460 KRHO Karray, Nabr. 1460 KRHO KRHO KARRAY, Okia. 1570 KRHO KRHO KARRAY, Okia. 1570 KRHO KRHO KARRAY, Calif. 1460 KRHO KARRAY, C		KRKT A	lbany, Ore. ewiston, Ida.		KSTR	Grand Junction, Co	1170	KUND	Siloam Springs AR	1290	KWME	Pratt KS B Wabasha, MN	1290 1190
RRMD Minewest City OK 1220 RRMD Minewest City OK 1240 RRMD Minewest City OK 1240 RRMD Minewest City OK 1240 RRMD Minemetres 12		KRLD D	allas, Tex. anon City, Colo.	1080 1400	KSUB KSUD KSUF	Cedar City, Utah West Memphis AR Susanville, Callf	590 730 1240	KUPI	Idaho Falls, ID Portland, OR	980 1330	KWMS	Salt Lake City, UT	1280
CRM Carnel Calif 740 KSVC Richfield Ush 780 KSW Carnel Calif 740 KSVC Richfield Ush 780 KSW Carnel Calif 740 KSVC Richfield Ush 780 KSW Carnel Calif 740 KSVC Richfield Carnel Calif 740 KSW Carnel Calif Carnel Calif Carnel Calif Carnel Calif Carnel	١.	KRMC M	lidwest City OK	1220	KSUM KSUN	Fairmont, Minn. Bisbee AZ	1370 1230	KURA	Moab, Utah Billings, Mont.	730	KWNA	Winnemucca, Nev.	1400 1370
KRM Monett		KRMLC	armel, Calif.	740 1410	KSVC KSVN	Richfield, Utah Ogden, Utah	980 730	KURY	Brookings, Oreg. Vermillion, S.Dak.	910 690	KWNI	Davenport, lowa Worthington, Minn.	1580 730
RRNY Nearney, Nebr. 1460				1150 1530	KSWA KSWB	Graham, Tex. Seaside, Ore,	1330	KUSN KUTA	St. Joseph, Mo. Blanding, Utah	1270 790	KWOE	Clinton, Okia,	1320 1530
KRPL Moscow, Idaho I400 KTBB Tyler, Tex. 600 KRPT Anadarko, Okla. 850 KRPT Anadarko, Okla. 850 KRCB Malden, Mo. I470 KRRR Ruidoso, NM I400 KRCG Minneapolis, Minn. 600 KTCB Malden, Mo. I470 KRS Cothello, was listed to the control of the contro		KRNR R KRNS B KRNT D	oseburg, Oreg. urns, Oreg. es Moines, Iowa	1490 1230 1350	KSWM KSWO KSWW	Lawton, Okla. V Wickenburg AZ	1380 1250	KUTI KUTY KUVR	Yakima, Wash. Palmdale, Calif. Holdredge, Nebr.	1470 1380	KWOF	Worland, Wyo. Jefferson City, Mo.	1340 1240
KRPL Moscow, Idaho I400 KTBB Tyler, Tex. 600 KRPT Anadarko, Okla. 850 KRPT Anadarko, Okla. 850 KRCB Malden, Mo. I470 KRRR Ruidoso, NM I400 KRCG Minneapolis, Minn. 600 KTCB Malden, Mo. I470 KRS Cothello, was listed to the control of the contro		KRNY K KROB R KROC R	earney, Nebr. obstown, Tex- ochester, Minn.	1510	KSXX KSXX KSYC	Redding, CA Salt Lake City, U Yreka, Calif.	tah 630 1490	KUXL KUZN KUZZ	W. Monroe, La, Bakersfield, CA	1310 970	KWPC	Muscatine, Iowa I West Plains, Mo.	660 1450
KRPL Moscow, Idaho I400 KTBB Tyler, Tex. 600 KRPT Anadarko, Okla. 850 KRPT Anadarko, Okla. 850 KRCB Malden, Mo. I470 KRRR Ruidoso, NM I400 KRCG Minneapolis, Minn. 600 KTCB Malden, Mo. I470 KRS Cothello, was listed to the control of the contro		KROD E	l Paso, Tex. heridan, Wyo,	600 930	KSYL KSYX KTAC	Alexandria, La. Santa Rosa, N.Mex Tacoma, Wash		KVAN	Vancouver Wash.	1480	KWPF KWRC KWRC	Claremore, Okla. Woodburn, Ore. Henderson, Tex.	1470
KRPL Moscow, Idaho I400 KTBB Tyler, Tex. 600 KRPT Anadarko, Okla. 850 KRPT Anadarko, Okla. 850 KRCB Malden, Mo. I470 KRRR Ruidoso, NM I400 KRCG Minneapolis, Minn. 600 KTCB Malden, Mo. I470 KRS Cothello, was listed to the control of the contro		KROP B	rawley, Calif.	1300	KTAE KTAM KTAN	Taylor, Tex. Bryan TX Sierra Vista A7	1260 1240	KVBR KVCK KVCI	Brainerd, Minn. Wolf Point, Mont. Winnfield, La	1340 1450	KWRE KWRI KWRO	Warrenton, Mo. Warren AR New Roads, La.	1500
KTRR Ruldoso. N.M. 1300 KTCF Wayne. Neb. 1500 KTSC Othello. Wash. 1400 KTSC Sort Smith AR 1410 KTSC Sort Smith AR 1450 K		KROX C	rookston, Minn. acramento, Calif.	1460 1240	KTAR KTAT	Phoenix AZ Frederick, Okla.	620 1570	KVDB KVEC	Sioux Center, Ia. San Luis Obispo, Call	1090 1. 920 1.330	KWRT	Roonville Mo	630
KRSY Roswell M. Mex 1230 KTEL Walla Walla, Wash 1490 KRTN Raton N. Mex 1490 KTEM Temple Tex 1400 KVIL Highland Park, 1230 KTEM San Angelo, Tox 1340 KVIL Highland Park, 1230 KWTD Springfield, Mo. 560 KWTD Wro. 1490 KTEM Temple, Tex 1300 KVIN Vinita, 0 K 1470 KWTD Wro. 1230 KWTD Springfield, Mo. 1230 KWTD Wro. 1240 KVIN Vinita, 0 K 1470 KWTD Wro. 1240 KWTD Wr		KRPT A	nadarko, Okla. Juidoso, NM	850 1360	KTCB KTCH	Malden, Mo. Wayne, Neb.	1470 1590	KVEL	Vernal, Utah Ventura, Calif.	920 1450 1300	KWSH	Mt. Shasta, Calif. I Wewoka-Seminole, home	620
KRSY Roswell M. Mex 1230 KTEL Walla Walla, Wash 1490 KRTN Raton N. Mex 1490 KTEM Temple Tex 1400 KVIL Highland Park, 1230 KTEM Temple Tex 1400 KVIL Highland Park, 1230 KWTO Springfeld, Mo. 560 KWTN Waton, 1230 KTEM San Angelo, Tox. 1340 KVIL Highland Park, 1230 KWTX Wato, Tex. 1230 KWTX Wa		KRSI St KRSL R	meno, wash. Louis Park, Minn. ussell. Kans.	950 990	KTCS KTDL	Fort Smith AR Farmersville, La.	1410 1470	KVFC KVFD	Cortez, Colo. Ft. Dodge, Iowa	740 1400	KWSL	Wasco, Calif.	1470 1050 610
KRTR Thermopolis Wyo		KRSP S	os Alamos, N.Mex. alt Lake City, Utah oswell, N.Mex.	1060 1230	KTEE KTEL	Idaho Falls, Idaho Walla Walla, Wash	1260 1. 1490	KVI S KVIC	icattle, Wash, Victoria, Tex.	570 1340	KWSU	Pullman, Wash. Barstow, Callf.	1250 1230 560
KRYN Lexington, Neh. 880 KTGO Tioga, N. D. 1990 KVLF Alpine, lex. 1520 KWLW Wematchee, WA 1340 KRWB Roseau, Minn. 1410 KTGR Columbia, Mo. 1880 KTGR Columbia, Mo. 1880 KVLF Alpine, lex. 1520 KWLW Wematchee, WA 1340 KWLW		KRTN K KRTR T KRUN E	aton, N.Mex. hermopolls. Wvo. Ballinger, Tex.	1400	KTEM KTEO KTER	San Angelo, Tex. Terrell, Tex.	1340 1570	KVIN	Vinita, OK Cottonwood AZ	1470 1600	KWTX	Waco, Tex.	1480
KSAC Mannattan, Kans. 300		KRUS R KRUX (uston, La. Glendale AZ exington, Neh.	1360			1400	KVKN	Monahans Tay	1330 1240			1270
KSAC Mannattan, Kans. 300		KRVB I	Medford, OR Roseau, Minn. Ruffalo MN	1300 1410	KTGR KTHE	Columbia, Mo. Thermopolis, Wyo.	1580 1240	KVLG KVLH KVLI	Pauls Valley, Okla. Lake Isabella, CA		RWX:	W Wematchee, WA Cathredal City CA	1340 1340
KSAC Mannattan, Kans. 300		KRWT V	Winters, TX eward AK Rexburg, Idaho	1060 950	KTHS KTHS	Berryville, Ark. Thibodaux, La.	1480 630	KVLV KVMA	Woodville, Tex. Fallon, Nev. Magnolia AR	980 630	KWY! KWY!	Wynne AR Sheridan, Wyo.	
KSAC Mannattan, Kans. 300		KRXV F	ort Worth, TX orpus Christi, Tex.	1540 1360	KTIL KTIM KTIP	San Rafael, Calif. Porterville, Calif.	1590 1510 1450	KVMC KVML KVNC	Colorado City, Tex. Sonora, Calif, Winslow, Ariz.	1320 1450 1010	KWYS KWYZ	Winner, S.Dak, W. Yellowstone, Mon Everett, Wash.	1. 920 1230
KSAC Mannattan, Kans. 300		KRZE F	armington, N.M.	1280 1580	KTIS KTIX KTIS	minneapolis, Minn. Pendleton, Ore. Hobart, Okla.	900 1240 1420	KVNI KVNU KVOR	Coeur d'Alene ID Logan, Utah Bastron, La.	1080 610 1340	KXA KXAR KXEG	Seattle, Wash. Hope AR Phoenix AZ	1490 1010
KSDN Aberdeen, S.Dak. 930 KTLQ Tahlequah, Okla. 1350 KVOO Tulsa, Okla. 1170 KXGN Glendive, Mont. 1400		KSAL W	lannattan, Kans.	1150	KTKN KTKR KTKT	Ketchikan AK Taft, Calif, Tucson AZ	930 1310 990	KVOC KVOC	Casper, Wyo. Emporia, Kans. Ogden, Utah	1230 1400 1490	KXEL KXEN KXEN	Waterloo, lowa McFarland, Cal. Festus-St. Louis, Mo.	
KSDN Aberdeen, S.Dak. 930 KTLQ Tahlequah, Okla. 1350 KVOO Tulsa, Okla. 1170 KXGN Glendive, Mont. 1400		KSCB L	iberal, Kans. oux City, Iowa	1360	KTLC KTLD KTLK	Twin Falls, ID Tullulah, La. Denver, Colo.	1270 1360 1280	I KVOM	Morritton AK	560 1330 800	KXE0 KXES KXEV	Mexico, Mo. Salina, CA / Tucson AZ	1340 1570 1600
KSDR Waterton, S.Dak, 1480 KTLW Texas City, Tex. 920 KVOR Colo. Springs, Colo. 1300 KXIT Dalhart. Tex. 1410 KSEE Santa Maria, Calif. 1480 KTMC McAlester, Okla. 1400 KVOU Uvalde, Tex. 1400 KXIV Phoenix AZ 1400		KSD St.	Louis, Mo.	550 930	KTLQ KTLU	Tahlequah, Okla. Rusk, Tex.	1350 1580	KVON KVOD	Napa, Calif. Tulsa, Okla. Plainview Tex	1440 1170	KXEX KXGN KXIC	Fresno, Calif. Glendive, Mont. Iowa City. 1A	1550 1400 800
		KSDR V	Vaterton, S.Dak. anta Maria, Calif.	1480	KTLW	Texas City, Tex.	920	KVOR KVOU	Colo. Springs, Colo. Uvalde, Tex.	1300	KXIT	Dalhart, Tex. Phoenix AZ	1410

1	Call	Location	kHz	Call	Location	kHz	Call	Location	kHz	Call	Location	kHz
	KWPFOR WYEKLWXORABBORXII LORXLIZ SECTION TO THE SECTION OF THE SEC	Forrest City AR Lafayette, La. ortland, Oreg. Ellensburg, Wash. Butte, Mont. Lewiston, Mont. North Little Rock Clayton, MO Spokane, Wash. I Centro, Calif. St. Louis, Mo. Ft. Worth, Tex. Hot Springs AR Sweetwater, Tex. Grafton, ND Clovis, CA Alexandria, Minn. Sloux Falls, S.D. Aberdeen, Wash. Truman AR San Jose, Calif. Sherman, Tex. MocKinney, Tex. Bozeman, Mont. Truman AR San Jose, Calif. Sherman, Tex. MocKinney, Tex. Bozeman, Mont. Trusa, OK Spokane, WA Golby, Kans. Brownwood TX. Bozeman, Tex. Moseburg, Calif. Seattle, WA Prescott A2 Wheatland, Wvo. Pine Bluff, AR Prescott A2 Wheatland, Wvo. Pine Bluff, AR Prescott A2 Wheatland, Wro. Fine Bluff, AR Boseburg, Oreg. Oreg	950 1520 750 1520 750 1370 1370 1370 1320 1330 1360 1360 1360 1360 1360 1370 1320 1380 1360 1360 1360 1360 1360 1360 1360 136	ORSYTKLMNOPASHOYASHOWASHIMORWY ABLMNOSTVYACKFRAEFGILR MORDYASKKKKKKYYEGK MORDYGKCEILNOGRGYTKLMNOPASHOJIR AKASKKKKKYYEGK MORDYGKCEILNOGRGYTKLMNOPASHOJIR AKASKKKKKYYEGK MORDYGKCEILNOGRGYTKLMNOPASHOJIR AKASAKKKKKKYYEGK MORDYGKTATATATATATATATATATATATATATATATATATATA	Oshkosh, WIs. Lumberton, N.C. Bishopville, S.C. Forest City, N.C. Annville-Cleona, Pa. Gainesburg, Ill. Baton Rouge, La. Anderson, S.C. Columbia. Ky. Winston-Salem, N.C. Chicago, Ill. Decatur AL. Winter Park, FL. Morgantown, W.Va. Gainesville FL. Valparaiso, Ind, Mc Minnville, Tenn. McComb, MS Aiken, S.C. Lawrenceville, Ill. Akron, Ohio Fuguay Springs, NC Superior WI Louisville, Ky. Fall River, Mass. Albany, Ga. Patchogue, N.Y. Midoletown, N.Y. Albion, Mich. Humacao, P.R. Herkimer, N.Y. Selma AL. Doneison, Tenn. Aberdeen, Md. Galatin, Tenn. Opp AL. Laurel, Miss. Filnt, Mich. Pittsburgh, Pa. Vanlee, Fla. Wilmington, Del. Amorry, Miss. Anniston AL. Aurence, Fla. Wilmington, Del. Awashington, Ind. Amorry, Miss. Anniston AL. Burkelle, Ky. Anderson, S.C. Richmond, Va. Waynesburg, Pa. Lineville AL. Anniaton, R.A. Albany, Ky. Opelika AL. St. Augustine, Fla. Atlanta, Ga. Vaynesburg, Pa. Lineville, Ky. Anderson, S.C. Richmond, Va. Waynesburg, Pa. Lineville, Ky. Anderson, S.C. Richmond, Va. Waynesburg, Pa. Lineville, Ky. Anderson, S.C. Richmond, Was. Acounda, Fla. Auburn L. Auburn, P.R. Jacksonville, Fla. McComb, Miss. Argadia, FL Birmingham AL. Applicton, Was. Argandia, FL Birmingham AL. Applicton, Mass. Acounda, Fla. Auburn, A. Auburn, A. Auburn, A. Bone, N.C. Gaylord, Mis, Arraer Robins, C. Lafayette, Ind. Brownsville, Pa. Wolfeboro, N.H. Boone, N.C. Gaylord, Mis, Armer Robins, C. Lafayette, Ind. Brownsville, Fla. Auburn, N.Y. Wauchula, Fla. Auburn, Mish, Auburn, N.Y. Wauchula, Estates, Galliwater, Mish, Avondale Estates, Galliwater, Mish, Avondale Estates, Galliwater, Mish, Avondale Estates, Galliwater, Mish, Avondale Estates, Galli	690 1380 1380 1510 1260 1270 1280 1290 1440 1390 1440 1390 1440 1390 1440 1490 1440 1490 1490 1490 1490 14	ACCEGLMPRTYARS. TANKOGRSTYXAGB.GH. ACSOUNCE, LERTTUVXCORORNESTHARD CHGLIPERSTYXAMCHAGAGAAAABB.CHEGJORTYYABBCDEJKARXCAGAAAABBCBEBBBBBBBBBBBBBBBBBBBBBBBBBBBB	West Lafayette, Ind. Cleveland, Tenn, Barnesville, Ga. Burlington, N.C. Baltimore, Md. Montgomery AL Ft. Worth TX Montgomery AL Ft. Worth TX Bartow, Fla. Marion, Ind. Barnweil, S.C. Wilkes-Barre, Pa. Pittsfield, Ill. Burlington Graham, Rochester, N.Y. Abingdon, Va. Blakely, Ga. Richmond, Va. Chicago, Ill. Clarksburg, WV Forest City, N.C. Augusta, Ga. Travelers Rest, S.C. Jacksonville, N.C. Lyons, Ga. Youngstows, Ohlo Portsmouth, N.H. Pona City, Okia. Bay Minette AL Levittown, Pa. Florence, AL Buttle Creek, Mich. Bucyrus, Ohlo Milwaukee WI Union, S.C. Jeanette PA. Escanaba, Mis. Harvey, Ill. Elizabethton, Ry Bedford, Mass. Chillicothe, Ohlo Stanton, KY Bedford, Mass. Bonewille, Ga. Birmingham, Ala. Bryson City, N.C. Huntsville AL Bonton, TN Booneville, Ga. Birmingham, Ala. Bryson City, N.C. Pulaski VA Lenoir City, Tenn. Batesville, Ga. Beromsville, Tenn. Adel, Ga. Bedford, Miss. Koxville, Tenn. Batesville, Miss. Bellefonte, Pa. Levington, Miss. Koxville, Tenn. Batesville, Miss. Bellefonte, Pa. Levington, Miss. Newston, Ga. Springfield, Ohlo Beacon, N.Y. Battery, Md. Belfast, Me. Royston, Ga. Bryon, City, Tenn. Batesville, Miss. Bellefonte, Pa. Levington, Miss. Newston, Ga. Springfield, Ohlo Beacon, N.Y. Battery, Md. Belfast, Me. Royston, Ga. Batteryle, Miss. Bollefonte, Pa. Levington, Miss. Newston, Mls. Royson, Ga. Batteryle, Miss. Bollefonte, Pa. Levington, N.C. Conway, N.H. Boonville, Ind. Bryan, Ohlo Deacon, N.Y. Galax, Va. Salisbury, Md.	920 1340 1090 1090 1090 1090 1090 1290 1480 1480 1480 1280 1280 1280 1280 1280 1280 1280 1280 1380 1380 1380 1380 1380 1480 1480 1580 1280 1380 1380 1480 1580 1690 1690 1780 1890 1	WXYACGMR ^C ACEHMNOSX COGKLIXYAMEES BAGOYB LIMOPROTUSYAACGEKIMQRSTXYOFMXOFPRXTILSTCOHMRRLRBCLORABEIJKLNO [®] GO; RRRSSSSSTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	Somerville, N.J. Berwick, PA Wodbury TN Boaz, AL Bennetsville, S.C. Bennetsville, S.C. Bennetsville, S.C. Bennetsville, S.C. Bennetsville, S.C. Bennetsville, S.C. Bennetsville, O. Williamson, W.V. Uhrichsville, O. Williamson, W.V. Bennington, V.C. Williamson, W.V. Bennington, V.C. Williamson, W.V. Bennington, Ind. Bridgeport, A. Bennington, Ind. Bridgeport, A. Broadway-Timberville Buckhannon, W.V. Trenton, N.J. Ridgeland, S.C. Portage MI Birmingham AL Butler, Pa. Doylestown, Pa. Lexington, N.C. Fredonia, N.Y. Utica, N.Y. Solma, N.Y. Utica, N.Y. Solma, N.Y. Utica, N.Y. Solma, N.Y. Solma, N.Y. Solma, N.Y. Solma, N.Y. Solma, N.Y. Solma, N.Y. John Miss. Carler, Pa. Rutherfordton, F. Rutherfordton, N.C. Fort Myers, Fla. Northfield, Minn. Cambering, Mass. Detroit, Mieh. Cambridge, Mass. Detroit, Mieh. Cambridge, Mass. Detroit, Mieh. Cambridge, Mass. Detroit, Mieh. Cambridge, Mass. Detroit, Mieh. Carbondale, Mass. Detroit, Mieh. Carbondale, Mass. Detroit, Mieh. Carbondale, Mass. Detroit, Mieh. Carbondale, Mass. Northfield, Minn. Caylord NC Richmond, Ky. New York, N.Y. Cumberland, M.D. Canbersburg, Pa. Solumbus, Miss. Martinsville, Ind. Benton, N.C. Carbondale, Pa. Glasgow, Ky. Winneapolis-St. Paul, Clemson, S.C. Curbana, Ill. Traverse City, Mieh. Westhester, Pa. Chilicothe, Mieh. Charlotd, Pa. Glasgow, Ky. Winneapolis-St. Paul, Clemson, S.C. Curbana, Ill. Springfield, Vt. Pastillo, P.R. Bellmont, N.C. Carbondale, Pa. Glasgow, Ky. Winneapolis-St. Paul, Clemson, S.C. Curbana, Ill. Springfield, Vt. Pastillo, P.R. Bellmont, N.C. Carbondale, Pa. Glasgow, Ky. Tenn. Kocky Mount, N.C. Chaboyan, Mieh. Charleton, Mieh. Charloton, Mieh. Charleton, Mieh. Charloton, Mieh. Charloton, Mieh. Charloton, Mieh. Charloton, N.C. Carbondale, Pa. Glasgow, Ky. Carbondale, Pa. Glasgow,	1170 1280 1540 1550 1420 1450 1450 1470 1480 1480 1480 1480 1480 1480 1480 1480 1480 1480 1480 1550 1680
	WADDE WADDE WADDR WADDR WADDS WAEEL WAGEG WAGEG	Shelby, N.C. Parkersburg, WV Wadesboro, N.C. Newport, R.I. Decatur, Ind. New York, N.Y. Remsen, N.Y. Ansonia, Conn. Allentown, Pa. Mayaquez, P.Rico Crossville, Tenn. Prinecton WV Centre AL Leesburg, Va. Dothan AL Franklin, Tenn. Lancaster, S.C. Lancaster, S.C. Presque Isle, Malne Menominee, Mich.	570 1460 1150 1050 1420 1600 1390	WAVZ WAWA WAWK WAXE WAXU WAYB WAYC	Avondare Estates, Ga Ft. Lauderdale, Fla. Albertville, Ala. New Haven, Conn. West Allis, Wis. Kendallville, Ind. Vero Beach, Fla. Georgetown, Ky. Waynesboro, Va. Bedford PA Ozark AL Baltimore, Md. Lehigh Acres, Fla. Richfield, MN Rockingham, N.C. Orange Park, Fla. Charlotte, N.C. Wayseross, Ga. Chippewa Falls WI Waynesboro, Pa. Clippewa Falls WI Waynesboro, Pa. Claro City, Miss. Summerville, S. C. Lafayette. Ind.	1300 1590 1140 1370 1580	WBOOL WBOOL WBOOP WBBOOZ WBBOZ WBBOZ WBBOZ WBBRG WBRRE WBRRE WBRRE WBRRI WBRG	Oneida, Tenn. New York, N.Y. Galax, Va. Salisbury, Md. New Orleans, La. Bolivar, Tenn. Baraboo, Wis. Pensacola, Fla. Terre Haute, Ind. Bogalusa, La. San German, PR. Lock Haven, Fa. Barceloneta, PR. Mt. Clemens, Mich. Bradenton, Fla. Wilkes-Barre, Pa. Lynchburg, Va. ndinapolis, Ind. Marietta, OH Pittsfeld, Mass. Berlin, N.H. Bardstown, K.Y. Maynestown, K.Y. Waynesboro, Ga. Boonville, N.Y.	1230 1560 740 980	WCJIU WCJW WCKE WCKC WCKY WCKY WCLB WCLD WCLD WCLD WCLD WCLD WCLD WCLD WCLD	Soddy Daisy, TN Charlottesyille, Va. Luncos, PR Juncos,	1450 1140 780 1490

Call Location kHz	Call Location kHz	Call Location kHz	Call Location kHz
WCMD Cumberland, MD 1230	WDLM E. Mollne, Iti. 960	WENY Elmira, N.Y. 1230	WFSO Pinelias. Fig. 570
WCMG Jacksonville FL 1050 WCMI Ashland, Ky. 1340 WCMN Arcelbo, P.R. 1280 WCMP Pine City, Minn. 1350	WDLP Panama City, Fla. 590 WDLT Indianola, Miss. 1380 WDME Dover-Foxcroft, Me. 1340	WENZ Highland Springs, Va. 1450 WEOK Poughkeepsie, N.Y. 1390	WFSP Kingwood, W. Va. 1560
	WDMG Douglas, GA 860 WDMJ Marquette, Mich. 1320	WEDI Flyria Ohlo 930	WFTG Kinston, N.C. 960 WFTG London, Ky. 1400
WCMS Norfolk, Va. 1050 WCMT Martin, Tenn, 1410	WUNG Durnam, N.G. 620	WEPG S. Pittsburgh, Tenn. 910 WEPM Martinsburg, W.Va. 1340	WFIL Ft. Lauderdale, Fla. 1400 WFTM Maysville, Ky. 1240 WFTN Franklin, N.H. 1240
WCMY Ottawa, III 1430 WCNB Connersville, Ind. 1580 WCNC Elizabeth City, N.C. 1240	WDNE Elkins, W.Va. 1240 WDNG Anniston, AL 1450 WDNT Dayton, Tenn. 1280	WERA Plainfield, NJ 1590	WFTO Fulton, Miss. 1330 WFTP Ft. Pierce, FL 1330 WFTQ Worcester MA 1440
WCND Shelbyville, Ky. 940 WCNH Quincy, Fla. 1230	WDOC Prestonsburg, Ky. 1310 WDOD Chattanooga, Tenn. 1310	WERD Jacksonville, FL 1400 WERE Cleveland, Ohio 1300	WFTR Front Royal, Va. 1450 WFTW Ft. Walton Beach,
WCNR Bloomsburg, Pa. 930 WCNU Crestview, Fla. 1010	WDOE Dunkirk, N.Y. 1410 WDOG Allendale, S.C. 1450 WDOL Athens, Ga. 1470	WERI Westerly, R.I. 1230 WERK Muncle, Ind. 990	Fia. 1260 WFUL Fulton, Ky. 1270 WFUR Grand Rapids, Mich. 1570 WFVA Fredericksburg, Va. 1230 WFVA Aurora 1580
WCNX Middletown, Conn. 1150 i	WDON Wheaton, Md. 1540 WDOR Sturgeon Bay, Wls. 910 WDOS Oneonta, N.Y. 730	WERT Van Wert, Ohio 1220 WESA Charlerol, Pa. 840	WFVA Fredericksburg, Va. 1230 WFVR Aurora IL 1580 WFWL Camden, Tenn. 1220
WCOA Pensacola, Fla. 1370 WCOC Meridian, Miss. 910 WCOG Greensboro, N.C. 1320 WCOH Newnan, Ga. 1400	WDOV Dover, Del. 1410 WDOT Burlington, Vt. 1400	WESB Bradford, Pa. 1490 WESC Greenville, S.C. 660 WESL E. St. Louis IL 1490	WFWL Camden, Tenn. 1220 WFWR Ft. Wayne, Ind. 1090 WFXY Middlesboro, KY 1560 WFYC Alma, Mich. 1280
WCOJ Coatesville, Pa. 1420 WCOK Sparta, N.C. 1060	WDQN DuQuoin, 11t. 1580 WDRC Hartford, Conn. 1360	WESO Southbridge, Mass. 970 WESR Tasley Va 1330	WGAA Cedartown, Ga. 1340 WGAC Augusta, Ga. 580
WCON Cornella, Ga. 1450 WCOR Lebanon, Tenn. 900	WDSC Dillon, S.C. 800 WDSG Dyersburg, Tenn. 1450 WDSK Cleveland, Miss. 1410	WESX Salem. Mass. 1230 WESY Leland. Miss. 1580	WGAD Gadsden AL 1350 WGAF Valdosta, Ga, 910 WGAI Elizabeth City, N.C. 560
WCOS Columbia, S.C. 1400 WCOU Lewiston, Maine 1240 WCOV Montgomery AL 1170 WCOW Sparta, Wis. 1290	WDSL Mocksville, N. C. 1520 WDSM Superior, Wis. 710 WDSR Lake City, Fia. 1340	WETB Johnson City, Lenn. 790 WETC Wendell-Zebulon, N.C. 540 WETO Deland. Fig. 1490	WGAL Lancaster, Pa. 1490 WGAN Portland, Maine 560 WGAP Maryville, Tenn. 1400 WGAR Cleveland, Ohio 1220 WGAT Cree-like V6
	WDSU New Orleans, La. 1280 WDTM Selmer, Tenn. 1130	WETT Ocean City, Md. 1590 WETU Wetumpka AL 1250 WETZ New Martinsville,	WGAR Cleveland, Ohio 1220 WGAT Gate City, Va. 1050
WCOY Columbia, Pa. 1580 WCPA Clearfield, Pa. 900 WCPC Houston, Miss. 940 WCPH Etowah, Tenn, 1220	WDUR Durham NC 1490 WDUX Waunaea Wis. #06	West Virginia 1330 WEUC Ponce, P.R. 1420	WGAU Athens, Ga. 1340 WGAW Gardner, Mass. 1340 WGAY Silver Spring MD 1050 WGBB Freeport N.Y. 1240 WGBF Evansville, Ind. 1280
WCPH Etowah, Tenn. 1220 WCPK Chesapeake, Va. 1600 WCPL Pageland SC 1510	WDUZ Green Bay, WI 1400 WDUA Danylle, Va. 1250 WDUH Gainesville, Fla 980	WEVA Emporia, Va. 880 WEVD New York, N.Y. 1330	
WCPM Cumberland, Ky. 1280 WCPR Coamo, P. R. 1450 WCPS Tarboro, N.C. 760	WDVL Vineland, N.J. 1270 WDWO Dawson, Ga. 990 WDWS Champalgn, 111. 1400	WEVE RIVER Falls. Wis. 1550	WGBI Scranton, Pa. 910 WGBR Goldshore, N. C. 1150
WCRA Emngham, III. 1090 WCRE Cheraw, S.C. 1420	WDXB Chattanooga, Tenn. 1490 WDXE Lawrenceburg, Tenn. 1370	WEWO Laurinburg, N.C. 1080 WEXI Jacksonville, FL 1280	WGCH Greenwich, Conn. 1490
WCRI lacksonville. FL 1530	WDXI Jackson, Yenn. 1310 WDXL Lexington, Tenn. 1490 WDXN Clarksville, Tenn. 840	WEXM Jamesville, VA 1920 WEXY Oakland Park, Fla. 1520	WGEA Geneva AL 1150
WCRK Morristown, Tenn. 1150 WCRL Oneonta AL 1570 WCRO Johnstown, Pa. 1230 WCRS Greenwood S.C. 1450	WOXI Jacksun, 1610. WDXL Lexington, Tenn. 1490 WDXN ClarksvIIIe, Tenn. 540 WDXR Puducah, Ky. 1560 WDXY Sumter, S.C. 1240 WDXY Sumter, G.A 1480 WDZ Decatur, III. 1080	WEYE Sanford, N.C. 1290 WEYY Talladega, AL 1580 WEZE Boston, Mass. 1260	WGEN Capacan III. 1440
WCRS Greenwood, S.C. 1450 WCRT Birmingham AL 1260 WCRV Washington, N.J. 1580 WCRW Chicago, III. 1240	WDZY Pine Castle-Sky Lake.	WEZJ Williamsburg, Ky. 1440 WEZQ Winfield AL 1300 WFAA Dallas-Ft. Worth TX 570	WGEZ Beloit, Wis. 1490 WGFA Watseka, III. 1380
WCRW Chicago, III. 1240 WCSA Ripley, Mass. 1260 WCSC Charleston, S.C. 1390	FL 1190 WEAR Green & C 600	WFAB Juncos, PR 1460 WFAD Middlebury, Vt. 1490	WGFT Youngstown, OH 1500 WGGA Gainesville, Ga, 550
WCSA Ripley, Mass. 1260 WCSC Charleston, S.C. 1399 WCSC Portland, Maine 970 WCSI Columbus, Ind. 1016 WCSI Morris, III. 1850	WEAG Alcoa, Tenn. 1470 WEAL Greensboro, N.C. 1510	WFAG Farmville, N.C. 1250 WFAH Alliance, Ohlo 1310 WFAI Fayetteville, N.C. 1230	WGGG Gainesville, Fla. 1230 WGGH Marion, III. 1150 WGGM Chester VA 1410
WCSM Celina, Ohio 1350	WEAG Fau Claire, Wis. 790	WFAN Washington, DC 1340 WFAR Farrell, Pa. 1470	WCCO Salamanaa N V 1800
WCSS Amsterdam, N.Y. 1490 WCST Berkeley Springs.	WEAS Savannan, Ga. 900 WEAT W. Paim Beach, Fia. 850	WFAW Ft. Atkinson, Wis. 940	WGH Newport News, Va. 1310 WGHC Clayton, Ga. 1570 WGHN Grd, Haven, Mich. 1370 WGHQ Kingston, N.Y. 920 WGHC Xenia, O. WGIG Brunswick, Ga. 1440
W.Va. 1010 WCSV Crossville, TN 1490 WCSW Shell Lake, Wia. 940 WCTC New Brunswick, N.J. 1450	WEAW Evanston, III. 1330 WEBB Baltimore, MD 1360	WFAX Falls Church, Va. 1220 WFBA San Sebastion, P.R. 1460 WFBC Greenville, S.C. 1330	WGIC Xenia, O. 1500 WGIG Brunswick, Ga. 1440 WGIL Galesburg, III, 1400
WCTC New Brunswick, N.J. 1450 WCTM Eaton, Ohio 1180 WCTN Potomae-	WEBC Duluth, Minn. 560 WEBJ Brewton AL 1240 WEBO Owego, N.Y. 1330	WFBG Altoona, Pa. 1290 WFBL Syracuse, N.Y. 1390 WFBR Baltimore, MD 1300	WGIR Manchester, N.H. 610 WGIV Charlotte, N.C. 1600 WGKA Atlanta, Ga. 1190 WGKR Perry FL 1310 WGLESTE WORKE 1250
Cabin John MD 1300 WCTR Chestertown MD 1530	WEBQ Harrisburg, III. 1240	WFBS Spring Lake, N. C. 1450 WFBZ Minocqua WI 1570	
WCTT Corbin, Ky. 680 WCTW New Castle, Ind. 1550 WCUB Manitowot, Wis. 980 WCUE Cuyahooa Falis, Ohio 1150	WEBS Calhoun, Ga. 1110 WEBS Calhoun, Ga. 1110 WECL Eau Claire, WIs. 1050 WECO Wartburg, TN 940 WECP Carthage, MS 1480 WEDC Chicago, III. 1240 WEDS Soddy Tenn 1240	WFCM Winston-Salem, N. C. 1550 WFDF Flint, Mich. 910 WFDR Manchester, Ga, 1370	WGLB Port Wash., Wis. 1580 WGLC Mendota, III. 1090 WGLO High Point, NC 1590 WGLR Lancaster, WI 1280
WCUZ Grand Rapids M1 1230		W FEA Manchester, N.H. 1370 W FEB Sylacauga AL 1340	WGLI Babylon, N.Y. 1290 WGLX Galion, OH 1570
WCVA Culpeper, Va. 1490 WGVC Tallahasee, FL 1330 WCVI Connellsville, Pa. 1340	WEDO McKeesport, Pa. 810 WEEB Southern Pines, N.C. 990 WEED Rosky Mount. N.C. 1390	WFEC Harrisburg, Pa. 1400 WFFG Marathon, Fla. 1300 WFGL Fitchburg, Mass. 960 WFGN Gaffney, S.C. 1570 WFGS Milton FL. 1330	WGMA Hellywood, Fig. 1320 WGMF Watkins Glen, N.Y. 1500
WCVL Crawfordsville, Ind. 1550	WEEU Waynesboro, Pa. 1130 WEEI Boston, Mass. 590 WEEL Fairfax, Va. 1310	I WEGW Black Mountains.	WGML Hinesville, G> 990 WGMS Bethesda, Md 570 WGN Chicago, III. WGNB Indian Rocks Beach,
WCVP Murphy, N.C. 600 WCVR Randolph, Vt. 1520 WCVS Springfield, III. 1450 WCWA Toledo, 0. 1230 WCWC Ripon, Wis. 1600 WCWR Coosa Beach FL 1350 WCYR Cynthiana, Ky. 1400 WDAD Indiana, Pa. 1450 WDAB Tampa, Fla. 1250 WDAF Kansas City, Mo. 610 WDAK Clumbus, Ga. 640 WDAN Danville, III. 1490 WDAN Darlington, Sc. 1350	WEEN Lafayette, Tenn. 1460	N.C. 1010 WFHG Bristol, Va. 980 WFHK Pell City AL 1430 WFHR Wis. Rapids, Wis. 1320 WFIA Individual West. 1000	WGNB Indian Rocks Beach, FL 1820 WGNC Gastonia, N.C 1450
WCWC Ripon, Wis. 1600 WCWR Cocoa Beach FL 1350 WCYN Cynthiana Ky 1400	WEET Richmond, VA 1320 WEEU Reading, Pa. 650	WFHR Wis. Rapids, Wis. 1320 WFIA Louisville, Ky. 900 WFIC Collinsville, Va. 1530	WGNE Panama City Beach, Fla. 1480 WGMG Pawtucket RI 550
WCYN Cynthiana, Ky. 1400 WDAD Indiana, Pa. 1450 WDAE Tampa, Fla. 1250 WDAF Kansas City, Mo. 610	WEEW Washington, N.C. 1320 WEEX Easton, Pa. 1230 WEGA Vega Baja, P. R. 1350	WFIF Milford, Conn. 1500 WFIG Sumter, S.C. 1290	WGNI Wilmington, N.C. 1450 WGNS Murtreesboro, Tenn. 1450
WDAK Clumbus, Ga. 540 WDAN Danville, III. 1490 WDAR Darlington, S.C. 1350	WEGG Rose HIII, N.C. 710 WEGO Concord, N.C. 1410 WEGP Presque Isle, Maine 1390	WFIL Philadelphia, Pa. 580 WFIN Findlay, Ohio 1330 WFIR Roanoke, Va. 980	WGNU Granite City, III. 920 WGNY Newburgh, N.Y. 1220
WDAR Darlington, S.C. 1350 WDAS Philadelphia, Pa. 1480 WDAT Ormond Beach, Fla. 1380	WEHH Elmira Helghts- Horseheads, N.Y. 1590 WEIC Charleston, III. 1270	WFIS Fountain Inn, S.C. 1600 WFIV Kissimmee, Fla. 1080 WFIW Fairfield, III. 1390	WGOC Kingsport, Tenn. 1990 WGOE Richmond, Va. 1590 WGOG Walhalla, S.C. 1000
WDAX McRae, Ga. 1410 WDAY Fargo, N. Dak. 970 WDBC Escanaba, Mish. 680	WEIF Moundsville, W. Va. 1370 WEIM Fitchburg, Mass. 1280	WFIX Huntsville AL 1450 WFJT Inez, KY 1590 WFKN Franklin, Ky. 1220	WGOH Grayson, Ky. 1370 WGOK Mobile AL 900 WGOM Marion, Ind. 860
WDBF Delray Beach, Fla. 1420 WDBL Springfield, Tenn. 1590	WEIR Weirton, W.Va. 1430 WEIS Centre AL 990 WEJL Scranton, Pa. 630	WFKY Frankfort, Ky. 1490 WFLA Tampa, Fla. 970	WGOR Toledo, OH 1520 WGOS High Point, NC 1070
WDBM Statesville, N.C. 550 WDBO Orlando, Fla. 580 WDBQ Dubuque, Iowa 1490	WEKG Jackson, Ky. 810 WEKO Cabo Rojo, P.R. 930 WEKR Fayetteville, Tenn. 1240	WFLB Fayetteville, N.C. 1490 WFLI Lookout Mountain- Chattanooga TN 1070	WGOW Chattanooga, TN 1150 WGPA Bethlehem, Pa. 1100
WDCF Dade City, Fia. 1950 WDCL Dunedin FL 1470 WDCR Hannyer, N.H. 1940	WEKY Richmond, Ky. 1340 WEKZ Monroe, Wis. 1260 WELB Elpa AL 1350	WFLN Philadelphia, Pa. 900 WFLO Farmville, Va. 870 WFLR Dundee, N.Y, 1570	WGPC Albany, Ga. 1450 WGR Buffalo, N.Y. 550 WGRA Cairo, Ga. 790
WDCR Hanover, N.H., 1340 WDDL Lancaster, PA 1490 WDDO Macon GA 1240 WODT Greenvile, Miss. 900	WELC Welch, W.Va. 1150 WELD Fisher, W.Va. 690	WFLS Fredericksburg, Va. 1350 WFLW Monticello, Ky. 1360 WFMC Goldsboro, N.C. 730	WGRC Spring Valley, NY 1300 WGRD Grand Rapids, Mich. 1410 WGRI Griffin, Ga. 1410
WDDY Gloucester, Va. 1420 WDEA Elisworth, Me. 1370	WELE S. Daytona, Fia. 1590 WELI New Haven, Conn. 960 WELK Charlottesville, Va. 1010	WFMD Frederick, Md. 930 WFMH Cullman, AL 1460 WFMJ Youngstown, Ohlo 1390	WGRK Greensburg, KY 1550 WGRM Greenwood, Miss. 1240
WDEB Jamestown, Tenn, 1500 WDEC Americus, Ga. 1290 WDEE Detroit, Mich. 1500	WELM Elmira, N.Y. 1410 WELO Tupelo, Miss. 580 WELP Easley, S.C. 1380	WFMO Fairmont, N.C. 860 WFMW Madisonville, KY 730	WGRP Greenville, Pa. 940 WGRV Greeneville, Tenn, 1340
WDEF Chattanooga, Tenn. 1370 WDEH Sweetwater, Tenn. 800 WDEL Wilmington, Del. 1150	WELR Roanoke AL 1360 WELS Kinston, N.C. 1010 WELV Ellenville, N.Y. 1370	WFMT Chicago, IL 1450 WFNC Fayetteville, N.C. 940 WFNL North Augusta, SC 1600	WGRY Grayling, Mich. 1590 WGSA Ephrata, Pa. 1310 WGSB Geneva, III. 1480
WDEN Macon, Ga. 1500 WDEV Waterbury, Vt. 550	WELW Willoughby, O. 1330 WELX Xenia, O. 1110	WFNL North Augusta, SC 1600 WFOB Fostoria, Ohio 1430 WFOG Suffolk, VA 1450 WFOM Marietta, Ga. 1230	WGSM Huntington, NY 740 WGSO New Orleans LA 1280 WGSR Millen Ga 1570
WDGL Douglasville, Ga. 1520 WDGS New Albany IN 1290 WDGY Minneapolis, Minn, 1130	WELY Ely, MN 1450 WELZ Beizoni, Miss. 1460 WEMB Erwin, Tenn. 1420	WFOR Hattiesburg, Miss. 1400 WFOY St. Augustine, Fia. 1240 WFPA Fort Payne AL 1400	WGST Atlanta, Ga. 920 WGSV Guntersville AL 1270
WDHN Hanesdale PA 1590 WDIA Memphis, Tenn, 1070 WDIC Clinchco, Va, 1430	WEMD Easton, Md. 1460 WEMJ Laconia, N.H. 1490 WEMP Milwaukee, Wis. 1250	WFPA Fort Payne AL 1400 WFPG Atlantic City, N.J. 1450 WFPM Fort Valley, Ga. 1150 WFPR Hammond, La. 1400	WGTL Kannapolls NC 870 WGTM Wilson, N.C. 590
WDIC Clincheo, Va. 1430 WDIG Dothan AL 1450 WDIX Orangeburg, S.C. 1150 WDIS Mt. Oliva. N.C. 1430	WENA Penuelas, PR 1330 WENC Whiteville, N.C. 1220 WEND Ebensburg, Pa. 1580	WFPR Hammond, La. 1400 WFRA Franklin, Pa. 1450 WFRB Frostburg, Md. 560	WGTN Georgetown, S.C. 1400 WGTO Cypress Gardens, Fla. 540 WGTR Natick, Mass, 1060
WDJS Mt. Olive, N.C. 1430 WDJZ Bridgeport, Conn. 1530 WDKD Kingstree, S. C. 1310 WDKN Dickson Tenn. 1280	WENE Endicott, N.Y. 1430 WENG Englewood, Fla. 1530 WENK Union City, Tenn. 1240	WFRB Frostburg, Md. 560 WFRC Reidsville, N.C. 1600 WFRL Freeport, 111. 1570 WFR: Coudersport, Pa. 600	WGN Chicago, III. 720 WGNB Indian Rocks Beach, FL WGNC Gastonia, N.O. 1450 WGNE Panama City Beach, Fla. 1480 WGNG Pawtucket RI 550 WGNG WGNG Pawtucket RI 550 WGNG Wall Wilmington, N.C. 1450 WGNS Murtresboro, Tenn. 1450 WGNS Murtresboro, Tenn. 1450 WGNS Murtresboro, Tenn. 1450 WGNT WINDIGHT, N.Y. 1220 WGNT Grante City, III. 920 WGNT Grante City, III. 920 WGOC Kingsport, Tenn. 1090 WGOC Malhalia, S.C. 1000 WGOK Mobile AL 900 WGOK Mobile AL 900 WGOK Mobile AL 900 WGOK Mobile AL 900 WGOK High Point, NC 1070 WGOV Valdosta, Ga. 1570 WGOV Valdosta, Ga. 1500 WGNG WGN High Point, NC 1070 WGOV Albany, Ga. 1450 WGRA Buthlehem, Pa. 1100 WGRA Cairo, Ga. 950 WGRA Cairo, Ga. 1450 WGRA Cairo, Ga. 1450 WGRA Greensburg, XY 190 WGRA Ephrata, Pa. 1400 WGRA Greensburg, XY 190 WGRA Ephrata, Pa. 1400 WGRA Huntington, NY 740 WGSA Ephrata, Pa. 1500 WGSA MIllen, Ga. 1570 WGSA Summerville, Ga. 950 WGST Atlanta, Ga. 820 WGSY Guntersville AL 1270 WGTA Summerville, Ga. 950 WGTA Kannapolls NC 870 WGTA Summerville, Ga. 950 WGTA Coverses Gardens, Fla. 540 WGTA DeFuniak Springs, Fla. 540 WGUF Gulfport, MS 1130
WDCF Dade City, Fis. 1880 WDCL Dunedin F.H. 1470 WDDR Hanover, N.H. 1840 WDDL Lancaster, PA 1490 WDDD Macon GA 1240 WDDT Greenvile, Miss. 900 WDDY Glouester, Va. 1420 WDEA Elisworth, Me. 1870 WDEB Jamestown, Tenn. 1500 WDEL Amerieux, Ga. 1290 WDEE Chattanooga, Tenn. 1870 WDEE Chattanooga, Tenn. 1870 WDEE Wilmington, Del. 1150 WDEN Macon, Ga. 1500 WDEL Wilmington, Del. 1550 WDEL Wilmington, Del. 1550 WDEL Outpraytie, Ga. 1500 WDGS NewAlbany IN 1290 WDGS NewAlbany IN 1290 WDGS NewAlbany IN 1870 WDGS Ne	WEER Warrenton, Va. WEET Richmond, VA. WEET Richmond, VA. WEEU Reading, Pa. WEEW Washingten, N.C. WEEW Sachingten, Sachingte	WFRO Fremont, Ohio 900 WFRX West Frankfort, III. 1300 WFSC Franklin, N.C. 1050	WGUF Gulfport, MS 1130 WGUL New Port Richey, Fla. 1500 WGUN Atlanta GA 1010
WDLB Marshfield, WI 1450 WDLC Port Jervis, N.Y. 1490 WDLR Delaware. Ohio 1550	WENT Gloversvills- Johnston NY 1340	WFH & Bristol, Va. 980 WFHK Pell City AL 1430 WFHR Wis, Raplds, Wis. 1320 WFHR Wis, Raplds, Wis. 1320 WFHR Collinsville, Va. 1530 WFIC Collinsville, Va. 1530 WFIC Collinsville, Va. 1530 WFIC Collinsville, Va. 1530 WFIC Gonn, 1500 WFIC Sumter, S.C. 1290 WFIC Philadelphia, Pa. 580 WFIN Findlay, Ohio 1330 WFIN Findlay, Ohio 1330 WFIN Findlay, Ohio 1330 WFIN Foankle, Va. 980 WFIS Fountain Inn, S.C. 1600 WFIN Farnfield, Ill, 1390 WFIN Farnfield, Ill, 1390 WFIN Farnfield, Ill, 1390 WFIN Franklin, Ky. 1590 WFIN Tranklin, Ky. 1490 WFIN Tranklin, Ky. 1490 WFKN Franklin, Ky. 1490 WFKN Franklin, Ky. 1490 WFKN Franklin, Ky. 1490 WFKN Franklin, Ry. 1490 WFKN Franklin, Ry. 1490 WFKN Franklin, Ry. 1590 WFKN Franklin, Ry. 1590 WFKN WFN Franklin, Pa. 970 WFLD Farmville, N.C. 1570 WFLD Farmville, N.S. 1570 WFLD Farmville, N.Y. 1570 WFLN Frederick, Md. 930 WFM Goldsboro, N.C. 730 WFM Goldsboro, N.C. 730 WFM Goldsboro, N.C. 730 WFM Goldsboro, N.C. 730 WFM Goldsboro, N.C. 880 WFM H Gullman, AL 1460 WFM Madisonville, KY 730 WFM T Chicago, IL 1450 WFM T Chicago, I	WGUS North Augusta, S.C. 1380

Call	Location	kHz	Call, Location	kHz	Call	Location	kHz	Call	Location	kHz
YAMCRSV [®] GIKLMNPRSTVVN [®] BCFGLISOGUYCOUFHLMBCWISOPHB [®] BHIL MHITVY [*] COUNCESTYNTSTYNT AAAAAAABBBBBBBCCCCUFHLMBCWISOPHB [®] BHIL MHITVY [*] COUNCESTYNTSTYNT AAAAAAABBBBBBBCCCCUFHLMBCWISOPHB [®] BHILHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	Bangor, Maine Geneva, N.Y. Greenville, Miss. Sefma, Ala. Asheboro, N.C. chenectady, N.Y. Greenville, Ala Asheboro, N.C. chenectady, N.Y. Greenville AL Adadison, Wis. Halfway, Md. Greenfield, Mass. Rogers City. Mile, Tenn. Rochester, N.Y. Halnes City, Fis. Hopewell, Va. Clarksburg, W.Va. Louisville, Ky. Philadelphia, Pa. Haverhill, Mass. Weston, W.Va. Troy, N.Y. cansas City, Mo. Selma AL Canton, Ohlo Rock Island, III. Harrisonburg, Va. Sheboygan, Wis. Harrisonburg, Va. Waynesville, N.C. South Boston, Mass. Olean, N.Y. McKenzie, Tenn. Anderson, Ind. Anpieton, Wis. Waynesville, N.C. Syracuse, N.Y. Strart, Va. Foley AL Wartham, MA Benton Harbor-St. Houghton L., Mich. Houghton L., Mich. Houghton L., Mich. Houghton L., Mich. Hornell, N.Y. Lucedele, Miss. Hilsville, Va. Montgomery AL 1-ardinsburg, Ky. Siriffin, Ga. Lay Springs, Miss. Foley AL Warten, Ohlo Greensburg, Pa. Montgomery AL 1-ardinsburg, Ky. Siriffin, Ga. Lay Springs, Miss. Holysille, Va. Montgomery AL 1-ardinsburg, Pa. Harlan, Ky. Jewson, AL Lucedele, Mis. Hillsville, N.C. Moulton, Ala. Laresville, Ohlo Greensburg, W.Va. Henderson, N.C. Moulton, Ala. Laresville, Ohlo Greensburg, W.Va. Bloomsburg, Pa. Harlan, Ky. Va. Bloomsburg, Pa. Harlan, Ky. Anniston AL Howell, Mich. Jackson, AL Lanesster, Ohlo Allentown, Pa. Conterville, Ind. Orlardo, Fla. Houghton, Miss. Houghinsville, C. Hartsville, Ky. Decatur AL Lanester, Ohlo Conterville, Ind. Orlardo, Fla. Hopkinsville, C. Hartsville, S. Hollardshurg, Miss. Hollardshurg, Miss. Hollardshurg, Miss. Holy Ry. Hollardshurg, Miss. Hollardshurg,	1250 1240 1260 1260 1380 1380 1380 1390 1410 980 1180 980 1340 1490 1490 1490 1490 1490 1270 1380 1390 1490 1490 1270 1490 1290 1490 1290 1290 1490 1490 1290 1490 1490 1490 1490 1590 1690 1690 1690 1690 1690 1690 1690 16	Call. Location WHYN Springfield, Mass. WHYP North East, Pa. WHYP Clarksville, Ind. WHAM Milliamston, N.C. WHAM Malliamston, N.C. WHAM Malliamston, N.C. WHAM Malliamston, N.C. WHAM Malliamston, M.C. WHAM Malliamston, M.C. WHAM Malliamston, M.C. WHAM Malliamston, M.C. WHAM Malliamston, Whith Malliamsto	560 1530 1110 1300 1110 1300 1310 1300 1310 1280 1470 1310 1280 1490 1310 1490 1390 1390 1390 1390 1490 1490 1540 1490 1540 1490 1540 1540 1490 1540 1540 1490 1540 1540 1490 1540 1600 1600 1600 1600 1600 1600 1600 16	WALATAYAZBEDBERGANGXXBACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Location Jackson. TN Marion AL Providence, R.I. Swainsboro, Ga. Jacksonville, Fla. Mullins, S.C. Albany, Ga. Haleyville AL Bloomington, Ill. Salom. Ill. Salom. Ill. Knoxville, Tenn. Holland. Mich. Jerseyville, Ill. Baton Rougle, La. Westbrook-Portland, Gadsden AL Seymour, Ind. Jackson, Miss. Jackson, Miss. Jackson, Miss. Salisbury, Md. Gladwin, MI Gallipolis, Ohlo Hagerstown, Md. Valdosta, Ga. Dover-New delphia, O. Johnston SC Erick, Pa. Jefferson City, Tenn. Vicksburg, MS Jackson, Ga. Jorenson, Ga. Jorenson, Ga. Jorenson, Ill. Lansing, Mich. New York, NY Commerce, Ga. Chicago, Ill. Lansing, Mich. New York, NY Commerce, Ga. Chicago, Ill. Lansing, Mich. New York, NY Commerce, Ga. Chicago, Ill. Lansing, Will. Hartsville, Tenn. Jamestown, Ky. Detroit, Mich. Fairfield AL Sauchand, Vy. Beackley, W.Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Va. Brookhaven, Miss. Rice Lake, Wis. Potoskey, Mich. Orrange, Miss. College, Miss. College,	1450 1310 1320 1380 1380 1380 1380 1380 1380 1380 1480 1480 1380 1480 1480 1380 1480 1480 1480 1480 1480 1480 1480 14	CIJKINGGENVKXYNDOGONYTUSQGODDDHEGIERENSYTYPOHITEGJOYNAKARAKAKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	Location N. Wilkesboro, N.C. St. Marys, Pa. Milan, Ton. Keene, N.H. Covington, Tonn. Youngstown, Ohie Harrisburg, Pa. Garner, N.C. Savannah, GA Chatham, Va. Muskegon, Mieh. Hindman, KY Orocovis, PR Lewispert, KY Bowling Green, Ky. Corinth, Miss. (Warrenton, Va. Nashville, Ton. Elmhurst, I.L. Altavista, Va. 1 Ashland, VA. Newberry, S.C. Clarksdale, Miss. Liberty, Ky. Frankfort, KY. Frankfort, KY. Frankfort, KY. Frankfort, KY. Frankfort, KY. Huntington, W. Va. Washington, P.R. Codiz, Ky. Frankfort, KY. Huntington, W. Va. Washington, P.R. Galiz, Ky. Frankfort, KY. Huntington, W. Va. Washington, P.R. Galiz, Ky. Frankfort, KY. Huntington, W. Va. Washington, P.R. Galiz, Ky. Frankfort, KY. Huntington, W. Va. Handet, M. Huntington, W. Va. Washington, P.R. Govington, Va. Wilmington, W. Va. Handet, M. Holly Hill SC. Hackson, Mich. Kingsport, Tenn, Lenoir, N.C. Holly Hill SC. Albans, W. Va. Clanton AL Lenoir, N.C. Muskegon Heights, Rockford, I. Hibbing, M. Vanceburg, F.R. Rockford, I. Hibbing, M. Vanceburg, Va. Rockford, I. Raleigh, N.C. Ky. Covington, W. Ky. Deland F. Ludington, Mel. Kingsport, Tenn, Carylille, Ga. Gantier, M.R. Swellskon, M.S. Swellskon, M.S. 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WKVE Cave City, KY 800 WKVI Knox, Ind. 1520	WLRC Whitehall, Mich. 1490 WLRO Lorain, Ohio 1380	WMPC Lapeer, Mich. 1230 WMPL Hancock, Mich. 920	WNVA Norton, Va. 1350 WNVL Nicholasville, Ky. 1250
WKVM San Juan, P.R. 810 WKVO Havelock, N.C. 1330	WLRV Lebanon, VA 1380 WLS Chicago, 111. 890	WMPM Smithfield, N.C. 1270 WMPO Middleport-Pomeroy,	WNVY Pensacola, Fla. 1230 WNWI Valparaiso, Ind. 1080
WKVT Brattleboro, Vt. 1490	WLSC Loris, S.C. 1570	Ohio 1390 WMPP Chicago Heights, 111. 1476 WMPS Memphis, Tenn. 680	WNWS South Miami FL 790 WNXT Portsmouth, Ohlo 1260 WNYC New York, N.Y. 830
WKWF Key West, Fla. 1600 WKWK Wheeling, W.Va. 1400 WKWM Kentwood, M! 1140	WLSD Big Stone Gap, Va. 1220 WLSE Waltace, N.C. 1400 WLSH Lansford, Pa. 1410	WMPT S. Williamsport, PA 1450 WMPX Midland, MI 1490	WNYG Babylon, NY 1440 WNYN Canton, O. 900
	WLSI Pikeville, Ky. 900	WMQM Memphis, Tenn. 1480 WMRB Greenville, S.C. 1490	WNYR Rochester, N.Y. 680 WOAI San Antonio, Tex. 1200
WKXO Berea, KY 1500 WKXR Exeter, N.H. 1540	WLSQ Montgomery, AL 950	WMRC Milford, Mass. 1490 WMRE Monroe, Ga. 1490	WOAP Owesso, Mich. 1080 WOAY Oak Hill, W.Va. 860
WKXV Knoxville, Tenn. 900 WKXY Sarasota, Fla. 930 WKY Oklahoma City, Okla. 930	WLTC Gastonia, N.C. 1370 WLTD Evanston, IL 1590	WMRF Lewistown, Pa, 1490 WMRN Marion, Ohio 1490 WMRO Aurora, 111. 1280	WOBL Oberlin, O. 1570 WOBR Wanchese, N.C. 1530 WOBS New Albany, IN 1570
WKYB Hemingway, S. C. 1000 WKYD Andalusia, AL 920	WLTH Gary, Ind. 1370 WLTN Littleton, N. H. 1400	WMSA Massena, N.Y. 1340 WMSG Oakland, Md. 1050	WOBT Rhinelander, Wis. 1240 WOC Davenport, Iowa 1420
WKYE Bristol, Tenn. 1550 WKYG Parkersburg WV 1230	WLUV Loves Park, III. 1520 WLUX Baton Rouge, La. 1550 WLUZ Bayamon, P. R. 1600	WMSL Decatur. AL 1400 I	WOCB W. Yarmouth, Mass. 1240 WOCH North Vernon, Ind. 1460
WKYK Burnsville, N. C. 1540 WKYO Caro, Mich. 1360	WLVA Lynchburg, Va. 590	WMSO Collierville TN 1590 WMSR Manchester, Tenn. 1320 WMST Mt. Sterling, Ky. 1150	WOCN Miami, Fla. 1450 WOCO Oconto, Wis. 1260 WOD1 Brookneal, Va. 1280
WKYR Burkesville, KY 1570 WKYX Paducah, Ky. 570 WKYY Amherst, VA 1420	WLVL Lockport, NY 1340 WLVN Luverne, Ala. 1080	WMT Cedar Rapids, lowa 600 WMTA Central City. Kv. 1380	WODY Bassett, Va. 900 WOFE Rockwood, Tenn. 580
W KZA Kane, Pa. 960 W KZI Casey, III. 800	WLW Cincinnati, Ohio 700 WLWL Rockingham, N.C. 1500 WLWO (V.O.A.)	WMTC Vancleve, Ky. 730 WMTD Hinton, W. Va. 1380	WOGA Sylvester, Ga. 1540 WOHI E. Liverpool, Ohlo 1490
WKZO Kalamazoo, Mich. 590 WLAB St. Pauls NC 1060	Marathon, Fla. 1180 WLYC Williamsport, Pa. 1050	WMTE Manistee, Mich. 1340 WMTL Leitchfleld, Ky. 1580 WMTM Moultrie, Ga. 1300	WOHN Herndon, Va. 1440 WOHO Toledo, Ohlo 1470 WOHS Shelby, N.C. 730
WLAC Nashville, Tenn, 1510 WLAD Danbury, Conn, 800 WLAF LaFollette, Tenn. 1450	WLYV Ft. Wayne, Ind. 1450	WMTN Morristown, Tenn. 1300 WMTR Morristown, N.J. 1250	WOLATIES IOWA 640
WLAG La Grange, Ga. 1240	WMAC Netter, Ga. 1380 WMAF Madison FL 1230	WMTS Murfreesboro, Tenn. 810 WMTY Greenwood SC 1090	WOIO Canton, O. 1060 WOKA Douglas, Ga. 1310
WLAN Lancaster, Pa. 1390 WLAP Lexington, Ky. 830	WMAG Forest, MI 860 WMAJ State College, Pa. 1450 WMAK Nashville, Tenn. 1300	WMUS Muskegon, Mich. 1090 WMUU Greenville, S.C. 1260	WOKB Winter Garden, Fla. 1600 WOKC Okeechobee, Fla. 1570
WLAQ Rome, Ga, 1410 WLAR Athens, Tenn, 1450	WMAI Washington D.C. 630	WMVA Martinsville, Va. 1450 WMVB Millville, N.J. 1440 WMVG Milledgeville, Ga. 1450	WOKE Charleston, S.C. 1340 WOKI Oak Ridge TN 1550 WOKI Jackson, Miss. 1550
WLAS Jacksonville, N.C. 910 WLAT Conway, S.C. 1330 WLAU Laurel, Miss. 1430 WLAV Grand Rapids, Mich. 1340	WMAM Marinette, Wis. 570 WMAN Mansfield, Ohio 1400 WMAP Monroe, N.C. 1060	WMVI Mechanicville, N.Y. 1170 WMVO Mt. Vernon, Ohlo 1300	WOKK Meridian, MS 910 WOKL Eau Claire, Wis. 1050
WLAW Lawrenceville, Ga. 1300	WMAQ Chicago, III. 670 WMAS Springfield, Mass. 1450 WMAX Grand Rapids, Mich. 1480	WMVR Sidney, Ohlo 1080 WMYB Myrtle Beach, S.C. 1450	WOKO Albany, N.Y. 1460 WOKS Columbia, Ga. 1340
WLAY Muscle Shoals AL 1450 WLBA Gainesville, GA 1130 WLBB Carrollton, Ga. 1100	WMAY Springfield, III. 976	WMYN Mayodan, N.C. 1420 WMYR Ft. Myers, Fla. 1410 WNAB Bridgeport, Conn. 1450	WOKT Newport News, VA 1270 WOKW Brockton, Mass. 1410 WOKY Milwaukee, Wis. 920
WLBB Carrellton, Ga. 1100 WLBC Muncie, Ind. 1340 WLBE Lessburg, Fla. 790 WLBG Laurens, S.C. 880	WMBA Ambridge, Pa. 1480 WMBC Columbus, Miss. 1400 WMBD Peoria, Itl. 1470	WNAD Norman, Okla. 640 WNAE Warren, Pa. 1310	WOKZ Alton, Itl. 1570 WOL Washington, D.C. 1450
WLBH Mattoon, III. 1170	WMBH Joplin, Mo. 1450 WMBI Chicago, 111 1110	WNAG Grenada, Miss. 1400 WNAH Nashville, Tenn. 1360	WOLF Syranusa N.Y. 1490
WLBI Denham Springs, La. 1220 WLBJ Bowling Green, Ky. 1410 WLBK DeKalb, III. 1360	WMBL Morehead City, N.C. 740 WMBM Miami Beach, Fla. 1490	WNAK Nanticoké, Pa. 730 WNAM Neenah, Wis. 1280 WNAR Norristown, Pa. 1110	WOLS Florence, S. C. 1230 WOM1 Owensboro, Ky. 1490 WOMN New Haven CT 1220
WLBL Auburndale, Wis. 930 WLBN Lebanon, Ky. 1590	WMBN Petoskey, Mich. 1340 WMBO Auburn, N.Y. 1340 WMBS Uniontown. Pa. 890	WNAT Natchez, Miss. 1450 WNAU New Albany, Miss, 1470	WOMP Bellaire, Ohlo 1290 WOMT Manitowoo, Wis. 1240
WLBQ Morgantown, KY 1570 WLBR Lebanon, Pa. 1270	WMBT Shenandoah, Pa. 1530 WMC Memphis, Tenn. 790	WNAV Annapolis, Md. 1430 WNAX Yankton, S.Dak. 570 WNBC New York, N.Y. 880	WONA Winona, Miss. 1570 WOND Pleasantville, N.J. 1400 WONE Dayton, O. 980
WLBS Centreville, Miss, 1580 WLBZ Bangor, Maine 520 WLCB Buffalo-Hodgenville.	WMCA New York, N.Y. 570 WMCH Church Hill. Tenn. 1260	WNBF Binghamton, N.Y. 1290 WNBH New Bedford, Mass. 1340	WONN Lakeland, Fla. 1230
WLCK Scottsville, Ky. 1430	WMCL McLeansboro, III. 1060 WMCP Columbia, Tenn. 1280 WMCR Oneida, N.Y. 1600	WNBI Park Falls, Wis. 980 WNBP Newburyport, Mass. 1470	WONW Defiance, Ohio 1280 WOOD Grand Rapids, Mich. 1300
WITCH Laurenships M.G. 1500	WMCS Machias, Me. 1400 WMCT Mountain City, Tenn. 1390	WNBS Murray, Ky. 1340 WNBT Wellsboro, Pa. 1490 WNBY Newberry, Mich. 1450	WOOF Dothan, AL 560 WOOP Danville, KY 1000 WOOW Greenville, N.C. 1340
WLCS Baton Rouge, La. 910 WLCX LaCrosse, Wis. 1490	WMCW Harvard, III. 1600 WMDC Hazelhurst, Miss. 1220 WMDD Fajardo, P.R. 1480	WNBZ Saranac Lake, N.Y. 1240 WNCA Siler City, N.C. 1570	WOOZ Whiteville, NC 1540 WOPA Oak Park, IL 1490
WLDY St. Petersburg, Fla. 1380 WLDM Westfield MA 1570	WMEE Ft. Wayne IN 1380 WMEK Chase City, Va. 980	WNCC Barnespore, Pa. 950 WNCG N. Charleston, S.C. 910	WOPI Bristol, Tenn. 1490 WOR New York, N.Y. 710
WLDS Jacksonville, III. 1180 WLDY Ladysmith, Wis. 1340 WLEA Hornell, N.Y. 1480	WMEL Melbourne FL 920 WMEN Tallahassee, Fla. 1330	WNCO Ashland, Ohlo 1340 WNCT Greenville, N.C. 1070 WNDB Daytona Beach, Fla. 1150	WORA Mayaquez, P.R. 760 WORC Worcester, Mass. 1310 WORD Spartanburg, S.C. 910
WLEE Richmond, Va, 1480 WLEC Sandusky, Ohio 1450 WLEJ Ellijay, GA 1560	WMES Ashburn GA 1570 WMEV Marion, Va. 1010 WMEX Boston, Mass. 1510	WNDE Indianapolis IN 1260 WND1 Suiivan, IN 1550	WORG Orangeburg, S.C. 1580 WORL Orlando FL 1270
WLEM Emporium, Pa. 1240	WMFC Monroeville AL 1360 WMFD WilmIngton, N.C. 680	WNDR Syracuse, N.Y. 1260 WNDU South Bend, Ind. 1490	WORM Sayannah, Tenn. 1010 WORV Hattiesburg, Miss. 1580 WORX Madison, Ind. 1270
WLES Lawrenceville, Va. 580 WLET Toccoa, Ga. 1420 WLEW Bad Axe, Mich. 1340	WMFG Hibbing, MInn. 1240 WMFJ Daytona Beach, Fla. 1450	WNEA Newnan, Ga. 1300 WNEB Worcester, Mass. 1230 WNEG Taccoa, Ga. 630	WORX Madison, Ind. 1270 WOSC Fulton, N.Y. 1300 WOSO San Juan, PR 1030
WLEY Cayey, P.R. 1080 WLFA Lafayette, Ga. 1590	WMFR High Point, N.C. 1230 WMGA Moultrie, Ga. 1130 WMGC Cleveland, OH 1260	WNEL Caguas, P. R. 1430 WNER Live Oak, Fla. 1250	WOSU Columbus, Ohio 820 WOTT Watertown NY 1410
WLFH Little Falls, N.Y. 1230 WLGM Lynchburg, Va. 1320	WMGO Canton, Miss. 1370	WNES Central City, Ky. 1050 WNEU Wheeling, W. Va. 1470	WOUB Athens, Ohio 1340 WOW Omaha, Nebr. 590 WOWO Ft. Wayne, Ind. 1190
WLGN Logan, O. 1510 WLIB New York, N.Y. 1190 WLIJ Shelbyville, Tenn. 1580	WMGR Bainbridge, Ga. 930 WMGW Meadville, Pa. 1490 WMGY Montgomery AL 800 WMIA Arecibo, P. R. 1070	WNEW New York, N.Y. 1130 WNEX Macon, Ga, 1400 WNFL Green Bay, Wis. 1440	WOWW Naugatuck, Conn. 1380 WOWY Clewiston, Fla. 1590
WLIK Newport, Tenn. 1270 WLIL Lengir City, Tenn. 730		WNGA Nashville, Ga. 1600 WNGO Mayfield, Ky. 1320	WOYL Oil City, PA 1340 WOZK Ozark AL 900 WOZN Jacksonville, Fla. 970
WLIP Kenosha, Wis. 1050 WLIQ Mobile AL 1360 WLIS Old Saybrook, Conn. 1420	WMIS Marco Island F.L. 1510 WMIC Sandusky, Mich. 1560 WMID Atlantic City, N.J. 1340 WMIK Middlesboro, Ky. 560 WMIM Mt. Carmel, Pa. 1590 WMIN Maplewood, MN 1010 WMIQ Iron Mountain, Mich, 1450 WMIR Lake Geneva, Wls. 1550 WMIS Nather Miss 1240	WNHC New Haven Conn 1340	
WLIT Steubenville OH 950 WLIV Livingston, Tenn. 920	WMIM Mt. Carmel, Pa. 1590 WMIN Maplewood, MN 1010 WMIQ fron Mountain, Mich, 1450	WNHV White River Jct., Vt. 910 WNIA Cheektowaga, N.Y. 1230 WNIK Arecibo, P.R. 1230 WNIL Niles. Mich, 1290	WPAG Ann Arbor, Mich. 1050 WPAL Charleston, S.C. 730
WLIX Islip, N. Y. 540 WLIZ Lake Worth, Fla. 1380	WMIR Lake Geneva, Wis. 1550 WMIS Natchez, Miss. 1240	WNIL Niles, Mich. 1290 WNIO Niles, Ohio 1540	WPAM Pottsville, Pa. 1450 WPAQ Mount Airy, N.C. 740 WPAR Parkersburg, W.Va. 1450
WLIT Stebensvite 97 WLIV Livingston, Tenn. 920 WLIX Islip, N. Y. 540 WLIZ Lake Worth, Fla. 1380 WLKE Waupun, Wis. 1170 WLKK Erie, P.A 1250 WLKM Three Rivers, Meh. 1510	WMIS Natchez, Miss. 1240 WMIX Mt. Vernon, III. 940 WMJK Kissimmee, FL 1220	WN10 Niles, Ohio 1540 WNJR Newark, N.J. 1430 WNKY Neon, Ky. 1480 WNLB Rocky Mount, VA 1290 WNLC Nen London, Copp. 1510	WPAS Zephyrhills, Fla. 1400
WLKR Norwalk, O. 1510	WMJL Marion, Ky. 1010 WMJM Cordele, Ga. 1490 WMKR Millinocket, Me. 1240	WNLK Norwalk, Conn. 1350	WPAX Thomasville, Ga. 1240 WPAX Thomasville, Ga. 1240 WPAX Portsmouth, Dhlo 1400 WPAX Pottstown, Pa. 1376 WPBR Palm Beach FL 1340 WPGC Clinton, S.C. 1410
WLKW Providence, K.I. 990	WMLB West Hartford, CT 1550 WMLC Monticello, Miss, 1270	WNMT Garden City, Ga. 1520 WNNC Newton, N.C. 1230	WPAZ Pottstown, Pa. 1370 WPBR Palm Beach FL 1340 WPCC Clinten, S.C. 1410 WPCE Portsmouth, VA 1400
WLLH Lowell, Mass. 1400 WLLL Lynchburg, Va. 930 WLLN Olney, 111. 740 WLLS Hartford, Ky. 1800 WLLY Wilson, N.C. 1350 WLMD Laurel, Md. 900 WLMS Leominster, Mass. 1000 WLMS Leominster, Mass. 1200 WLMJ Jackson, Ohio 1280 WLNG Laurinburg, N.C. 1300 WLNG Laurinburg, N.C. 1300 WLNG Sag Harbor, N.Y. 1600	WMLM St. Louis MI 1540 WMLO Beverly, Mass. 1570 WMLP Milton, Pa. 1380 WMLR Hohenwald, TN 1230 WMLS Sylacauga AL 1290 WMLT Dublin. Ga. 1330 WMLS Melbourne, Fla. 1240 WMMB Melbourne, Fla. 1240 WMMH Marshall, N.C, 1460 WMMM Westport, Conn. 1260 WMMN Fairmont, W.Va. 920 WMMW Meriden, Conn. 1470 WMNA Gretna, Va. 730	WNNJ Newton, N.J. 1360 WNNO Wisconsin Dells, WI 990 WNNR New Orleans LA 990	
WLLS Hartford, Ky. 1800 WLLY Wilson, N.C. 1350	WMLR Hohenwald, TN 1230 WMLR Sylacauga AL 1290	WNNT Warsaw, Va. 690 WNOE New Orleans, La. 1060	WPCE Portsmouth, VPC Mt. Vernon, Ind. 1380 WPCD Mt. Vernon, Ind. 1380 WPDC Elizabethtown, Pa. 1800 WPDF Corydon, Ind. 1550 WPD M Potsdam, N.Y. 1470
WLMD Laurel, Md. 900 WLMS Leominster, Mass. 1000 WLNC Laurinburg, N.C. 1300	WMLT Dublin, Ga. 1330 WMMB Melbourne, Fla. 1240	WNOG Naples, Fla. 1270 WNOK Columbia, S.C. 1230 WNOO Chattanooga, Tenn. 1260	WPDF Coryoon, Ind. 1330 WPDM Potsdam, N.Y. 1470 WPDQ Jacksonville, FL 1480 WPDR Portage, Wls. 1350 WPDX Clarksburg, W.Va. 750 WPED Crozet, Va. 810 WPEH Louisville, Ga. 1420 WPEL Montrose, Pa. 1250 WPEN Philadelphia, Pa. 950 WPEN Philadelphia, Pa. 1620
WLMJ Jackson, Ohio 1280 WLMJ Peekskill, N.Y. 1420	WMMH Marshall, N.C. 1460 WMMM Westport, Conn. 1260 WMMN Fairmont, W.Va. 920	WNOO Chattanoga, Tenn. 1250 WNOP Newport, Ky. 740 WNOR Norfolk, Va. 1230 WNOV Milwaukee, Wis. 860 WNOW York, Pa. 1250 WNOX Knoxville, Tenn. 990 WNOR Newswith 1990	WPDQ Jacksonville, FL 1460 WPDR Portage, Wis. 1350 WPDX Clarksburg, W.Va. 750
WLNC Laurinburg, N.C. 1300 WLNG Sag Harbor, N.Y. 1600	WMMW Meriden, Conn. 1470 WMNA Gretna, Va. 730	WNOV Milwaukee, Wis. 860 WNOW York, Pa. 1250 WNOX Knoxville, Tenn. 990	WPED Crozet, Va. 810 WPEH Louisvile, Ga. 1420 WPEL Montrose, Pa. 1250
WLNC Laurinburg, N.S. WLNG Sag Harbor, N.Y. 1600 WLNH Laconla, N.H. 1350 WLOA Braddock, Pa. 1550 WLOB Portland, Maine 1310 WLOC Munfordville, Ky. 1150	WMNB No. Adams, Mass, 1230 WMNC Morganton, N.C. 1430	WNOX Knoxville, Tenn. 990 WNPC Newport TN 1060 WNPT Tuscaloosa AL 1280 WNPV Lansdale, Pa. 1440 WNRE Circleville OH 1540 WNRG Grundy, Va. 940 WNRI Woonsocket, R.I. 1380 WNRI Gainesville Ga. 1130 WNRK Newark, Del. 1260 WNRS Saline, Mich. 1290 WNRV Narrows-Pearisburg, Va. 990	WPEN Philadelphia, Pa. 950 WPEN Peoria, III. 1020
WLOC Munfordville, Ky. 1150 WLOE Eden, NC 1490		WNPV Lansdale, Pa. 1440 WNRE Circleville OH 1540	WPEP Taunton, Mass. 15/0 WPET Greensboro, N.C. 950
WLOE Eden, NC 1490 WLOF Orlando, Fla. 950 WLOG Logan, W.Va. 1230 WLOI La Porte, Ind. 1540 WLOK Memphis, Tenn. 1340	WMNE Menomonie, wis. 1300 WMNI Columbus, Ohio 920 WMNS Olean, N.Y. 1360 WMNZ Montezuma, Ga. 1550 WMNZ Montezuma, Ga. 1650 WMOB Mobile AL. 840 WMOB Chattanoga Tenn 1450	WNRG Grundy, Va. 940 WNRI Woonsocket, R.I. 1380 WNRI Grinesville Gr. 1130	WPFA Pensacola, Fla. 790 WPFB Middletown, Ohlo 910 WPGA Perry, Ga. 980
WLOI La Porte, Ind. 1540 WLOK Memphis, Tenn. 1340 WLON Lincolnton, N.C. 1050	WMNZ Montezuma, Ga. 1030 WMOA Marietta, Ohlo 1490 WMOB Mobile AL 840	WNRJ Gainesville, Ga. 1130 WNRK Newark, Del. 1260 WNRS Saline, Mich. 1290	WPGC Morningside, MD 1580 WPGD Winston-Salem NC 1550
WLON Lincolnton, N.C. 1050 WLOP Jesup, Ga. 1370 WLOR Thomasville, Ga. 730 WLOT Marinette, Wis. 1300 WLOU Louisville, Ky. 1350 WLOV Washington, Ga. 1370		WNRV Narrows-Pearisburg, 990	WPGM Danville, Pa. 1570 WPGR Port Gibson, MS 1520
WLOT Marinette, Wis. 1300 WLOU Louisville, Ky. 1350	WMOD Cocoa Beach FL 1300 WMOG Brunswick, Ga. 1490 WMOH Hamilton, Ohio 1450 WMOK Metropolis, III. 920	WNSL Laurel, Miss. 1260 WNSR Lynn, MA 1360 WNST Milton WV 1600	WPGW Portland, Ind. 1440 WPHB Philipsburg, Pa. 1260 WPHC Waverly, Tenn. 1060
WI OX Rilovi Miss 1490	WMON Montgomery W.Vs 1340	WNTN Newton, Mass. 1550	WPHM Port Huron, Mich. 1380 WPiC Sharon, Pa. 790 WPID Piedmont AL 1280
WLPO LaSalle, III. 1220	WMOP Ocala, Fla. 900 WMOR Morehead, KY 1330	WNTT Tazewell, Tenn. 1250 WNTY Southington, Conn. 990 WNUE Ft. Walton Bch., Fla. 1400	WPIK Alexandria, VA 730
WLPS Leighton, Pa. 1150 WLQB Flint, MI 1570 WLQH Chlefland, Fla, 940	WMOV Ravenswood, W.Va. 1360 WMOX Meridian, Miss. 1010 WMPA Aberdeen, Miss. 1240	WNUE Ft. Walton Bch., Fla. 1400 WNUS West Springfield, MA 1490 WNUZ Talladega AL 1230	WPIP Pompano Beach FL 980 WPIT Pittsburgh, Pa. 730 WPJL Raleigh NC 1240
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W. P.	WPKE Pikeville, Ky. 1240	2	WSGO OSWERO, N.Y. (441)	Call Location kHz
West Command Mans 150	WPKY Princeton, Ky. 1580	WRFC Athens, Ga. 960 WRFD Worthington, Ohio 880 WRFS Alexander City Ala 1050	WSGW Saginaw, Mich, 790 WSHB Raeford, N.C. 1400	WTGC Lewisburg, PA 1010 WTGF Pickens, SC 1540
## W. C. Carelland, P. 150 W. F. F. W. C. Carelland, P. 150 W. F. W. C. Carelland, P. 150	WPLB Greenville, Mich. 1380 WPLK Rockmart, Ga. 1220 WPLM Plymouth Mose 1390	WRGA Rome, Ga, 1470	WSHN Frement, Mich. 1550	WTHB Augusta, Ga. 1550 WTHD Milford, Del. 930
West Printentine No. 1660 West	WPLO Atlanta, Ga. 596 WPLW Carnegle, PA 1590	WRHC Coral Gables, FL 1550 WRHI Rock Hill, S.C. 1340	WSHY Shelbyville, III. 1560 WSIC Statesville, N.C. 1400	WIRE Ferre Haute, Ind. 1480
## WAS Part of the Company of the Co		WRIB Providence R.I 1220	WSID Baltimore, Md. 1010 WSIG Mount Jackson, Va. 790 WSIP Paintsville, Kv. 1490	WTHO Thomson, GA 1530 WTHU Thurmont, Md 1450
WORD PRINTER, BILD.	I WENG Plymouth, N.C. 1470	WRIE Erie, Pa. 1330 WRIG Wausau. Wis. 1400		Will litton, Ga. 1340
WORD PRINTS, \$150.	WPNF Brevard, N.C. 1240 WPNH Plymouth. N. H. 1300	1 WRIN Rensselaer Ind 1560	WSIZ Ocilla, Ga. 1380 WSJC Magee, Miss. 810	WTIK Durham, N.C. 1310 WTIL Mayaguaz, P.R. 1300
weigh fautton. Can. weigh fau	WPNX Phenix City, AL 1460 WPNX Columbus, GA 1460			WTIP Charleston, W.Va. 1240 WTIQ manistique. Mich. 1490
W. P. O. P. P. P. P. P. S. P. S. P. P. S. P. P. S. P	I WPOM Riviera Beach, FL 1600	W KJZ K HOXVIIIE, IN 620	WSJW Woodruff, S.C. 1510 WSKE Everett, Pa. 1050 WSKI Montpelier-Barre, Vt. 1240	WIIV litusville, Pa. 1230 WTIX New Orleans, La. 690 WTIH East Point Ga. 1260
WFFL Peasedras, P.R. 1930 WFFL Carefully, C.R. 1930 WFFL Carefully, C.	WPOR Portland Mains 1490	WRKD Rockland, Maine 1450 WRKL New City, N. Y. 910	WSKT Knoxville, Tenn. 1580 WSKW Skowbegan MF (180	WTJS Jackson, Tenn. 1390 WTKM Hartford, Wis. 1540
WPRC Lineits, 11	WPPA Pottsville, Pa. 1360 WPPC Penuelas, P.R. 1330 WPPI Carrollton, GA 1330	WRKM Carthage, Jenn. 1350 WRKN Brandon, Miss. 910	WSLB Ogdensburg, N.Y. 1400 WSLC Roanoke VA 610 WSLG Gonzales, LA 1000	WTKY Tompkinsville, Ky. 1370 WTLB Utica, N.Y. 1310
WPT Presidency R.1. 530 W. Nill F. 1150 W. S. 140 W. S. 14	WPRA Mayaguez, P.R. 990 WPRC Lincoln, IL 1370 WPRE Prairie Du Chien, Wls. 980	WRKR Racine, WI 1460 WRKV Rockville, Conn. 800	WSLI Jackson, Miss. 930 WSLM Salem, Ind 1220	WTLN Apopka, Fla. 1520 WTLO Somerset, Ky. 1480
WP W Manassan, Va. 1488 WF Sh. Perichite, Pa. 14	WPRN Butter AL 1240 WPRN Providence R 1 630	WRMF Titusville, FL 1060 WRMG Red Bay AL 1430	WSLT Ocean City-Somers Pt., N.J. 1529 WSLV Ardmore Tenn 1110	WTMA Charleston, S.C. 1250 WTMB Tomah WI 1460
WFTS Listsbore, GA	WPRS Paris, III. 1440 WPRT Prestonsburg, Ky. 960 WPRW Manassas, Va. 1460	WRMN Elgin, III. 1410 WRMS Beardstown, III. 790		WTMC Ocala, Fla. 1290 WTNE Trenton, TN 1500 WTNR Kingston TN 1410
WPTIC Canton, N.C. 250 WPTIR Content, N.C. 1500 WPTIR Content, N.C. 150	WPRY Perry, FL 1400	I WRNB New Rern, N.C. 1490 I	WSMA Marine City, Mleh, 1590 WSMB New Orleans, La. 1350	WIMJ Milwaukee, Wis, 620 WIMP Tampa. Fia 1150
WPUB Canadan, S.C. Au. 130 WPUB Barter, VI. 130 WPUB Britarter, VI. 130 WPUB B	WPTF Raleigh, N.C. 680 WPTL Canton, N.C. 920	I WKNL Richmond, Va. 910 I	WSME Sanford, Maine 1220 WSME Greeneville, Tenn. 1450	WTMT Louisville Kv 420 /
WPUB Canadan, S.C. Au. 130 WPUB Barter, VI. 130 WPUB Britarter, VI. 130 WPUB B	WPTW Albany, N.Y. 1540 WPTW Piqua, Ohio 1570	WRNR Martinsburg, WV 740 WRNY Rome, N.Y. 1350 WROA Gulfnort-Rideyl MS 1300	WSMI LITCHTFOID, III. 1540	WINJ I renton NJ 1300 WINK Meridian MS 1390
WPUV Pulaski. Va. 580	WPUB Camden, S.C. 1130 WPUL Bartow, Fla. 1130	WROB West Point, MS 1450 WROC Rochester, N.Y. 1280 WROD Daytons Beach Fig. 1340	WSMX WINSTON-Salem NC 1500 WSMY Weldon N.C 1400	WTNN Millington, TN 1380
WFVC Gunesvilla, Vance 1400 Wit US Sectisper AL 1300 WRO Barre, Vit. 1450 Wit US Control, Vit. 1400 WRO WFO WFO WFO WFO WFO WFO WFO WFO WFO WF	I . WPVA Colonial Hights. Va. 1290	WRUK ROCKTOFO, III. 1440 WROM Rome, GA 710	WSNE Cumming, Ga. 1170 WSNG Torrington, CT 610	WINS Coshocton, Ohlo 1560 WINT Tallahassee, Fla. 1270 WINW Chapel Hill, N.C. 1530
WGBA Miamir, Fib. 1400 WRFA Poplarville, Miss. 1420 WRFA	I WPAU Prattville AL 1410	I WKUS Scottsboro AL 1330 I	WSNI Sandersville, Ga 1490 I	
WGBA Miamir, Fib. 1400 WRFA Poplarville, Miss. 1420 WRFA	WPXE Starke, Fla. 1490 WPXY Greenville, N C 1550	I WROY Carmi. III. 1460 I		WTOE Spruce Pine, N.C. 1470 WTON Staunton, Va. 1240 WTOG Bellefontaine, O. 1390
Well S. An Juan, P. R. Side Williamsgolits MN Side Minnessolitis MN Side Minnessolits MN Minnessolits MN Side Minn	I WUBA Miami, Fla. 1140 I	WRPM Poplarville, Miss, 1530 WRRA Fredericksted, VI 1290	WSOL Tampa, Fla. 1300 WSOM Salem, Ohio 600	WTOP Washington, D.C. 1500 WTOT Marianna, Fla. 980 WTOW Towson Mr. 1570
WQCK Warner Robins, GA 1500 WQDE Albany GA 1250 WQDI Homestead, FL 1430 WRS State College, Pa. 1350 WGDI Homestead, FL 1430 WRS State College, Pa. 1350 WGDI Homestead, FL 1430 WRS State College, Pa. 1350 WGDI Homestead, FL 1430 WRS State College, Pa. 1350 WGDI Homestead, FL 1430 WRS State College, Pa. 1350 WGDI Homestead, FL 1430 WRS State College, Pa. 1350 WRS Warsaw IN 1480 WRS Wa	WuBS San Juan, P.R. 630	WRRD Minneapolis MN 1330 WRRL Rainelle, WV 1330 WRRR Rockford, 111. 1330	WSOO Sit. Ste. Marie, Mich. 1230 WSOO No. Syracuse, N.Y. 1220	
Wall	WQCK Warner Robins, GA 1600 WQDE Albany GA 1250	WRRZ Clinton, N.C. 880 WRSC State College, Pa. 1390 WRSI Bayamon P. 1560	WSOY Decatur, III, 1340 WSPA Spartanburg, S.C. 950 WSPB Sarasota, Fla. 1450	WTRA Latrobe, Pa. 1480 WTRR Ripley Tenn 1570
WGIN Lukens, PA 1230	I WOOY Calais Maine 1930 I	WRSL Stanford, Ky. 1520 WRSM Sumiton AL 1540 WRSW Warsaw IN 1480	WSPF HICKORY, N.G. 1000 /	WIKI Brunswick, Ma. 1520
W410 Chester, PA W212 St. George, S.C. W210 W110 Rumford, Maine W210 Chester, PA W212 St. George, S.C. W210 W110 Rumford, Maine W210 Chester, PA W212 St. George, S.C. W210 W210 Chester, PA W210 Chester, PA W212 St. George, S.C. W210 W210 Chester, PA W210 Russellile, S.C. W210 W210 Chester, PA W	WUID Canton, OH 1060	WRTA Altoona, Pa. 1240 WRTH Wood River, III. 590	WSRF Fort Lauderdale, FL 1580 WSRG Elkton, KY 1070	WTRN Tyrone, PA 1340 WTRO Dversburg Tenn 1330
WQDK Greenville, S.C. 1440 WRV Missess 1440 WRV Missess 1440 WQPM Princeten, MN 1300 WRV MRV Missess 1450 WRV MRV MR	WUIQ Chester, PA 1590 WQIZ St. George, S.C. 810 WQIZ St. Matthews SC 710	WRUF Gainesville, Fla. 850 WRUM Rumford, Maine 790 WRUM Utica N.Y. 1450	WSRO Marlboro, MA 1470 WSRW Hillsboro, Ohlo 1590 WSSA College Park, Ga. 1570	WTRQ Warsaw, N.C. 1560 WTRR Sanford, Fla. 1400
WQQY Savarinani-GA WQQW Waterbury CN QQW	WUMA Marks, Miss. 1520 WQOK Greenville, S.C. 1440 WQPD Lakeland FL 1430	WRUS Russellville, Ky. 610 WRVA Richmond, Va. 1140 WRVK Mt. Vernon Ky. 1460	WSSC Sumter, S.C. 1340 WSSO Starkville, Miss. 1230	WTRS Dunnellon, Fla. 920 WTRU Muskegon, Mich. 1600 WTRX Flint, Mich. 1330
WQTW Latrobe, Pa. 1310 WRYM Boston, Mass. 950 WSTU Stuart, Fla. 1450 WTSV Claremont, N.H. 1230 WQTW Latrobe, Pa. 1570 WRYZ Jupiter, FL 1000 WSTU Steubenville, Ohio 1340 WTTU Towanda, Pa. 1450 WSTV Steubenville, Ohio 1340 WTTU Towanda, Pa. 1450 WSTV Steubenville, Ohio 1340 WTTU Towanda, Pa. 1450 WSTV Steubenville, Ohio 1340 WTTU Towanda, Pa. 1450 WTTU Towanda, Pa.	WQPM Princeten, MN 1300 WQQT Savannah GA 1450	WRWD Augusta, Ga, 1480 WRWH Cleveland, Ga, 1380	WSSV Petersburg, Va. 1240	WTSA Brattleboro, Vt. 1450 WTSB Lumberton, N.C. 1340
WRAK Williamsport, PA	WQSA Sarasota FL 1220	FL 1590 WRXO Roxboro, N.C. 1430	WSTL Eminence, Ky. 1600 WSTP Salisbury, N.C. 1490 WSTR Sturgis, Mich 1230	WTSL Hanever, NH 1490 WTSN Dover, N.H. 1270 WTSO Madison, Wis. 1070
WRAK Williamsport, PA 1400 Fla. 1240 WSYB Rutland, Vt. 1380 WTV Kolumbus, Ohio 610 WTV Kolumbus, Ohio	WQTK Parsippany, NJ 1310 WQTW Latrobe, Pa. 1570 WQUA Moline III 1230	WRYT Boston, Mass. 950	WSTU Stuart, Fla. 1450 WSTV Steubenville, Ohio 1340 WSTX Christiansted, V.I. 970	WTSV Claremont, N.H. 1230 WTTB Vero Beach, Fla. 1490 WTTC Towanda, Pa. 1550
WRAK Williamsport, PA 1400 Fla. 1240 WSYB Rutland, Vt. 1380 WTV Kolumbus, Ohio 610 WTV Kolumbus, Ohio	WQVQ Highland Park IL 1430 WQXO Munising, M1 1400	WSAF Sarasota, Fla. 1220 WSAI Cincinnati, Ohlo 1360	WSUB Groton- New London CT 980 WSUH Oxford Miss (420	WTTF Tiffin, Ohio 1600 WTTI Dalton, Ga. 1530 WTTL Madisonville, Ky. 1310
WRAK Williamsport, PA 1400 Fla. 1240 WSYB Rutland, Vt. 1380 WTV Kolumbus, Ohio 610 WTV Kolumbus, Ohio	WQXI Atlanta, Ga. 790 WQXL Columbia, S.C. 1470	WSAL Logansport, Ind. 1230 WSAM Saginaw, MI 1400	WSUI lowa City, lowa 910 WSUM Parma OH 1000 WSUM Parma OH 520	WTTM Trenton, N.J. 920 WTTN Watertown, Wis. 1580 WTTR Westminster. Md. 1470
WRAK Williamsport, PA 1400 Fla. 1240 WSYB Rutland, Vt. 1380 WTV Kolumbus, Ohio 610 WTV Kolumbus, Ohio	WQXZ Taylorsville NC 860 WQYK Tampa, Fla. 1110	WSAO Senatobia, Miss. 1550 WSAR Fall River, Mass. 1480	WSUZ Palatka, Fla. 800 WSVA Harrisonburg, Va. 550	WTTS Bloomington, Ind. 1370 WTTT Amherst, Mass. 1430 WTTX Appomattox VA 1280
WRAK Williamsport, PA 1400 Fla. 1240 WSYB Rutland, Vt. 1380 WTV Kolumbus, Ohio 610 WTV Kolumbus, Ohio	WRAB Arab AL 1380 WRAB Arab AL 1380 WRAD Radford, Va. 1460	WSAT Satisbury, N.C. 1280 WSAU Wausau, Wis, 550 WSAY Rochester, N.Y. 1370	WSVM Valdese, N.C. 1490 WSVS Crewe, Va. 800	WTUG Tuscaloosa AL 790 WTUP Tupelo, MS 1490 WTUU Toledo, OH 1520
WRAM Monmouth, III. 1330 WSBC Chicago, III. 1240 WSYD Mt. Airy, N.C. 1300 WTVR Rhimond, Va. 1380 WSRD Chicago, III. 1240 WSYR Syrasuse, N.Y. WSYL Sylvania, Ga. 1490 WSYR Syrasuse, N.Y. WSYR Syrasuse, N.Y. WSYR Syrasuse, N.Y. WSYR Syrasuse, N.Y. WTWR Rhimond, Va. 1380 WST Rhimond, Va. 1380 WST Rhimond, Va. 1380 WST Rhimond, Va. 1380 WST Rhimond, Va. 1380 WTWR	WRAI San Juan, P.R. 1520 WRAJ Anna, III. 1440	WSB Atlanta, Ga. 750 WSBA York, Pa. 910 WSBB New Smyrna Beach,	WSWV Pennington Gap, Va. 1570 WSWW Platteville, Wis. 1590	WTUX Wilmington, Del. 1290 WTVB Coldwater, Mich. 1590 WTVL Waterville, Maine 1490
WRAP Norfolk, Va. 850 WRAP Asheville NC 1330 WRAW Asheville NC 1330 WRAW Rad Tappahannock, Va. 1000 WRAW Reading, Pa. 1340 WRAW Reading, Pa. 1340 WRAP Princeton, Ind. 1250 WRAP Princeton, Ind. 1250 WRAP Princeton, Ind. 1250 WRAP Princeton, Ind. 1250 WRAP Normal II. 1440 WRAP Dompano Beach, Fla. 1470 WRBC Jackson, Miss. 1300 WRBC Jackson, Miss. 1300 WRBC Jackson, Miss. 1300 WRBC Jackson, Miss. 1440 WRBC Jackson, Miss. 1440 WRBC St. 1450 WRBC MRBC Lucedale MS 1440 WRCD Chapel Hill NC 1530 WRCD WRSC WRCD MRSC WRSC WRSC WRSC WRSC WRSC WRSC WRSC W	WRAK Williamsport, PA 1400 WRAM Monmouth, III. 1330 WRAN Dover, N.J. 1510	WSBC Chicago, III. 1240 WSBR Boca Raton, Fla. 740	WSYD Mt. Airy, N.C. 1300 WSYD Sylvania, Ga. 1490	WTVN Columbus, Ohio 610 WTVR Richmond, Va. 1380 WTWA Thomson Ga 1240
WRAW Réading, Pa. 1340 WRAY Princeton, Ind. 1250 WRAY Princeton, Ind. 1250 WRBA Normal IL 1440 WRBC Jackson, Miss. 1300 WRBC Jackson, Miss. 1300 WRBD Pompano Beach, Fla. 1470 WRBD Pompano Beach, Fla. 1470 WRBD Lucedale MS WRBJ St, Johns, Mich. 1580 WRBJ St, Johns, Mich. 1580 WRC Washington, D.C. 980 WRC Washington, D.C. 980 WRC Washington, D.C. 980 WRC Washington, D.C. 980 WRC Riverhead, NY 1570 WRCN Riverhead, NY 1570 WRCN Riverhead, NY 1570 WRCN Riverhead, NY 1570 WRCD Richland Center, WI 1450 WSCB Sebring, Fla. 1340 WSCB Sebring, Fla. 1340 WSCB Sebring, Fla. 1340 WRCP Philadelphia, Pa. 1540 WSCB Sebring, Fla. 1340 WRCP Philadelphia, Pa. 1540 WSCB Sebring, Fla. 1340 WRCS Ahoskie, N.C. 970 WRCD Bay City MI 1440 WSCB Sebring, Fla. 1340 WSCB Sebring, Fla. 1340 WSCB Sebring, Fla. 1340 WSCB Sebring, Fla. 1340 WSCB MSCB Sebring, Fla. 1340 WSCB MSCB Sebring, Fla. 1340 WSCB MSCB Sebring, Fla. 1340 WSCB Sebring,	WRAP Norfolk, Va. 850 WRAQ Asheville NC 1380 WRAR Tappahannock, Va. 1000		WTAB Tabor City, N.C. 1370 WTAC Flint, Mich. 600	WTWB Auburndale, Fla. 1570 WTWN St. Johnsbury, Va. 1340 WTYC Rock Hill S.C. 1450
WRBC Jackson, Miss. 1300 NY WSCR Scranton, Pa. 1320 WTAL Tallahassee, Fia. 1450 WTAL Tallahassee, Fia. 1450 WSCR Scranton, Pa. 1320 WTAL Tallahassee, Fia. 1450 WSCR Scranton, Pa. 1320 WTAL Tallahassee, Fia. 1450 WTAL	WRAW Reading, Pa. 1340 WRAY Princeton, Ind. 1250 WRBA Normal IL 1440	WSCP Sandy Creek-Pulaski.	WIAD QUITEY, III. 930 WIAE Pittsburgh, Pa. 1250 WIAG Worcester, Mass. 580	WTYL Tylertown, Miss. 1299 WTYN Tyron, N.C. 1550 WTYN Marianna Ela 1240
WRBJ St, Johns, Mich. 1586 WSCW South Charleston, WV 1410 WTAR Norfolk, Va. 790 WTAR Springfield, III. 1240	WRBC Jackson, Miss. 1300 WRBD Pompano Beach, Fla. 1470 WRBE Lucedale MS 1440	NY 1070 WSCR Scranton, Pa. 1320 WSCV Peterborough N H 1050	WTAL Tallahassee, Fla. 1450 WTAN Clearwater, Fla. 1340	WIZE Tazewell, Va. 1470 WUAT Pikeville TN 1110 WURE Circlement O 1930
WRCD Dalton, Ga. 1430 WSDR Sterling, III, 1240 WTAX Springfield, III. 1240 WUFE Baskiey, 4a. 1260 WRCN Riverhead, NY 1570 WSDS Ypsilanti, Mich. 1480 WTAY Robinson, III. 1570 WUFE Fastman, Ga. 710 WUFE Astman, Ga. 710 WUFE Fastman, Ga. 710 WUF	WRBJ St. Johns, Mich. 1580 WRBX Chapel Hill NC 1530 WRC Washington D.C. 980	WSCW South Charleston, WV 1410 WSDC Hartsville SC 1490 WSDL Slidell LA 1560	WTAQ LaGrange, III. 1300 WTAR Norfolk, Va. 790 WTAW College Station, Tex. 1150	WUCR Sparta, TN 860 WUEZ Salem VA 1480
WRCP Philidelphia, Pa. "1540 WSEL Pontoto, Miss. 1440 WTBF Troy AL 670 WULA Eurula AL 1240 WRCQ New Britain, CT 310 WSEM Donalsonville, Ga. 1500 WTBJ Montelello, FL 1090 WULF Alma, GA 1440 WRCS Anoskie, N.C. 370 WSEN Baldwinsville, N.Y. 1050 WTBO Cumberland, Md. 4450 WUME Paoli IN 1550 WRD Beedsburg, WRD	WRCD Dalton, Ga. 1430 WRCN Riverhead, NY 1570 WRCD Richland Center WI 1450	WSDR Sterling, III. 1240 WSDS Ypsilanti, Mich. 1480 WSEB Sebring, Fla. 1340	WTAX Springfield, III. 1240 WTAY Robinson, III. 1570 WTBC Tuscaloosa AL 1230	WUFF Eastman, Ga. 710 WUFO Emerst, N.Y. 1080
WRDB Reedsburg, WI 1400 WSER Eikton, Md. 1550 WTBQ Parsons, Tenn. 1350 WUMU Gainesville, Fla. 1390 WRDD Bay City MI 1440 WSEV Sevierville, Tenn. 930 WTBQ Warwick NY 1110 WUNA Aquadilla, P. R. 1340 WRDI Hammonton NJ 1550 WSEW Selinsgrove, PA 1240 WTCA Plymouth, Ind. 1050 WUNI Mobile AL 1410 WRDN Durand, Wis. 1430 WSEW Selinsgrove, PA 1490 WTCB Flomaton AL 990 WUNN Mason, Mich. 1110 WRDN DARWING Majne 1440 WSEC Somerset, Kw 1240 WTCH Shawano, Wis. 960 WUNO Rio Pledras, P. R. 1320	WRCP Philadelphia, Pa. 1540 WRCQ New Britaln, CT 910 WRCS Ahoskia N.C. 970	WSEL Pontotoc, Miss. 1440 WSEM Donalsonville, Ga. 1500 WSEN Baldwinsville, N V 1050		WULF Alma, GA 1400 WUME Paoli IN 1560
WRDN Durand, Wis. 1430 WSFB Quitman, Ga. 1490 WTCH Shawano, Wis. 960 WUNN Mason, Mich. 1110 WRDN Durand, Wasen 1400 WSFC Somerset KV 1240 WTCH Shawano, Wis. 960 WUNO Rio Piedras, P.R. 1320	WRDB Reedsburg, WI 1400 WRDD Bay City MI 1440	WSER Elkton, Md. 1550 WSEV Sevierville, Tenn. 930 WSEW Selinsprove PA 1240	WTBP Parsons, Tenn. 1550 WTBQ Warwick NY 1110	WUMU Gainesville, Fla. 1390 WUNA Aquadilla, P. R. 1340 WUNI Mobile AL 1410
WRDV Augusta, maine 1400 WSFC Solierset, R.V. 1280 WTC. Tell City, Ind. 1230 WUNR Brookline, Mass. 1600 WRDV Augusta, GA 1480 WSFD Seaford, DE 1280 WTC. Tell City, Ind. 1230 WUNE Bittered MA 1110	WRDO Augusta Maine 1400	WSFB Quitman, Ga. 1490 WSFC Somerset, Ky. 1240 WSFD Seeford DF 1280	WTCH Shawano, Wis. 960	WUNN Mason, Mich. 1110 WUNO Rie Piedras, P.R. 1320 WUNR Brookline, Mass. 1600
WRDW Augusta, GA 480 WSFD Seaford, DE 1280 WTCJ Tell City, Ind. 1230 WUNK Brookline, Mass. 1600 WRED Hotyoke, Mass. 930 WSFR Sanford, Fla. 1300 WTCL Warren, Ohio 1570 WUPR Utado, P.R. 1530 WRED Monroe, GA 1490 WSFW Seneca Falls, N.Y. 1110 WTCD Campbellsville, Ky. 1450 WUPS Atlantic City, NJ 1490 WSFW Seneca Falls, N.Y. 1490 WTCD Campbellsville, Ky. 1450 WUSS Atlantic City, NJ 1490 WSFW Seneca Falls, N.Y. 1490 WTCD Campbellsville, Ky. 1450 WUSS Atlantic City, NJ 1490 WSFW Seneca Falls, N.Y. 1490 WTCD Campbellsville, Ky. 1450 WUSS Atlantic City, NJ 1490 WSFW Seneca Falls, N.Y. 1490 WTCD Campbellsville, Ky. 1450 WUSS Atlantic City, NJ 1490 WSFW Seneca Falls, N.Y. 1490 WTCD Campbellsville, Ky. 1450 WUSS Atlantic City, NJ 1490 WSFW Seneca Falls, N.Y. 1490 WTCD Campbellsville, Ky. 1450 WUSS Atlantic City, NJ 1490 WTCD Campbellsville, Ky. 1450 WUSS Atlantic City, NJ 1490 WTCD Campbellsville, Ky. 1450 WUSS Atlantic City, NJ 1490 WTCD Campbellsville, Ky. 1450 WUSS Atlantic City, NJ 1490 WTCD Campbellsville, Ky. 1450 WTCD Campbellsville, Ky	WREB Holyoke, Mass. 930 WREC Memphis, TN 600	WSFR Sanford, Fla. 1300 WSFT Thomaston, Ga. 1220	WTCL Warren, Ohio 1570	WUPE Pittsfield, MA 1110 WUPR Utado, P.R. 1530 WUPY Ishpeming MI 970
WREC Memphis, TN 600 WSF1 Infomasion, Ga. 1220 WTCM Traverse City, Mich. 1400 WUPY Ishpeming MI 970 WRED Monroe, GA 1490 WSFW Senea Falls, N.Y. 1110 WICO Campbellsville, Ky. 1450 WUSA Atlantic City, NJ 1490 WREM Jenkins, Ky. 1000 WSGA Savannah, Ga. 1400 WTCR Ashland, Ky. 1420 WUST Washington DC 1120 WREM Jonkins, Ky. 1000 WSGB Sutton, W.Va. 1490 WTCS Fairmount, W.Va. 1490 WVAB Virginia Bch., Va. 1550 WREN Topeka, KS 1250 WSGC Elberton, GA 1400 WTCW Whitesburg, Ky. 920 WVAL Sauk Rapids, Minn. 600 WREO Ashtabula, Ohlo 970 WSGN Birmingham AL 610 WTEL Philadelphia, Pa. 860 WVAM Altoona, Pa. 1430	WREL Lexington, Va. 1450 WREM Jenkins, Ky. 1000	WSGB Sutton, W.va. 1490 1	WTCO Campbellsville, Ky. 1450 WTCR Ashland, Ky. 1420 WTCS Fairmount, W.Va. 1490	WUSS Atlantic City, NJ 1490 WUST Washington DC 1120 WVAB Virginia Bch., Va. 1550
WREO Ashtabula, Ohlo 970 WSGN Birmingham AL 610 WTEL Philadelphia, Pa. 860 WVAM Altoona, Pa. 1430	WREN Topeka, KS 1250 WREO Ashtabula, Ohio 970	WSGN Birmingham AL 610	WTCW Whitesburg, Ky. 920 WTEL Philadelphia, Pa. 860	WVAL Sauk Rapids, Minn. 600 WVAM Altoona, Pa. 1430

U.S. AM STATION	IS BY CALL LETT	ERS	
Call Location kHz	Call Location kHz	Call Location kHz	Call Location kHz
WVAP Burnettown, S.C. 1510 WVAR Richwood, WVA, 600 WVBS Burgaw NC 1470 WVCB Shallotte, N.C. 1410 WVCF Windermere, Fia. 1480 WVCG Coral Gables, Fia. 1080 WVFC McConnelisburg, PA 1530 WVFR Ridgefield, CT 850 WVFR Ridgefield, CT 850 WVFR Ridgefield, CT 850 WVFR McConnelisburg, PA 1580 WVIC E. Lansing, Mich. 730 WVIR Mt. Kisso, N.Y. 1380 WVIR Bath, NY 1380 WVIP Caguas, P.R. 1110 WVJP Caguas, P.R. 1110 WVJP Caguas, P.R. 1110 WVJP Caguas, P.R. 1110 WVJP Caguas, KY 1270 WVKO Columbus, Ohlo 1580 WVKY Louisa, KY 1270 WVKO Columbus, Mass. 1770 WVLD Valdosta, Ga 450 WVKY Ucuisa, KY 170 WVLD Valdosta, Ga 450 WVKN Olney, Miss. 170 WVLN Olney, Miss. 170 WVLN Water Valley, Miss. 170 WVNN WYN Burlington, Vt. 620 WVMN Gochran, Ga 1440 WVMN Tuscumbla, AL 1590 WVMN Tuscumbla, N. 1590 WVMN Halehurst, Ga 920 WVOH Hazelhurst, Ga 920 WVOH Hazelhurst, Ga 920 WVOH Hazelhurst, Ga 920 WVOH Hazelhurst, Ga 920 WVOH Untsville, Fla 920 WVOH Untsville, Fla 920 WVOH Untsville, Fla 920 WVOH Untsville, AL 920 WVOH Untsville, AL 920 WVOH Untsville, AL 920 WVOH Untsville, AL 920 WVOY Underlesvoix, MI 1270 WVOY Charlesvoix, MI 1270 WVOY Carolina, P.R. 1400 WVOY Carolina, P.R. 1400 WVOY Charlesvoix, MI 1270 WVOY Charlesvoix, MI 1270 WVOX Carolina, P.R. 1400 WVOY Charlesvoix, MI 1270 WVOX Charlesvoix, MI 1270 WVOX Carolina, P.R. 1400 WVOY Charlesvoix, MI 1270 WVOX Charlesvoix, MI 1270 WVOX Carolina, P.R. 1400 WVOY Charlesvoix, MI 1270 WVOX Charlesvoi	WWBD Bamberg-Denmark, S.C. WWBK Brockport NY WWBK Brockport NY WWBR Windber, Pa. WWBZ Vineland, N.J. WWCA Gary, Ind. WWCA Gary, Ind. WWCD Corry, PA WWCC Bremen, Ga. WWCH Clarion, Pa. WWCM Brazil, Ind. WWCM Brazil, Ind. WWDC Waterbury, Conn. 1240 WWDC Waterbury, Conn. 1240 WWDC Waterbury, Conn. 1240 WWDC Waterbury, Conn. 1240 WWDD Hampton VA WWDJ Hackensack, NJ WWDD Murfreesboro, N.C. WWBE Memphis TN WWBL Medford MA WSLC Clermont FL WWGM Nashville, Tenn. WWGM Nashville, Tenn. WWGM Nashville, Tenn. WWGM Nashville, Tenn. WWGM WGM WGM WGM WGM WGM WGM WGM WGM WGM	WWVA Wheeling, W.Va. 1170 WWWB Jasper AL 1360 WWWC Wilkesboro, N.C. 1240 WWWD Schnectady, NY 1240 WWWB Cleveland, OH 1100 WWWF Fayette AL 990 WWWR Russsellville AL 920 WWWR Russsellville AL 920 WWXL Manchester, Ky. 1450 WWYO Pineville, W.Va. 1260 WXCE Amery, WI 1260 WXCE Amery, WI 1260 WXCE Clifton Forge VA 1230 WXCE Peoria, Iii, 1350 WXCE Welch, WV 1340 WXCE Welch, WV 1340 WXEW Yabucoa, PR 840 WXCE Welch, WV 1340 WXEW Yabucoa, PR 850 WXIT Charleston, W.Va. 1450 WXIT Charleston, W.Va. 1450 WXIT Charleston, W.Va. 1450 WXIV South Paris, ME 1450 WXLV Jublin, Ga. 1230 WXLV Indianapolis, Ind. 950 WXLV Milledgeville, GA 1310 WXLW Milledgeville, GA 1310 WXLW Milledgeville, GA 1320 WXLW Milledgeville, GA 1320 WXLW Milledgeville, GA 1320 WXLW Milledgeville, GA 1320 WXLW Montgomery, AL 1320 WXRF Guayama, P.R. 1850 WXRF Guayama, P.R. 1850 WXN SSWainsboro GA 1520 WXN Hattiesburg, Miss. 1310 WXV Jeffersonville, Ind. 1450 WYV Jeffersonville, Ind. 1450 WYY Jeffersonville, Ind. 1450 WYY Jeffersonville, Ind. 1450 WYY Jeffersonville, Ind. 1450 WYY BWASH Massena, N.Y. 1050 WY BWASH MASSENA MASH 1050 WY B	WYLD New Orleans, Ls. 940 WYLO Jackson, Wis. 640 WYLS York AL 1350 WYMB Manning, S.C. 1410 WYMS Marning, S.C. 1410 WYMC Mayfield, KY 1430 WYNA Raleigh, N. C. 1550 WYNG Agnield, KI 150 WYNG Agnield, N. C. 1550 WYNG Agnield, N. C. 1500 WYNK Baton Rouge, Ls. 1580 WYNK Baton Rouge, Ls. 1580 WYNK Baton Rouge, Ls. 1580 WYNK Brunswick, Ga. 790 WYNK Leighton, Pa. 1550 WYNK Smyrna, Ga. 1650 WYNK Smyrna, Ga. 1650 WYNK Smyrna, Ga. 1650 WYNK Soperton, GA 1600 WYOU Tampa, Fla. 1550 WYNK Soperton, GA 1600 WYOU Tampa, Fla. 1550 WYRE Annapolls, Md. 810 WYRD E. Syracuse, NY 1540 WYRE Annapolls, Md. 810 WYRU Red Springs, N.C. 1510 WYRU Red Springs, N.C. 1510 WYSH Culisburg, N.C. 1510 WYSH Clinton, Tonn, 1380 WYSH Clinton, Tonn, 1380 WYSH Suffalo, N.Y. 1400 WYSH Franklin, Va. 1280 WYTH Madison, Ga. 1280 WYTH Rocky Mount, Va. 1570 WYTL Oshkosh, WI 1490 WYWE Wytheville, Va. 1280 WYYW Wytheville, Va. 1680 WYYW Wytheville, Va. 1680 WYYW Jasper GA 1680 WYYW Jasper GA 1680 WYYW Jasper GA 1680 WYYE Allamta, Gs. 1460 WYZH Allamta, Gs. 1460 WYZH Allamta, Gs. 1460 WYZH Defunlak Sprgs. Fla. 1410 WZAP Bristol, Va. 1590 WZAP Bristol, Va. 15
	J.S. FM STATION	IS BY LOCATION	1
Location Call MHz	Location Call MHz	Location Call MHz	Location Call MHz
ALABAMA	Muscle Shoals WLAY-FM 105.5 Oneonta WKLD 97.7 Opp WAMI-FM 102.3	Parker KMDX-FM 99.3 Phoenix KQYT 95.5 KMEO-FM 96.9	KFIN 107.9 Kenai KQOK 100.1 Lake Village KLVA 95.9
Abbeville Alexander City Andalusia Anniston Arab WCRQ-FM Athens WMAN 100.5 WHMA-FM 100.5 WHM-FM 92.7 WHM-FM 100.5 WHM-FM 100.7 WH	Opp	ROOL-FM 94.5	Little Rock KARN-FM 103.7 KLRE-FM 98.5 KLRZ-FM 98.5 KLRZ-FM 98.5 KLRZ-FM 98.5 KZQ 94.1 KXXA 95.7 KFMV 107.9 Mammoth Spring KAMS 95.1 KSKB 101.7 Monticello KHBM-FM 93.5 MONTICELLO FM 98.3 KILO-FM 98.3 KILO-FM 98.3 KILO-FM 98.3 KOR 105.5 Nome KILO-FM 98.1 KOR 105.5 Nome SPRINGS SPRINGS SPRINGS KAMO-FM 94.3 KOTN-FM 92.3 KOTN-FM 93.3 ROGERS KAMO-FM 94.3 SAIGM KADL-FM 93.3 KOTN-FM 95.9 SEARCY KAMO-FM 94.3 KOSY-FM 103.9 KOSY-FM 103.9 KMCK 105.7 KOSY-FM 103.9 KMCK 105.7 KOSY-FM 107.1 KOSY-FM 107.1 KOSY-FM 107.1 KOSY-FM 107.1 KOSY-FM 107.5 WAINLE KWAN-FM 107.7 CALIFORNIA Alameda KJAZ 92.7 Anaheim KZJZ 92.7 Anaheim SEZY-FM 95.9
WTVY-FM 95.5 Enterprise WIRB-FM 96.9 WKMX 106.7	KSKA 103 Fairbanks KUAC-FM 104.1 Juneau KTQO 104.3	Berryville KSCC 107.1 Blytheville KHLS 96.1 Brinkley KBR1-FM 102.3	Apple Valley KAVR-FM 102.3 Areadia KMAX 107.1
Fairhope	Kenai KQOK 101.1 Ketchikan KRBD 105.9 Kodiak KMXT 100.1 Nome KICY-FM 100.3 North Pole KJNP 100.3 Petersburg KFSK 100.9 Wrangell KSTK 101.7	Clarksville KLYR-FM 92.7 Conway KUCA 91.5 KVEE-FM 105.1 Crossett KAGH-FM 104.9 Dardanelle KWKK 102.3 De Queen KDQN-FM 92.7 DeWitt KDEW-FM 98.7 EI Dorado KRIL 99.3	Arcata KXG0 93.5 KAHS 91.5 KHSU-FM 90.5 Auburn KHYL 101.1 Avalon KBIG-FM 104.3 Bakersfield KLYD-FM 94.1 KBBY 107.9 KGFM 101.5 KHS-FM 96.5 KKXX 107.9
Huntsville WAHR 99.1 WLRH 89.3 WNDA 95.1 WNDG 90.1	Apache Junction KSTM 107.1 KSMR-FM 106.6 Batesville KGED 88.1	KEZU 103.1 Fayetteville KKEG 92.1 KUAF 88.9 KNWA 103.9	Rarstow KWTC FM 043
Jackson WHOD-FM (04.9) Jacksonville WLIS-FM 91.9 WWB-FM 102.5 WMBL 97.5 WHILL-FM 91.3 WKSJ-FM 94.9 WLPR 96.1	Bisbee KBAZ 92.1	Forrest City KBFC 93.5 Ft. Smith KISR 93.7 KMAG 99.1 KTCS-FM 99.9 KXXI 100.9 Harrison KH0Z-FM 102.9 Heber Springs KAWW-FM 96.7 Helena KHBA 104.9	KALX 90.7 KPFB 89.3 KRE-FM 102.9 Big Bear Lake KTOT-FM 101.7 Bishop K10Q-FM 100.7 Blythe KYOR-FM 100.3 Borrego Springs KBSH 88.9 Buena Park KBPK 90.1 Camazillo KGAB 95.9
WER 90.5 Monroeville WMFC-FM 98.5 Montgomery WFMI 98.9 WREZ 103.3 WLWI 92.3 WHY-FM 101.9	Kingman KZZZ 82.7 Kingman KZZZ 82.7 Lake Havasu City KBAS 55.9 Mesa KBUZ-FM 104.7 KDKE-FM 93.3 K10G 104.7 Nogales KAYN 98.3	Hot Springs KSPA 96.7 KGUS 97.5 Hot Springs KXOW-FM 106.3 Jacksonville KGMR-FM 100.3 Jonesboro KBTM-FM 101.9 KASU 91.9	Carlsbad KKOS 95.3 Carmel KKOS 95.3 Carmel KWYX-FM 98.5 Chico KCBM 93.7 KCHO 91.1 KPAY-FM 95.1

Location	Call MHz	Location Call MHz	Location Call MH7	
Claremont	KSPC 88.7	2	,,,,,,	Location Call MHz
Coachella Compton	KVIM 93.7 KJLH 102.3	KFBK-FM 92.5 KEBR 100.5 KEWT 105.1	Castle Rock KMJD 92.1 Colorado Springs KRCC 91.5	WGMS-FM 103.5 WGTB 90.1
Concord Crescent City	KVHS 91.1 KVXJ 90.1	KWOD 106.5 KRO1 96.9	KEPC 90.5 KKFM 96.5 KSPZ 92.9	WMAL-FM 107.3 WMZQ 98.7 WKYS 93.9
Cupertino Davis	KKUP 91.5 KDVS 91.5 KYLD 105.5	KXOA 107.9 KZAP 98.5 KWOD 106.5	KRDO-FM 95.1	WKYS 93.9 WHUR 96.3 WPFW-FM 89.3
Delane Dinuba	KDNO 98.5 KLTA 98.9	St. Helena KVYN 99.3 Salinas KDON 102.5	KINX 101.9 KRYT-FM 101.9	FLORIDA
El Cajon El Centro	KECR 93.3 KXO-FM 107.5	KRAY-FM 103.9 KWYT-FM 100.7	Craig KRAI-FM 93.7 Denver KADX 105.1 KCFR 90.1	Apopka WTLN-FM 95.3
El Cerrito Escondido	KEGH-FM 90.1 KECG 88.1 KOWN-FM 92.1	Salinas- KAUG 90.9	KIMN-FM 98.5 KLIR-FM 100.3	Arcadia WOKD-FM 98.3 Atlantic Beach WINJ-FM 104.9
Eureka	KOWN-FM 92.1 KFM1 98.3 KPDJ 92.3	Monterey KRSA-FM 100.7 San Bernardino KVCR 91.9 KOLA 99.9	KLZ-FM 106,7 KHOW-FM 95,7	Belle Glade WSWN-FM 93.5 Boca Raton WKQS 99.9 Boynton Beach WHRS 90.7
Fallbrook Fremont	KAVO 107.1 KFMR 104.9	San Clemente KWVE 107.9	KXKX 95.7 KOAQ 103.5 KOSI-FM 101.1	Bradenton WRMB 89.3
Fresno	KOHL 89.3 KFRY 101.9 KKDJ 105.9	San Diego KFMB-FM 100.7 KFMB-FM 100.7	KBPI 105.9 KVOD 99.5	Cape Coral WRCC 103.9 Clearwater WOKF 95.7
	KFIG 101.1 KFCF 88.1 KFYE 93.7	KFSD-FM 94.1 KITT 105.3 KGB-FM 101.5	Durango KAZY 106.7 KRSJ 101.5	Clearwater- St. Petersburg WQXM 97.9 Clewiston WAFC 106.3
<u> </u>	KKNU 102.7	KIFM 98.1 KBZT 94.9	Ft. Collins KCSU-FM 90.9 KTCL 93.3	Clewiston
	KPUD OKK	KOZN-FM 103,7 KEZL 102,9 KPRI 106,5	Fort Morgan KBRU 107.9	1 Coral Gables WYOR 105.1
Garden Grove	KVPR-FM 89.3 KORJ 94.3	KPBS-FM 89.5 KSDS 88.3	Glenwood Springs KCMK 90.5 KGLS 92.7 Grand Junction KREX-FM 92.3	Crestview WAAZ-FM 104.9 Crystal River WRYO 98.5
Gilroy Glendale Hanford	KFAT 94.3 KUTE 101.9	KSON-FM 97.3 KYXY, 96.5 San Fernando KGIL-FM 95.3	KQIX 93.1 KMSA 91.3	Daytona Beach WDNJ 94.5 WQXQ 101.9
Healdsburg	KKYS 107.5 KIOY 102.7 KJHP 92.9	San Francisco KALW 91.7 KMPX 98.9	KUNC-FM 91.3 KGRE 92.3	WMFJ-FM 101.9 WWLV 94.5 DeFuniak Springs WQUH 103.1 DeLand WELE-FM 105.9 Dunnellon WTRS-FM 102.3 Fort Lauderdale WAFG 90.3
Hemet Hollister Indio	KHYE 105.5 KHIP 93.5 KCMS 103.1	KDFC 102.1 KCBS-FM 97.3 KF0G 104.5	Gunnison KWSB-FM 91.9	DeLand WELE-FM (05.9 Dunnellon WTRS-FM (02.3
Inglewood Irvine	KACE 103.9	KFOG 104.5 KMEL 106.1 K101 101.3	La Junta KBLJ 92.4	WSD0 106.7
Jackson La Canada	KNG1 94.3 KUNF 88.9	KYUU 99.5 KEAR 106.9	Lakewood KPPL 107.5 Longmont KCDC 90.7	WLQY 101.7 WSHE 163.5
Lake Arrowhead Lancaster Livermore	d KDIG 103.9 KOTE 106.3 KKIQ 101.7	KP00 89.8 KQED-FM 88.5	KLMO-FM 104.3 Loveland KLOV-FM 102.3 Manitou Springs KIIQ-FM 102.7	Ft, Meyera WINK-FM 96.9 WHEW 101.9
Lodi	KWIN, 97.7 KCVR Radio	KSAN 94.9 KOIT 96,5 KSFX 103,7~	Montrose KUBG-FM 94. Morrison KWBI 91.(Ft. Pierce W80R 95.3 WLQY 98.7 W0VV 95.5
Lompoc Long Beach	KLPC-FM 92.7 KRQK 100.9	KUSF 90.3 KABL-FM 98.1	Norwalk WLYQ 95.9 Oak Creek KFMU 103.9 Pueblo KPLV 98.9	Ft. Walton Beach WFTW-FM 99,3
Long Beatin	KNOB 97.9 KPEN 97.7	KKHI-FM 95.7 KYA-FM 93.3 San Jose KSJO 92.3	KTSC-FM 89.5 KCSJ-FM 97.9	Gainesville WFTW-FM 103.7 WRUF-FM 103.7 WGVL 105.5
Los Altes	KSUL 90.1 KFJC 89.7	KBAY 100.3 KEZR 106.5	KZLO 100.7 KPUB-FM 99.9	WGLY 98.3 Green Cove Springs WKUE 92.7
Los Angeles	KPEN 97.7 Klos 95.5 KBCA 105.1	KOME 98.5 KSJS 90.7	Rocky Ford KAVI-FM 95.9 Salida KVRH-FM 92.1 Security KWYD 105.5	Holiday WCMQ-FM 92.1
	KFSG 96.3 KFAC-FM 92.3	KLEL 89,3 San Luis Obispo KUNA 96,1 KCPR 91,3	Steamboat Springs KBCR·FM 96.7	Immokallee WLEQ 95.9 Jacksonville WJAX-FM 95.1 WGIK-FM 99.1 WIVY-FM 102.9
	KIQQ 100.3 KHTZ 97.1 KRTH 101.1	KCBX-FM 90.1	Sterling KSTC-FM 96.7 Telluride KOTO 91.7 Vall KVMT 104.7	WOIK-FM 99.1 WIVY-FM 102.9
	KJO1 98.7 KIIS-FM 102.7	San Mateo KCSM 91.1 KSOL 107.9 San Rafael KTIM-FM 100.9 Santa Ana KWIZ-FM 96.7	Windsor KUAD-FM 99.1	WKTZ-FM 96.1
	KMET 94.7 KNX-FM 93.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CONNECTICUT	WJCT-FM 89.8
	KOST 103.5 KPFK 90.7 KPOL-FM 93.9	Santa Barbara KCSB-FM 91.9 KDB-FM 93.7	Bridgeport WEZN 99.9 WPKN 89.5	Jupiter WRYZ-FM 96.7 Key West WFYN-FM 92.5 WVFK 95.5
	KLVE 107.5 KWST 105.9	KBLS 99.9 KRUZ 103.3 KTMS-FM 97.5	Brookfield WINE-FM 95.1 Danbury WIAD-FM 98.3	WIIS 107.1
	KBIG 104.3 KHOF 99.5	Santa Clara KARA 105.7	WXCI 91.7 Fairfield WSHU 91.1 WV0F 88.5	Lakeland WVFM 94.3
Los Banos Los Gatos Madera	KLBS-FM 95.9 KRVE 95.3	Santa Cruz KSCÖ-FM 99,1 KUSP 88.9 KZSC 88.1	Groton WSUB-FM 105.5 Guilford WGCT 90.5	WCIE-FM 91.3 Lakewood WCIE 91.3 Leesburg WLBE-FM 108.7
Mammoth Lakes Manteca	KNBS 903	Santa Maria KXFM 99.1 KSMA-FM 102.5	Hamden WKCI 101.3 WQAQ 86.7	Lehigh Acres WSWF 105.7
Mariposa Marysville Menducino	KUBB 96.3 KRFD 99.9 KMFB-FM 92.7	Santa Monica KCRW 88.9 KSRF 103.1 Santa Paula KAAP-FM 96.7	Hartford WHCN-FM 105.9 WDRC-FM 102.9 WCCC-FM 106.9	Live Oak WORL 98.1 Maccienny WBKF 92.1 Marathon, FL WMUM 94.3
Merced	KRDR 80 I	Santa Rosa KZST 100.1 KBBF 89.1	WIOF 104.1 WJMJ 88.9	Marianna WJAQ (00.9 Melbourne WYRL (02.8
Mission Viejo Modesto	KSBR 88.5	KVRE-FM 91.5 Seaside KZEN 107.1 Shafter KQEZ 97.7	WRTC-FM 89.3	WTAI-FM (07.1 WFIT 91.5 WFIT 91.1
	KHI-FM 89,9 KHOP 104 1 KDHS 90.5	Sonora KROG 92.7 KTHO 103.1	WTIC-FM 96.5 Hartford-Meriden	Miami WTMI 93.1 WJHR 96.3
Mojave	KBHI-FM 89.9 KHOP 104 1 KOHS 90.5 KFIV-FM 102.3 KDOL-FM 97.7	South Lake Tahoe KRLT 100.1 Stanford KZSU 90.1 Stockton KUOP 91.3	WKSS 95.7 Kent WKSB 90.9 Middletown WESU 88.1	WGOS-FM 98.9 WJOK 107.5 WDNA 107.5
Monterey Monte Rio	KLRB 101.7 KWAV KRJB 97.7	KCIM 90.5	WIHS 104.9 Menroe WMNR 88.1	WDNA 88.9 WAIA 97.8 WLYF 101.5
Moraga Mountain View	KSMC 89.5 KSFH 90.5	KJAX 99.3 KSJC-FM 89.5 KSTN-FM 107.3 Susanville KSUE-FM 92.7	New Britain WRCH-FM 100.5 WFCS 90.1 New Canaan WSLX 91.9	WMCU 89.7
Mount Shasta Nevada City Newport Beach	KEDY 95.3 KVMR 89.5 KOCM 103.1	Thousand Oaks KCPB 91.1 KNJO 92.7	New Haven WPLR 99.1 WYBC-FM 94.3	WMJX 96.3 WMJX 96.3 WLRN-FM 91.3 WEDR 99.1
Northridge Oceanside	KCSN 88.5	Tracy KNHS 89.7 Tracy KSRT 100.9	New London WTYD 100.9 WCN1 91.5 Norwalk WNLK-FM 95.9	Miami Beech WWWL 93.9
Ojal Ontario Oroville	KOVA 105.5 KNTF 93.5	Travis AFB KVIK 91.5 Truckee KEZC 101.7 Tulare KB0S 94.9	Norwich WCTY 97.7 Stamford WSTC-FM 96.7	Milton WXBM-FM 102.3 Mt. Dora WORJ-FM 107.7 Naples WNFM 94.5
Oxnard	KFAM 97.7 KPMJ 104.7 KDAR 983	Turlock KCSS 91.9	Wallingford WWER con I	WNCX 97.7 WRG1 03.5
Pacific Grove	KPMJ 104.7 KDAR 98.3 KOCN 104.9 KAZU 90.3	KBDG 90.9 KMIX 98.3 Twenty-Nine Paims	W. Hartford WWUH 91.3	Naples-Ft. Meyers WCVU 94.5 New Port Richey WGUL-FM 105.5 Ocala WFUZ 93.7
Palm Desert Palm Springs	KCMS 103.1 KDES-FM 104.7 KPSH-FM 88.3	KQYN 95.7 Ukiah KALF 103.3	West Haven WNHU 88.7 Westport WDJF 107.9	Okeschohee WIMC 103 1
Paradise Pasadena	KNVR 96.7 KPCS 89.3	Vacaville-Fairfield KUIC 95.3 Ventura KBBY 95.1	Willimantle WXLS 98.3	Orlando WDBO-FM 92.3 WDIZ 100.8 WGAG-FM 89.3
Pebble Beach Patterson	KROQFM 106.7 KSPB 91.5 KOSO 93.1	Visalia KONG-FM 92.9	DELAWARE	WGAG-FM 89.3 WHOO-FM 96.5 WKIS-FM 100.3
Paso Robies Pismo Beach	KPRA 94.3 KPGA 95.3	Walnut KSAK 90.1 Walnut Creek KDFM 92.1 West Covina KBOB 98.3	Bethany Beach WWTR-FM 95.9 Dover WDSD 94.7 Georgetown WSFA 98.5	WBJW 105.1 WFTU 89.9
Porterville Red Bluff Redding	KI00 99.7	W. Sacramento KWHS 91.7 Woodland KSFM 102.5	Georgetown WSEA 93.5 Hockessin WZZE 88.7 Milford WAFL 97.7	Palatka WIYD-FM 99.9 Paim Beach WIND-FM 97.9 Panama City WPFM (07.9 WGNE-FM 98.5
Redondo Beach Rediands	KVIP-FM 98.1 KFOX 93.5 KCAL-FM 96.7	Yuba City KHEX 103.9	Newark WXDR 91.3 Rohoboth Beach WLRB 92.7	WKGC-FM 90.7
Ridgecrest	KUOR-FM 89.1 KLOA-FM 105.5	COLORADO Alamosa KASF 90.9	Seaford WSUX-FM 98.3 Wilmington WMPH 91.7 WJBR 99.5	Pensacola WAJB 107.3
Rio Vista Riverside	KBBL 99.1	KALQ-FM 93.5 Aspen KSPN 97.7	WSTW 93.7	WMEZ 94.1 WJIQ 100.7
	KHNY-FM 92.7 KDUO 97.5	Boulder KGNU *88.5 KBCO 97.3	D. C.	Plantation Key WXOS 100.3
Roseville Sacramento	KLLU 89.7 KPIP 93.5 KCTC 96.1	Breckenridge KBVL 94.7 Brookfield WRKI 95.1	Washington WASH 97.1 WANU-FM 88.5	Pompano Beach WCKO 102.7 Port Charlotte WEEJ 100.1
	KXPR 88.9	Canon City KSTX 103.9	WAMU-FM 88.5 WETA-FM 90.9 WGAY-FM 99.5	Port St. Joe WGCW 93.5 Punta Gorda WCCF-FM 92.7

Wilson	U.S. F	M STATIO	NS BY LOCATION	;,	1
Wideling	Location	Call MHz	Location Call MHz	Location Call MHz	Location Call MHz
Warrier March Warrier Warr	Quincy Riviera Beach	WGMW 94.3	Valdosta WGOV-FM 92.9	Eldorado WKS1 102.3	WGTC 92.3
With Park 100.2 Warter Rainbox With Park With	St. Augustine St. Petersburg	WKES 101.5	Vidalia WICQ 97.7 WVVS 89.9 WAFT 101.1	WJKL 94.3	Boonville WBNL-FM 107.1 Brazil WWCM-FM 97.7
Warrier Walter	Sarasota	WWBA-FM 107.3	WLGA-FM 95.9 Warner Robins WRBN-FM 101.7	Elmwood Park WXFM 105.9 Elsah WTPC 89.7	Carmel WHOE 91.3 Chesterton WDSO 89.1
W. W. W. W. W. W. W. W.	Cabalna	WSPB-FM 106.3 WKZM 105.5	Wayeross WACL-FM 103.3	I WNUR 89.3	i Columbia City WFDT 108.3 I
HAWAII	Starke Stuart	WPXE-FM 106.3 WMCF 92.7	Waynesboro WWGA 100.9 W. Point WCJM 100.9	Flora WNOI 103.9 Flossmoor WHFH 88.5	WWWY 104.9 Connersyllie WCNB-FM 100.3
March Marc	Tallahassee	WGLF 104.1 WFSU-FM 91.8		WACI 92.1	Crawfordsville WNDY 106.3 WLFQ 103.9
Work Wide		WLVW: 94.9	HIIO KKEA 97.9 KFSH 97.1	WGBQ 92.7	Danville WGRT 107.1 Décatur WADM-FM 92.7
The content of the		WOWD 101.9 WAMF 90.5	KUMU-FM 94.7	Geneseo WRSQ-FM 104.9	Elkhart WYEZ 100.7
West	Tampa	WFLA-FM 93.3	KQMQ 93.1	Glen Ellyn WGHS 88.5 WDCB 90.9	Elwood WBMP 101.7
March Marc		WEZX 104.7	KHSS 97.5 KHUI 93.9	Gienview WMWA 88.9 Godfrey WLCA 89.9	i WIIFV 91.5
## STATE March Mar	Titusville	WUSF 89.7 WRMF-FM 98.3	Kailua KKAI 96.3	Greenville WGKN 03.3	Fort Wayne WPTH 95.1
Second	Venice	WAMR-FM 92.1		Havana WDUK 99.3	WIPU 89.1 WBCL 90.3
Clark Hams		WGYL 93.5	IDAHO .	Jacksonville WEAI 100.5	WLHI 88.3
Californ		WEAT-FM 104.5	Blackfoot KBLI-FM 97.7 Bolse KBOI-FM 97.9	I Initiat WLLI-FM 96.7	WXKE-FM 103.9 :
## CF	Winter Haven	WHFL 97.5	KBSU 90.1	Kankakee WBYG 99.9 WKOC 88.3	WBCL 90.3 Frankfort WILO-FM 99.7
GEORGIA	Willer Park	WLOQ 103.1	Burley KSAX 98.3	LaGrange WLTL 88.1	Gary WGVE 88.7
Work Wide	G.E		Emmett KMFE 101.7 Idaho Falis KID-FM 96.1	I Lancina WINR-FM LOS 3	Goshen WGCS 91.1
W 17 0.2	Albany		KUPI-FM 99.1 KIBQ 91.9	Lawrenceville WAKO-FM 103.1	Greencastle WGRE 91.7 WXTA 94.3
Marcha M	-	W117 98.8	Lewiston KPMA 92.7 Lewiston KOZE-FM 98.7	WLNX 91.1	Greenfield WSMJ 99.5 Greenshurg WTRE-FM 107.8
Tanta	Americus	WPUR 97.7	I Moscow KUID 91.7	I Loves Park WLUV-FM 99./	! Howe WHWE 89.7
Marion Williams Washer	A CHIEFT	WAGQ 104.7	I Nampa KFXD∙FM 94.9	Macomb WIUM 91.3 WKAI-FM 100.1	Huntingburg WBDC 100.9 Huntington WVSH 91.9
## W. 1. F. M. 25. J. W. 1. F. M	Atlanta	WABE 90.1 WVEE 103.3	Pocatello KBGL 88.7	WLKL 90.3	Indianapolis WAJC 104,5
## WFIRE 1.5		WKLS-FM 96.1	KS1H 94,9 KRBU 104.9	Mendata WGLC-FM 100.9	WJEL 89.1
WARD		W.C.L.K. 91.0	KADQ 94.3	I Monmouth WDRI 97.7	WICR 88.7 WFBQ 94.7
WALGE WALG		WSB-FM 98.5 WLTA 99.7	1 Twin Falls KMTW 98.5	WTAZ 102.3	WXTZ 103:3
Separation Work Wilding Work Wilding Work Wilding Work Wilding Work Wilding Work Wilding Work Work Wilding Work Work Wilding Wilding Wilding Wilding Wilding Wildi	Augusta	WACG-FM 90.7	KEZJ 95.7	Morton WTAZ 102.3 Mt Carmel WYER-FM 94.9	WNAP 93.1 WRFT 91.5
Mana		WGUS-FM 102.3	1	Mt. Vernon WMIX-FM 94.1	WTLC-FM 105.7 Jasper WITZ-FM 104.7
Wildling	Beinbridge Blue Ridge	WJAD 97.8 WPPL 103.9	Anna WRAJ-FM 92.7	Naperville WONG 89.1	Kendaliville WAWK-FM 93.8
Anthon	Brunswick	WYNR-FM (01.5	WFVH 88.3	Oak Park WGLD-FM 102.7	Kokomo WHSK 89.1
## WELLAR 92.1 ## WOLLAR 197.1 ## WOLLAR 197.2 ## WOLLAR 197.2 ## WOLLAR 197.2 ## WOLLAR 197.3 ## WOLL	Camilla	WEBI 105.5	WAUR 107.9 Barrington WBPR 88.5	Olney WSEI 92.9 Ottawa WRKX 95.3	WKMO 93.5
No.	Carrollton	WBTR-FM 92.1 WWGC 89.3	Beardstown WRMS-FM 94.3 Belleville WBCE 89.7	Paris WACE 98.3	WASK-FM 105.3 WAZY-FM 96.5 WILF 91.0
Bloomington WBNG 101.5 WBNG	Chatsworth Claxton	WCLA-FM 107.1	WYBR-FM 104.9	Park Ridge WMTH 88.5 Pekin WSIV-FM 95.3	WXUS 92.7 La Porte WL01-FM 98.7
Canbola	Columbus	WV0C 102.9	Bloomington WBNQ 101.5	WZRO 104.9 Peoria WKZW 93.3	Lebanon WNON 100.9 Linton WBTO-FM 93.5
Ornelia WCON-FM 89.3 Serion 89.3 Serion 89.3 WCON-FM 89.3 WCON-FM 89.3 WCON-FM 89.3 WCON-FM 89.5 WCCO-FM 89.	Cordele	WFXE 104.9 WFAV 98.3	Cahokia KRTE 89.5 Canton WBYS-FM 98.5	WSWT 106.9	Lowell WLCL-FM 107.1
WALFF WALF	Cornelia Dawson	WCON-FM 99.3 WDWD-FM 92.1	WCIL-FM 101.5	I Paru WIVO IOO Q	Martinsville WCBK-FM 102.3
Lichville W10 97.9 (Charmealign W9 W5 FM 97.5 (Charmealign W10 97.5 (Charmealign W10 FM 97.5 (Ch	Douglas	WOKA-FM 92.1 WDMG-FM 99.5	Carmi WRUL 97.3 Centralia WRXX 95.3	Plano WSPY 107.1	Michigan City WMCB-FM 95.9 Monticello WVTL 98.8
Carsylin	Dublin	W07Y 959	Champaign WDWS-FM 97.5 WLRW 94.5	WWQC 90.3	WBST 92.1
All	Eastman Elberton	WUFF-FM 92.1 WWRK 92.1	Charleston WEIC-FM 92.1	Rantoul WRTL-FM 95.8 River Grove WRRG 88.9	New Albany WW H! 91.5
Savanna WCE P. FM 30.3 WEE 90.5 Savanna WCC 100.1 WART 98.3 WLUP 99.5 WL	Gainesville	W/W/ID 106 7	WBBM-FM 96.3	Bochelle WRHL-FM 102.3	N. Manchester WBKE-FM 89.5
Savanna WCE P. FM 30.3 WEE 90.5 Savanna WCC 100.1 WART 98.3 WLUP 99.5 WL	Glenville	WBCX 89.1 WKIG-FM 106.3	WCYC 88.7	Rock Island WHBF-FM 98.9	Notre Dame WSND-FM 88.9
	Gordon Griffin	WKOG-FM 107.1 WKEU-FM 97.7	WZRD 88.3 WDAI 94.7 WMET 95.5	8alam WJBD-FM 100.1	Peru WARU∙FM 98.3
Wiff of FM 105.5 WS 105	Hawkinsville Haziehurst Jackson	WVOH-FM 93.5 WJGA-FM 92.1	WEFM 99.5 WLUP 97.9	Savanna WCCI 100.1	Plainfield WART 98.3
WFEH.FM 92.1 WGC 107.5 WFMT 98.7	Jesup	W1F0-FM 105.5 WSOJ-FM 98.3	WJEZ 104.3	1 South Bend WWIY 100.5	Princeton WRGW-FM 100.9 Princeton WRAY-FM 98.1 Pancealog WICK 97.7
Marietta WhCG 103.5 WMBI-FM 103.5 WMBI-FM 103.5 WMCG 104.5 WKRT 104.5 WK	La Grange Louisville	WWCG 104.1 WPEH-FM 92.1	WGC1 107.5	Springfield WDBR 103.7 WFMB 104.5	Richmond WQLK 96.1
Marietta WhCG 103.5 WMBI-FM 103.5 WMBI-FM 103.5 WMCG 104.5 WKRT 104.5 WK	MERCOL	WDEN-FM 109.3 WMAZ-FM 99.1	WFMT 98.7 WFYR 103.5	WVEM 101.9 WSSR 91.9 Sterline WVIM 94.3	WECI 91.5 WRIA 101.3
Moultrie WMTM-FM 95.9 WLOW 98.7 WOULD 98.7 WPGA-FM 100.9 WPGA-FM	Manchestar Marietta	WBIE 101.5	WKQX 101.1 WMBI-FM 90.1	Streator WLAX 97.7 Sullivan WSAK 106.3	Rockville WAXI 104.9
Moultrie WMTM-FM 95.9 WLOW 98.7 WOULD 98.7 WPGA-FM 100.9 WPGA-FM	Metter Milledgeville	WMVG-FM 102.3	WXRT 93.1 WLAK 93.9	Summit WARG 88.9 Taylorville WEEE 92.7	Salem WSLM-FM 98.9 Scottsburg WMPI 100.9
Content WPGA-FM 100.9 WPGA-FM 100.9 WPGA-FM 100.1	Moultrie Newnan	WMTM-FM 93.9 WCOH-FM 98.7		Urbana WILL-FM 90.9	Seymour WJUD 93.7 Shelbyville WSVL-FM 97.1
WRUM-FM 97.3 Washington WFG 102.3 Washington WFG 102.3 Washington WFG 103.5 Washington WFG 103.5 Washington WFG 103.5 WF	Perry Rockmart	WPGA-FM 100.9 WZOT 107.1	Chillicothe WCLL 94.3	WKIO 103.9	WHME 103.1
Variety Vari	Rome	WROM-FM 97.7	Columbia WCBW 104.9	Waukegan WEFA 102.3	WSBT-FM 101.5
WHCJ 88.5 WJCL-FM 98.5 WJCL-FM 98.5 WSY-FM 102.9 Woodstock WSTK 105.5 WJCL-FM 98.5 WJCQ 95.1 WSG-FM 98.5 WJCQ 95.1 WJCQ 95.1 WJCM 99.5 W	Sandersville Savannah	WSNT-FM 94.3 WTOC-FM 94.1	Crete WTAS 102.3 Danville WMBJ 102.1	Wheaton WETN 88.1	Terre Haute WTHI-FM 99.9 WBOQ 107.5
WEAS-FM 93.5 WBGF-FM 93.5 WBGF-FM 93.5 WBGF-FM 93.5 WBGF-FM 93.5 WDEK 92.5 WDEK 93.5	Jaranii an	WZAT 102.1 WHCJ 88.5	Decatur WSOY-FM 102.9	Winnetka WNTH 88.1 Woodstock WSTK 105.5	WPFR 102.7 WVTS 100.7
Warsaw W		WJCL-FM 98.5 WEAS-FM 93.1	WJMU 89.9 WDZQ 95.1 Dekath WNIO.FM 90.5	Zion WKZN-FM 96.9	1 WISU 89.7
Dixon WIXN-FM 101.7 Anderson WLHN 97.9 Warsaw WRSW-FM 107.5 WORD 100.1 Downers Grove WDGC-FM 88.3 Angola WLK 100.1 WVGS 91.3 Dundee WVFV 103.9 WVFX 103.9	Smyrre	WOULT 97.3 WXLM 97.3 WQXI-FM 94.1	Oes Plaines WYEN 106.7	1	WHFG 91.1
Swainsboro WJAT.FM 98.3 DuQuoin WDQN-FM 95.5 Auburn WIFF-FM 105.5 W. Terre Haute WWVR 105.5 Information WTH 107.1 East Mollne WEMO 101.3 Aurora WSCH 99.3 Valparaiso WLLE 105.5 Information WTHO-FM 101.7 FM 90.3 E. St. Louis WMRY 101.1 Bedford WBIF 105.5 Vovay WAVV 95.9 FIften WABR-FM 90.3 Edwardsville WSIE 88.7 Bloomington WBWB 96.7 Vincennes WAGV-FM 96.7	Springfield Statesboro	W G E C 103.9 W M C D 100.1	Dixon WIXN-FM 101.7 Downers Grove WDGC-FM 88.3	Angola WLKI 100-1	Warsaw WRSW-FM 107.3 WAVV 95.0
Informativitie WRBI 103.9 WVUR 89.5 Batesville WRBI 103.9 WVUR 89.5 Information WABR-FM 90.5 E. St. Louis WMRY 101.1 Bedford WBIF 105.5 Vevay WAVY 95.9 Fiften WBW 96.7 Vincennes WAOV-FM 96.7	Swainsbore	WVGS 91.3 WJAT-FM 98.3	Dundee WVFV 103.9	Auburn W1FF-FM 105.5 Aurora WSCH 99.3	W. Terre Haute WWVR 105.5 Valnaraise WLJE 105.5
MCnb 100'3 Fedwardshile Male 88'3 Promitting April 20'3 Alucentues Away by 20'3	Thomasville Thomson Tifton	WTUF 107.1 WTHO-FM 101.7	E. St. Louis WDLM-FM 89.3	Batesville WRBi 103.9	WVUR 89.5 Vevay WAVV 95.9
Carley and Mania	111100	WCUP 100.3	Edwardsville WSIE 88.7	Bloomington WBWB 96.7	Vincennes WAOV-FM 96.7 COM/MUNICATIONS WORLD

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Location Call Mi	z Location	Call MHz	Location Call MHz	Location Call MHz
WVUB 9 Winchester WIUC 9	1.1	KHCC-FM 90.1 KHUT 102.9	WR7F IN 1.7 Russellville WAKQ 101.1 St. Mathews WNUI 103.1	WPOR-FM 101.9 WGAN-FM 102.9
IOWA	Independence tota	KIND-FM 101.7 K10L 99.3	Scottsville W.CK-FM 99.3	WMEA 90.1 WMGX 93.1
Algona KLGA-FM 9	Junction City Kansas City	KJCK-FM 94.5 KUDL 98.1 KCKN-FM 94.1	Somerset	Presque Isle WDHP 96,9 WUPI 91.1 WMEM-FM 106.1
Ames KCCQ 10 WOI-FM 9	Larned Lawrence	KANS-FM 98.7	Stanton WSKV 104.9	Rockland WRKD-FM 93.5 Rumford WRUM-FM 96.3
KLFM 10- KPGY 9 Ankeny KANY 10	i.3	KLWN-FM 105.9 KJHK 90.7 KTRO 98.9	Versailles WMM 106.3 Whitesburg WXKQ 103.9 Winchester WKDJ 100.1	Sanford WSME-FM 92.1 Scarborough WJBQ-FM 106.3
Atlantic KJAN-FM 10 Boone KFGO-FM 9	Liberal	KEZS 105.5		Skowhegan WTOS-FM 107.1 Springvale WNCY 91.1 Waterville WTVL-FM 98.3
Rurlington KRUR-FM 10	Lyons Manhatten	KSLS 99.3 KLOQ 106.1 KMKF 101.7	LOUISIANA Abbeviile KROF-FM 104.9	WMHB 91.5 Westbrook WLDB-FM 100.9
KGRS IO Carroll KC1M-FM 9 Cedar Falls KHKE 8	Marysville McPherson Newton	KMKF (01.7 KNDY-FM 103.1 KNEX-FM 96.7 KJRG-FM 92.3	Alexandria KSLI 96.9 KRRV 100.3	MARYLAND
KUNI 9 Cedar Rapids KHAK-FM 9		KENE (III I	KQID 93.1 Bastron KTRY-FM 94.3	Annapolis WNAV-FM 99.1
KOJC 8 KCCK-FM 8	Parsons	KOFO-FM 95.7	KJBS 100.1 Baton Rouge WFMF 102.5 WAFB-FM 98.1	WFSI 107,9 Arnold WACC 89.9 Baltimore WBJC 91,5
KWMR 81 WMT-FM 90	.5 Pratt	KMRJ 96.9 KWLS-FM 93.1 KRSL-FM 95.9 KSKG 99.9	WQXY-FM 100 7 WYNK-FM 101 5 WBRH 90.1	WXYV 102.7 WEAA 88.9
KQCR 10 KTOF 10- Centerville KMGO 9:	.5 Salina		Bayou Vista KQKI-FM 95.3	WPOC 93.1 WRBS 95.1
Charles City KCHA-FM 10	Topeka	KUVV 1903	Crowley KAJN 102 9 DeRidder KEAZ 101.7 Donaldsonville KSMI-FM 104.9	WBAL-FM 97.9 WITH-FM 104.3 WLIF 101.9
Clarinda KSWI 10 Clarion KRIT 9	3.3 .9	KSWT 93.7 WIBW-FM 97.3 KTPK 106.9 KBRA 97.9	Franklin KFRA-FM 93.5	WLPL-FM 92.3 WMAR-FM 106.5 WSPH 90.3
Clear Lake KZEV 10: Clinton KSAY 9: KCLN-FM 9: Council Bluffs KQKQ-FM 9	Wichita	KBRA 97.9 KDSA 91.1 KARD-FM 107.3	Golden Meadow KZZQ 94.3 Grambling KGRM 91.3 Hammond WTGI 103.3	Bel Air WSPH 90.3 Bel Air WHFC 88.1 Bethesda WJMD 94.7
Council Bluffs KQKQ-FM 9 Creston KITR 10		KEYN.EM 103.7	WFPR-FM 107.1 KSLU 90.9 WHMD 107.1	WHFS 102.3
Creston KITR 10 Davenport KITR 10 KALA 9 KWNT-FM 10		KFDL 101.3 KMUW 89.1 KICT 95.1 KSWC \$8.3	I Houma KCIL 107.1	Braddock Heights WPGC 95.5
Decorah KLCD 8	1.5		KHOM 104.1 Jena KJNA 99.3 Jennings KJEF-FM 92.7	WZYQ-FM 103.9 Cambridge WCEM-FM 106.3 Catonsville WKTK 105.7
Des Moines KDPS 6 KDMI 9 KLYF 10	KEN	TUCKY WANY-FM 106.3	Jonesbore KTOC-FM 104.9 Lafayette KRVS 88.3	Cumberland WJSE 102.9
KGGO 9 KRNQ 10	1.9 Ashland Barbourville	WAMX 93.7 WYWY-FM 93.5 WLJC 102.3	KTDY 99.9 KSMB 94.5 Lake Charles KLCL-FM 99.5	Easton WEMD-FM 96.7 WOEL-FM 88.3 Emmitsburg WMTB-FM 89.9
KIOA-FM 9 Kmgk 9	.3 Beattyville .3 Beaver Dam	WLLS-FM 106 3	Lake Charles KLCL-FM 99.5 KGRA 103.7 KSNS 96.1	Frederick WFRE 99.9 WWCS 106.9
KFMD 92	.3 Benton .9 Bowling Green	WLBJ-FM 96.7 WDNS 98.3	Lake Providence KBED 92.7 La Place WCKW 92.3	Frostburg WFRB-FM 105.3 Glen Burnie WBKZ 95.9
Estherville KILR-FM 9 Fairfield KBCT 9 Forest City KIOW 10	g Brandenburg	WMMG 93.5 WKDZ-FM 106.3 WTCO-FM 103.9	Leesville KVVP 105.5 Mansfield KJVC 92.7	Grasonville WAQA 103.1 Hagerstown WWMD 104.7 WWCS 106 9
Forest City K10W 10: Ft. Dodge KKEZ 9 KTGA 9 K1CB 8	Campbellsylle Carrollton Catlettsburg	WVCM 100.1	Many KWLV 107.1 Marksville KAPB-FM 97.7 - Minden KASO-FM 95.3 Monroe KMLB-FM 104.1 Monroe KMLB-FM 104.1	WWCS 106.9 Halfway WQCM 96.7 Havre De Grace WHDG 103.7 WMSG-FM 92.1
KIGA 9 KICB 81 Fort Madison KBKB-FM 10	7 j Columbia	WNES.EM INTO		WMSG-FM 92.1 LaPlata WXTR-FM 107.1 Lexington Park WMDM-FM 97.7
Grinnell KD1C 8: Hampton KQHJN 10	1.5	WCTT-FM 107.1 WYGO-FM 99.3 WCYN-FM 102.3	KNOE-FM 101.9 KREB 106.1 Morgan City KMRC-FM 96.7	Ocean City WKHI 99.9 Prince Frederick WMJS 62.7
Independence KOUR-FM 9	.s Danville	WMGE 107.1 WQXE 106.3	Natchitoches KDBH 97.7 KNWD 91.7	Princess Anne WOLC 102.5 Salisbury WBOC-FM 104.7
KRNA 9	Elkhorn City	WECL 103.1 WHKK 100.9	New Iberia KDEA. 99.1 New Orleans WBSN-FM 89.1	WICO-FM 94.3 Tacoma Park WGTS-FM 91.9 Towson WCVT 89.7
KICG 10 lowa Falls KIFG-FM 99 Keokuk KIM1 99 Knoxville KRLS 9	Falmouth Ft. Campbell Ft. Knox	WARD-FM 1070	WBYU 95.7 WQUE 93.3 WEZB 97.1	Waldorf WSMD-FM 104.1 Westminster WTTR-FM 100.7
KTAV 9: LeMars KLEM-FM 9:	Fulton	WKYW 104.9 WFUL-FM 99.7	WNOE-FM 101.1 WRNO 99.5	Williamsport WYII 95.9 WCRH 90.5 Worton WKHS 90.5
Maquoketa KMAQ-FM 9: Marshalitown KFJB-FM 10	⇒ I Georgetown	WAXU-FM (03.1 WGGC 95.1 WOVO 105.5	1 WWNO 89.9	MASSACHUSETTS
Mason City KLSS 100 Mount Pleasant KILJ 10 Mt. Vernon KRNL-FM 8	.5 Grayson	WGOH-FM 102.3 WKCC 91.5	WYLD-FM 98.5 WWL-FM 101.9	Amherst WAHM 89.5
Muscatine KFMH 9 Newton KLVN 93	g Greensburg Hardinsburg Harrodsburg	WGRK-FM 103.1 WHIC-FM 94.3 WHBN-FM 99.3	Oakdale KCWR 104.9 Oak Grove KDD1 96.7 Opelousas KOGM 107.1	WFCR 88.5 WMUA 91.1 Andover WPAA 91.7
Oelwein KOEL-FM '9: Oskaloosa KBOE-FM 104 KIGC 88	9 Hartford	WLLS-FM 106.3 WSGS 101.5	Ruston KXKZ 107.1	Barnstable WQRC 99.9 Boston WBUR 90.9
Pella KCIII &	if I	WKDQ 99.5 WHYC 103.1 WKCB-FM 107.1	Shreveport KRMD-FM 101.4 KEPT 96.5 KMBQ, 93.7	WBCN 104.1 WBZ-FM 106.7
KPLL 103 Perry KDLS-FM 104 Sheldon KIWA-FM 104	3 Hindman 9 Hodgenville Hopkinsville	WKMO 106.3 WHOP-FM 98.7	KSCL 91.3 KROK 94.8	WTTK 100.7 WEE1-FM 103.3 WERS 88.9
Sioux Center KDCR 91 KVDB-FM 9	.3 Jackson	WKOF 100.3 WJSN-FM 97.7	KCOZ 100.1 Slidell WVSL-FM 105.3	WC0Z 94.5
Sloux City KSEZ 9: KBCM 9:	Jamestown Jenkins Leitchfield	WJRS 104.9 WREM-FM 94.3 WMTL-FM 104.9	Springhill KTKC 92.7 Sulphur KLQQ 100.9 Thibodaux KTIB-FM 108.3	WRBB 91.7 WROR 98.5 Boxford WBMT 88.3
KTFC 103 KWIT 91		WBKY 91.3 WLAP-FM 94.5	VIIIe Platte KVPI-FM 93.5	Bridgewater WBIM-FM 91.5 Brockton WCAV 97.7
Spencer KICD-FM 107 Storm Lake KAYL-FM 101 Twin Lakes KTLB-FM 101	.5	WK0Q 98.1 WVLK-FM 92.9 WKD0-FM 105.5	W. Monroe KYEA 98.3 Winnfield KVCL-FM 92.1 Winnshoro KCRF-FM 95.9	Brookline-Boston WBOS 92.9 Cambridge WGBH-FM 89.7 WHRB-FM 95.3
Washington KCII-FM 9 Waterloo KBBG 88	.3 London Louisville	WFTG-FM 103.9 WFPK 91.9	MAINE	WTBS 88.1 Charlton WBPV 90.1
KNWS-FM 10	.9	WFPL 89.3 WFIA-FM 103.9 WAMZ 97.5		Concord WIQH 88.3 Dudley WNRC 91.1 Duxbury WDBY 91.7
KFMW 107 KXEL-FM 105 Waukon KNEI-FM 103 Waverly KWAR 89	9	WNNS 97.5 WKLO-FM 99.7	Augusta WFAU-FM 101.3	Easten WSHL-FM 91.3 Falmouth WCIB 101.9
Webster City KQWC-FM 95	. 3 .9	WVEZ 106.9 WLRS 102.3	WHSN 89.3 WPBC 92.9 WMEH 90.9	Fitchburg WFMP 104.5 FramIngham WVBF 105.7 WFSB 91.3
West Des Molnes KWDM 88	.9 Madisonville	WUOL-FM 90.5 WUOL 90.5 WKTG 93.9	WWN0 89.9 Bath WIGY 105.9	Franklin WGAO 91.3 Gloucester WVCA-FM 104.9
KANSAS	Manchester	WSOF-FM 89.9 WWXL-FM 103.1	WMOS 91.5 Blddeford WBSF 91.7 WIDE-FM 94.3	Greenfield WHAI-FM 98.3 Haverhill WHAV-FM 92.5 Holliston WHHB 91.5
Abilene KABI-FM 98	Mayfield Maysville Middlesboro	WFTM.FM 959	Brunswick WBOR 91.1 WBHS 91.9	Holyoke WCCH 89.5 Hyannis WCOD 106.1
Baidwin KNBU 88 Chanute KQSM 105	.9 Monticello .5 Morehead	WFLW-FM 101.7 WMOR-FM 92.1	WCME-FM 98.9 Calais WODY-FM 92.7	Lawrence WCCM-FM 93.7 Lowell WSSH 99.5
Clay Center KCLY 100 Colby KXXX 100 KTCC 91	.3 Morganfield	WMSK-FM 95.3	Caribou WFST-FM 97.7 Ellsworth WDEA-FM 95.7 Farmington WUMF-FM 91.9	WJUL 91.5 Lynn WLYN 101.7
Concordia KCKS 95 KVC 0 88	.3 Munfordville .3 Murray	WLOC-FM 102.5	Ft. Kent WIFK 90.3	Marshfield WATD 95.9 Maynard WAVM 91.7 Medford WWEL-FM 107.9
Derby KDRB 95 Dodge City KGNO-FM 95	.9 .5 • Owensboro	WKMS-FM 91.3 WBKR 92.5	Gardiner WABK-FM 104.3 Gorham WMPG 91.1	WMFO 91.5 Milton WMLN-FM 91.5
KTTL 93 El Dorado KOYY•FM 99	.3	WSTO 98.1 WPAD-FM 96.9 WKYX-FM 93.3	Houlton WRNE 89.1 WHOU-FM 100.1 Lewiston WCOU-FM 93.9	New Bedford-Fall River WJFD-FM 97.3 WMYS 98.1
Emporia KLRF 104 Garden City KBUF-FM 93	.9 Paintsville .3 Paris	WSIP-FM 98.9 WRGR-FM 98.7	WRJR 91.5 Lewiston-Auburn WRIM 107.5	Newbury WQLI 68.7 Newton WZBC 90.3
Great Bend KBJC 9 KVGB-FM 104 Hays KJLS 103	.3 Pineville	WKHR 92 WTJM 106.3 WDOC-FM 95.5	Lincoln WLKN-FM 99.3 Millinocket WKTR 97.7 Monticello WXMN 89.5	N. Adams WMNB-FM [00.1 WJJW 91.1
Hiawatha KNZA 103 Hillsbore KHHS 88	.9 Princeton	WPRT-FM 105.5 WPKY-FM 104.9	Norway WOXO 92.7 Orono WMEB-FM 91.9	Northampton WHMP-FM 99.3 North Dartmouth WUSM 90.5
Hoisington KHOK 100 Hutchinson KSKU 102	.9 Providence Richmond	WHRZ 97.7	Portageville KMIS-FM 106.3 Portland WDCS 97.9	Orleans WLOM 104.7 Pittsfield WQRB 105.5
MUNICATIONS WORLD 10	70			

U.S. FM	STATIONS	BY	LOCATION
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U.S. FM STATION	NS BY LOCATION	•	
Location Call MHz	Location Call MHz	Location Call MHz	Location Call MHz
WUPE-FM 95.9 WBRK-FM 101.7		Northfield WCAL-FM 89.3 K'RLX 90.3	MISSOURI
WTBR-FM 89.5 Plymouth WPLM-FM 99.1 Rockland WRPS 91.5	Jackson WHF1 94.1 WJOX-FM 106.1 Kalamazoo WMUK 102.1 WIDR 89.1	Owatonna KRFO-FM 104.9 KRPC 90.5 Park Ranids KPRM-FM 97.5	Aurora KELE 108.1 Ballwin KYMC 89.9 Bethany KAAN 95.9
Colom WMWM 017	WCAA 89.9	Pequot Lakes KTIG 100 I Pine City WCMP-FM 92.1	Pallyar KITR 106.3
Southbridge WESO-FM 100.1 South Hadley WMHC 90.7	WQLK 106.5 Lansing WIM-FM 97.5 WILS-FM 101.7 WITL-FM 100.7 Lapeer WTHM-FM 103.1 Ludington WKLA-FM 108.3 Maristee WRM 97.7 Marquette WNMU-FM 90.1	RRSW-FM 91.7 Preston KF1L-FM 103.1	Boonville
	Lapeer WTHM-FM 103.1 Ludington WKLA-FM 108.3 Maristee WRRK 97.7	Princeton WQPM-FM 106.3 Red Wing KCUE-FM 105.5 Redwood Falls KLGR-FM 97.7	Cabool KVVC-FM 106.3
WMAS-FM 94.7 WAIC 91.9 WAQY 102.1 WSCB 88.9 WTRZ 89.1	Marquette WNMU-FM 90.1 WHWL 95.7 WUUN 100.1 Marshall WELL-FM 104.9	Richfield WY00-FM 101.3 KDWB-FM 101.3	Canton KQCA 102.3 Cape Girardeau KGM 0-FM 100.7 KFMP 102.9 KRCU 90.9 Carroliton KAOL-FM 101.1 Carthage KAOL-FM 103.1 Chillicothe KCRU 103.1 Chillicothe KCRU 104.9 Clayton KFU 0-FM 103.9 KFU 0-FM 99.1 KHRU 88.1 KWILE 90.3
Stockbridge WCWL 91.3	I Midiand WSVC 99.7	Rochester KROC·FM 106.9 KNCV 101.7 KRKP 89.9	KRCU 90.9 - Carrollton KAOL-FM 101.1 - Carthage KRGK 104.9
Taunton WRLM 93.3 Tisbury WV01-FM 95.9 Walpole WSRB 91.7	WRCI 93.5 Monroe WEJY 89.5 WVMO 98.3 Mount Clemens WBRB-FM 102.7	KNXR 97.5 KOLM-FM 96.7	Caruthersville KCRV 103.1 Chillicothe KCHI-FM 103.9 Clouden KFIIO-FM 99.1
Waltham WBRS 91.7	Mount Clemens WBRB-FM 102.7 Mt. Pleasant WCMU-FM 89.5 WCEN-FM 94.5 WMHW-FM 91.5	Rushford KLSE-FM 91.7 St. Cloud KCLD-FM 104.7 WWJO 98.1	
West Barnstable WKKL 91.1 Westfield WSKB 91.5	Munising WQXO·FM 983	St. Louis Park KFMX 104.1 KDXL 91.7	Clinton KDKD-FM 95.3 Cotumbia KWWC-FM 90.5 KBIA 91.3
W. Yarmouth WOCB-FM 94.9 Williamstown WCFM 91.9	WQWQ-FM 104.5 Muskegon Hts. WK1R-FM 101.7	St. Paul KJAB 91.7 St. Pater KRBI-FM 105.5	KCOU 88.1 KFMZ 98.3 KTGR-FM 96.7
Winchester WHSR-FM 91.9 Worcester WAAF 107.3 WICN 90.5	Newberry WNBY-FM 93.5 Niles WNIL-FM 95.3 WAOR 95.3	Sauk Centre KMSR 94.3 Sauk Rapids WHMH-FM 101.7 Thief River Falls KAVS 89.5	KOPN 89.5 KCMQ 96.7
WSRS 96.1 WCUW 91.3	Nevi WOVI 89.5 Oak Park WOPR 90.3	Thief River Falls KAVS 89.5 KOSN FM 99.3 Virginia KWRN 107.1 Wadena KKWS 105.9	Dexter KDEX-FM 102.3
WCHC 89.1 MICHIGAN	Orchard Lake WBLD 89.3 Owosso WOAP-FM 103.9	William KOIC 102.5	Eldon KLDN 92.7 El Dorado Springs
Adrian WLEN 103.9	Physicists WMBM-FM 96.7	Windom KDOM-FM 94.3 Winona KAGE-FM 95.3 KQAL 88.5	Doniphan KOEA 97.7 Eldon KLDN 92.7 El Dorado Springs KESM-FM 107.1 Farmington KTJJ 97.1 Ferguson KCFV 89.5 Florissant KSCF 97.1
WVAC 88.1	Port Huron WSAQ 107.1 WSGR-FM 91.3 WORW 91.9	Worthington KWOA-FM 95.1	Fulton KKCA 97.7 Greenfield KRFG 93.5
Allendale WSRX 88.5 Alma WFYC-FM 104.9 Alpena WHSB 107.7	Royal Oak WOAK 89.3	\	
WATZ-FM 93.5 WCML-FM 91.7 Ann Arbor WCBN 89.5	WIOG 106.3 WWWS 107.1 St. Johns WRBI-FM 92.1 St. Joseph WIRX 107.1	MISSISSIPPI	Hannibal Harrisonville Harrisonville Hillsboro Houston KSCM-FM 99.3 Jefferson City KJFF 106.9 KLUM-FM 88.9 KJMO 100.1
WOUM 91.7 WIQB 102.9 WPAG-FM 107.1	St. Joseph WIRX 107.1 Sandusky WMIC-FM 97.7 Sault Ste Marie WSMM 99.5	Aberdeen WHAY 105.5 Amory WAFM 95.3 Batesville WBLE-FM 95.9	KJMO 100.1 Joplin KOBC 91.3 KSYN 92.5
Auburn Heights WAHS 89.5 Bad Axe WLEW-FM 92.1	Sandusky WIG-FM 99.5 Sault Ste. Marle WSMM 99.5 WSUE-FM 101.3 Southfield WSHJ 88.3 Spring Arbor WSAE 89.3 Sturgis WSTR-FM 99.3 Tawas City WDBI-FM 101.7 Three Rivers WLKM-FM 95.9	Bay Springs WXIY 93.5 Biloxi WQID 93.7	KSTN 92.5 KPCG 102.5 Kansas City KCEZ 94.9 KBEQ 104.3 KTSR 90.1
Battle Creek WKFR-FM 103.3 WDFP 95.3 Bay City WHNN 96.1	Sturgis WSTR-FM 99.3 Tawas City WDBI-FM 101.7	Booneville WBIP·FM 99.3 Brandon WRJH 97.7 Brookhaven WMRQ 92.1	KBEQ 104.3 KTSR 90.1 KCUR FM 89.3
WCHW-FM 91.3 WGER-FM 102.5	Three Rivers WLKM-FM 95.9 Traverse City WLDR 101.9 WNMC-FM 90.9	Bonneville WBIF-FM 99.3 Brandon WRJH 97.7 Brookhaven WMRQ 92.1 Canton WWLM 101.7 Carthage WWYN 98.1 Centreville WZZB 104.9 Clarksdale WAID 106.3	KCUR FM 89.3 KLJC 88.5 KMBR-FM 99.7 KPRS 103.3
Berrien Springs WAUS 90.9 Big Rapids WBRN-FM 100.9	Traverse City WNM-FM 93.5 WNM-FM 01.9 WCW-FM 92.1 WTCM-FM 103.5 Warren WHS 91.5		KXTR 98.5 KWKI 93.3
Bloomfield Hills WBFH 88.1 Boyne City WCLX 93.5	Waterford WISD 86.1	Cleveland WPX 92.7 WCLD-FM 103.9 Clinton WHJT 93.5	KYYS 102.1 Kennett KTMO 98.9 Kirksville KRXL 94.5 Lebanon KJEL-FM 103.7
Cadillae WWTV-FM 92.9 WITW 98.7	Whitehall WLRQ 95.3 Ypsilanti WEMU 88.1 Zeeland WZND 99.3	Coldwater WV1M-FM 95.3 Collins WKNZ 101.7 Columbia WFF-FM 96.7 Columbus WJWF 103.1	Lebanon KJEL-FM 103.7 Lexington KBEK 106.3 Liberty KWPB 91.9
Charlotte WCER-FM 92.7 Cheboygan WCBY-FM 105.1	MINNESOTA	Columbus WJWF 103.1 WLNK 90.9 WACR-FM 103.9	KFIX-FM 106.5 Mansfield KTRI-FM 95.9
Clare WKNN-FM 90.3 Coldwater WNWN 98.5 Dearborn WNIC 100.3	Albert Lea KCPI 95.3 Alexandria KXRA-FM 92.7 KCMT-FM 100.7	Corinth WALP 90.5 WKCU-FM 94.3	Lebanon KJEL-FM 103.7 Lexington KBEK 106.3 Liberty KWPB 91.9 KFIX-FM 106.5 Mansfield KTRI-FM 95.9 Marshall KMFL-FM 102.9 MACON
Detroit WDET-FM 101.9 WBFG 98.7 WJZZ 105.9	KCMT-FM 100.7 Altkin KEZZ 94.3 Austin KAUS-FM 99.9	WAD1 95.3 Drew WDRU 95.3 Ellisville WBSJ 102.3	KNIM-FM 95.3 Mexico KWWR-FM 95.7 Missoula KDXT-FM 93.3
WABX 99.5 WDEE-FM 93.1 WDRQ 93.1	KEDQ 90.7 Anoka KTWN 107.9	Eupora WEXA 101.7 Forest WQST 92.5	Monett KKBL 95.9
WDTR 90.9 WGPR 107.5	KRHP INI I	I Greenville WRAO 97.9	Montgomery City KVCM 103.9 Mountain Grove KLRS-FM 92.7 Osage Beach KRMS-FM 93.5
WLDM 95.5 WMUZ 103.5 WMZK 97.9 WJR-FM 96.3	Benson KBMO-FM 93.5 Brainerd KLIZ-FM 95.7 WJ Y 106.7 Breckenridge KKWB 104.9	WDMS 100.7 Grenada WQXB 100.1 Gulfpert WGUF-FM 96.7 WRQA-FM 107.1	Overland KRSH 90.1 Parkville KGSP 90.3 Point Lookout KSOZ 91.7
WORS-FM 105.1	Cambridge KABG 105.5 Cloquet WKLK-FM 100.9 Collegeville KSJR-FM 90.1	WTAM 102.3	Point Lookout KSOZ 91.7 Poplar Bluff KPBM-FM 94.5 KMMX 95.5 KJEZ 95.3
WWJ-FM 97.1 WWWW 106.7 WRIF 101.1	Crookston KCUM-FM 91.7	Hazelburst WHDC-FM 103.7 WHSU 91.1 Hazelburst WMDC-FM 100.9 Holly Springs WKRA-FM 92.7 Houston WCPC-FM 93.3	Portageville KM1S-FM 106.3 Rolla KCLU-FM 94.3 KMNR 89.7 KZNN 105.3
WCAR-FM 92.3 Downiae WDOW-FM 97-9		Indianola WNLA-PM 100.0	1 M M M M M 88.5 [
E. Lansing WKAR-FM 90.5 WFMK 99.1 WVIC-FM 94.9 Elsie WOES 91.3	WAKX-FM 98.9 WSCD-FM 92.9 KAOH-FM 94.9 WDTH 103.3	Jackson WZZQ 102.9 WVLS 91.5	St. Charles KCLC 89.1 Ste. Genevieve KSGM-FM 105.7 St. Joseph KUSN-FM 105.1
Elsie WOES 91.3 Escanaba WFNN 104.7 WKZY 97.1	WGGR 105.1 E. Grand Forks KRAD-FM 103.9 Eveloth WVIA 100 I	WKXI 94.7	St. Louis KCFM 93.7 KKSS 107.7 KAD1 96.3
Farmington Hills WORB 90.3 Flint WFBE 95.1	Fairmont KFMC 106.5 Faribault KDHL-FM 95.9 Fergus Falls KBRF-FM 103.3	WISU 90.7 WIMI 99.7 WIFR 96.3 Koscuisko WKOZ-FM 105.1 Laurel WNSL-FM 100.3	WIL-FM 92.3 KOMR 89.3
WWCK 105.5 Frement, WSHN-FM 100.1	Forest Lake WLKX-FM 95.9	L Leland WBAD 94.3	KMOX-FM 103.3 KEZK 102.5
WWRM 106.7 Gladwin WGMM 103.1	Golden Valley KQRS-FM 92.8 Grand Rapids KXGR 96.7 KAXE-FM 91.7 WMLW 101.3	Louisville WLSM-FM 107.1 Magee WSJC-FM 107.5 McComb WCCA 94.1 WIXO 105.7	KLPH 89.9 KLSQ 98.1 KS1 H 91.8
Grand Rapids WFUR-FM 102.9 WCSG 91.3	I Hibbins WMFG+FM 100.3	Meridian WDAL 101.3 WALT 97.1	KWMU 90.7 Salem KSMO-FM 95.9 Sedalia KSIS-FM 92.1
WGRD-FM 97.9 WJFM 93.7	International Falls KICC 91.5	Mississippi State WMSB 89.1 Moss Point WKKY 104.9 Natchez-Vidalia WQNZ 95.1	KCBW 92.1 Springfield KTTS-FM 94.7
WLAV-FM 96.9 WYON 101.3 WOOD-FM 105.7	Luverne KQAD-FM 93.7 Mankato KMSU 90.5 KEEZ-FM 99.1	New Albany WNAU-FM 103.3	KTXR 101.5 KWFC 97.3 KWTO-FM 98.7 KSMU 91.1
WVGR 104.1 KXGR 96.7 WZZR-FM 95.7	Marshali KMHL-FM 100.1 Minneapolis-St. Paul	Ocean Springs WOSM 103.1 Oxford WOOR 97.5 Pascagoula WPMO 99.1	Tarkio-Rockport WTRX 93.5
WELD INCO	KBEM-FM 88.5 WCCO-FM 102.9 WCTS-FM 100.7 KSTP-FM 94.8	WGUD 106.3 Philadelphia WWSL 102.3 Picayune WJOJ 106.3	Warrensburg KCMW 90.9 Waynesville KFBD-FM 97.7
Hancock WMPL-FM 93.5	KEEY-FM 102.1	Pontotoe WSEL-FM 96.7 Poplarville WRPM-FM 107.9 Rolla KMNR 89.7	West Plains KWPM-FM 93.9
Highland Park WHPR 88.1 Hillsdale WCSR-FM 92.1	WLOL 99.5 KNOF 95.3		MONTANA Anaeonda KGLM-FM 97.7
novancen waga-rm 91.1	KTCR-FM 97.1 WAYL-FM 93.7 KFAI 90.3	State Stat	Betgrade KGVW-FM 96.7 Billings KURL-FM 97.1
Houghton Lake WJGS 98.5 Howell WHMI-FM 93.5 Interlochen WIAA 88.3	Moorhead KSJN 91.1 KIDA 99.9 KCCM-FM 91.1	WKYV-FM 106.7	KBMS 96.5 KOOK-FM 102.9 KYYA 93.3
fron Mountain WJNR-FM 103.9	Moorhead KQWB-FM 98.7	Wesson WWCL 91.1 West Point WKBB 100.9 Winona WONA-FM 96.7	KEMC 91.7 KPER 88.9 Bozeman KGLT 90.1
WUPM 103.3 Ishpeming WJPD-FM 92.3	KMRS-FM 107.5 New Ulm KNUJ-FM 93.1	Yazoo City WJNS-FM 92.1	Butte KOPR 94.1

Location Call MHz	Location Call MHz	Location Call MHz	Location Call MHz
KMSM-FM 91.5 Dillon KDBM-FM 98.3 Glendive KIVE-FM 96.5	Blairstown WFMV-FM 106.3 Bricktown WBGD 91.9 Bridgeton WSNJ-FM 107.7	WBNY 96.1 WADV 106.5 WDCX 99.5	WDKX 103.9 WPXY 97.1
KAAK 98.9 KNUW 94.5 Hamilton KLYQ-FM 98.8	Camden WKDN-FM 106.9 Canton WNNN 101.7 Cane May WRIO-FM 101.7	WBF0 88.7 WBUF 92.9 WRED-FM 94.5	WRUR 88.5 WVOR 100.5 WXXI-FM 91.5 Rome WKAL-FM 95.9
Hardin KRWS 95.3 Havre KPOX 92.5 Helens KHTC 89.8	Dover WDHA-FM 105.5 E. Orange WFMU 91.1 Eatonium WHTG-FM 108.3	WGRQ 96.9 WWOL-FM 104.1 WPHD 103.3	Sag Harbor WLNG-FM 92.1 St. Bonaventure WSBU 88.3 Saratoga Springs WSPN 91.1
KBLL-FM 92.1 KCAP-FM 192.1 KSSR 98.5 K819 97.1	Egg Harbor WRDR 104.9 Flemington WCVH 90.5 Franklin WSUS 102.3 Franklin Lakes WRRH 88.7	Cananadaigua WFLC 93.5 Canton WSLU 96.7 Cazenovia WITC 90.9 Central Square WCSQ 89.3	Schenectady WKAJ-FM 102.3 WGFM 99.5 WRUC 90.9
KAIQ 97.1 Livingston KYBS 97.7 Lewistown KLCM-FM 95.9 Missoula KUFM 88.1	Franklin Lakes WRRH 88.7 Glassboro WGLS-FM 89.7 Hackettstown WNTI 91.9 Hanover WHPH 90.3	Cherry Valley WJIV 101.9 Clinton WHCL-FM 88.7 Corning WCLL-FM 106.1	WMHT-FM 89.1 Seneca Fails WSFW-FM 99.3 Sodus WSCS 89.5 South Bristol WMIV 95.1
KYSS-FM 94.9 KYLT-FM 100.1 KDXT 93.3	Highland Park WVHP-FM 90.3 Lawrence Twp WLCR 89.7 Lineroft WBJB-FM 90.8	Cortland WCEB 91.9 WNOZ 99.9 WSUC-FM 90.7	South Briston WMRJ 95.3 Stony Brook WUSB 90.1 Syosset WKWZ 88.5
Plentywood KPWD 100.1 Scobey KCGM 95.7 Shelby KZIN-FM 96.3	Long Branch WRLB 107.1 Millville WMVB-FM 97.3 Morristown WJSV 90.5	Depew WBLK-FM 93,7 De Ruyter Twp. WOIV (05.1 Dix Hills WHHJ 88.9 Dundee WFLR-FM 95.9	Syracuse WAER 88.3 WNTQ 93.1 WMHR 102.9
NEBRASKA	Newark WFME 105.9 WFME 94.7 WVNJ-FM 100.3 WBG0 88.3	Dundee WFLR-FM 95.9 Ellenville WELV-FM 99.3 WECW 88.1 WEHH-FM 94.3	WONO 107.9 WSYR-FM 94.5 Trey WFLY 92.3
Alliance KFAH 92.1 Auburn KAUB 105.5 Aurora KROA 103.1 Beatrice KWBE-FM 92.9	New Brunswick WMGQ 98.3 Newton WIXL-FM 103.7 WRSU-FM 89.1	WLVY 94.3 WLEZ 92.7 Endicott WMRV 105.5	WRPI 91.5 WIBQ 98.7 WOUR 96.9 WZOW 107.3
Beatrice KWBE-FM 92.9 Blatr KDCV-FM 91.1 Columbus KOXI 101.1 KTLX 91.9	Ocean City WSLT-FM 106.3 Paterson WPAT-FM 93.1 Piscataway WVPH 90.3 Pleasantville WGRF, 99.3	Floral Park WSHS 90.3 Fredonia WJQL-FM 88.9 Fulton WKFM 104.7 WBAU 90.3	Utica WKGW 104:3 WIBQ 94.9 WOUR 96.9
Crete KTTT-FM 93.5 Crete KTAP 103.9 Crookston KINI 96.1	Point Pleasant WADB 95.9 Princeton WPRB 103.3 Princeton Junetion WWPH 90.8	Geneseo WGSU 89.3 Geneva WEOS-FM 89.7	WPNR-FM 90.7 WZOW 107.3 WTLB-FM 107.3 WDLA-FM 92.1
Fremont KHUB-FM 105.5 Gordon KSDZ 95.5 Grand Island KRGI-FM 96.5 Hastings KICS-FM 93.5	Ship Bottom WJRZ 100.1 South Orange WSOU 89.5 Teaneck WFDU 89.1	WECQ 101.7 Glens Falls WYLR-FM 95.9 WBZA-FM 107.1	Watertown WNCQ 97.5 Waverly WAVR 102.3 Wethersfield
Hastings KICS-FM 93.8 KCNT 88.1 Holdrege KUVR-FM 97.7 Kearney KOVF-FM 91.3	Toms River WOSM 92.7 Trenton WBJH 101.5 W1 CR 89.7	Gouverneur WLUF 92.7 Greece WGMC 90.1	Township WBIV 107-7 White Plains WWYD 103.9
Kearney-Holdrege KRNY-FM 98.9 Lexington KRVN-FM 93.1	WCHR 94.5 WPST 97.5 WTSR 91.3 Upper Montclair WMSC 108.5	Hamilton WRCU-FM 90.1 Hammondsport WVIN-FM 98.3 Hempstead WIOK 98.3 WVHC 88.7	NORTH CAROLINA Ahoskie WRCS-FM 99.3
Lincoln KBHL 95.3 KFMQ 101.9 KHAT 106.3 KLIN-FM 107.3	Vineland WDVL-FM 92.1 West Long Branch WMCX 68.1 Wildwood WCMC-FM 100.7	Henrietta WRHR 90.5 WITR 89.7 Hornell WCKR 92.1	Albemarte WABZ-FM 100.9 Asheboro WCSE 92.3 Asheville WLOS-FM 99.9
KLIN-FM 107.3 KRNU 90.3 KUCV 91.3 KFOR-FM 102.7	Zarephath WAWZ-FM 90.1	WHHO-FM 105 3 Horseheads WQIX 100.9 Houghton WJSL 90.3	WUNF-FM 88.1 WBMU-FM 91.3 Black Mountain WMIT 106.9 Boiling Springs WGWG 88.3
KZUM 89.5 Nehraska City KNCY-FM 97.7 Norfolk WJAG-FM 106.7	NEW MEXICO Alamogordo KINN-FM (05.5	Hudson WHUC-FM 93.5 Hyde Park WHVVS 97.7 Ithaea WHCU-FM 97.3 WICB 91.7	Boone WASU-FM 90.5 Bridgeton WSFL 106.5 Bules Creek WCCE 90.1
Ogaliala KOGA-FM 92.7 Omaha KGOR 99.9 KGB1-FM 100.7 KIOS-FM 91.5	KXXI 94.3 Albuquerque KANW 89.1 KMYR 99.5	WEIV 103.7 WVBR-FM 93.5 Jamestown WWSE 93.3	Burgaw-Wilmington WPJC 99.9 Burlington WPCM 101.1 Burlington-Graham
KIOS-FM 91.5 KOOO-FM 104.5 KVNO 90.7 KFMX 92.3	KDEF-FM 94.1 KLYT 88.3 KPIC 91.5	WHUG 101.7 Johnstown WIZR-FM 104.9 Kingston WBPM 94.3	WBAG-FM 93.9 Chapel Hiii WUNC 91.5 WXYC 89.3 Charlotte WBCY 107.9
O'Nelli KBRX-FM 92.7 Scottsbulff KMOR 92.9 KNEB-FM 94.1	KRST 92.3 KLYT-FM 88.3 KFMG 107.9 KHFM 96.3	Lake Ronkonkoma WSHF 91.9 Lake Success WTFM 103.5 Lancaster WSMH-FM 89.9 Liberty WVOS-FM 98.9	WROQ 95.1 WSOC-FM 193.7 WF7C 104.7
Seward KSRD 96.9 Sidney KSID-FM 95.3 Superior KRFS-FM 103.9	KPAR-FM 100.3 KOB-FM 93.3 KUNM 90.1	Liverpool WCNY-FM 91.3 Loudonville WVCR-FM 89.1	WFAE 90.9 Clinton WRRZ-FM 107.1 Concord WPEG 97.9
Wayne KWSC 91.9 KTCH-FM 104.9 York KAWL-FM 104.9	Artesia KSVP-FM 92.8 Aztec KWYK 94.9 Carlsbad KBAD-FM 92.1	Manlius WAQX 95,3 Middletown WALL-FM 92.7 Montour Falls : WXXY 104,9	Cullowhee WWCJ 91.7 Davidson WDAV 90.5 Dunn WQTI 103.1 Durham WDCG 105.1
NEVADA Battle Mountain KLME 88.1	Ctovis KTQM-FM 99.9 KKQQ 99.1 Deming KDEM 94.3 Espanola KBSO 102.3	Monticello WSUL 93.5 WVLJ 105.5 Mt. Kiseo WRNW 107. 8 WARY 88.5	WDBS 107.1 WAFR 90.3 Eden WEAF 94.5
Carson City KKBC 97.3 KNIS 94.7 Fallon KVLV-FM 99.3	KRWN 92,9 KQNM 93.7 Farmington KRWN 92.9	WVIP-FM 106.3 Newburgh WFMN 103.6 New Rochelle WRTN 93.5	Edenton WBXB 100.1 Elizabeth City WMYK 93.7 Elkin WIFM-FM 100.9 Elon College WSOE 89.3
Henderson KCNA 94.1 KILA 95.5 KXTZ 94.1	Gallup KOVO 94.5 Hobbs KSCR 95.7 Humble City KYKK 94.1 La Cruces KGRD 103.9	New York WPLJ 95.5 WBAI 99.5 WCBS-FM 101.1 WEVD-FM 97.9	Fairmont WZYZ 100.9 Farmington KRAZ 96.9 Farmville WRQR 94.3
Las Vegas KORK-F.M 97,1 KFMS 101.9 KRUD 90.9 KRGN 101.9	KRWG 90.7 KASK 103.1 Las Vegas KEDP 91.1	WFUV 90.7 WKTU 92.3 WKCR-FM 89.9	Fayetteville WFSS 88.1 WQSM 98.1 Forest City WBBO-FM 93.3
KLUC-FM 98.5 KENO-FM 92.3 KCEP 88.1	KFUN 100.9 Los Alamos KRSN-FM 98.5 Lovington KLEA-FM 101.7 Mesilla Park KOPE 104.9	WBLS 107.5 WNCN 104.3 WNEW-FM 102.7	Franklin WRFR 96.7 Fuquay-Varina WAKS-FM 103.9 Gastonia W7XI 101.9 Goldsboro WEQR 96.9
KUDO 93.1 KNPR 89.5 Reno KNEV 95.5	Portales KENM-FM 95.3 KENW-FM 89.5	WNYU-FM 89.6 WYNY 97.1 WNWS 97.1 WNYC-FM 93.9	Greensbore WPET-FM 98.7 WQFS 90.7
KGLR 195,7 KUNR 88.7 KSRN 104.5 KRNO 106,9	Roswell KBIM-FM 94.9	WNYE 91.5 WXLO 98.7 WPIX-FM 101.9	WQMG 97.1 WUAG 89.9 WNAA 90.5
NEW HAMPSHIRE	KSNM 95.5 Taos KKIT-FM 99.3 KTAS 101.7 Tucumcari KTNM-FM 92.7	WQXR-FM 96.3 WRFM 105.1 WRVR 106.7	Greenville WNCT-FM 107.7 Havelock WKVO-FM 104.9 Henderson WXNC 92.5 Hendersonville WKIT 102.5
Berlin WECM 106.1	Tucumcari KTNM-FM 92.7 University Park KRWG 91.7 Zuni KSHI 90.9	N. Syracuse WEZG, 100.9 Norwich WCHN-FM 93.9	Hickory WHKY-FM 102.9 WXRC 95.7 High Point WHPE-FM 95.5
Claremont WECM 108.1 Concord WKXL-FM 102.3 WSPS 90.3 Conway WBNC-FM 93.5	NEW YORK Afbany WAMC 90.3	Oneonta WMCR-FM 106.3 Oneonta WSRK 103.9 WRHO 89.5	WMFR-FM 99.5 WGLD-FM 100.3 WWIH 90.3 Jacksonville WRCM 92.1
Dever-Portsmouth WOKQ 97.5 Durham WUNH 91.3 Exeter WPEA 90.5 WKXR-FM 107.1	WCDB 90.9 WGNA 107.7	WONT 193.1 WONY 90.9 Osstning WOSS 90.3 Oswego WRVO 89.9	WXQR 105.5 Kannapolls WRKB-FM 99.7 Kinston WRNS 95.1
Hanover WFRD 99.3 Henniker WNEC-FM 91.7 Laconia WLNH-FM 98.3	WHSH 108.5 WROW-FM 95.5 WWOM 100.9	WQHS 101.7 WSGO-FM 105.5 Owego WEBO-FM 101.7	WQDW 97.7 WKNS 90.5 Laurinburg WSTS 96.5
Keene WNBX-FM 103.7 WKNH 89.1 WAnchester WZID 95.7	WBLI-FM 106.1 Alfred WALF 89.7 WETD 91.3 Amsterdam WCSS-FM 97.7	Patchogue WALK-FM 97,5 WBLI, WBLI Inc. 106.1 WPAC-FM 106.1	Lexington WLXN 94.f Lumberton WTSB-FM 95.7 WJSK 102.3 Mars Hill WVMH-FM 90.5
KGIR-FM 101.1 Mount Washington WHOM 94.9 Nashua WOTW-FM 106.3 Newport WCNL-FM 101.7	Attica WBTF 101.7 Auburn WDWN 88.9 WRLX 106.9	Peckskiii WHUD 100.7 Plainview WPOB 88.5	Morehead City WMBL-FM 95.9 Morganton WQXX 92.1 Moyock WJLY 92.1
Peterborough WSLE 92.1 Philippi WQAB 91.3 Plymouth WPCR-FM 90.3	Babylon WBAB-FM 102.3 WHRW 90.5 WAAL 99.1 WSKG-FM 89.3	Port Jervis WDLC-FM 96.7 Potsdam WTSC-FM 91.1 WSNN 99.3	Murfreesboro WWDR-FM 98.3 New Bern WRBK 101.9 North Wilkesboro WKBC-FM 97.3
Portsmouth WHEB-FM 100.1	Baidwinsville WSEN-FM 92.1 WBXL 90.5 Binghamton WQYT 98.1	Poughkeepsie WPDH 101.5	Plymouth WKLX 95.9 Raielah WYYD 96.1
NEW JERSEY Asbury Park WJLK-FM 94.3	Brentwood WCTO 94.3 WXBA 88.5 Briareliff Manor, WRNW 107.1	Rensselear WQBK-FM 103.9 Riverhead WRCN-FM 103.9 Rochester WHFM 98.9	WKNC-FM 88.1 WQDR 94.7 WCPE 89.7 WRAL 01.5 WSH 88.9
Atlantic City WFPG-FM 98.9 WMGM 103.7 WAYV 95.1 Avalon WWOC 94.3	Mt. Kisee Brockfort WBKT 90.5 Brooklyn WKRB 90.9 Brookviile WCWP 88.1	WNWZ 92.5 WMJQ 92.5 WCMF 96.5	WSHA 88.9 Reidsville WWMO 102.1 Roanoke Rapids WPGT 90.1 WPTM 102.3
Blackwood WDBK 91.5	Buffalo WBEN-FM 102,5	WIRQ 90.9 WEZO 101.3	Rockingham WRSH 91.1

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Location	Call MHz	Loçation Ca	II MHz	Location		MHz	Location	Call	MHz	
Rocky Mount	WRSV 92.1 WFMA 100 7 WKRX 96.7	De Graff WDEQ	WSU 88.5 -FM 91.1	Duncan	KWOE-FM KRHD-FM KSEO-FM	106.9 102.3	Charleroi Chester	WESA-FM WDNR WCUC-FM	98.3 89.5	
Roxboro Shallotte Salisbury	WKRX 96.7 WDZD 93.5 WRDX 106.5	Delaware W Delphos WI Dover WJER	SLN 91.1 DOH 107.1 -FM 101.7	Durant Edmond	KSEU-FM KHIB KCFX	91.9 97.7	Clarion Clearfield Danville	WCPA-FM WPGM-FM	91.7 93.5 9 6.7	Ĺ
Sanford	WNDN-FM 91.1	East Liverpool W	ELA 104.3 VIAI 92.9		KCSC KOKF	90.1	DuBois	WCED-FM WDBA	102.1	L
Shelby Southern Pines	WDCC-FM 69.8 WOHS-FM 96.1	Fairfield W	BEA-107.3 L.VV 94.9 IMQ 100.5	Enid Eufaula Goodwell	KNID KCES KPSU	96.9 102.3	Easton	WEST-FM WJRH WQQQ	96.1 90.5 99.9	
Statesville	WIOZ 107.1 WFMX 105.7 WOOO 96.9	Fostoria WFOB	LFC 88.3 -FM 96.7	Henryetta Idabél	KHEN-FM KWDG	99.5 96.7	Fast Stroudsberg Ebensburg	WESS WIYO	90.3 99.1	
Tabor City Tarboro	WKSM 104.9 WKTC 104.3	Fremont WFRO Gahanna W	-FM 99.1 CVO 104.9 QLX 102.3	Langston Lawten	KALU	90.7	Elizabethtown Elwood City, Pa Ephrata	WMSH-FM WFEM WIOV	92.1	
Thomasville Wallace Wanchese	WTNC-FM 98.3 WLSE-FM 94.3 WOBR-FM 95.3	Gallinolis W	YPC 101.5 KCO 81.9	McAlester Miami	KCCO-FM KNED-FM KGLC-FM	9 8.1 101.3 100.9	Erie Erie	WLVU WQLN-FM WCCK	99.9 91.3	
Warrenton Washington Whiteville	WVSP 90.9 WITN-FM 93.3	Georgetown W	URD 97.7 GVO 91.7	Muskegee Norman	KMMM-FM KGOU	106.9	Proceedings.	WERG	89.9	
Whiteville Wilkesboro Williamston	WENC-FM 99.1 WSIF 90.1 WSEC 103.7	Hamilton W W W	LWS 96.5 YCH 103.5 HSS 89.5	Nowata Oklahoma City	KNFB KFJL KEBC	9 4.3 9 8.9 9 4. 7	Franklin Freeland Gettysburg	WVEN WACM WGET-FM	99.3 103.1 107.7	
Wilmington	WPRV 93.9 WAAV 102.7	Hillsboro WSRW Holland WPOS	-FM 106.7 -FM 102.3 ITO 107.1		KATT KZUE	100.5 102.7	Girard	WZBT WGAE	90.3	
	WLOZ 91.3 WMFD-FM 100.9 WHSL 97.3	Jackson W	LMJ 94.7 (CVJ 90.9		KXXY KOFM KFNB	96.1 104.1	Greencastle-Way	nesboro WKSL	94.3	
Wilson	WWIL 97.3 WXYY 106.1	Jefferson VilTwp. W Johnstown W	LMB 88.9 I	•	KAEZ KKNG	107.7 92.5	Greensbur g Greenville	WOKU-FM WGRP-FM	107.1 107.1	1
Winston-Salem	WKZL 107.5 WFDD-FM 88.5 WSEZ 93.1	I WKNT	-FM 89.7 -FM 100.1 KTN 95.3	Okmulgee Pauls Valley	KLLS	97.7	Grove City	WTGP WEDA-FM	88.1 95.1	l
	WTQR 104.1	Kettering WVUD	-FM 99.9 KET 89.5	Polica City Poteau	KLOR-FM KLCO-FM KINB	99.3 98.3 107.3	Harrisburg	WSAJ-FM WHP-FM WMSP	89.5 97.3 94.9	
NORTH	DAKOTA	Lancaster WHOK Lima WIMA	CXL 88.7 -FM 95.5 -FM 102.1	Pryor Sallisaw	KKMA KRBB-FM	9 5. 9	Havertown	WSFM WTPA-FM	99.3 104.1	
Belcourt Bismarck	KEYA 88.5 KYYY 92.9 KQDY 94.5	l	LSR 104.9 TGN 97.7	Sapulpa Seminole Shawnee	KXOJ-FM KSLE KBGC KOSU-FM	100.9 105.5 8 9. 9	Hazieton . Hershey	WHHS WVCD WITF-FM	89.3 97.9 89.5	
Devils Lake Fargo	KDLK-FM 96.7	i Logan W.L.G.N	-FM 98.3 SYX 106.3 ZLE 104.9	Stillwater	KSPI-FM	93.9 1	Hollidaysburg Huntingdon	WHPA WKVR-FM WRLR	104.9	
,	₩DAY-FM 93.7 ƘDSU 91.9	l Mansfield W	VNO 106.1 -FM 105.3 CMO 89.3	Tahleguah Tonkawa	KVRO KEOK KAYE-FM	105.5 101.7 90.5	Huntington Indiana	WRLR WQMU WIUP-FM	106.3 103.1	
Grand Forks	KYTN 94.7 KKDQ 92.9 KFJM-FM 89.3	ı w	MRT 88.3 I	Tulsa	KBEZ	92.9 96.5	Jenkintown Johnstown	WQMU WIUP-FM WIBF-FM WJAC-FN	103.9 1 95. 5	
Jamestown Mandan	KSJM 933 KNDR 104.9	WMOA Marion WMRN W	/DIF 94.3 I		KRAV KWEN KMOD KCFO	95.5 97.5 98.5	Laneaster	WFMM WFNM	92.1 96.5 88.7	İ
Mayville Minot	KMAV-FM 101.7 KCJB-FM 97.1 KMOT-FM 93.7	l Miamishuro V	DBN 94.9 /FCJ 93.7 /RSF 89.9		KTFX KWGS	103.3 89.5		WNCE	101.3 94.5	
OI	ню	Middlepert WMPO Middletown W	-FM 92.1 PBF 105.9	Weatherford Woodward	KWEY-FM KSIW-FM	97.3 93.5	Lebanon	WLAN-FM WPTG WUFM	90.3	İ
Akron	WAEZ 97.5 WAPS 89.1	Milford-Mariemont W Morrow W Mt. Verlion WMVO	LYK 107.1 LMH 88.1 -FM 93.7	OR	EGON		Lehman Lewisburg	WPSI WVBU-FM WMRF-FM	89.1 9 0.5	
	WAUP 88.1 WKDD 96.5	Napolean Wi Newark WCLT	NO H 103.1	Albany	KHPE KRKT-FM	107.9 99.9	Lewistown Lincoln Univers Linesville	WMRF-FM WVCC WBPZ-FM	95.9 88.7 101.7	
Alflance Archbold	WFAH-FM 92.5 WRMU 91.1 WHFD 95.9	I⊢ New Concord W	NKO 101.7 MCO 90.7 WJM 106.3	Ashland Bend	KSOR KICE	90.1 1 00.7	Lock Haven Mansfield	WNTE	89.5	
Ashland	WNCO-FM 101.3 WRDL 89.5	New Philadelphia W Norwalk WLKR	NPQ 95.9 -FM 95.3	Brookings Central Point	KÜRY-FM Kury-FM Kchc	917 1	Martinsburg Mc Kean Meadville	WJSM-FM WMDI WARC WZPR	92.7 102.3 90.3	
Ashtabula Athens	WREU-FM 97.1 WQUB-FM 91.3	Ottawa W	PNM 106.3	Corvallis	KFLY-FM KBVR KLOO-FM	90.1 106.1	Mercer	WZPR WWIZ WRCV	100.3 103.9	ł
Bainbridge Batavla	WXTQ 105.5 WKHR 88.3 WCNE 88.7	Pigua WPTW	OXY 977 -FM 95.7	Coquille Eagle Point	KWRO-FM KEPO	89.1	Mercersburg Mifflinburg Millersville	WIXQ	98.3 91.7	
Bellaire Bellefontaine	WOMP-FM 100.5 WBHR 88.7 WTOO-FM 98.3	Port Clinton WRWR Portsmouth WPAY WNXT	-FM 99.3 I	Eugene	KRVM KSND KFMY	91.9 93.1 97.9	Milton Montrose	WMLP WPEL-FM WMJW	9 6.5	
Bellevue Berea	WNRR 92.1 WBWC 88.3	Reading W Salem WSOM Sandusky WLEC	/RCI 89.3		K LCC K P N W - F M	90.3 99.1	Nanticoke New Kensington New Wilmington	WNUF WKPS	92.1 100.7 88.9	l
Bowling Green Bryan	WK1Q 93.5 WBGU 88.1 WBNO-FM 100.9	I SICHEV WMVR	-FM 105.5 -FM 102.9 EEC 100.7		KWAX KBMC KZEL-FM	91.1 94.5 96.1	Norristown North East	WVVE WHYP.FM WDJR	91.7 102.3 98.5	1
Bucyrus Cambridge	WBCO-FM 92.7 WILE-FM 96.7	ì W	EEC 100.7 USO 89.1 STB 91.5	Grants Pass	K GPO KTEC	96.9 88.1	Oil City Palmyra	WRJS	98.5 92.1	Į.
Canal Fulton Canton	WNWR 90.9 WHBC-FM 94.1 WHLQ 106.9	Steubenville W	RKY 103.5 KTL 90.7	Gresham Klamath Falls	KMHD KAGM KISN	98.5	Philadelphia	WCAU-FM WDAS-FM WSNI	98.1 105.3	
Castalla	WTOF 98.1 WGGN 97.7	Sylvania W Tiffin WTTF	XEZ 105.5 -FM 103.7	La Grande	KUSN KEOL Klbm-fm	89.3		W I O Q W D V R	102.1 101.1	
Cedarville Celina	WCDR-FM 90.1 WKK! 94.3 WCSM-FM 96.7	Teledo WSPO	HEI 88.9 -FM 101.5 AMP 88.3	Lake Oswego Lebanon McMinneville	KMJK KOMS KSLC	103.7		WFLN-FM WUHY WIFI	9 5.7 90 9 92.5	İ
Centerville Chillicothe	WCWT-FM 89.5 WBEX-FM 93.3	WGTE W	-FM 91.3 10T 104.7	Meditord	KSLC KBOY-FM KTMT KQIV	95.3 93.7		WMMR	03.3	l
Cincinnati	WCLL 94.3	l W	LQR 101.5	Milwaukee Newport Ontario	KNPT-FM KXBQ-FM	102.5		WMGK WYSP WPWT WRTI	94.1 91.7 90.1	
O'morninaci	WUBE 105.1 WEBN 102.7	l - u	JCR 88.9 'UJC 88.7 -FM 95.9	Pendleton	KRBM KTAS	90.9 107.7		WKDU	98.9 91.7	
	WAKW 93.3 WGUC 90.9 WKRQ 101.9	Upper Sandusky WYAN Urbana WCOM	JHS 91.7	Portland	KB00 KINK KJIB	101.9		WWDB WWSH WXPN	98.5 106.1 88.9	ŀ
	WSAI-FM 94.1	I Washington Court House	RM 92.1		KGON KOAP-FM KYTE-FM	92.3	Pittsburgh —	KDKA-FM WRCT	92.9 88.3	
	WNSD 90.1 WWEZ 92.5 WNRE-FM 107.1	Waverly WCHO	FM 105.5 'IBO 100.9 -FM 96.7		KTIE-FM KPDQ KPAM-FM	93.7 97.1		WAMO WDVE WEEP-EM	102.5	
	WAIF 88.3 WJVS 88.3	I West Carrollton W	ORP 88.1		KUPL KOFM KRRC	. 68.5		WEEP-FM WXKX WDUQ	90.5	
Cleveland	WCLV 95.5	Westerville W	LHS 89.9 DBN 91.5 BBY 103.9	Roseburg	KXL-FM KRSB	9 5. 5		WSHH WIO! WPIT-FM	93.7	l
	WCSB 89.3 WDOK 102.1 WQAL 104.1 WGCL 98.5	Wilberforee WCSU Wilmington WKFI Wooster WWST	BBY 103.9 FM 88.9 -FM 102.3 -FM 104.5	Salem The Dalles	KSKD	105.1 10 4.5		WPIT-FM WQED-FM WPEZ	89.3 94.5	
	W W W 1110./	Worthington-Columbus	WS 91.9	PENN	SYLVANIA	,	Pottsville	WPEZ WYDD WYEP-FM WAVT-FM	91.5 101.9	l
	WMMS 100.7 WKSW 99.5	Xenia W	NCI 97.9 DJX 103.9 BZI 95.3	Allentown	WFMZ WMUH		Punxsutawney Reading	WPME-FM WRFY-FM	105.5	
	WDMT 107.9 WRUW-FM 91.1 WZZP 106.5	Yellow Springs W Youngstown WKBN	YSO 91.5 -FM 98.9	Altoona	WMUH WXKW WVAM-FM WFBG-FM	/ (04.1	Red Lion Ridgway	WXAC WGCB-FM WTMX	94.3	-
Cleveland Height	WZAK 93.1 8 WLYT 92.3	l W	QOD 93.3 SRD 101.1 YSU 88.5	Beaver Falls	WWKS WGEV	106.7 88.3	Scottsdale Scranton	WLSW	103.9	
Columbus	WCBE 90.5 WFAC 91.5 WBNS-FM 97.1	Zanesvilje WHIZ	-FM 102.5	Bedford Bellwood	WAKM WHGM	100.9 103.9		WEZX WVIA-FM WVMW-FM WWDL-FM	89.9 91.5	
	WLVQ 96.3 WCOL-FM 92.3	OKLAHOM	A	Bethlehem	WLVR-FM WHIM-FM	95.1 91.3	Seilngsgrove	WWDL-FM WQSU	104.9 88.9	
,		Ada KTEN Altus KWHW	.FM 93.5	Bloomsburg Beyertown Braddock	WBY0 WFFM	107.5 1 96.9	Shamokin Sharon Sharpsville	WQSU WISL-FM WYFM WFAR-FM	9 5.3 10 2.9 95.9	
Coshocton	WFIZ 105.5 WTNS-FM 99.3	Ardmore K	KAJ 95.7 RRO 92.1	Butler California	WBUT-FM WVCS	97.7 91.9	Shippensburg Somerset	WSYC-FM WVSC-FM	88.7	
Dayton	WHIO-FM 99.1 WDPS 90.1 WGXM 88.1 WTUE 104.7	Bristow K	YFM 100.1 (JIL 104.9 REK 104.9	Canton Carhondale Carlisle	WKAD WCDL-FM WHYL-FM	102.3	South Williamsport Starview	WRHY	92.7	
	WTUE 104.7 WDAO 107.7 WSMR 89.3	Broken Arrow Ki	GOW 92.1 XK 105.5 CLI 95.3	Central City	WDCV-FM WCCS	88.3 101.7 2 95.1	State College	WMAJ-FM WDFM	103.1 91.1	
	WOM N 89.3	! Clinton K	OLI 80.0 '	Chambersburg	WIKZ	. 33,1	` Communicati	WQWK		07

		U.S. FINI STATION	NS BY LOCATION
Location Call MHz	Location Call MHz	Location Call MHz	Location Call MHz
State College-Bellefonte WTLR 89.9	Śioux Falls KAUR 89.1 KELO-FM 92.5	KFMN 99.3	KRLY 93.7
Stroudsburg WVPO-FM 93.5 Sunbury WQKX 94.1	KELO-FM 92.5 KCFS 90.1 KCHF-FM 93.5	KORQ 100.7 Alice KBIC 102.3 KWKC-FM 105.1	KTRU 91.7 Huntsville KSAM-FM 101.7 KSHU 89.3
Swarthmore WSRN 91.5	KNWC-FM 96.5 KPAT 97.3	KXMS 92.1 Alvin KACC 91.3	Jacksonville KOOI 106.5 Jasner KTX1-FM 102.3
Telford WBMR 89.7 Towanda WTTC-FM 95.3	KIOV 104.7 Spearfish KBHU-FM 89.1 Springfield KSTI-FM 88.5	Amarilio KACV-FM 89.9 KQIZ-FM 93.1	Keene KSUC 88.3
Tyrone WGMR 101.1 Union City WCTL 106.3	Springfield KSTI-FM 88.5 Sturgis KRCS 93.1 Vermillion KUSD-FM 89.9	KZIP 98.7 KGNC-FM 97.9	Kileen KIXS-FM 93.3 KNCT-FM 91.3 Kilgore KKTX 95.9
Warminster WCSD-FM 89.9 Warren WRRN 92.3	KVRF 102.3 Watertown KDLO-FM 96,9	KWAS 101.9 KBUY 94.1 KFRN 98.7	Kilgore KKTX 95.9 Kingsville KPUP 97.7 KTA1 91.9
Washington WJPA-FM 95.3 WJCR 88.3	KWAT-FM 96.1	Andrews KACT-FM 105.5 Ariington KWJS 94.9	La Grange KMUZ 104.9
Waynesburg WANB-FM 90.7 WAYZ-FM 101.5	Winner KWYR-FM 93.7 Yankton KQHU 104.1	Atlanta KPYN 99.3 Austin KHFI-FM 98.3	Lamesa KCOT 104.7 Lampasas KLTD 99.3
Wellsboro WGCR 97.7 West Chester WLHS-FM 89.9 Wilkes-Barre WBRE-FM 98.5	TENNESSEE	KASE 100.7 KMFA 89.5 KOKE-FM 95.8	Laredo KOYE 92.7 Livingston KETX-FM 92.1 Longview KYKX 105.7
WCLH 90.7 WRKC 88.5	Bolivar WVST 96.7 Bristol WFHG-FM 96.9	KLBJ-FM 93.7 KAZI 88.7	Lubbock KSEL-FM 93.7 KTEZ 101.1
WYZZ 92.9 Williamsport WILQ-FM 105.1	Brownsville WTBG 95.3 Camden WRJB 98.3	KUT-FM 90.7 KMXX 102.3	1 KLLL-FM 96.3 🛍
WRLC 91.7 WRAK 102.7 York WQXA 105.7	Garthage WRKM-FM 102.3 Centerville WIKA 96.7	Ballinger KCWB 103.1 Beaumont KAYD 97.5	KLSD 91.1 KTXT-FM 91.9 Lufkin KDEY 99.3
WVYC 88.1 WSBA-FM 103.3	Chattanooga WDOD-FM 96.5 WDYN 89.7 WMBW 88.9	KQXY 94.1 KALD 95./1 KVLU 91.3	KLUF-FM 105.1 Marlin KLMT 96.7
York-Hanover WYCR 98.5	WSKZ 106.5 WDEF-FM 92.3	KWIC 107.7 Beeville KJDF 104.9	Marshall KBWC 91.1
RHODE ISLAND	Cleveland WQLS 100.7 Clinton WYSH-FM 104.9	Belton KTON-FM 106.3	McAllen KQXX 98.5 KVMV-FM 96.9 McKinney KAWB 95.3
Kingston WRIU 88.5 Middletown WOTB 107.1	Collegedale WSMC 90.7 Columbia WKOM 101.7	Big Spring KFNE 95.3 Borger KBBB-FM 104.3 Brady KIXV 95.3	McKinney KAWB 95.3 Mldland KNFM 92.3 KWMJ 103.3
Portsmouth WJHD 90,7 Providence WPJB-FM 105.1 WBRU 95.5	Cookeville WHUB-FM 98.3 WPTN-FM 94.3 WTTU 88.8	Brenham KWHI-FM 106.3 Brownsville KDUV 100.3	KBAT 93:3 Mineola KMOO-FM 96.7
WD0M 91.3 WHJY 94.1	Covington WKBL-FM 93.5 Crossville WCSV-FM 99.3	KRIX 99.5 Brownwood KLSN 99.3	Mineral Wells KMWT 95.9 Mount Pleasant KPXI 100.7
WLKW-FM 101.5 WPRO-FM 92.3	Dayton WNFM 104.9 Dickson WTNQ 102.3	KOXE 101.5	Muleshoe KMUL-FM 103.1 Nacogdoches KTBC 92.1 KSAU 90.1
Smithfield WJMF 91,5 Westerly WERI-FM 103,7 Woonsocket WWON-FM 106,3	Dyersburg WASL 101.1 Elizabethton WIDD-FM 99.3	Bryan KORA-FM 98.3	New Boston , KNBO 95.9
	Etowah WMCC 103.3 Fayetteville WYTM-FM 105.5 Franklin WIZO-FM 100.1	Burnet KHLB-FM 107.1 Canyon KWTS 91.1 Center KLCR 102.3	New Braunfels KNBT 92.1
SOUTH CAROLINA	Gallatin WVCP 88.3 WWKK 194.5	Clear Lake City KMJQ 102.1 Cleburne KFAD 94.9	KQIP 96.9 KOCV 91.3 KOYL-FM 97.9
Alken WLOW-FM 95.9 WAKN-FM 99.3	Germantown WEEF 94.3 Greeneville WOFM 94.9	Coleman KSTA-FM 107.1 Callege Station KAMU-FM 90.3	KOYL-FM 97.9 Orange KZOM 104.5 KIOC 106.1
Anderson WAIM-FM 101.1 WANS-FM 107.3 Bamberg WWBD-FM 92.7	Henderson WFHC-FM 91.5 Hendersonville WBYQ 92.1	Columbus KULM 98.3 Commerce KETR 88.9 Conroe KMCV 106.9	Ozona KRCT 94:3 Palestine KLIS 94.3
Barnwell WBAW-FM 101.7 Batesburg WBLR-FM 92.1	Humboldt W1RJ-FM 102.3 Huntingdon WPVG 100.9 Jackson WKIR 104.1	Conroe KMCV 106.9 Copperas Cove KGOV 103.1 Corpus Christl KZFM 95.5	KHIM 98.3 Paris KACW 99.3
Beaufort WBEU-FM 98.7 WERV 89.9	Jamestown WDEB-FM 100.1 Jefferson City WSBM 99.3	K10U 96.5 KEXX-FM 93.9	Pasadena KYND 92.5 Plains KPLN-FM 90.7 Plainview KATX 97.3
Camden WPUB-FM 94.3 Cayce WZLD 96.7 Charleston WXTC 96.9	Johnson City WQUT 101.5 WETS 89.5	Corsicana KCIR 107.9 Crockett KIVY-FM 92.7	KWLD 91.5 Pleasanton KBOP-FM 98.3
WEZL 103.5 WSCI 89.3	Kingsport WKPT-FM 98.5 Knoxville WBIR-FM 103.5 WEZK 97.5	Dalhart KXIT-FM 95.9 Dallas KKDA-FM 104.5 KCCD 102.9	Port Arthur KYKR-FM 93:3 KHYS 98.5
WPX1 95.1 Chester WCMJ 99.3	WIVK-FM 107.7 WKCS 91.1 WUOT 91.9	KCBI 89.3 KNUS 98.7 KOAX 105.3	Port Lavaca KGUL-FM 95.9 Prairie View KPVU 91.3 Robstown KROB-FM 99.9
Clemson WSBF-FM 89.3 Columbia WCOS-FM 97.9 WNOK-FM 104.7	l Lawrencebure WDXF+FM 95.9	KAFM 94.5	Rosenhera KERD-FM 104.9
WMHK 89.7 WUSC-FM 91.9	Lebanon WFMO 91.3 WLCH 88.7 WFMQ 88.9	WFAA-FM 97.9 WRR-FM 101.1 KVTT 91.7	KIXY-FM 94.7 KSJT 97.5
WBCT 90.5 WUSC-FM 89,9	WCDR-FM 107.3 Lenoir City WLIL-FM 93.5	KMEZ 100.3 KDTX 102,9	San Antonio KISS 99.5 KZZY 100.3 WOAI-FM 97.3
WXRY-FM 93.5 WLTR 91.3 Conway WLAT-FM 104.1	Lexington WDXL-FM 99.3	KZAG 90.1 KRSM 89.3 KERA-FM 90.1	KITE-FM 104.5 KITY 92.9
Darlington WDAR-FM 105.5 Dillon WDSC-FM 92.9	Livingston WLIV-FM 95.9 Lobelville WTHJ 94.3 Manchester WMSR-FM 99.7	KCHU 90.9 Del Rio KDLK-FM 94.3	KMFM 96.1 KRTU 91.5
Due West WARP 91.7 Easley WELP-FM 103.9 Florence WSTN 103.1	Martin WCMT-FM 101.7 WUTM 90.3	Denison-Sherman KDSQ 101.7 KGCC 89.7	KQXT 101.9 KSYM-FM 90.3 KTFM 102.7
Florence WSTN 103.1 Gaffney WAGI-FM 105.3 Georgetown WGMB 97.7	McKenzle WKTA 106,9 McMinnville WHNR 103,9 Memphis WHRK 97.1	Denton KDNT-FM 106.1 KNTU 88.5 DiBoll KSPL-FM 95.8	San Marcos KSCW 103.7 Seguin KWEO-FM 105.3
	WMC-FM 99.7 WCBC 91.1	Dumas KMRE 95.3 Eagle Pass KINL 92.7	Sherman KIKM-FM 96.7 Sinton KNCN 191.3
WESC-FM 92.5 WFBC-FM 93.7	WEVL 90.3	I KESI 107.9	Sinton-Corpus Christi KOUL 103.3 Slaton KJAK 92.7
Greenville WEPR 90.1 WESC-FM 92.5 WFBC-FM 93.7 WMUU-FM 94.5 Greenwood WCRS-FM 96.7 Hampton WJBW-FM 103.1	WSWM 91.7 WLYX 89.3 WMPQJ≠M 07 1	LI Paso KTEP 88.5 KLAQ 95.5	Sonora KVRN-FM 92.1 Spearman KRDF-FM 98.3
Honea Path WRIX-FM (03.1	WQOX 88.5 WZXR 102.7	KEZB 96.3 KINT-FM 97.5	Stephenville KWWM 98.3
Kingstree WWKT-FM 100.1	WQUD 104.5 WKNO-FM 91.1	KLOZ 102.1 KSET-FM 94.7 KFIM 02.2	Sweetwater KXOX-FM 96.7 Temple KPLE 104.9 Terrell Hills KBUC 106.3
Laurens WGXL 100.5 Manning WTME 92.1	WEZI 105.9 WSWM 91.7 WLYX 89.3 WMPS-FM 97.1 WQOX 88.5 WZXR 102.7 WQUD 104.5 WKNO-FM 91.1 KWAM-FM 101.1 MIIan WKBJ-FM 92.3 Morristown WEJ-FM 92.3 Murfreesbore WATS-FM 98.3	KAMA-FM 93.1 KPAS 93.9	I Tvier KZAK-FM 98.1
Marion WATP-FM 94.3 Moncks Corner WTWF 105.5	WMOT 89.5	KTSM-FM 99,9 Fabens KLMF-FM 103.1	KROZ 92.1 KNUE 101.5 Uvalde KYUF 95.3
Mullins WCIG 107.1	Nashville WZEZ 92.9 WKDF 103.3		Vernon KVWC-FM 102.3 Victoria KTXN-FM 98.7
WKZQ 101.7 N. Myrtle Beach WNMB 105.5 N. Charleston WKTM 102.5	WKQB 105.9 WKDA-FM 103.3 WPLN 90.3	KESS 93.9	Waco , KOWM 95.1
Orangeburg WPJS 106.7 WORG-FM 103.9	WNAZ-FM 88.9 WRVII 91 (KTXQ 102.1 KNOK-FM 107.5	i KWBU 107.1 🖀
Pageland WCPL 102.3 Rock Hill WVPR 88.9	WXEX 92.9 WSIX-FM 97.9	KrJZ-rm 9/.i	Wichita Falls KLUR 99.9 KNTO 103.3
St. George WPWR 95.9 Seneca WBFM 98.1 Spartanburg WSPA-FM 98.9 Summerville WWWZ 93.5	Dak Ridge WATO-FM 94.3		KB(D 92.9
Summerville WWWZ 93.5 Sumter WFIG-FM 101.3 WMPR 88.1	Olive Hill WOKI-FM 100.3 Olive Hill WDNX 89.1 Oneida WBNT-FM 105.5 Paris WTPR-FM 105.5 Pulaski WMGL 88.3	Gatesville KMCS 98.3 Georgetown KGTN-FM 96.7	Brigham City KBUH-FM 107.1
Surfside Beach-Garden City	Oneida WBNT-FM 105.5 Paris WTPR-FM 105.5 Pulseki WMCI 98.3	Graham KWKQ 107.1 Greenville KIKT 93.5 Harlingen KELT 94.5	KSUB-FM 94.9
WYAK-FM 103.1 Walterboro WALD-FM 100.9 West Columbia WSCQ 100.1	Pulaski WMGL 98.3 Red Bank WSIM 94.3 Sayannah WORM-FM 101.7 Sevierville WSEV-FM 102.1	Henderson KGRI-FM 100 I	Centerville KCGL 105.5 Ephraim KEPH 89.5 Gunnison KGVH 91.7
	Sevierville WSEV-FM 102.1 Sewanse WUTS-FM 91.5 Shelbyville WTCV 93.1	Hereford KPAN-FM 106.3 Highland Park-Dallas	Logan KBLW-FM 92.9 KUSU-FM 91.5
SOUTH DAKOTA Aberdeen KASD 90.1	Smithville WJLE-FM 101.7	KVIL-FM 103.7 Hillsboro KHBR-FM 102.5 Hauston KHCB-FM 105.7	KJKJ 94.5 Mantl KSME 90.7 Mt. Pleasant KMTP 91.1 Ogden KQPD 101.9
KQAA 94.9 KSDN-FM 94.1	Springfield WDBL-FM 94.3	KAUM 96.5 KAUM 96.5 KIKK-FM 95.7 KILT-FM 100.3 KFMK 97.9 KLOL-FM 101.1 KODA-FM 99.1	Ogden KQPD 101.9 KDAB 101.1
Brookings KBRK-FM 94.3	L Sweetwater WDEH•FM 95.3	KILT-FM 100.3 KFMK 97.9	KDAB 101.1 KWCR-FM 88.1 KVFM 95.5 Orem KOHS 90.1
Madison KJAM-FM 103.1 Mitchell KMIT 102.3	Tullahoma WBGY-FM 93.3 Union City WALR-FM 104.9 Waverly WVRY 104.1	KLOL-FM 101.1 KODA-FM 99.1 KPFT 90.1	· KORM 107.1 Parowan KPWN 90.9
Mitchell KMIT 102.3 Mobridge KOLY-FM 99.5 Rapid City KGGG-FM 100.3 KVSR 97.9	TEXAS	KLEF 94.5	Price KPGR 88.1 Price - KARB 98.3
KVSR 97.9 KKHJ 93.9 KTEQ 88.1	Abilene KEAN-FM 105.1	KRBE 104.1 KTSU 90.9 KUHF 88.7	Provo KBYU-FM 88.9 KAYK-FM 100.3 KRMQ 94.9
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Location				. '			
	Call MHz	Location	Call MHz	Location	Call MHz	Location	Call MHz
Richfield	KJMC 93.7 Kuhs 90.9	Salem South Boston	WJLM 93.5 WJLC-FM 97.5		WPDX-FM 104.9 WVHF-FM 92.7	Bostone	WSWW-FM 99.3 WPDR-FM 100.1
Roosevelt St. Geor ge	KZEZ 93.5 KRDC-FM 90.1	South Hill Staunten	WSHV 105.5 WSGM 93.5	Elkins Fairmont	WCDE 90.3 WWFC 90.9	Portage Port Washingto	WGLB-FM 100.1
Salt Lake City	y KCPX-FM 98.7 KALL 94.1	Suffelk-Nerfelk Tappahannock	WFOG 92.9 WRAR-FM 105.5		WFGM 97.9 WFGH 90.7	Prairie du Chle	WPRE-FM 94.3
	KRSP-FM 103.5 KSF1 100.3	Tasiey Tazeweli	WESR-FM 103.3 WTZE-FM 100.1	Fort Gay Huntington	WEMM 107.9 WMUL 88.1	Racine	WRKR-FM 100.7 WFNY 92.1
1	KSOP-FM 104.3 KUER 90.1	Warrenton	WEER-FM 107.7 WQRA 94.3	i	WHEZ 103.3 WKEE-FM 100.5	Reedsburg Rhinelander	WRDB-FM 104.9 WRHN 107.9
	KWHO-FM 93.3 KLUB-FM 97.1	Warsaw Williamsburg	WNNT-FM 100.9 WBCI 96.5	Keyser	WHPW 89.3 WKLP-FM 94.1	Rice Lake Richland Center	WJMC-FM 96.3 WRCO-FM 100.9
Spanish Fork Vernal	KONI-FM 106.3 KUIB 89.1		WCWM 89.1 WMBG 96.5	Logan Martinsburg	WVOW-FM 101.9 WEPM-FM 97.5	Ripon	WCWC-FM 95.9 WRPN 90.1
VED	KVEL-FM 92.7	Winchester	WRFL 92.5 WEFG 102.5	Morgantown	WAJR-FM 101.9 WCLG-FM 100.1 ille WKG1 103.9	River Falls Sauk City	WEVR-FM 106,3 WRFW 88.7 WVLR 96.7
VER	MONT	Woodbridge Yorktown	WXRA 105.9 WYCS 91.5 WYVA-FM 94.1	New Martinsvi Oak Hill Parkersburg	WOAY-FM 94.1 WQAW 103.1	Shawano Sheboygan	WTCH-FM (00.1 WWJR 97.7
Barre Bennington	WORK 107.1 WHGC 94.3	\		_	WIBZ 99.3 WXIL 95 I	Shell Lake	WSHS 91.7 WGMO 95.3
Brattleboro	WKVI-FM 92.7 WTSA-FM 96.7		INGTON	Pennington G: Philippi	ap WSWV-FM 105.5 WQAB 91.3	Sparta Stevens Point	WCOW-FM 97.1 WSPT 92.9
Buriington	WQCR 98.9 WRUV 90.1 WEZF 92.9	Aberdeen Auburn	KDUX-FM 104.7 KGRG 88.9	Princetor. Rainelle	WAEY-FM 98.9 WRRL-FM 96.7		WSUS 89.9 WWSP 89.9
Castleton Colchester	WIUV 91.3 WWPV-FM 88.7	Bellevue	KZAM-FM 92.5 KASB 89.3	Romney St. Albans	WJGF 91.5 WKLC-FM 105.1	Sturgeon Bay Sun Prairie	WDOR-FM 95.9 WYXE 92.1
East Montpelle		Bellingham	KBCS 91.3 KVGM 92.9 KISM 92.9	Salem Shepherdstown	WITB-FM 91.1 WSHC 88.7	Superior Suring	WSSU 91.3 WRVM 102.7
Lyndonville Middlebury	WWLR 91.7 WRMC-FM 91.7		KISM 92.9 Kugs 89.3 Keri 104.3	Weich Weston	WKJC 106.3 WSSN 102.3	Tomah Two Rivers	WTMB-FM 98,9 WQTC-FM 102.3
Montpelier	WCVM 100.9 WNCS 96.7	Bremerton Centratia	KBRO-FM 106.9 KELA-FM 102.9	Wheeling	WKWK-FM 97.3 WCPI 98.7 WTRF 107.5	Viroqua Watertown Waukesha	WGBM 102.3 WTTN-FM 94.1 WCCX 88.1
Northfield Plainfield	WNUB-FM 89.1 WGDR 91.1	Chenev	KCED 91.3	Williamson	WPHP 91.9 WXCC 96.5	Waupaca	WM1L 106.1 WDUX-FM 92.7
Putney Randelph Cente	WVUS 88.9 er. WVTC 90.7	College Place	KGLK-FM 94.1 KGTS 91,3	1		Waupun Wausau	WLKE-FM 99.3 WDEZ 101.9
Rutland	WHWB-FM 98.1 WRUT 97.1 WWSR-FM 102.3	Edmonds Ellensburg	KB1Q 105.3 KXLE-FM 95.8		CONSIN		WHRM 91.9 WIFC 95.5
St. Albans Springfield	WCFR-FM 93.5 WMTF 91.5	Hoquiam Kennewick	KGHO-FM 103.9 KONA-FM 105.3	Antige Appleton	WRLO-FM 104.9 WLFM 91.1	Wauwatosa West Bend	WEZW 103.7 WBKV-FM 92.5
Stowe White River Ju	WRFB 101.7	Longview Lynden	KLYK 105.5 KLYN-FM 106.5 KM1H 90.1	Ashland	WCXR-FM 105.7 WATW-FM 95.9	Whitewater Wisconsin Dell	WSUW 91.7 8 WNNO-FM 107.1
Windsor	WNHV-FM 95.7 WVPR 89.5	Mercer Island Moses Lake Mount Vernon Neah Bay	KWIQ-FM 100.3 KSVR 90.1	Baraboo Beaver Dam	WLVE 94.9 WXRO 95.3 WBCR-FM 88.1	Wise, Rapids	WWRW 103.3
	GINIA	Neah Bay Newport	KRNB-FM 91.1 KUBS 90.5	Beloit Berlin Brule	WBCR-FM 88.1 WISS 102.3 WHSA 89.9	WYC	DMING
		Ocean Shores Olympia	KDUX-FM 104.7	Burlington Chilton	WBSD 89.1 WPNE-FM 89.3	^Casper Cheyenne	KAWY 94.5 KLEN 106.3
Abingdon Altavista	WBBI-FM 92.7 WKDE-FM 105.5	Omak Opportunity	KOMW-FM 92.7 KZUN-FM 96.1	Chippewa Fall Colfax	is WCFW 105.5 WHWC 88.3	Cody	KFBC-FM 97.9 KYDZ 90.1
Appemattex Arlington	WTTX 107.1 WAVA 105.1 WIVE-FM 100.1	Pasco Prosser	KOLU 90.1 KACA 101.7	Delafield Dodgeville	WHAD 90.7	Ethete Gillette	KOLL-FM 93.5 1
Ashland Big Stone Gap Blacksburg	WLSD-FM 93.5 WVVV 104.9	Providence Pullman	WPJB-FM 105.1 KQQQ 104.9 KORD-FM 102.7	Durand Eagle River	WRDN-FM 95.9 WERL-FM 94.3 WIAL 94.1	Jackson Lander	KMTN 96.9 KDLY 97.5
Blackstone	WUVT-FM 90.7 WBBC 93.5	Richland	KORD-FM 102.7 KXDD 106.3 KXDD 106.3	Eau Claire	WAXX 104.5	Laramie Riverton	KUWR 91.9 KIOZ 102.9 KCWC 88.1
Charlottesville	WQMC 95.3 WWWV 97.5	Seattle	KING-FM 98.1 KEZX 98.9	Ford do Los	WBIZ 100.7 WUEC 89.7 WFON 107.1	Rock Springs	KTAK 93.5 KQSW 96.5
Chesapeake	WTJU 91.3 WFOS 90.5		KCMÚ 90.5 KBLE-FM 93.3	Fond du Lac Fort Atkinson Green Bay		Sheridan .	KROE 94.9 KLWD 96.5
Chester Covington	WDYL 92.1 WIQO-FM 100.9		KVI-FM 101.5 KSEA 100.7	Given Bay	WGBP-FM 90.1 WGBW 91.5	Torrington	KERM 98.3
Crewe Culpeper	WSVS-FM 104.7 WCUL 103.1		KYYX 96.5	Hartford	WDUZ-FM 98.3 WTKM∙FM 104.9	G	UAM
Danville Exmore Farmville	WAKG 103.8 WEXM-FM 107.5	ļ	KMPS-FM 94.1	Hayward Highland	WRLS 92.1 WHHI 91.3	Agana	KUAM-FM 93.9
Front Royal Fredericksburg	WFLO-FM 95.7 WFFV 09.3 WFVA-FM 101.5	1,	KRAB 107.7 KTW-FM 102.5 KUOW 94.9	Holmen Janesville	WHLA 90.3 WJVL 99.9		KSTO 95.5
Galax	WFLS-FM 93.3 WBOB-FM 98.1		KIXI-FM 95.7 KZOK-FM 102.5	Kaukauna Kenosha	WKAU-FM 104.9 WLIP-FM 95.1 WGTD 91.1	PUERT	O RICO
Gate City Gretna	WGAT-FM 104.9 WMNA-FM 103.3	Spokane	KREM-FM 92.9 KMBI-FM 107.9	Kewaunee	WAUN 92.7	Arecibo	
Grundy Hampden-Sydn	WNRG-FM 97.7		KDNC-FM 93.7		WLSU 88.9		WCMN-FM 107.3
Hampton	WWHS-FM 91.7		KEZE-FM 105.7	La Grosse	WLSU 88.9 W8PL 95.9 W1ZM 93.3	Aguada	WCMN-FM 107.3 WNIK-FM 106.5 WRFE 105.5
	WWDE-FM 101.3		KEZE-FM 105.7 KICN 98.9 KSFC 91.1	Ladysmith	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9	Aguadilla	WNIK-FM 106.5 • WRFE 105.5 WIVA-FM 100.3 WTPM 92.9
Harrisónburg	WWDE-FM 101.3 WHOV 88.3 WEMC 91.7		KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KXLY-FM 99.9 KHO-FM 98.1		WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WERN/88.7 WIBA-FM 101.5	Aguada Aguadilla Bayamon	WNIK-FM 106.5 • WRFE 105.5 WIVA-FM 100.3 WTPM 92.9 WRSJ-FM 100.7 WEYA 94.7
	WWDE-FM 101.3 WHOV 88.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WKW1 101.7	Sunnyside	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KXLY-FM 99.9 KHO-FM 98.1 KWRS 90.3 KREW-FM 96.7	Ladysmith	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WERN 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 98.1	Aguadilla Bayamon Çaguas	WNIK-FM 106.5 · WRFE 105.5 WIVA-FM 100.3 WTPM 92.9 WRSJ-FM 100.7 WEYA 94.7 WXYX 100.7 WVJP-FM 103.3
Kilmarneek Lexington	WWDE-FM 101.3 WHOV 88.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WKW1 101.7 WLUR 91.5 WLCC 106.3	Sunnyside Tasoma	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KXLY-FM 99.9 KHQ-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1	Ladysmith Madison	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WERN 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 98.1 WZEE 104.1 WNC 102.8	Aguadilla Bayamon Caguas Camuy Carolina	WNIK-FM 106.5 WWA-FM 100.3 WWA-FM 100.3 WWA-FM 100.3 WRSJ-FM 100.7 WEYA 94.7 WYYX 100.7 WVJP-FM 103.3 WCHQ-FM 102.9 WOLA-FM 102.9 WBRQ 97.7
Kilmarnock	WWDE-FM 101.3 WHOV 88.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WKWI 101.7 WLUR 91.5 WLCC 106.3 WWOD-FM 100.1 WGOL 98.3		KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 98.9 KHO-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3	Ladysmith	W8PL 95.9 WIZM 93.3 WLXR 104.9 WW1B 92.9 WERN 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 98.1 WZEE 104.1 WNC 102.5 WKUB 92.1 WHMD 91.5	Aguadilla Bayamon Caguas Camuy Carolina Cidra Grozal Fajardo	WNIK-FM 106.5 WIVA-FM 100.3 WTPM 92.9 WRSI-FM 100.7 WEYA 94.7 WXYX 100.7 WXYX 100.7 WVIP-FM 103.3 WCHQ-FM 107.7 WBRQ 97.7 WORO 92.5 WMDD-FM 94.7
Kilmarnock Lexington Luray	WWDE-FM 101.3 WHOV 88.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WKWI 101.7 WLUR 91.5 WLOC 106.3 WWOD-FM 100.1 WGOL 98.3 WEZR 106.7		KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 99.9 KHO-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KNBQ 97.3 KNBQ 103.9 KUPS 90.1	Ladysmith Madison Manitowoc	W8PL 95.9 WIZM 93.3 WLXR 104.9 WW1B 92.9 WERN. 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 98.1 WNWC 102.5 WKUB 92.1 WHMD 91.5 WHMD 91.5 WDLB-FM 106.5	Aguadilla Bayamon Caguas Camuy Carolina Cidra Corozal Fajardo Guayama Hormigueros	WNIK-FM 106.5 · WRFE 105.5 WIVA-FM 100.3 WTPM 92.9 WRSI-FM 100.7 WEYA 94.7 WXYX 100.7 WYJP-FM 103.3 WCHQ-FM 107.7 WBRQ 97.7 WORO 92.5 WMDD-FM 94.7 WXRF-FM 106.9
Kilmarnock Lexington Luray Lynenburg Manassas Marion Martinsville	WWDE-FM 101.3 WHOV 88.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WLCC 106.3 WWDD-FM 100.1 WEZR 106.7 WEZR 106.7 WMEV-FM 93.9 WOLD-FM 102.3 WMVA-FM 96.3		KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 99.9 KHO-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KNBQ 97.3 KNBQ 103.9 KUPS 90.1	Ladysmith Madison Manitowoc Marinette Marsheld Mauston Medford Menomonee	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WERN 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 98.1 WNWC 102.5 WKUB 92.1 WHMD 91.5 WHMD 91.5 WDLB-FM 106.5 WGLG-FM 99.1 WIGM-FM 99.3	Aguadilla Bayamon Capuas Camuy Carolina Cidra Gorozal Fajardo Guayama Hormigueros Isabela Luquillo	WNIK-FM 106.5 WIVA-FM 100.3 WTPM 92.9 WRSI-FM 100.7 WEYA 94.7 WXYX 100.7 WXYX 100.7 WYJP-FN 103.3 WCHQ-FM 107.7 WBRQ 97.7 WORO 92.5 WMDD-FM 94.7 WXRF-FM 106.9 WKSA-FM 101.8
Kilmarnock Lexington Luray Lynchburg Manassas Marion Martinsville Mineola Newport News	WWDE-FM 101.3 WHOV 88.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WWD-FM 100.1 WECR 106.7 WEZR 106.7 WMEV-FM 93.9 WOLD-FM 102.3 WMVA-FM 96.3 KMDO-FM 96.3 KMDO-FM 96.7	Tacoma Toppenish	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KXLY-FM 98.9 KHO-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KTOY 91.7 KBRD 103.9 KUPS 90.1 KENE-FM 90.7	Ladysmith Madison Manitewoc Marinette Marsheld Mauston Medford Menomonee Menomonee F:	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WERN 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 96.1 WXEE 104.1 WNWC 102.8 WKUB 92.1 WHMD 91.5 WLST 95.1 WDLB-FM 106.5 WRIC-FM 99.3 WMFM 99.3 WMFM 99.3 WMFM 99.3 WSS 90.7 WZMF 98.3	Aguadilla Bayamon Capuas Camuy Carolina Cidra Corozal Fajardo Guayama Hormigueros Isabela Luquillo Manati Maricao	WNIK-FM 106.5 WIVA-FM 100.3 WTPM 92.9 WRSI-FM 100.7 WEYA 94.7 WXYX 100.7 WXYX 100.7 WVIP-FN 103.3 WCHQ-FM 102.9 WOLA-FM 107.7 WBRQ 97.7 WBRQ 97.7 WORD 92.5 WMDD-FM 84.7 WXRF-FM 106.9 WGIT 92.1 WKSA-FM 101.8 WZOL 92.1 WMLD 98.9 WAEL-FM 96.1
Kilmarnock Lexingvon Luray Lynchburg Manassas Marion Martinsville Mineola	WWDE-FM 101.3 WHMC 91.7 WMRA 91.1 WQPO 100.7 WKWI 101.7 WLUR 91.5 WLCC 106.3 WWOD-FM 100.1 WGOL 98.3 WWOD-FM 93.9 WOLD-FM 96.3 WMVA-FM 96.3 WMVA-FM 96.3 WMVA-FM 96.7 WMFH 97.3 WMVA-FM 97.3 WMVA-FM 97.3	Tacoma Toppenish	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 98.1 KLY-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KTOY 91.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KEXI 93.3 KXTU 90.5	Ladysmith Madison Manitewoc Marinette Marsheld Mauston Medford Menomonee Menomonee F: Merrill Middleton	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WWRN 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 96.1 WXEE 104.1 WNWC 102.8 WKUB 92.1 WHMUB 92.1 WHMUB 91.5 WLST 95.1 WDLB-FM 106.5 WRIC-FM 99.3 WIGM-FM 99.3 WIGM-FM 99.3 WJMT-FM 93.5 WJMT-FM 93.5 WJMT-FM 93.5	Aguadilla Bayamon Caguas Camuy Carolina Cildra Corozal Fajardo Guayama Hormigueros Isabela Luquillo Manati	WNIK-FM 106.5 WIVA-FM 100.3 WTPM 92.9 WRSJ-FM 100.7 WEYA 94.7 WXYX 100.7 WXYX 100.7 WYIP-FM 103.3 WCHQ-FM 102.9 WOLA -FM 102.9 WOLA -FM 102.7 WBRQ 97.7 WBRQ 97.7 WBRQ 97.7 WARF-FM 106.9 WXRF-FM 101.8 WZOL 92.1 WKSA-FM 101.8 WZOL 92.1 WMLD 96.9 WAEL-FM 96.1 WKJB-FM 99.1
Kilmarnock Lexington Luray Lynchburg Manassas Marion Martinsville Mineola Newport News	WWDE-FM 101.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WWD-FM 100.1 WECR 106.3 WWD-FM 100.1 WEZR 106.7 WMEV-FM 93.9 WOLD-FM 102.3 WMVA-FM 96.3 KMDO-FM 96.3 KMDO-FM 96.7 WGH-FM 98.7 WGH-FM 98.7	Tagoma Toppenish Walia Walia	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 99.9 KHO-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KTOY 91.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KSXT 97.1 KWCW 90.5 KPQ-FM 102.1 KIAM-FM 104.9 KUEZ 106.3	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Menomone F:	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WWRN 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 98.1 WXEE 104.1 WWWC 102.5 WKUB 92.1 WHMD 92.1 WHMD 91.5 WLST 95.1 WDLB-FM 106.5 WRICFM 92.1 WIGM-FM 99.3 WIGM-FM 99.3 WJMT-FM 93.5 WYMF 93.3 WJMT-FM 93.5 WWQM-FM 106.3 WMDF 89.9	Aguadilla Bayamon Capuas Camuy Carolina Cidra Corozal Fajardo Guayama Hormigueros Isabela Luquillo Manati Maricao	WNIK-FM 106.5 WIVA-FM 100.3 WTPM 92.9 WRSJ-FM 100.7 WEYA 94.7 WXYX 100.7 WXYX 100.7 WYIP-FN 103.3 WCHQ-FM 102.9 WOLA-FM 107.7 WBRQ 37.7 WBRQ 92.1 WBRQ 37.7 WBRQ 37
Kilmarnock Lexington Luray Lynchburg Manassas Marion Martinsville Mineola Newport News	WWDE-FM 101.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WLUC 106.3 WWOD-FM 100.1 WEZR 106.7 WEYFM 93.9 WOLD-FM 102.3 WMVA-FM 96.7 WMO-FM 96.7 WMO-FM 96.7 WMO-FM 96.7 WGH-FM 98.7	Tacoma Toppenish Walia Walia Wenatchee	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 98.1 KLY-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KTOY 91.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KEXT 93.3 KSTY 97.1 KWCW 90.5 KPQ-FM 102.1 KIAM-FM 104.9 KUEZ 106.3 KDNA 91.9	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Menomone F: Merrill Middleton Mitten	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WWRN 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 96.1 WXEE 104.1 WNWC 102.5 WKUB 92.1 WHMD 91.5 WKUB 92.1 WHMD 91.5 WLST 95.1 WDLB-FM 106.5 WRICH 99.3 WIGM-FM 99.3 WJMT-FM 99.3 WJMT-FM 93.5 WJMT-FM 93.5 WJMT-FM 93.5 WJMT-FM 93.6 WJMT-FM 93.7 WJMT-FM 93.7 WJMT-FM 93.7 WJMT-FM 93.7 WJMT-FM 93.7 WJMT-FM 93.7 WJMT-FM 93.7 WJMT-FM 93.7	Aguadilla Bayamon Caguas Camuy Carolina Cildra Corozal Fajardo Guayama Hormigueros Isabela Luquillo Manati Maricao Mayaquez Ponce	WNIK-FM 106.5 WIVA-FM 100.3 WIVA-FM 100.3 WRSI-FM 100.7 WEYA 94.7 WXYX 100.7 WXXYX 100.7 WXXYX 100.7 WATE
Kilmarnock Lexington Luray Lynchburg Manassas Marion Martinsville Mineola Newport News	WWDE-FM 101.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WLCC 106.3 WWGD-FM 100.1 WEZR 106.7 WMGD-FM 102.3 WMVA-FM 96.3 KMOO-FM 96.3 KMOO-FM 96.3 WMO-FM 96.3 WMO-FM 96.3 WMO-FM 97.3 WMVA-FM 97.3 WMVA-FM 97.3 WMYA-FM 97.3 WMYA-FM 97.3 WMYA-FM 97.3 WMYA-FM 97.3 WMT 91.5 WGH-FM 97.3 WMT 91.5 WGMS-FM 100.5 WMT 91.5	Tacoma Toppenish Walia Walia Wenatchee	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 99.9 KHO-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KTOY 91.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KSXT 97.1 KWCW 90.5 KPQ-FM 102.1 KIAM-FM 104.9 KUEZ 106.3	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Menomone F: Merrill Middleton Mitten	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WWRN 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 96.1 WXEE 104.1 WNWC 102.8 WKUB 92.1 WHMD 91.5 WLST 95.1 WDLB-FM 106.5 WRIGM-FM 99.3 WMFM 92.1 WIGM-FM 99.3 WMFM 92.1 WIGM-FM 96.5 WXMF 98.3 WJMT-FM 93.5 WJMT-FM 93.5 WJMT-FM 93.7 WJMT-FM 93.7 WJMT-FM 93.7 WJMT-FM 93.7 WJMT-FM 93.7 WJMT-FM 106.9	Aguadilla Bayamon Capuas Camuy Carolina Cidra Corozal Fajardo Guayama Hormigueros Isabela Luquillo Manati Maricao Mayaquez Ponce	WNIK-FM 106.5 WIVA-FM 100.3 WTPM 92.9 WRSI-FM 100.7 WEYA 94.7 WXYX 100.7 WXYX 100.7 WAYYX
Kilmarnock Lexington Luray Lynchburg Manassas Marion Martinsville Mineola Newport News Norfolk	WWDE-FM 101.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WLCC 106.3 WWGD-FM 100.1 WEZR 106.7 WMEZR 106.7 WMEZR 106.7 WMEV-FM 93.9 WOLD-FM 102.3 WMVA-FM 96.3 KMOO-FM 96.3 KMOO-FM 96.7 WGH-FM 97.3 WMYA-FM 100.5 WOWI 102.9 WMT 91.5 WCMS-FM 102.9 WKEZ 95.7 WNSB 91.1 WQRK 104.5 WHRO-FM 89.5 WYFI 99.7	Tagoma Toppenish Walia Walia . Wenatchee Yakima	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 98.1 KLY-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KTOY 91.7 KBRD 103.9 KUPS 90.1 KUPS 90.7 KEXI 93.3 KSXX 97.1 KWCW 90.5 KPC-FM 90.2 KWCW 90.5 KPC-FM 102.1 KAM-FM 104.9 KFFM 104.9 KFFM 107.3 KIT-FM 94.5	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Menomone F: Merrill Middleton Mitten	WSPL 95.9 WIZM 93.3 WLXR [104.9 WWIB 92.9 WWERN 88.7 WIBA-FM 101.5 WORT 89.7 WISM-FM 96.1 WXEE 104.1 WNWC 102.5 WKUB 92.1 WHMD 91.5 WKUB 92.1 WHMD 91.5 WRIC-FM 96.5 WRIC-FM 96.5 WRIC-FM 99.3 WJMT-FM 98.3 WJMT-FM 98.3 WJMT-FM 98.3 WJMT-FM 98.5 WZWU 98.3 WJMT-FM 98.5 WZWU 98.5 WZWU 98.5 WJMT-FM 98.5 WZWU 98.5 WJMT-FM 98.5 WJMT-FM 98.5 WZWU 98.5 WJMT-FM 98.5 WJMT-FM 98.5	Aguadilla Bayamon Caguas Camuy Carolina Cidra Corozal Fajardo Guayama Hormijqueros Isabela Luquillo Manati Maricao Mayaquez Ponce Quebradillas San German	WNIK-FM 106.5 WIVA-FM 100.3 WIVA-FM 100.7 WEYA 94.7 WEYA 94.7 WXYX 100.7 WXXYX 100.7 WAYXY 100.7 WARQ 97.7 WARQ 97.7 WARG 92.5 WMDD-FM 103.3 WGH2-FM 106.9 WGH3 WGH3 WGH3 WSA-FM 101.5 WMLD 96.9 WAEL-FM 96.1 WIDA 97.5 WYEF 96.9 WAEL-FM 96.1 WIDA 97.5 WYEF 96.9 WARR 101.9 WARR 102.5 WRPC 96.1 WIPR-FM 91.3 WIPR-FM 91.3 WIRA-FM 102.5
Kilmarnock Lexington Luray Lynenburg Manassas Marion Martinsville Mineola Newport News Norfolk	W V D E-F M 101.3 W V D V 88.3 W E M V 91.7 W M R A 91.1 W Q P 010.7 W K W 1101.7 W L U R 91.5 W V O D - F M 100.1 W E Z R 106.7 W M E Y - F M 96.3 K M O D - F M 96.3 K M O D - F M 96.3 K M O D - F M 96.3 K M O D - F M 96.3 K M O D - F M 96.3 K M O D - F M 96.3 K M O D - F M 96.3 K M C D D S W M T M 96.3 W M T M 96.3 W M T M 98.7 W M T M 98.7 W M T M 98.7 W M T M 106.3 W M M M 96.1 W M M 96.1	Tagoma Toppenish Walia Walia . Wenatchee Yakima	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 99.9 KHO-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KTOY 91.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KENE-FM 92.7 KSXT 97.1 KWCW 90.5 KOXT 97.1 KWCW 90.5 KIT-FM 104.9 KUEZ 106.3 KDAA 91.9 KFFM 107.3 KYBO 98.3	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Menomone F: Merrill Middleton Mitten	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WWRN 88.7 WBRN 88.7 WISM-FM 98.1 WZEE 104.1 WNWC 102.8 WKUB 92.1 WHMD 91.5 WKUB 92.1 WHMD 91.5 WLST 95.1 WLST 95.1 WLST 95.1 WJSF-FM 106.5 WRIC-FM 92.1 WJSF-FM 106.5 WGM-FM 99.3 WMFM 92.3 WJMT-FM 98.3 WJMT-FM 98.3 WJMT-FM 98.5 WZWJW 98.5 WZWJW 98.7 WZWJW 98.7 WZWJW 98.7 WZWJW 98.7 WZWJW 98.7 WZWJW 98.7 WZWJW 98.7 WZWJW 99.3	Aguadilla Bayamon Caguas Camuy Carolina Cidra Corozal Fajardo Guayama Hormijqueros Isabela Luquillo Manati Maricao Mayaquez Ponce Quebradillas San German	WNIK-FM 106.5 WIVA-FM 100.3 WTPM 92.9 WRSI-FM 100.7 WEYA 94.7 WXYX 100.7 WXYX 100.7 WXYY 100.7 WAYY 100.7 WARQ 97.7 WBRQ 97.7 WBRQ 97.7 WMD 1-FM 102.9 WALA-FM 107.7 WBRQ 97.7 WMD 2-FM 101.8 WGIT 92.1 WKSA-FM 161.8 WZOL 92.1 WKSA-FM 161.8 WZOL 92.1 WKSA-FM 161.8 WZOL 93.9 WAEL-FM 96.1 WX 100.4 WKSA-FM 161.8 WZOL 93.3 WEYE 96.9 WAEL-FM 96.9 WAEL-FM 96.9 WAEL-FM 96.9 WYER 96.9
Kilmarnock Lexingvon Luray Lyncnburg Manassas Marion Martinsville Mineola Newport News Norfolk Norton Orango Petersburg Portsmouth	W V D E-F M 101.3 W E M V 88.3 W E M C 91.7 W M R A 91.1 W Q P O 100.7 W K W 1 101.7 W L U R 91.5 W V O D - F M 100.1 W E Z R 106.7 W M E Z R 106.7 W M E Z R 106.7 W M V A-F M 96.3 K M O D - F M 96.3 K M O D - F M 96.3 K M O D - F M 96.3 K M O D - F M 96.3 K M O D - F M 96.3 K M C D - F M 96.3 K M C D - F M 96.3 W M T M 96.3 W M T M 98.7 W C M S D 95.3 W K S D 95.3 W K S D 95.3 W M R D - F M 106.3 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1 W J M A 96.1	Tagoma Toppenish Walia Walia Wenatchee Yakima WEST	KEZE-FM 105.7 KIGN 98.9 KSFC 91.1 KLY-FM 99.9 KHO-FM 98.1 KWWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KNBQ 97.3 KNBQ 97.3 KNBQ 97.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KBRD 103.9 KUPS 90.1 KENE-FM 102.1 KIM-FM 104.9 KUEZ 106.3 KDNA 91.9 KFFM 107.3 KIT-FM 94.5 KYBO 98.3 VIRGINIA WBKW 99.5 WGIR-FM 103.7 WWPB 91.7	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Menomonee Menomone Merrill Middleton Milwaukee	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WWRN 88.7 WBRN 88.7 WISM-FM 104.5 WXEE 104.1 WNWC 102.5 WKUB 92.1 WHMD 91.5 WKUB 92.1 WHMD 91.5 WLST 95.1 WLST 95.1 WLST 95.1 WLST 95.1 WLST 95.1 WLST 95.1 WLST 95.1 WLST 95.1 WLST 95.1 WLST 96.5 WRIC-FM 92.1 WIGM-FM 99.3 WMFM 92.3 WMFM 92.3 WMFM 98.3 WJMT-FM 106.5 WZUU 95.7 WZMFM 96.5 WZUU 95.7 WLPX 97.3 WHT FM 102.9 WBCS-FM 102.9	Aguadilla Bayamon Caguas Camuy Carolina Cidra Corozal Fajardo Guayama Hormijqueros Isabela Luquillo Manati Maricao Mayaquez Ponce Quebradillas San German	WNIK-FM 106.5 WIVA-FM 100.3 WIVA-FM 100.7 WRSJ-FM 100.7 WEYA 94.7 WXYX 100.7 WXXYX 100.7 WXXYX 100.7 WARQ 97.7 WBRQ 97.7 WBRQ 97.7 WBRQ 97.7 WART-FM 106.9 WGIT 92.1 WKSA-FM 101.5 WZOL 92.1 WKSA-FM 101.5 WZOL 92.1 WKSA-FM 101.5 WZOL 92.1 WKSA-FM 101.5 WZOL 92.1 WKSA-FM 101.5 WZOL 92.1 WKSA-FM 101.5 WZOL 93.3 WIO 105.1 WIO 105.1 WZAR 101.9 WZAR 101.9 WZAR 101.9 WZAR 101.9 WZAR 101.9 WYOE 98.3 WHPC 98.3
Kilmarnock Lexington Luray Lynenburg Manassas Marion Martinsville Mineola Newport News Norfolk Norton Orange Petersburg Portsmouth Pulaski Radford	WWDE-FM 101.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WLUR 91.5 WGOL 98.3 WEZR 106.7 WEV-FM 93.9 WOLD-FM 102.3 WMVA-FM 96.3 KMDO-FM 96.7 WMTI 91.5 WMTI 91.5 WMTI 91.5 WMSE 91.7 WGH-FM 98.7 WMSE 91.7 WGH-FM 98.7 WNSE 91.1 WREZ 95.7 WNSE 91.1 WREZ 95.7 WNSE 91.1 WREZ 95.7 WNSE 95.7 WNSE 95.7 WNSE 95.7 WNSE 95.7 WNSE 95.7 WNSE 95.7 WNSE 95.7 WNSE 95.7 WNSE 95.7 WNSE 95.7 WNSE 95.7 WNSE 95.7	Tazoma Toppenish Walla Walla Wenatchee Yakima WEST	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 99.9 KHO-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 97.3 KNBQ 98.3 KNBQ 98.3 KNBQ 98.3 KNBQ 98.3 WNBC 88.1 WNBC 88.1 WNBC 88.1	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Menomonee Menrill Middleton Milwaukee	WSPL 95.9 WIZM 93.3 WLXR [104.9 WWIB 92.9 WWERN 88.7 WJR 99.7 WJRA FM 101.5 WORT 89.7 WJRA FM 101.5 WKUB 92.1 WKUB 92.1 WKUB 92.1 WKUB 92.1 WKUB 91.5 WKUB 92.1 WHMD 91.5 WRIC FM 92.1 WJRA FM 106.5 WRIC FM 92.1 WJRA FM 106.5 WJRA FM 106.5 WZWI 98.3 WJRA FM 106.5 WZWI 98.3 WJRA FM 106.5 WZWI 98.3 WJRA FM 106.5 WZWI 98.3 WJRA FM 106.5 WZWI 98.3 WJRA FM 106.5 WZWI 98.3 WJRA 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZWI 98.5 WZYZWI 98.5	Aguadilla Bayamon Caguas Camuy Carolina Cidra Corozal Fajardo Guayama Hormijqueros Isabela Luquillo Manati Maricao Mayaquez Ponce Quebradillas San German	WNIK-FM 106.5 WIVA-FM 100.5 WIVA-FM 100.7 WRSI-FM 100.7 WEYA 94.7 WXYX 100.7 WXXYX 100.7 WAYYX 100.7 WARQ 97.7 WARQ 97.7 WARG 92.5 WMDD-FM 102.9 WALL-FM 101.5 WXLD 96.9 WAEL-FM 96.1 WIOA 97.5 WYEF M 96.1 WIOA 97.5 WYEF M 96.1 WIOA 97.5 WYER 1 96.1 WIOA 97.5 WYER 1 98.3 WRPC 98.1 WIOC 105.1 WRPC 98.1 WIPR-FM 104.7 WIPR-FM 104.7 WYENA-FM 104.7 WKWA-FM 104.7 WKWA-FM 104.7 WKWA-FM 105.7 WKWM-FM 98.5 WRTU 89.7 WHOB 99.9 WRTU 89.7
Kilmarnock Lexington Luray Lynenburg Manassas Marion Martinsville Mineola Newport News Norfolk Norton Orange Petersburg Portsmouth Pulaski	WWDE-FM 101.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WLUR 91.5 WGOL 98.3 WEZR 106.7 WEVER 106.7 WMEV-FM 93.9 WOLD-FM 102.3 WMVA-FM 96.3 KMDO-FM 96.7 WMTI 91.5 WMSF 91.1 WGMS-FM 100.5 WNOR-FM 98.7 WGMS-FM 100.5 WNOR-FM 98.7 WGMS-FM 100.5 WNOR-FM 98.7 WGMS-FM 100.5 WNOR-FM 98.7 WGMS-FM 100.5 WNOR-FM 98.7 WYFI 99.7 WNSB 91.1 WGMS 104.5 WHO-FM 89.5 WXRI 105.3 WYFI 99.7 WNVA-FM 106.3 WPLZ 99.3 WNHS 88.7 WPUV-FM 107.1 WRAD-FM 101.7 WRAD-FM 101.7	Tagoma Toppenish Walla Walla Wenatchee Yakima WEST Beckley Berkley Spring Bethany	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 99.9 KHO-FM 98.1 KWWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KNBQ 98.3 VIRGINIA WNBKW 98.3 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Monomonee Menomonee Fi Meridition Milton Milton Milwaukee	WSPL 95.9 WIZM 93.3 WLXR [104.9 WWIB 92.9 WWIB 92.9 WERN 88.7 WIBA FM 101.5 WORT 89.7 WISM FM 98.1 WXEE 104.1 WNWC 102.5 WKUB 92.1 WHMD 91.5 WKUB 92.1 WHMD 91.5 WRIC FM 92.1 WISM FM 98.3 WJET 106.5 WRIC FM 92.1 WIGM FM 98.3 WJMT FM 98.3 WJMT FM 98.3 WJMT FM 98.5 WWMFM 98.5 WYMT FM 106.9 WYMS 96.7 WYMS 98.9 WYMT 106.9 WYMS 98.9 WYMT 106.9 WYMS 98.9 WYM 107.7 WYUW 98.1 WYMS 88.9 WKT 107.7 WYMS 88.9 WKT 194.5 WYMS 98.3 WKT 194.5 WKT 194.5 WK 195.9 WK 195.9 WK 195.9 WK 195.9 WK 195.9 WK 195.9 WK 195.9	Aguadilla Bayamon Caguas Camuy Carolina Gidra Corozal Fajardo Guayama Hormigueros Isabela Luquillo Manati Maricao Mayaquez Ponce Quebradillas San German San Juan Utuado Vieques	WNIK-FM 106.5 WIVA-FM 100.3 WTPM 92.9 WRSI-FM 100.7 WEYA 94.7 WXYX 100.7 WXYX 100.7 WAYYX 100.7 WAYYX 100.7 WAYYX 100.7 WARQ 97.7 WBRQ 97.7 WBRQ 97.7 WBRQ 97.7 WBRQ 97.7 WBRQ 192.1 WKAFFM 101.5 WALD 96.9 WACIT 92.1 WKAFFM 101.5 WALD 96.9 WAEL-FM 96.1 WKJB-FM 96.1
Kilmarnock Lexingvon Luray Lyncnburg Manassas Marion Martinsville Mineola Newport News Norfolk Norton Orango Petersburg Portsmouth Pulaski Radford Richlands	WWDE-FM 101.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WLUR 91.5 WGOL 98.3 WEZR 106.7 WEVER 106.7 WMEV-FM 93.9 WOLD-FM 102.3 WMVA-FM 96.3 KMDO-FM 96.7 WMTI 91.5 WMSF 91.1 WGMS-FM 100.5 WNOR-FM 98.7 WGMS-FM 100.5 WNOR-FM 98.7 WGMS-FM 100.5 WNOR-FM 98.7 WYFI 99.7 WNSB 91.1 WGRK 104.5 WREZ 95.7 WNSB 91.1 WGRK 104.5 WYFI 99.7 WNSB 91.1 WREZ 99.7 WNSB 91.1 WREZ 99.7 WNSB 91.1 WGRK 104.5 WYFI 99.7 WNSB 91.1 WGRK 104.5 WYFI 99.7 WNSB 99.7 WNSB 99.7 WNSB 99.7 WNSB 99.7 WNSB 99.7 WNSB 99.7 WNSB 99.7 WNSB 99.7 WNSB 99.7 WGRK 104.5	Tagoma Toppenish Walla Walla Wenatchee Yakima WEST Beckley Berkley Spring Bethany Bluefield	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 98.1 KLY-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KNBQ 98.3 VIRGINIA WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNBKW 99.5 WNB 99.5	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Menomonee Merrill Middleton Milton Milton Milwaukee Menomonee Neenah-Mena	WSPL 95.9 WIZM 93.3 WLXR [104.9 WWIB 92.9 WWERN 88.7 WJRM 88.7 WJRM 89.7 WJRM FM 96.1 WXEE 104.1 WNWC 102.5 WKUB 92.1 WHMD 91.5 WKUB 92.1 WHMD 91.5 WRIC FM 92.1 WJRM FM 93.5 WJRT FM 96.5 WJRT FM 96.5 WJRT FM 98.3 WJRT FM 98.3 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WJRT FM 98.5 WRIT FM 98.5 WRIT FM 98.5 WRIT FM 98.5 WRIT FM 98.5 WRIT FM 98.5 WRIT FM 98.5	Aguadilla Bayamon Caguas Camuy Carolina Gidra Corozal Fajardo Guayama Hormigueros Isabela Luquillo Manati Maricao Mayaquez Ponce Quebradillas San German San Juan Utuado Vieques	WNIK-FM 106.5 WIVA-FM 100.5 WIVA-FM 100.7 WRSI-FM 100.7 WEYA 94.7 WXYX 100.7 WXXYX 100.7 WAYYX 100.7 WARQ 97.7 WARQ 97.7 WARG 92.5 WMDD-FM 102.9 WALL-FM 101.5 WXLD 96.9 WAEL-FM 96.1 WIOA 97.5 WYEF M 96.1 WIOA 97.5 WYEF M 96.1 WIOA 97.5 WYER 1 96.1 WIOA 97.5 WYER 1 98.3 WRPC 98.1 WIOC 105.1 WRPC 98.1 WIPR-FM 104.7 WIPR-FM 104.7 WYENA-FM 104.7 WKWA-FM 104.7 WKWA-FM 104.7 WKWA-FM 105.7 WKWM-FM 98.5 WRTU 89.7 WHOB 99.9 WRTU 89.7
Kilmarnock Lexingvon Luray Lyncnburg Manassas Marion Martinsville Mineola Newport News Norfolk Norton Orango Petersburg Portsmouth Pulaski Radford Richlands	WWDE-FM 101.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WLUR 91.5 WGOL 98.3 WEZR 106.7 WEVER 106.7 WMEV-FM 93.9 WOLD-FM 102.3 WMVA-FM 96.3 KMDO-FM 96.7 WMTI 91.5 WMTI 91.5 WMSE 91.7 WGH-FM 98.7 WMTI 91.5 WNOR-FM 98.7 WKEZ 95.7 WNSE 91.1 WREZ 95.9 WNSE 99.5	Tagoma Toppenish Walla Walla Wenatchee Yakima WEST Beckley Berkley Spring Bethany Bluefield Buckhannon	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KXLY-FM 99.9 KHO-FM 98.1 KWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KTOY 91.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KBRD 103.9 KUPS 90.1 KFAM-FM 104.9 KLUPS 90.5 KYBO 98.3 VIRG INIA WBKW 99.5 WIRG INIA WBKW 99.5 WGER FM 103.7 WVPB 98.3 VIRG INIA WBC 88.1 WHAJ 104.5 WYDW 88.9 WYWC 89.5 WBC 88.9 WYWC 89.5 WBC 88.9 WYWC 89.5 WBC 88.9 WYWC 89.5	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Menomonee Menomill Middleton Milwaukee Milwaukee Minocqua Monroe Neenah-Mena Neillsville New London	WSPL 95.9 WIZM 93.3 WLXR [104.9 WWIB 92.9 WWIB 92.9 WWERN 88.7 WJR 99.7 WJRA FM 101.5 WJRT 89.7 WJRM FM 96.1 WJEE 104.1 WJEE 104.1 WJEE 104.1 WJEE 104.1 WJEE 104.1 WJEE 105.1 W	Aguadilla Bayamon Caguas Camuy Carolina Gidra Corozal Fajardo Guayama Hormigueros Isabela Luquillo Manati Maricao Mayaquez Ponce Quebradillas San German San Juan Utuado Vieques	WNIK-FM 106.5 WIVA-FM 100.3 WNFE 105.5 WIVA-FM 100.3 WNSJ-FM 100.7 WEYA 94.7 WXYX 100.7 WXXYX 100.7 WXXYX 100.7 WARQ 97.7 WARQ 97.7 WARG 92.5 WMDD-FM 103.3 WGHQ-FM 102.9 WALD 96.9 WASA-FM 101.5 WMLD 96.9 WAEL-FM 96.1 WIDA 97.5 WYER 198.3 WIDA 97.5 WYER 198.3 WRC 98.1 WIDA 97.5 WYER 198.3 WRC 98.1 WIDA 97.5 WYER 198.3 WRC 98.1 WIDA 97.5 WYER 198.3 WRC 98.1
Kilmarnock Lexingvon Luray Lyncnburg Manassas Marion Martinsville Mineola Newport News Norfolk Norton Orango Petersburg Portsmouth Pulaski Radford Richlands	WWDE-FM 101.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WLUR 91.5 WUGC 106.3 WWDD-FM 100.1 WEZR 106.7 WEV-FM 93.9 WOLD-FM 102.3 WMVA-FM 96.3 KMDO-FM 96.7 WMFY-FM 98.7 WMTI 91.5 WNOR-FM 98.7 WMTI 91.5 WOMS-FM 100.5 WNOR-FM 98.7 WKEZ 95.7 WNSB 91.1 WGR 104.5 WREZ 95.7 WNSB 91.1 WREZ 95.7 WNSB 91.1 WREZ 95.7 WNSB 91.1 WREZ 95.7 WNSB 91.1 WREZ 95.7 WNSB 91.1 WREZ 95.7 WNSB 91.1 WREZ 95.7 WNSB 91.1 WREZ 95.7 WNFI 98.7 WNYA-FM 106.3 WPLZ 99.3 WNHS 88.7 WPLY-FM 107.1 WREC 89.9 WTYR-FM 98.1 WEZS 103.7 WRYQ-FM 94.5 WRYQ-FM 94.5 WRYQ-FM 94.5 WRYQ-FM 94.5 WRYQ-FM 94.5 WRYQ-FM 94.5 WRYQ-FM 94.5 WRYQ-FM 94.5 WRYQ-FM 94.5 WRYL 102.1	Tagoma Toppenish Walla Walla Wenatchee Yakima WEST Beckley Berkley Spring Bethany Bluefield Buckhannon	KEZE-FM 105.7 KICN 98.9 KSFC 91.1 KLY-FM 99.9 KHO-FM 98.1 KWWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KNTOY 91.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KBRD 103.9 KUPS 90.1 KENE-FM 104.9 KLUPS 90.5 KPQ-FM 104.9 KYDNA 91.9 KYDNA 91.9 KYFFM 104.5 KYBO 98.3 VIRG INIA WBKW 99.5 WILT-FM 94.5 KYBO 98.3 VIRG INIA WBKW 99.5 WUSC 88.1 WHAJ 104.5 WVPW 88.9 WVWC 89.9 WQBE 97.5 WBE8 86.1 WKNA 98.5 WTID 102.7 WVAF 89.9	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Mennill Middleton Milton Milton Milwaukee Minocqua Monroe Neenah-Mena Neillsville New London New Richmor Oconto	WSPL 95.9 WIZM 93.3 WLXR [104.9 WWIB 92.9 WWIB 92.9 WERN 88.7 WIBM-FM 98.1 WZEE 104.1 WNWC 102.5 WKUB 92.1 WHMD 91.5 WKUB 92.1 WHMD 91.5 WRIC-FM 99.5 WRIC-FM 99.3 WJMT-FM 98.3 WJMT-FM 98.3 WJMT-FM 98.5 WZMF 98.3 WJMT-FM 98.5 WZMF 98.3 WJMT-FM 98.5 WZMF 98.3 WJMT-FM 98.5 WZMF 98.3 WJMT-FM 98.5 WZMF 98.3 WJMT-FM 98.5 WZMF 98.3 WJMT-FM 98.5 WZMF 98.5 WZMF 98.5 WJMT-FM 98.5 WZMF 98.5 WJMT-FM 98.5 WJMT-FM 98.5 WZMF 98.5 WJMT-FM 98.5 WZMF 98.5 WJMT-FM 98.5 WZMF 98.5 WJMT-FM 98.5 WZMF 98.5 WZMF 98.5 WJMT-FM 98.5 WZMF 98.5 WZMF 98.5 WZMF 98.5 WZMF 98.5 WZMF 98.5 WZMF 98.5 WZMF 98.5 WZMF 98.5 WZMF 98.5 WZMF 98.5	Aguadilla Bayamon Caguas Camuy Carolina Cidra Corozal Fajardo Guayama Hormigueros Isabela Luquillo Manati Maricao Mayaquez Ponce Quebradillas San German San Juan Utuado Vieques VIRGIN Charlotte Amali Christiansted	WNIK-FM 106.5 WIVA-FM 100.3 WIVA-FM 100.7 WYPM 92.9 WRSI-FM 100.7 WXYX 100.7 WXYX 100.7 WXYY 100.7 WXYY 100.7 WAR 100.7 WAR 100.3 WCHQ-FM 102.9 WOLA-FM 107.7 WBRQ 97.7 WBRQ 97.7 WBRQ 97.7 WAR 101.8 WGIT 92.1 WKA-FM 101.8 WZOL 92.1 WKSA-FM 101.8 WZOL 92.1 WKSA-FM 101.8 WZOL 93.3 WIOL 96.9 WALL-FM 96.1 WIDA 97.5 WIDA 97.5 WIDA 97.5 WIDA 97.5 WIDA 97.5 WIDA 97.5 WIDA 97.5 WIDA 97.5 WIDA 97.5 WIDA 97.5 WIDA 98.3 WIPR-FM 91.3
Kilmarnock Lexington Luray Lynchburg Manassas Marion Martinsville Mineola Newport News Norfolk Norton Orange Potersburg Portsmouth Pullaski Radford Richlands Richmond	WWDE-FM 101.3 WEMC 91.7 WMRA 91.1 WQPO 100.7 WKWI 101.7 WLUR 91.5 WWOD-FM 106.3 WWOD-FM 106.3 WWOD-FM 106.7 WMEV-FM 96.3 KMOD-FM 96.3 KMOO-FM 96.3 KMOO-FM 96.3 KMOO-FM 96.3 KMOO-FM 96.3 WWTH 91.5 WWMTH 91.5 WWTH 91.5	Tagoma Toppenish Walla Walla Wenatchee Yakima WEST Beckley Berkley Spring Bethany Bluefield Buckhannon	KEZE-FM 105.7 KIGN 98.9 KSFC 91.1 KLY-FM 98.1 KLY-FM 98.1 KWWRS 90.3 KREW-FM 96.7 KPEC-FM 90.9 KLAY-FM 106.1 KPLU-FM 88.5 KNBQ 97.3 KENE-FM 90.7 KBRD 103.9 KUPS 90.1 KENE-FM 92.7 KBRD 103.9 KENE-FM 92.7 KBRD 103.9 KENE-FM 92.7 KBRD 103.9 KENE-FM 107.3 KSXT 97.1 KWCW 90.5 KPQ-FM 102.1 KIAM-FFM 104.5 KYBD 98.3 VIRGINIA WBKW 99.5 WIRGINIA WBKW 99.5 WURG 88.1 WHAJ 104.5 WBYPW 88.9 WVWC 89.9 WQBE 97.5 WBES 96.1 WKNA 98.5 WTNI 106.7	Ladysmith Madison Manitowoc Marinette Marshfield Mauston Medford Menomonee Mennill Middleton Milton Milton Milwaukee Minocqua Monroe Neenah-Mena Neillsville New London New Richmor Oconto	WSPL 95.9 WIZM 93.3 WLXR 104.9 WWIB 92.9 WWIB 92.9 WERN 88.7 WIBM-FM 101.5 WORT 89.7 WISM-FM 98.1 WXEE 104.1 WNWC 102.5 WKUB 92.1 WHMD 91.5 WLST 95.1 WLST 95.1 WLST 95.1 WLST 95.1 WLST 95.1 WLST 96.5 WRIC-FM 92.1 WIGM-FM 99.3 WMFM 92.3 WMFM 92.3 WMFM 92.3 WIMFM 92.3 WJMT-FM 98.3 WWGM-FM 106.5 WZUU 95.7 WLDY 97.3 WWGM-FM 102.9 WFMR 96.5 WZUU 95.7 WLPX 97.3 WRIT-FM 102.9 WAGA-FM 102.1 WGFM 93.3 WKTI 94.5 WCY 107.7 WNUW 99.1 WUWM 89.7 WYMS 88.9 WEKZ-FM 93.7 WWWM 95.9 WEKZ-FM 93.7 WOCN-FM 107.1 WORD 94.3 WCN-FM 107.1 WOCN-FM 107.1 WOCN-FM 107.1 WOCO-FM 107.1	Aguadilla Bayamon Caguas Camuy Carolina Cidra Corozal Fajardo Guayama Hormigueros Isabela Luquillo Manati Maricao Mayaquez Ponce Quebradillas San German San Juan Utuado Vieques VIRGIN Charlotte Amali	WNIK-FM 106.5 WIVA-FM 100.3 WNFE 105.5 WIVA-FM 100.3 WNSJ-FM 100.7 WEYA 94.7 WXYX 100.7 WXXYX 100.7 WXXYX 100.7 WARQ 97.7 WARQ 97.7 WARQ 97.7 WARG 92.5 WMDD-FM 103.3 WGHZ-FM 106.9 WALL-FM 96.1 WXXB-FM 101.8 WXDL 92.1 WXDL 92.1 WXSA-FM 101.8 WXDL 96.9 WAEL-FM 96.9 WAEL-FM 96.9 WAEL-FM 96.9 WALL-FM 96.9

[☐] Abbreviations used in this list: kHz—frequency in kilohertz; MHz—frequency in megahertz; W.P.—power in watts; d—daytime operation only; r—reduced power at night; n—nighttime power; C.L. or Call—call letters or call sign; Chan. or Ch.—TV channel number; †—educational TV station. Wavelength is given in meters. Listing indicates stations on the air as of September 28, 1978.

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	Call Locat	ion MH2	Call	Location	MHz	Call	Location	MHz	Call	Location	MHz
	KAAK Great Falls KAAN Bethany Mi KAAP•FM Santa	0 95.9	i I KRGIPA	dinburg TX catello, Ida, M Caldwell, Ida	104.1 88.7 94.1	KCPR S KCPX-	San Luis Obispo, C FM Salt Lake City,	ai. 91.3 UT 98.7	KETX-F	ommerce, TX M Livingston, Tex. Redding, Cal.	88.9 92.1 104.3
ı	KAAP·FM Santa KABG Cambridge KABI-FM Abilene	. Kan. 98.3	I KBML L	M Caidwell, Ida. W Modesto, CA Incoln, NE	89.9 95.3	KCRVO	M Winnsbore, La Caruthersville, MO	. 95.9 103.1	KEWC.F	M Cheney, Wash. acramento CA	105.1
1	KABL-FM San Fr KACA Prosser, W KACC Alvin, TX	ancisco, CA 98.1 A 101.7 91.3	I KBIA Co	emidji MN M Spearfish, SD lumbia MO	101.1 89.1 91.3	KCSB-I	Santa Monica, Cal FM Santa Barbara, Idmond, Okla.	CA 91.9 00.1	KEXX-F	alla Walla WA M Corpus Christi T Selcourt, ND	93.3 X 93.9 88.5
İ	KACE Inglewood, (CA 103,9 Mo. 107,7	KBIC AI	ice, TX	102.3 92.9	KCSD (Chinle, AZ M Pueblo CO	89. I 97.9	1 KEYN _* F	M Wichita, Kan.	101.7
	KACT-FM Andrew KACV-FM Amari KACW Paris, TX	lio, TX 89.9	I KRIG Ed	s Angeles, CA 1 Roswell, NM monds, WA	104.3 94.9 105.3	KCSN I	San Mateo CA Northridge CA uriock, CA	91.1 88.5 91.9	KEZH F	ruckee, CA M Spokane, Wash, Prescott, AZ win Falls, ID	105.7 98.3 95.7
	KADI St. Louis M KADL-FM Pine B KADO Texarkana	0 96.3 luff AR 94.9	KBJC Gr KBKB-FI	eat Bend, KS M Fort Madison, IA A Seattle, WA	91.9 101.7 93.3	KCSU-I	'uriock, CA 'uriock, CA FM Ft. Collins, Co San Marcos, TX FM Flagstaff, AZ	lo. 90.9 103.7	KEZK S	win Falls, ID t. Louis MO an Diego CA ittle Rock AR	102.5 102.9 94.1
			KBLF-FM KBLI-FM	N Red Bluff CA	95.9 97.7	KCHE	M Dad Wine BAN	105.5	I KETRS	an losa CA	105.5
	KADX Denver, CO KAEZ Oklahoma C KAFE-FM Santa KAFM Dallas TX		I KBLL-FN	Junta, CO M Heiena MT Ita Barbara CA	92.1 92.1 99.9		ella, IA FM Crookston MN FM Kansas City, N	89.1 91.7 10. 89.3	KEZV E KEZX S KEZY-F	beral KS I Dorado, AR eattle WA M Anaheim CA	103.1 98.9 95.9
	KAGE-FM Winon KAGH-FM Crosser	a, MN 95.3 tt AR 104.9	∤ KBMC Ei	nta Barbara CA M. Logan, UT Igene, OR M. Benson, Minn.	92.9 94.5 93.5	KCWC	Ballinger, TX Riverton, WY	103.1 88. 1	I KEZZ Ai	tkin MN ayetteville, Ark. M Los Angeles, Call	94.3
	KAGM Klamath Fa KAHS Arcata CA KAIM-FM Honolul KAJN Crowley LA	91.5	KBMS Bi	llings MT est Covina, CA	96.5 98.3	KCWW	Victoria, TX Dakdale LA Beeville, TX	95.1 104.9 104.9	K FAH A	inneapolis, MN	92.1 90.3
	KAKI Renton AR	1071	I KEUI-FM	M Oskaloosa, IA Boise, ID rtland, OR	104.9 97.9 90.7	KDAB (ichiand, Wash. Ogden, UT Oxnard. CA	101.1 98.3	I KEAT C	Ordville, CA ilroy, CA M. Chevenne Wyo	97.7 94.3 97.9
	KALA Davenport, KALF Ukiah, CA KALJ Yuma AZ	103.3 95.1	I VDOG T	rtland, OR M Pleasanton, TX Ilare, CA	98.3 94.9	KDB-FI KDBH N	M Santa Barbara C Vatchitoches LA FM Dillon MT	A 93.7 97.7	KFBD-F KFBK-F	M Cheyenne, Wyo. M Waynesville, Mo. M Sacramento, Cal.	92.5
	KALL Salt Lake Ci KAYN Nogales AZ KALQ-FM Alamos	98.3 sa. CO 93.5	KBUY-FN KBPI Dei	T Mediord, UK nver, CO Jena Park Calif	95.3 105.9 90.1	KDBX KDCR S	Boonville, MO Sioux Center, Iowa	9 8.3 99.3 91. 3	KFFM Y	resno, CA iehita KS akima WA	88.1 101.3 107.3
	KALS Kalispell, M KALU Langston, (KALW San Franc	4T 97.1 DK 90.7	KBRD Ta	unita KS	97.9 103.9 94.9	KDDI O KDEA I	M Blair NE lak Grove, LA New Iberla LA	91.1 96.7 99.1	KFGQ-F KFIG FI KFIL-FN	M Boone, Ia. resno, CA 4 Preston, Minn.	1.101 1.101 1.801
1	KALX Berkeley, C	OA 90.7 e. TX 93.1	KBRF-FM	l Fergus Falls, Min	n. 103.3	KDES-F KDEF-F	M Palm Springs, C M Albuquerque, N M Arkadelphia, A	A 104.7	KFIM EI	Paso TX onesboro, AR M Modesto, CA	92.3 10 7. 9
-	KAMB Merced, CA KAMO-FM Rogers KAMS Mammoth S	SAK 94.3 Springs	KBRK-FM	A Brookings, S.D.	105.3 102.3 94.3	KDEW-	Deming, NM FM DeWitt AR	94.3 96.7	KFIX-FI	M Liberty MO M Marshalltown, la.	102.3 106.5
	AR KAMU-FM College TX	95.1	KBRO-FM	Bremerton, WA ort Morgan, CO rego Springs CA	106.9 101.7 88.9	KDEY L KDFC S	M Dexter, Mo. ufkin TX an Francisco CA	102. \$ 99.3 102.1	K FJC Los	s Altos, Cal. Iahoma City OK M Grand Forks, ND	98.9 89.3
	KANG Angwin, CA KANS-FM Larned KANU Lawrence,	A ROO	KBKX-FI	M O'Neill, NE midii. MN	92.7 91.9	KDFM KDHI-F KDHI-F Cal.	Wainut Creek, CA M Twenty-Nine Pa	92.1 Ims,	KFJZ-FN	f Fort Worth, TX	97.1 9 6. 1
	KANW Albuquerqu	e, NM 89.1	I KBIM-F	panola, NM pise, ID M Jenesboro AR	102.3 90.1 101.9	KDHL-F KDHS N	M Faribault, MN lodesto, Cal.	95.9 90.5	I KFLY-F	lagstaff, AZ an Jose CA M Corvallis OR	92.9 10 6.5 101.5
	KAOH-FM Duluth KAOI Wauluku, H KAOL-FM Duranite	. MN 94.9 II 95.t on, MO 101.1	KBUC Tel KBUF-FN KBUH-FN	rrell Hills TX 4 Garden City, KS 4 Brigham City U	106.3 97.3	KDIGL	rinnell, IA ike Arrowhead CA M Pittsburgh, P. M Mesa, AZ	88.5 103.9 A 92.9	KFMB-F KFMC F	erome, Ida. M San Diego, Cailf airmount, MN	92.7 106.5
	KAOS Olympia W KAPB-FM Marksvi KAPR-FM Douglas	M 69.3	1	A Amarillo, TX	107.1 94.1	KUKU-I	M Mesa, AZ M Clinton, MO M Del Rio, Tex.	9 3.3 95.3	KFMD D	ubuque, Ia. Albuquerque, N.M.	107.9 99.7
	KAPX San Clemen KARA Santa Clara	te, Cal. 107.9 CA 105.7	KBVR Co	rvallis, OR arshall, TX	94.7 90.1 91.1	KDLO-F KDLR-F	M Watertown, SD M Deviis Lake, N	96.9 D 96.7	KFMI EL	reka, Cal. louston, Tex.(s) ucson AZ	96.3
	KARB Price, UT KARD-FM Wichita KARN-FM Little F	98.3 a, Kans. 107.3 lock AR 103.7	I KBZISan	l Caldwell, Idaho I Provo, UT Diego CA	94.1 88.9 94.9	KDLY L	M Perry, Iowa ander, WY es Moines, Iowa	1 04.9 97.5	KEMPC	bilene, Lex. ane Girardeau Mo	99,5 102.9
	KASB Bellevue, Wa KASD Aberdeen, S.	nsn. 89.3 D. 90.1	I KCAC Wa	Inut Ridge, AR Rediands, CA	106.3 96.7	KDNA Y KDNC-F	akima WÁ M Spokane, WA elane, Cal.	91.9 93.7 98.5	KFMQL KFMRF	incoin, NE remont, Cal.	101.9
	KASE Alamosa, Co KASK Las Cruces, KASO-FM Chinden	NM 103.1	J KGBI DA	llas, TX Greeley, Colo. ico, Calif.	103.1 89.3 91.5	KDNT-F KDOL-F	M Denton, TX M Mojave, Cal.	106.1	KFMU O	as Vegas, NV ak Creek, CO lagnolia AR	103.9 1 07. 9
			KCBS-FM KCBW Se	San Francisco CA dalia. MO	93.7 97.3 92.1	KDOM-1	M Windom, MN Salinas, CA M Scottsdale AZ	94.3 102.5 100.7	KFMX S	Vaterioo IA t. Louis Park, MN ugene, Oreg.	107.9 104.1
١	KATT Oklahoma C KATX Plainview, I KAUB Auburn, NE KAUD-FM Windso	7X 97.3 105.5 or, CO 99.1	KCCK-EN	1 San Luis Obispo, CA 1 Codor Popido IA	90.1	KDPS D KDQN-F	es Moines, lowa M De Queen AR Derby, KS	92.7 95.9	KFMZ C	olumbia. Mo. klahoma City, Okla. ig Springs, Tex.	98.3
	KAUG Salinas, CA KAUM Houston, Te KAUR Sioux Falls	N 90.9 X. 96.5	KCCM-FM	Moorhead, Minn.	1.18	KDSA V KDSN-F	Vichita, KS M Denison, lowa	91.1 107.1	KFNF OI	berlin, KS M Ferriday, La.	101.1 93.5
	KAUS-FM Austin, KAVI-FM Rocky F	MN 99.9 ord, CO 95.9	KCDC Lo KCED Ce	es, IA ngmont, CO ntralia, WA	90.7 91.3	KDSUF	enison-Sherman, T argo, N.D. allas, TX iverside, Callf.	102.9	KFOG Sa KFOR-F	m rargo, N.D. in Francisco, Calif. VI Lincoln, NE	102.7
	KAVO Fallbrook, C KAVR-FM Apple \	/aliey, Cal. 102.3	KCEP Ia	Nenas NV	96.1 88.1 102.3			91.9 8.001	I KFOX Re	dondo Beach CA	93.5 95.3 101.9
	KAVS Thief River	Falls, Minn.	KCFM St.	nsas City, MO Louis, MO	94.9 93.7 98.5		Brownsville, TX FM Ocean Shores V M Hutchinson, Mil	104.7	KFSG Lo	s Angeles, Cal.	94.1 96.3
	KAWB McKinney, KAWL-FM York, I KAWW Heber Spr KAWY Casper, WY	NE 104.9 ings AR 96.7	KCFR Der KCFS Sion	isa, UK iver, Colo. ux Falls, S.D. rguson, Mo. nond O K iterville, UT	90.1 90.1		avis, Cal. opeka, KS	107.1 91.5	KFSH H KFSK Pe KFUN L	etersburg, AK as Vegas NM M Clayton, Mo. Mampa, ID	97.1 100.9 100 .9
1	KAKE-FM Grand F	tapids, MN	KCFX Edr KCGL Cer	guson, mo. nond OK nterville, UT	89.5 97.7 105.5	KDWT-I	FM Stamford, TX it. Louis Park, MN Missoula, MT	100.3 90.1 1 91.7	KFUO-FI KFXD-F KFYE Fr	VI Clayton, Mo. M Nampa, ID esno, CA	94.9 93.7
	KAXR Flagstaff, KAYD Beaumont, KAYE-FM Tonkawa	a, OK 90.5	KCHA-FM KCHC Cer	Charles City, IA	95.7 104.9 91.7	KEAN-F	M Abilene TX	93.3 105.1 106.9		esno, CA amarillo, CA M Gainesville, Tex.	95.9 101.5
	KAYK-FM Provo, KAYL-FM Storm L KALO Beaumont T)	ake, lowa 101.5	KCHE-FM KCHF-FM	Cherokee, IA Sioux Falls, S.D.	102.3	KEBC U	an Francisco CA eRidder, LA klahoma City, Okla	101.7	I KGCC De	San Diego CA I Omaha, Neb. nison. Tex. atesville, AR	100.7 89.7
	KAZI Austin, TX KAZU Pacific Grev	re, CA 90.3	KCHU Da	co, Cal. Ilas, TX	90.9	KECG E	acramento, CA I Cerrito, CA I Cajon. CA as Vegas, N.M.	88.1 93.3	KGFM B	akersfiel d, Cal. W Rapid City, SD	88.1 100.3
	KAZY Denver, CO KBAS Lake Havası	95.9	KCIL Hou	Carroll, la.	95.3 107.1 93.7	KEDQ A KEDY M	as Vegas, N.M. ustin MN lount Shasta, CA M Minneapolis-St.	90.7 95.3	KCHO-FI	es Moines, IA M Hoquiam, Wash. I San Fernando, CA	94.9
	KBAY Midland TX KBAY San Jose, C. KBAZ Bisbee, AZ	93.3 A 100.3 92.1	KCIV The	icana TX Dalles, Ore.	107.9 104.5 104.9	KEEZ·F	M Minneapolis-St. M Mankato, MN M Fosston, MInn.	Paul, 99.1 107.1	KGLA LO KGLC-FI	i San Fernando, CA s Angeles, Calif. M Miami, OK M Anaconda MT	100.9
	KBBC Phoenix AZ	1X 104.3 98.7	1 KCIB-FM	Minot, ND ekton, CA I Kansas City, Kan.	97.1				KGLR Re	no. Nev. enwood Springs, CO zeman, Mont. I Bellingham, Wash	105.7 92.7
	KBBD Beaver, UT KBBF Santa Rosa KBBG Waterloo 1A	88.1	KCKS Con KCLC St.	cordia KS Charles, MO	95.3 89.1	KELO-F KELT H	onoluly, HI M Centralia, Wash urora, MO M Sioux Falls, SD arlingen, TX	100.1 96.5 94.5	KGMI-FI KGMO-F	zeman, mont. 1 Bellingham, Wash M Cape Girardeau, I	Mo.
	KBBK-FM Boise, I KBBL Riverside, C. KBBY Ventura, Cai	117. 95.1	I KGLIGON	ron (I K	95.3 94.1	KEMB E KEMC E KENA-F	mmetsburg IA Billings MT M Mena AR	98.3 91.7 101.7	KGMR-F KGNC-FI	M Jacksonville AR M Amarillo, TX	100.7 100.3 97.9
	KBCM Sloux City, KBCO Boulder, CO	, CA 105.1 1A 95.5 97.3	KCLN-FM KCLU-FM KCLY Clay	Clarkston WA Clinton, lowa Rolla, MO Center KS	97. 7 94.3 100.9	KENE-F	M Toppenish, W M Portales NM M Las Vegas, NV	A 92.7 95.3 92.3		M Amarillo, TX M Dodge City, Kan. oulder, CO	88.5 97.7
1	KBCR-FM Steambo	at Springs 96.7	KCMK Gle	nwood Springs, CO	90.5 96.7	KENW-I	FM Portales NM Tahleguah, OK a Grande OR	89.5 101.7	KGON Po	rtland, OR	107.3 92.3
	KBCS Bellevue WA KBCT Fairfield, IA KBDG Turlock, CA KBDR Merced CA	A 95.9 90.9		Alexandria, Minn.	103.1	KEPU U	norago Springs CU	91.1 90. 5 89.5	KGOR OF KGOT AN	ichorage, AK orman. OK	99.9 101.3 106.3
	KBED Lake Provid	lence, LA 92.7 . CA . 103.3	KCMII See	ttle WA Isbad, N. M.	00.7 90.5	KEPO E KEPT S KEOR C	pmarin, Otali agle Point, OR hreveport, LA hica. Cal. M Dailas, TX llingham, Wash.	89.1 96.5	KGRA LE KGRC HE	roken Arrow, OK ake Charles, LA annibal, Mo.	92.1 103.7 92.9
	KBEK Lexington M KBEM-FM Minnea MN	10 196.3 polls 88.5			88.1 90.9 107.9	KERA-F KERI BE	M Dailas, TX Illingham, Wash. Orrington, WY	90.1	KGRD La KGRF Gr	is Cruces, N.M. eelev. Colo.	103.9
	KBEQ Kansas City KBEZ Tulsa, OK KBFC Forrest City	MO 104.3 92.9	I KUUU GO	Fort Collins, CO lesa, TX lumbia, MO	04.7 88.1 100.1	KESD B	rookings, S.D. linburg, TX M El Dorado Sprin		KGRM G	uburn, WA I Henderson, Tex. rambling LA	91.3
	KBFE Casa Grande KBFL Buffalo, MO	AR 93.5 e, AZ 105.5 90.3	KCPB Thos KCPI Albe	eveport, LA I usands Oaks CA irt Lea. MN	91.1 95.3	MO.	m El Dorado Sprin ort Worth, TX	93.9	KGSP Pa	ırlington, IA ırkville MO 1 Cedar City UT	107.3 90.3 90.1

U.S. FM STATION	S BY CALL LETTE	RS	
Call Location MHz	Call Location MHz	Call Location MHz	Call Location MHz
KGTN-FM Georgetown, TX 96.7 KGUL-FM Port Lavaca, TX 95.9	KJAB St. Paul MN 91.7 KJAK Slaton, TX 92.7	KLUE-FM Longview, Tex. KLUF-FM Lufkin TX 105.1	KNTU Denton, Tex. 88.5 KNUE Tyler, Tex. 101.5
KGUS Hot Springs AR 97.5 KGVH Gunnison, UT 91.7	KJAM-FM Madison, SD 103.1 KJAN-FM Atlantic, IA 103.7	KLUM-FM Jefferson City. Mo. 88.9	KNUJ-FM New Ulm, Minn. KNUS Dallas, Tex.
KGVW-FM Belgrade, Mont. KHAK-FM Cedar Rapids IA	KJAZ Stockton, CA 99.3 KJAZ Alameda, CA 92.7	KLUR Wichita Falls, Tex. KLVA Lake Village, AR 95.9	I KNVR Paradise, CA 96.7 1
98.1 KHAT Lincoln NE 106.3 KHAY Ventura CA 100.7 KHBM-FM Monticello AR 93.5	KJBS Bastrop, LA 100.1 KJCK-FM Junction City, KS 94.5	KLVE Los Angeles, CA 107.5 KLVL Pasadena, Tex. KLVN Newton, IA 95.9	KNWA Fayetteville AR 103.9 KNWC-FM Sioux Falls, S.D. KNWD Natchitoches, LA 91.7
KHBM-FM Monticello AR 93.5 KHBR-FM Hillshoro, Tex. 102.5	KJEF-FM Jennings, La. KJEL-FM Lebanon MO 103.7 KJEZ Poplar Bluff MO 95.5	KLVR Longview, WA 90.5 KLWD Sheridan, WY 96.5	KNWS-FM Waterioo, lowa KNX-FM Los Angeles, Calif.
KHBT Humboldt, lowa 97.7 KHCB+FM Houston, Tex. 105.7	KJFM Oceanside, CA 102.1 KJHK Lawrence, KS 90.7	KLWN-FM Lawrence, Kan. KLYD-FM Bakersfield, Cal. 94.1	KNXK Rochester, Minn. KNZA Hiawatha, KS 103.9
KHCC-FM Hutchinson KS 90,1	KJHP Healdsburg CA 92.9 KJIB Portland, OR 99.5 KJIL Bethany, OK 104.9	KLYF Des Moines IA 100.3 KLYK Longview, Wash. 105.5 KLYN-FM Lynden, Wash.	KOAP Portland, Ore, 91.5 KOAQ Denver, CO 103.5 KOAT-FM Albuquerque, N.M.
KHEN-FM Henryetta, Okla. KHEP-FM Phoenix AZ 101.5 KHEX Yuba City, CA 103.9	KJIL Bethany, OK 104.9 KJKJ Logan UT 94.5 KJLH Compton, CA 102.3		KOAX Dallas, Tex. 105.3
KHFI-FM Austin, Tex. KHFM Albuquerque, N.Mex.	KJLS Hays, KS 103.3 KJMC Richfield UT 93.7	KLYT Albuquerque, NM 88.3 KMAG Fort Smith AR 99.1	KOBC Joplin, MO 91.3 KOCM Newport Beach, Cal.
KHHS Hillsboro, KS 88.1 KHIB Durant OK 91.9 KHIG Paragould AR 104.9	KJML Sacramento, CA KJMO Jefferson City, MO 100.1	KMAQ-FM Maquoketa, Ia, KMAV-FM Mayville, ND 101.7 KMAX Sierra Madre, Callf.	KOCN Pacific Grove, Cal. 164.9 KOCV Odessa, Tex. KOCY-FM Oklahoma City, Okla,
KHIM Palestine, TX 98.3 KHIP Hollister, CA 93.5	KJNA Jena, LA 99.3 KJNP North Pole AK 100.3 KJOI Los Angeles, Calif. 98.7	KMBI-FM Spokane, WA 107.9 KMBQ Shreveport LA 93.7	KODA-FM Houston, Tex.
KHIS-FM Bakersfield, CA 96.5 KHKA Hillsboro, Mo. 88.9	KJOK Yuma AZ 93.1 KJOT Boise, ID 105.1	KMBR-FM Kansas City, Mo. KMCK Siloam Springs AR 105.7 KMCR-FM Phoenix AR 91.5	KOEL-FM Oelwein, IA 92.8 KOEZ Newton, KS 92.3 KOFA Yuma, Ariz. 91.5 KOFM Oklahoma City, Okla.
KHLB-FM Burnet TX 107.1 KHLS Blytheville AR 96.1	KIPW-FM Waynesville, Mo. KJRG-FM Newton, KS 92.3 KJSN Klamath Falls, OR 92.5	KMCR-FM Phoenix AR 91.5 KMCS Gatesville, TX 98.3 KMCV Conroe TX 106.9	KOFO-FM Ottawa, Kan.
KHNY-FM Riverside, CA 92.7 KHOB-FM Hobbs, N. M. KHOF Los Angeles, Calif.	KJUG Tulare, CA 106.7 KJVC Mansfield, LA 92.7	KMDX-FM Parker AZ 99.3 KMEL San Francisco, CA 106.1	KOGA-FM Ogallala NE 92.7 KOGM Opelousas, LA 107.1
KHOK Hoisington KS 100.9 KHOM Houma. LA 104.1	KJVG Mansfield, LA 92.7 KJYK Tucson AZ 94.9	KMEO-FM Phoenix AZ #8.8 KMET Los Angeles, Cal. KMEX Dallas, TX 100.3	KOHL Fremont, CA 89.3 KOHS Orem, UT 90.1 KOIL-FM Omaha, Neb.
KHOO Waco TX 99.9 KHOP Modesto, CA 104.1	KJZZ Anchorage AK 102.1 KKAI Kailua HI 96.3	KMEX Dallas, TX 100.3 KMFA Austin, TX 89.5 KMFB-FM Mendocino, Cal.	KOIT San Francisco, CA 96.5 KOJC Cedar Rapids, IA 89.7
KHOZ-FM Harrison AR 102.9 KHPA Hope, AR 104.9 KHPC Brownwood, Tex.	KKAJ Ardmore OK 95.7 KKBC Carson City, NV 97.3 KKBL Monett MO 95.9	KMFE Emmett ID 101.7 KMFI - FM Marshall, Mo. 102.9	KOKE-FM Austin, Tex. KOKF Edmond, OK 90.9
KHPE Albany OR 107.9 KHQ-FM Spokane, Wash.	KKCA Fulton, Mo. 97.7 KKDA-FM Dallas, TX 104.5	KMFM San Antonio, Tex. (s) KMFS Memphis, Tex. KMGC Dallas, TX 102.9	KOKR Newport, AR 105.5 KOLL-FM Gillette, WY 93.5 KOLM-FM Rochester, Minn.
KHRU Clayton, Mo. 88.1 KHSJ-FM Hemet, Cal. KHSS Honolulu, HI 97.5	KKDJ Fresno, CA 105.9 KKDQ Grand Forks, ND 92.9	KMGK Des Moines, IA 93.3 KMGO Centerville, IA 98.7	KOLU Pasco, WA 90.1 KOLY-FM Mobridge SD 99.5
KHSU-FM Arcata CA. 90.5 KHTC Helena Mont. 89.5	KKEA Hilo, Hawail 97.9 KKEG Fayetteville AR 92.1 KKEZ Ft. Dodge, IA 94.5	KMHD Gresham, OR 88.5 KMHI Walluku HI 95.1	KOME San Jose, Calif. 98.5 KOMR St. Louis, MO 89.3
KHTZ Los Angeles CA 97.1 KHUB-FM Fremont, NE 105.5	KKFM Colorado Springs, Colo. KKHI-FM San Francisco, Cal.	KMHT-FM Marshall, TX 103.9 KMIH Mercer Island, Wash. 90.1 KMIS-FM Portageville, MO 106.3	KOMS Lebanon, OR 103.7 KOMW-FM Omak WA 92.7 KONG-FM Visalia, Callf.
KHUI Honolulu, HI 93.9 KHUT Hutchinson KS 102.9 KHVR Bijou, Calif.	KKHJ Rapid City, SD 93.9 KKIQ Livermore, CA 101.7 KKKK Odessa, TX 99.1	KMIT Mitchell, SD 102.3 KMIX Turlick, CA 98.3 KMJ-FM Fresno, Callf.	KONG-FM Visalia, Calif. KONI-FM Spanish Fork, Utah KOOI Jacksonville, Tex. 108.8
KHYE Hemet CA 105.5 KHYL Auburn, CA 101.1	KKLP Pipestone, Minn. 98.7 KKLV Anchorage, AK 103.9	KMJD Castle Rock CO 92.1	KOOK-FM Billings MT 102.9 KOOL-FM Phoenix AZ 94.5 KOOM Benton, Ark. 107.1
KHYS Port Arthur TX 98.5 KIAG Sterling CO 96.7	KKND Jamestown, N.D. 95.5	KMJK Lake Oswego, OR 106.7 KMJQ Clear Lake City, TX 102.1 KMKF Manhatten K8 101.7	KOOO-FM Omaha NE 104.5 KOOV Copperas Cove, TX 103.1
KIAM-FM Wenatchee, WA 104.9 KIBC Ogallala, NE 93.5 KIBQ Idaho Falls, ID 91.9	KKNG Oklahoma City OK 92.5 KKOS Carlsbad, CA 95.9 KKQQ Clovis NM 99.1	KMLA Ashdown AR 103.9 KMMK Little Rock, Ark. KMMM-FM Muskogee, Okla.	KOPN Columbia, MO 89.5
KIBS-FM Bishop, Cai. KICB Ft. Dodge, IA 88.1	KKSS St. Louis, MO 107.7 KKTX Kilgore, TX 95.9	KMMI Mammoth Lakes CA 100.3	KOPR Butte MT 94.1 KORA-FM Bryam, TX 98.3 KORJ Garden Grove CA 94.3
KICC International Falls, MN 91.5 KICD-FM Spencer, Ia.	KKXX Bakersfield, CA 107.9 KKWB Breckenridge, Minn. 104.9 KKWS Wadena, Minn	KMOD Tulsa, Okla. KMOE Butler, MO 105.5	KORK-FM Las Vegas, NV KORM Orem, UT 107.1
KICE Bend OR 100.7 KICG lowa City, IA 100.7	KKWS Wadena, Minn. KKYS Hanford, CA 107.5 KLAQ El Paso TX 95.5	KMOO-FM Mineola, TX 96.7 KMOR Scottsbluff NE 92.9 KMOX-FM St. Louis, Mo.	KORQ Abliene, TX 100.7 KOSE-FM Osceola AR 98.1 KOSI-FM Denver, Colo.
KICN Spokane, WA 98.9 KICR Cedar Rapids, IA 102.9 KICS-FM Hastings, Neb.	KLAW Lawton, Okla, KLAY-FM Tacoma, Wash. KLAZ-FM Little Rock AR 98.5	KMPS-FM Seattle WA 94.1 KMPX San Francisco CA 98.9	KOSN-FM Thief River Fails, MN
KICT Wiehita KS 95.1	KLBJ-FM Austin IX 93.7 KLBK-FM Lubbock, Tex.	KMRC-FM Morgan City, LA 96.7 KMRE Dumas, TX 95.3	KOSO Patterson, Cal. 93.1 KOST Los Angeles, Cal. KOSU-FM Stillwater, Okla.
KID-FM Idaho Falis, Ida. KIDA Moorhead, MN 99.9	KLBM-FM La Grande, OR 89.3 KLBS-FM Los Banos CA 95.9	KMRJ Pittsburg, KS 96.9 KMRS-FM Morris, MN 107.5 KMSA Grand Junction, CO 91.3	KOSY-FM Texarkana, Ark. 102.5 KOTE Lancaster, Callf. 106.3 KOTN-FM Pine Bluff AR 92.3
KIEA Ethete, WY 89.7 KIEE Harrisonville, MO 100.7 KIFG-FM Iowa Falls, Ia.	KLCC Eugene, Ore. KLCD Decorah, IA 89.5 KLCL-FM Lake Charles, LA 99.5	KMSC Sioux City IA 88.3 KMSM-FM Butte MT 91.0	KOTN-FM Pine Bluff AR 92.3 KOTO Telluride, CO 91.7 KOUL Sinton-Corpus Christi
KIFM San Diego, CA 98.1 KIGC Oskaloosa, IA 88.7	KLCM-FM Lewiston, MT 95.9 KLCO-FM Poteau. Okia.	KMSR Sauk Centre, MN 94.3 KMSU Mankato, Minn, 90.5 KMTN Jackson, WY 96.9	TX 103.3 KOUR-FM Independence IA 95.3
KIIK Davenport IA 103.7 KIIQ-FM Manitou Springs, CO 102.7	KLCR Center TX 102.3 KLDN Eldon MO 92.7 KLEA-FM Lovington, N. M.	KMTP Mt. Pleasant, UT 91.1 KMTW Twin Falls, ID 96.5	KOVA OJAI CA 105.5 KOVF-FM Kearney, Neb. 91.3
KIIS-FM Los Angeles, CA 102.7 KIJV-FM Huron, SD 92.1	KLEE-FM Ottumwa, IA 97.7 KLEF Houston, Tex.	KMUL-FM Muleshoe, TX 103.1 KMUW Wichita, KS 89.1	KOVO Gallup NM 94.5 KOWN-FM Escondido, CA 92.1 KOXE Brownwood, TX 101.5
KIKK-FM Houston. Tex. 95,7 KIKM-FM Sherman, TX 96.7 KIKO-FM Globe AZ 100.3	KLEL San Jose, CA 89.3 KLEN-FM Cheyenne, WY 106.3 KLFD-FM Litehfield, Minn. 95.3	KMXT Kodiak, AK 100.1 KMXX Austin, TX 102.3	KOYE Laredo, TX 92.7 KOXI Columbus NE 101.1
KIKT Greenville, TX 93.5 KILA Henderson, Nev. 95.5	KLFM Ames, 1a. KLGA-FM Algona, lowa 92.7	KMYR Albuquerque. NM 99.5	KOYL-FM Odessa, TX 97.9 KOYY-FM EI Dorado KS 99.3 KOZE-FM Lewiston, Idaho KOZN-FM San Diego, CA 103.7
KILJ Mount Pleasant, Iowa 105.5 KILO Colorado Springs CO 93.9	KLGR-FM Redwood Falls, MN 97.7 KLGS Los Gatos, Ca!.	KMYT Merced, CA 97.5 KNAF-FM Fredericksburg, Tex. 101.1	KPAK EL Paso, Tex.
KILT-FM Houston, Tex. KIMI Kcokuk IA 95.3 KIMN-FM Denver, CO 98.5	KLGT Breckenridge, CO 102.3 KLHS Lewiston ID 89.1	KNAS Nashville, AR 105.5	KPAM-FM Portland, Ore. 97.1 KPAN-FM Hereford, Tex. 106.3
KINB Poteau, Okia. 107.3 KIND-FM Independence, Kan.	KLIL Ukiah, Cal. KLIN-FM Lincoln, Neb. 107.3 KLIR-FM Denver, Colo.	KNBT New Braunfels, Tex. 92.1	KPAR-FM Albuquerque, NM 100.3 KPAS El Paso, TX 93.9 KPAT Sioux Fall SD 97.3
KINF Dodge City KS 91.9 KING-FM Seattle, Wash. KINI Crookston, NE 96.1	KLIZ-FM Brainerd, Minn. 95.7 KLJC Kansas City, Mo. 88.5	KNBU Baldwin, Kan. KNBY-FM Newport AR 105.5 KNCC Tsalle, AZ 91.9	KPAY-FM Chico CA 95.1 KPBM-FM Poplar Bluff MO 94.5
KINK Portland, Ore. 101.9 KINL Eagle Pass, Tex. 92.7	KLLL-FM Lubbock, Tex. 98.3 KLLS Okmulgee, OK 94.3	KNCN Sinton, TX 101.3 KNCT-FM Killeen, TX 91.3	KPBS-FM San Diego, CA 89.5 KPBX-FM Spokane WA 91.1 KPCG Joplin, MO 102.5
KINN-FM Alamogordo NM 105.5 KINT-FM El Paso, Tex. 97.5 KINX Colorado Springs, CO 101.9	KLME Battle Mountain, NV 88.1 KLMF-FM Fabens TX 103.1 KLMO-FM Longmont, CA 104.3	KNCV Rochester, MN 101.7 KNCY-FM Nebraska City, NE 97.7	KPCR-FM Bowling Green, MO
KIOC Orange, TX 106.1 KIOG Mesa, AZ 104.7	KLMR-FM Lamar, CO 93,3 KLMT Marlin, TX 96.7	KNDR Mandani ND 104.9 KNDY-FM Marysville KS 103.1	KPCS Pasadena, Cal. 89.3 KPDJ Eureka, CA 92.3 KPDQ-FM Portland, Ore. 93.7
KIOI San Francisco, Cal. 101.3 KIOL Iola, KS 99.3 KIOO Porterville, Callf. 99.7	KLOA-FM Ridgecrest, Calif. KLOH-FM Pipestone, MN 98.7 KLOL Houston TX 101.1	KNED-FM McAlester, Okla.	KPEC-FM lacoma WA 90,9 1
KIOQ-FM Bishop, CA 100.7 KIOS-FM Omaha, Neh. 91.5	KLUM-FM Lompoc, Cal. 92.7 KLON Long Beach, Calif.	KNER Dallac Tev	KPFA Berkeley, Cal. 94.1 KPFB Berkeley, Calif. KPFK Los Angeles, Calif.
KIOW Forest City IA 192.3	KLOO-FM Corvalls, OR 106.1 KLOQ Lyons, KS 106.1 KLOR-FM Ponca City, OK 99.3	KNEV Reno, Nev. KNEW-FM Scottsbluff, Nebr. KNEX-FM MePherson KS 98.7	KPFM Kerrville TX 94,8 KPFT Houston TX 90.1
KIOV Sioux Falls, SD 104.7 KIOV Hanford, CA 103.7 KIOZ Laramie, WY 102.9	KLOS Los Angeles, Callf. 95.5 KLOV-FM Loveland, Colo.	KNFB Nowata, Okla. KNFM Midland, Tex. KNFO Waco TX 95.5	KPGA Pismo Beach, CA 95,3 KPGR Picasant Grove, UT 88.1 KPGY Ames, Iowa 91.9
KIQO Atascadero, CA 104.5	KLOZ E1 Paso TX 102.1 KLPC-FM Lompoc, CA 92.7 KLPH St. Louis MO 89.9	KNFO Waco TX 95.5 KNGT Jackson CA 94.3 KNHC Seattle, Wash, 89.5 KNHS Torrance, Cal.	KPIC Albuquerque, NM 91.5 KPIR Duluth MN 98.9
KIRK-FM Branson, MU 106.3	KLPI Ruston LA 69.1 KLPW-FM Union, Mo. 101.7	KNID Enid, OK 96.9 KNIK-FM Anchorage AK 105.5	KPJH Ft. Stockton, TX 94.3 KPLE Temple, TX 104.9 KPLL Pella, IA 103.3
KISM Bellingham, WA 92.9 KISR Fort Smith AR 93.7 KISS San Antonio, TX 99.5	KLQQ Sulphur, LA 100.9 KLRB Carmel-Monterey CA 101.7		KPLN-FM Plains, TX 90.7 KPLR-FM St. Louis, Mo.
KISW Seattle, Wash. 99.9 KIT-FM Yakima, WA 94.5 KITE-FM San Antonio, TX 104.5	KLRF Emporia, KS 104.9 KLRS-FM Mountain Grove,	KNIX-FM Phoenix AZ 102.5 KNJO Thousand Oaks, Callf. KNLU Monroe LA 88.7	KPLU Tacoma, WA 88.5 KPLV Pueblo CO 98.9
KITR Creston (A 101.7	MO 92.7 KLSD Lubbock TX 91.1	KNOB Long Beach, Cal. 97.9 KNOE-FM Monroe, LA 101.9	KPLV Pueblo CO 98.9 KPMT Oxnard, Cal. KPNW-FM Eugene, Ore. 99.1 KPOC-FM Pocahontas AR 103.9
KITY San Antonio, TX 92.9	KLSE-FM Rushford, MN 91.7 KLSN Brownwood TX 99.3 KLSR St. Louls MO 89.7	KNOF St. Paul, MN 95.3 KNOK-FM Ft. Worth, TX 107.5	KPOU San Francisco CA 89.5
KIXI-FM Seattle, Wash, KIXS-FM Killeen TX 93.3	KLSS Okmulgee, OK 94.3 KLTB Bolivar, MO	KNOT-FM Prescott, AZ 98.3 KNPR Las Vegas NV 89.5	KPOP-FM Roseville, Cal. 93.5 KPPL Lakewood, CO 107.5 KPPS-FM Parsons, KS 91.1
KIXV Brady TX 95.3 KIXX Watertown, SD 96.1 KIXY-FM San Angelo TX 94.7	KLTD Lampasas, TX 99.3 KLUB-FM Salt Lake City UT 97.1	KNPT-FM Newport, OR 102.5 KNTF Ontario CA 93.5 KNTO Witchita Falls TX 103.3	KPQ-FM Wenatchee, Wash. KPQX Havre, MT 92.5
MATTER Oan Angelo IA 344/		THE CONTRACT WITH TA 190-3	KPRA Paso Robies, Calif. 94.3

İ	Call	Location	MHz	Call	Location	MHz	Call	Location	MHz	Call	Location	MHz
	KPRM-F KPRM-F KPRM-F KPSR LG KPSR LG KPUB-F KPWD KPYNA-F KQALA KQALA KQALA KQDE-F	an Diego, CA M Park Raplds, ansas City, MO M Palm Springs ss Altos, Cal, oodwell, OK arson City NE M Pueblo, CO rairie View TX Plentywood, MT t. Pleasant, TX tlanta TX tlanta TX tlanta TX M Luverne MN Kinona, MN anton, MO edar Rapids, IA M waseea MN M swaeca MN M swaeca, ND	97.5 103.3 4, CA 88.3 91.8 91.7 97.3 99.9 91.3 100.1 (100.7 99.3 94.9 94.9 102.3 102.9	KRSM-F KRSP-F KRSY-F KRSY-F KRSY-F KRTUD S KRUZ L KRUZ L KRVM-F KRYN-F KRYN-F KRYN-F	M Russell, KS allas, TX M Los Alamos, N M Salt Lake City, buquerque, N.M. M Pipestone MN M Roswell, NM os Angeles CA an Antonio, TX as Voqas, NV anta Barbara, CA M Rio Vista CA ugene, OR M Lexington, Nel lardin, MT lardin, MT irksville, MO	, Utah 103.5 1 91.7 97.1 101.1 91.5 90.9 103.3 95.3 4 90.9 91.9	KSYM-F KSYN JO KTAK R KTAL-FI KTAP C KTAR-F KTAS P KTAV K KTAZ-FI KTBC N KTCH-FI KTCH-FI KTCS-FI KTCU-F KTCU-F KTCU-F KTCU-F KTCU-F KTCU-F KTCU-F KTCU-F KTCU-F KTCU-F KTCU-F	iverton, WY M Texarkana, Te: rete, NB M Phoenix AZ ndleton OR noxville IA M Sierra Vista, ecogdoches TX hly, KS M Wayne, NE ort Collins, CO M Minneapolis, I M Fort Smith Al M Fort Worth, T. amah NM afayette, LA lamath FAI	93.5 8. 98.1 103.9 98.7 107.7 92.1 AZ 100.9 104.9 104.9 93.3 N 97.1 8 98.7 88.7 99.9	KUVK-F KVCL-FF KVCM M KVCO CK KVCR SS KVDB-F KVEL-FF KVFG TI KVFM O KVFS VS KVGB-FF KVHS M KVIK TK	lendale, Cal. ladera, CA ampa, ID M Holdrege, Neb. aramie, Wyo. M Winnfield, La. Hontgomery City, oncordia, KS an Bernardino, Cal M Sioux Center IJ M Conway AR M Vernal, UT hiddaux LA gden, UT raaville, Cal. M Great Bend, KS ocattle, WA ravis AFB CA W Highland Park-	91.9 88.3 lif. A 94.3 105.1 92.7 91.5 95.5 96.3 91.1 101.5 91.1
	KQEZ SI KQFM P KQHU W KQHU W KQHU W KQID AH KQIX FI KQK1-F KQK4-F KQK4-F KQNM H KQOK H KQOK B KQOW B KQ KQOW B KQOW M San Francisco hafter, CA cortland, OR lampton, IA rankton SD illmar MN exandria LA dessa, TX rand Junction CM M Amarillo, TX M Bayou Vista, M Council Bluff allup, NM conoilulu, HI sallup, NM Golden UT ullman, WA M Golden VAlley hanute, KS ook Springs W cok Springs W	88.5 97.7 100.3 104.9 104.1 102.5 93.1 20 93.1 LA 95.3 F5.1 93.7 100.1 (01.9 104.9 104.9 104.9 104.9 104.9 104.9 104.9 104.9 104.9 104.9 104.9 104.9 104.9 104.9 104.9 104.9 105.5 96.5 104.9 104.9 105.5 106.9	KSAB K W KSAM F KSAM F KSAM F KSAM F KSAM F KSAM B	berty, MO 'alnut CA M Huntsville, Te M Huntsville, Te M Salem AR acogdoches, TX Irley ID Inton, IA Ission Vielo, CA M San Luis Obisp rryville AR Iorissant, MO hreveport, LA M Houston, MO M Santa Cruz, CA Obbs, NM L. Woth TX M Aberdeen, SD M Aberdeen, SD M Diego, CA	106.5 90-1 x. 1. 94.9 95.9 98.3 96.1 88.5 107.1 91.3 99.3 4 99.3 4 99.4 95.7 96.5 89.1 94.1 88.2 95.7 97.1 97.1 91.3 102.8 100.3 102.8	KTEQ RI KTFZ LI KTFC SI KTFM SI KTFM SI KTHO-FF KTHO-FF KTHO-FF KTLO-FF KTLO-FF KTLO-FF KTLO-FF KTLO-FF KTLO-FF KTLO-FF KTLO-FF KTO-FF	M Ada, OK Paso, Tex, apid City, S.D. abock, TX oux City, Ia. an Antonio TX ulsa OK ort Dodge, IA M Tahoe Valley, und Lakes MN M San Rafael, Ca M Minneapolis, mington MO pringhill, LA M Twin Lakes, M Mountaln Hom M Tahlequah, Oki olumbus NE cennett MG M Santa Barbara ledford OR M Jonesboro, La. M Jonesboro, La. M Jonesboro, La. M Belton, Tex. uneau AK M Big Bear Lake acoma, Wash M Clovis, N.M. Savenworth KS M Clovis, N.M. M Sanda, S. M Clovis, N.M. M Sanda, S. M Clovis, N.M. M Sanda, S. M Clovis, N.M. M Sanda, S. M Clovis, N.M. M Savenworth KS	88.5 88.1 101.1 102.7 103.3 92.1 CA 103.3 92.1 100.1 11f. 100.9 11nn. 97.1 92.7 1A 105.5 16 AR 98.9 98.9 Cal. 98.9 Cal.	TOX. KVIM C KVIP-FD KVLU B KVLU F KVMG F KVMG F KVMT V KVMT V KVMT V KVMT V KVMT V KVMT V KVPI-F KVPI-F KVRF F	oachella, Cailf. W Redding CA etroit Lakes, MN eaumont TX M Fallon, Nev. M Cochran, Ga. evada City CA all. CO M MoAllen, Tex. maha NE air field lowa d Ville Platte, La M Fresno, CA d Saint Color M Santa Rosa CA ermillion, S.D. M Santa, Callf. M Sonora, TX. M Cabool, Moe essent City, CA thelen, CA sun City, AZ vaverly, IA m Watertown, S. M Catoro, S. Amarillo, TX M Watertown, S. M Catoro, S. M Catoro, Catoro, S. Second City, CA thelena, CA sun City, AZ vaverly, IA marillo, TX M Watertown, S. Sugone, OR Eugene, OR	93.7 98.1 95.3 91.3 89.5 104.7 96.9 90.7 89.3 91.5 92.1 97.9 108.3 105.3 105.3 105.3 106.3 105.3 105.3 106.3	
	Y Y TEFF - FERSO CEFF NO BEF METERS WAAAABBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	ulsa, OK M Salinas, CA armington, NM M Sallisaw, Okl Ketchikan, AK M St. Peter, MY endleton, OR olorado Springs, tochester, MN turgis, SD zona, TX M St. George U M Spearman TX M Colorado Spri I Berkeley CA 10nroe, LA 7 Colorado Spri I Berkeley CA 10nroe, LA 7 Colorado Spri I Berkeley CA 10nroe, LA 7 Colorado Spri M Sungan, MT Oberly, MO M Grand Junetlo ireenfield, MO M Owatonna, M M Superior, NB M Grand Island.	96.5 103.9 96.9 96.9 105.9 105.5 105.5 90.9 104.1 101.7 93.1 94.3 17 90.1 90.1 90.9 106.1 106.1 106.1 104.9 92.9 104.9 92.9 104.9 92.9 104.9 92.9 104.9 93.5 104.9 92.9 104.9	KSHE CU KSHI LH KSHI LH KSHU HH KSID-FH KSIU-FH KSIW-FH KSIC-FH KSIC-FH KSIS SA KSIS S	restwood, MO ni NM untsville TX M Sidney, NE eatello, ID M Woudward, OH M Stoekton, Calif. mestown, ND inneapolis, Minn. n Jose, CA M Collegeville, M n Jose, Ual. llegeville, MN n Jose, Ual. llegeville, MN nchorage AK alima, Kan. dWn Valley, II ena, AR uucanson, Kan. eMinnyllie OR minole OK L Louis, MO eval KS L Louis, MO eval KS summond, LA M Santa Maria, (A	105.7 94.7 90.9 89.3 90.9 95.3 94.9 69.5 89.5 91.1 90.7 89.1 103.1 105.7 102.1 90.3 90.3 90.5 91.5 91.5 90.3 90.7 90.3 90.7	KTRU H KTRX T KTRY F KTSC-F KTSM F KTSM H KTOT-F KTSU H KTTL D-F KTTL D-F KTW-	Arkio-Rockport M M Bastrop, LA M Pueblo, Colo. M El Paso, Tex. Ansas City, Mo. outson TX M Big Bear Lak dige City KS M Springfield, M Springfield, M Springfield, M Sastlie, Wash. M Jasper, TX M Anoka MN M Jasper, TX Acoma, Wash. Pringfield, Mo. ort Worth TX M Lubbock, Tex. yler, TX M Windsor, CO ayetteville AR M Mindsor, CO ayetteville AR M Montrose, CO ewport WA M Montrose, CO ewport WA M Montrose, CO ewport WA iverside, Cal. incolin, Neb.	91.7 93.5 84.3 89.5 99.9 90.9 CA 101.7 93.9 0. 90.3 107.9 102.3 98.7 101.5 102.1	KWBBUBAR KWWENTNERS KWWBBUBAR KWWWWWKKKWWWWWWKKWWWWWKKWWWWWKKWWWWWKKWWWHHWWWKKWWWWKKWWWWKKWWWWKKWWWWKKWWWWKKWWWWKKWWWW	M Beatrice, NE M Boone, IA orrison, Colo. Vaco, TX M Goden, Utah Valla Walla, Was Villoex, AZ M Richfield, MA dabel OK West Des Moines, M Seguin, Tex. Damden AR 'Ulsa OK M Weatherford, Cl oinroe, LA ipringfield, MO ruson AZ M San Angelo, T M Abernathy, Te; Ulsa, OK 'Orrost City AR irenham, TX M Sait Lake City dmund, Okla. V, Sacramento, CA FM Altus OK	92.9 98.9 98.1 107.1 94.3 In. 90.5 90.5 90.5 101.3 101.3 101.3 101.3 101.3 101.3 101.3 101.3 101.3 101.3 107.1
	KRENDER KRROCEFFS	iarthage, MO M Dunean, OK u!head City, A; ake Havasu City xake Havasu City xburg ID Dorado AR larion, IA oomsville TX onte Rio, CA M Albuquerque, M Albany, OR inoxville IA mouston, TX FM Shreveport L Frovo, UT FM Osage Beach was City, IA M Neah Bay, M Mt Vernon, I deno, NV bes Moines, IA M Kearney-Hole ka urora, NE M Robstown, T M Rochester, MI M Sheridan WY M Abbeville, L ionora CA	104.9 102.3 2	KSMPL KSNDS KNDS K	kike Charles, LA M San Diego, CA M San Diego, CA M San Diego, CA shland, Ore, int Lookout, MO ot Springs AR bble Eeach CA aremont, Calif, 1 Stillwater, Okla M Olboll, Tex. spen, Colo, ilorado Springs, M Salmon I D eward, NB sinta Monica, Calif eno, Nev. aey, CA alispell, MT M Coleman, TX M Sterling, CO keston, MO 1 Annelo, TX	90.1 91.1 94.3 96.1 107.9 97.3 90.1 91.7 96.7 91.5 8. 98.5 98.5 100.9 98.5 107.1 98.7 97.7 97.7	KUDUL KUDUL KUDUL KUDUL KUDUL KUDUL KUDUL KUTON KUUE KUUE KUUE KUUE KUUE KUUL KUUL KUUL	ansas Gity, KS as Vegas, NV a-Oxnard, Calif. M Spokane, Was alt Lake City, Ut akima, WA tisscula, MT alveston, TX ellingham, WA ouston, TX ellingham, WA ouston, TX consevelt, UT ernal UT cacaville, CA ossevelt, UT carnal UT cacaville, CA ossevelt, UT consevelt, UT consevelt, UT consevelt, UT consevelt, UT consevelt, UT consevelt, UT cacaville, CA ossevelt, UT macaville, CA ossevelt, UT cacaville, CA ossevelt, UT cacaville, CA ossevelt, UT cacaville, CA consevelt, UT cacaville, CA acaville, CA acaville, CA da Calie del, Calie acaville, Calie cacaville, CA c	ah (106.3 89.1 106.5 89.3 90.9 89.3 95.3 91.7 92.3 94.5 9.5 9.9 1.0 89.7 1.1 89.7 1.2 89.7	KWKKKOGF-N-N-N-N-KWWKKKOGF-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N	ioux City, IA M Santa Ana, Cali Tington, TX M Abilene, Tex. M Abilene, Tex. M Abilene, AK M Ageneria AK M Ageneria AK M Ageneria AK M Pratt KS Asan Angelo, Tex. M Idland, TX St. Louis, Mo. St. Louis, Mo. M Davenport, Ia M Worthington, M Ageneria AG M Gunnison, M M Candidan, TX M Candidan, TX M Candidan, TX M Candidan, TX M Candidan, TX M Candidan, TX M Candidan, TX M Candidan, TX M Worthington, M M Candidan, TX M Waren, AR M Gunnison, Colo Gunnison, Colo Gunnison, Colo Gunnison, Colo Gunnison, Colo M Sarand, CA M Springfield, M M Springfield, M M Candidan, TX M Waron, TX M Waron, TX M Springfield, M M Springfield, M M Mayon TX M Waco, Tex.	90.3 16. 94.9 93.3 102.3 102.1 107.1 91.5 93.1 107.1 103.3 90.7 Minn 106.5 91.9 105.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90
	KROQ-T KRPC-O KRPL-F KRPK-I KRQC-T KRRC-A KRRV-A KRSA-F KRSH-C KRSH-C KRSH-C KRSH-C	aeramento, CA M Pasadena, C Fyler, TX watonna M N M Moscow ID Rochester, MN ompoc CA ueson, AZ ortland, Ore. rdmore, OK lexandria, LA M Salinas-Ment oseburg, Ore. verland, MO inneapolis, Minn urango, CO	94.5 106.7 90.5 103.9 89.9 100.9 93.7 89.3 92.1 100.3 terey CA 100.7	KSTM A KSTM-FI KSTM-FI KSTN-FI KSTP-FI KSTP-FI KSUB-F KSW-F KSW-F	rangell, AL pache Junction A M Stockton, Calif gana GU M Minneapolis, I unon City, CO M Cedar City, UJ	f. 107.3 95.5 Minn. 103.9 F 92.5	KUOI-FI KUOP S KUOR-F KUOP-FI KUPI-FI KUPI-FI KURI-FI KURI-FI KUSD-F KUSD-F KUSN-F KUSN-F	onolulu, Flawali Moscow, Ida. tockton, Catif. M Rediands, Caf seattle, Wash. M Tempe AZ M Idaho Falls, I ortland OR acoma, WA M Billings, Mon M Brookings, Of M Vermillion, S. M Vermillion, S. M St. Joseph, M. anta Cruz, CA M Logan, Utah Austin, Tex.	98.5 90.1 t.	KWYD S KWYK A KWYN-F KWYT-F KXBQ O KXCV M KXDD I	in water, 10a. Ligyton, No. an Clemente CA M Columbia, Mo. Stephenville, Tex. M Cathedral City Security CO Aztec, NM M Winne, SD M Salinas, CA ntario, OR aryville, Mo. Tichland, WA M Waterloo, lowa nta Maria, Cal. reata CA	105.5 94.9 92.7 93.7 100.7 96.1 90.8

0.0. 1	Cult transfer Mile	Call location MHz	Call Location MHz
Call Location MHz	Call Location MHz	Call Location MHz	Call Location MHz
KYGR Grand Rapids, MN 98.7 KXIQ Bend, OR 94.1	WAJP Joliet, III. WAJR-FM Morgantown, W.Va.	WBHR Belfair, OH 88.7 WBHS Brunswick ME 91.1 WBIE Marietta, GA 101.5	WCER-FM Charlotte, Mich. WCFM Williamstown, Mass.
KXIT-FM Dalhart, Tex. KXJK-FM Forrest City, Ark.	WAKG Danville VA 103.3 WAKM Bedford, Pa. WAKN.FM Aiken S.C.	WBIE Marietta, GA 101.5 WBIF Bedford, IN 105.5 WBIM-FM Bridgewater MA 91.5	WCFR-FM Springfield, Vt. 93.5 WCFW Chippewa Falls. Wis. 105.5 WCHC Worchester, MA 89.1
KXKX Denver, CO 95.7 KXKZ Ruston, LA 107.1 KXLE-FM Ellensburg WA 95.3	WAKN-FM Aiken, S.C. WAKO-FM Lawrenceville, III. WAKQ Russelville, KY 101.1	WBIR-FM Booneville, MS 99.3 WBIR-FM Knoxville, Tenn.	WCHK-FM Canton, Ga. WCHN-FM Norwich, N.Y.
KXLU Los Angeles, Cal. 68.9 KXLY-FM Spokane, Wash.	WAKS-FM Fuquay-Varina,	WBIV Wethersfield Township, N.Y. 107.7	WCHO-FM Washington Court House, O.
KXMS Alice TX 92.1 KXO-FM El Centro, CA 107.5 KXOA Sacramento, Calif.	NC 103.9 WAKW Cincinnati, OH	WBIZ Eau Claire WI 100.7 WBJB Lineroft NJ 90.5	WCHQ-FM Camuy, P.R. 102.9 WCHR Trenton, N.J. 94.5 WCHW-FM Bay City M! 91.3
KXOJ Sapulpa, OK 100.9	WAKX-FM Duluth, MN 98.9 WALD-FM Walterboro, S.C. 100.9 WALF Alfred NY 89.7	WBJC Baltimore, Md. WBJH Trenton, N.J. WBJW Orlando, FL 105.1	WCIB Falmouth, Mass. 101.9
KXOL Fort Worth TX 99.5 KXOX-FM Sweetwater, TX 96.7 KXOW-FM Hot Springs, AR 106.3	WALK-FM Patchogue, N.Y. WALL-FM Middletown, N.Y.	WBKE-FM North Manchester, Ind. 89.5	WCIG Mullins, SC 107.1 WCII-FM Washington, IA 95.3
KXPR Sacramento CA KXQR Fresno, Calif.(s)	WALM-PM Marshall, Mich. WALP Corinth, Miss. 90.5	WBKF Maccienny FL 92.1 WBKR Owensboro KY 92.5	WCIL-FM Carbondale, 111. 101.5 WCIR-FM Beckley, W.Va. 103.7 WCJM W. Point, Ga.
KXRA-FM Alexandria, Minn. KXTC Glendale AZ 92.3	WALR-FM Union City, TN 104.9 WALT Meridian, Miss. 97.1 WALX Seima, AL 100.9	WBKT Brockport, NY 90.5 WBKV-FM West Bend, Wis.	WCKO Pompano Beach, FL 102.7 WCKR Hornell NY 92.1
KXTR Kansas City, Mo. KXTZ Henderson, NV 94.1	WAMC Albany, N.Y. WAMF Tallahassee, FL 90.5	WBKW Beckley, W.Va. WBKY Lexington, Ky. WBKZ Glen Burnie, MD 95.9	WCKS Cocoa Beach, Fla. WCKW La Place, La,
KXXA Little Rock, AR 95.7 KXXI Ft. Smith, AR 160.9 KXXK Chlekasha OK 105.5	WAMI-FM Opp AL 102.3 WAMO Pittsburgh, PA 105.9	WBLD Orenard Lake, MI 59.3 WRIE-FM Batesville, MS 95.9	WCLA-FM Claxton GA 107.1 WCLD-FM Cleveland MS 103.9 WCLE-FM Cleveland, Tenn.
KXXX-FM Colby KA 190.3 KXXY Oklahoma City OK 96.1	WAMP-FM Toledo, OH 88.3 WAMR-FM Venice, FL 92.1	WBL! Patchogue NY 106.1 WBLK-FM Buffalo, N.Y.	WCLG-FM Morgantown,
KYA-FM San Francisco CA 93.3 KYBO Yakima, WA 98.3	WAMU-FM Washington, D.C. WAMX Ashland, KY 93.7 WAMZ Louisville, KY 97.5	WBLM Lewiston-Auburn ME 107.5 WBLR-FM Batesburg, S.C.	WV 100.1 WCLH Wilkes-Barre, Pa. 90.7 WCLI-FM Corning, NY 106.1
KYBS Livingston, MT 97.7 KYDZ Cody, WY 90.1 KYEA West Monroe, La. 98.3	WANB-FM Waynesburg PA 90.7	WBLS New York NY 107.5 WBLX Mobile AL 92.9 WBLY-FM Springfield. Ohlo 102.9	I WCIK Atlanta GA 91.8 I
KYEA West Monroe, La. 98.3 KYEZ Salina, KS 93.7 KYFM Bartlesville, Okla. 100.1	WANS-FM Anderson, S.C.	WBMI West Branch, MI 105.5 WBMP Elwood, IN 101.7	WCLL Chillicothe, IL 94.3 WCLO-FM Janesville, WIs. WCLR Skokie, III. 101.9
KYKK Humble City NM 94.1 KYKR-FM Port Arthur, TX 93.3	WAOR Niles, MI 95.3 WAOV-FM Vincennes, Ind. WAPC-FM Riverhead, N.Y.	WBMR Telford, PA 89.7 WBMT Boxford, MA 88.3	WCLT-FM Newark, Ohlo WCLV Cleveland, O. WCLW-FM Mansfield, Ohlo
KYKX Longview, TX 185.7 KYLO Davis, CA 185.5	WAPC-FM Riverhead, N.Y. WAPI-FM Birmingham AL 94.5 WAPS Akron, Ohio	WBMU-FM Asheville, NC. 91.3 WBNB-FM Charlotte Amalle, V.I. WBNC-FM Conway, N.H.	WCLX Boyne City, Mt 93.5 WCMC-FM Wildwood, N.J.
KYLT-FM Missoula, MT 100.1 KYMC Baliwin MO 89.9 KYMS Santa Ana, Cal.	WAQA Grasonville MD 103.1 WAQT Carrolton, AL 94.1	WBNL-FM Boonville, Ind. WBNO-FM Bryan, Ohlo 100.9	WCME-FM Brunswick, Maine WCMF-FM Rochester, N.Y.
KYND-FM Pasadena TX 92.5	WAQX Maniius NY 95.3 WAQY Springfield MA 102.1	WBNQ Bloomington, III. WBNT-FM Oneida, Tenn. 105.5	WCMJ Chester, S.C. 99.8 WCML-FM Alpena, MI 91.7
KYOR-FM Blythe, CA 100.3 KYSM-FM Mankato, Minn.	WARC Meadville, Pa. WARG Summit, IL 88.9 WARP Due West, S.C. 91.7	WBNY Buffalo, N.Y. WBOC-FM Sallsbury, Md. 104.7 WBOE Cleveland, Ohio	WCMN-FM Arecibo, P.R. WCMO Marietta, Ohio WCMD-EM Bine City MN 02 1
KYTE-FM Portland, OR [8].1	WART Plainfield, IN 98.3 WARU-FM Peru, Ind.	WBUP-PM Pensacoia, PL 101.5	WCMP-FM Pine City, MN 92.1 WCMQ-FM Hialeah, FL 92.1 WCMS-FM Norfolk, Va. WCMT-FM Martin, Tenn. 101.7
KYTN Grand Forks ND 94.7 KYUF Uvalde, TX 95.3 KYUU San Francisco, CA 99.5	WARY Mt. Kisco NY 88.5 WASH Washington, D.C.	WBOR Brunswick, Maine WBOS Brookline-Boston MA 92.9	i WGMU-PM MT. Pleasant. Wieh. I
KYXY, San Diego CA 96.5 KYYA Billings MT 93.3	WASK-FM Lafayette, Ind. WASL Dyersburg, TN 101.1 WASU-FM Boone NC 90.5	WBPM Kingston, NY 94.3 WBPR Barrington, IL 88.5	WCMX Ft. Wayne, Ind. 101.7 WCNA-FM Scottsborn Al. 98.3
KYYS Kansas City, MO 102.1 KYYX Seattle, WA 96.5	WATD Marshfield, MA 95.9 WATM-FM Atmore AL 104-1	WBPV Chariton MA 90.1 WBPZ-FM Lock Haven, Pa. WBQM Decatur, AL 91.7	WCNB-FM Connersville, Ind. WCNH-FM Quincy, Fla. WCNI New London CT 91.5
KYYY Bismarck ND 92.9 KYZM-FM Cape Girardeau, Mo. 102.9	WATO-FM Oak Ridge, Tenn. WATP-FM Marion, S.C. 94.3	WBRB-FM Mt. Clemens, Mich. WBRE-FM Wilkes-Barre, Pa.	WCNL-FM Newport, NH 101.7
KZAG Dallas TX 96. i KZAM-FM Bellevue, WA 92.5	WATZ-FM Almena, Mich. 93.5	WBRK-FM Pittsfield, Mass.	WCOH FM Newson Co
KZAP Sacramento, Cal. 98.5 KZEL-FM Eugene, Ore.	WAUG-FM Augusta, Ga. WAUN Kawaunee WI 92.7 WAUP Akron, Objo	WBRN-FM Big Rapids, Mich. WBRQ Cidra PR 97.7 WBRS Waitham, Mass.	WCOL-FM Columbus, Ohio WCOM-FM Urbana, O. WCON-FM Cornella, Ga.
KZEN Seaside CA 107.1 KZEV Clear Lake IA 103.1 KZEZ St. George UT 93.5	WAUP Akron, Ohio WAUR Aurora, III. 107.9 WAUS Berrien Springs, Mi 90.9	WRRH Providence RI 95.5	WCOS-FM Columbia, S.C. WCOU-FM Lewiston, Maina
KZFM Corpus Christi. Tex.	WAVA Arlington VA 105.1 WAVM Maynard, MA 91.7	WBSF Biddeford ME 91.7 WBSJ Ellisville MS 102.3	WCOV-FM Sparta, Wis.
KZIP Amarillo, TX 98.7 KZIQ-FM Ridgecrest, CA 92.7	WAVR Waverly, NY 102.3 WAVV Vevay-Warsaw IN 95.9 WAVW Vero Beach FL 105.5	WBSL Shemeid MA 91./ WRSN.FM New Orleans 1 A 89 I	WCPA-FM Clearfield, Pa. WCPG-FM Houston, Miss. 93.3 WCPE Raleigh, NC 89.7
KZLO Puebio, CO 100.7 KZNN Rolia MO 105.3	WAXI Rockville-Clinton IN 104.9 WAWA-FM Milwaukee, Wis.	WBTF Attica, NY 101.7	WCP! Wheeling, WV 98.7 WCPL-FM Pageland, SC 102.3
KZOK-FM Seattle, WA 102.5 KZOM Orange TX 104.5 KZOZ San Luis Obispo, CA 93.3	WAWK-FM Kendaliville, Ind. WAWW Murray, Ky. WAWZ-FM Zarephath, N.J.	WBTO-FM Linten, Ind. 93.5 WBTR-FM Carrellton, Ga. 92.1	WCRB Waltham, MA 102.5 WCRC Effingham, 1L 95.7
KZSC Santa Cruz CA 88.1 KZST Santa Rosa, Calif. 100.1	WAWZ-FM Zarepnath, N.J. WAXO Kenesha, Wis. WAXU-FM Georgetown KY 103.1	WBUF Buffalo, N.Y. WBUK Columbus, O. 96.3	WCRD Bluffton, Ind. WCRF Cleveland, OH 103.3 WCRH Williamsport, MD 90.5
KZSU Stanford, CA 90.1 KZUE Oklahoma City, OK 102.7	WAXX Eau Claire WI 104.5 WAXY Ft. Lauderdale, Fla. 105.9	WBUR Boston, MA 90.9 WBUT-FM Butler, PA 97.7 WBWB Bloomington I,N 96.7	WCRN Charlotte Amalle, VI 101.1
KZUM Lincoln NE 89.5 KZUN-FM Opportunity, Wash. KZZL Lemars, 1A 99.5	WAYD-FM Ozark AL 103.9 WAYL-FM Minneapolis, MN 93.7	WBWC Berea, OH 88.3 WBXB Edenton, NC 100.1	WCRS-FM Greenwood, SC 96.7 WCRT Danville, IN 107.1
KZZQ Golden Meadow, LA 94.3 KZZY San Antonio TX 100.3	WAYV Atlantic City, NJ 95.1 WAYZ-FM Waynesboro, Pa. WAZI Morristown TN 95.9	WBXL Baldwinsville, NY 90.5 WBYG Kankakee, IL 99.9 WBYM Bayamon, P.R.	I WCSB Cleveland, OH 89.3 I
KZZZ Kingman AZ \$2.7 WAAF Worcester, Mass. WAAL Binghamton NY \$8.1	WAZY-FM Lafayette, IN 96.5 WBAB-FM Babylon, N.Y.	WBY M Bayamon, F. n. WBYO Boyertown, Pa. WBYS-FM Canton. III. 98.5 WBYQ Hendersonville TN 92.1	WCSD-FM Warminster, PA 89.9 WCSE Asheboro NC 92.3 WCSG Grand Rapids, M1 91.3
WAAL Binghamton NY 99.1 WAAM-FM Parkersburg, W.Va. WAAZ-FM Crestview, Fla	WBAD Leiand MS 94.3 WBAG-FM Burlington-Graham.		WCSI-FM Columbus, Ind. WCSI-FM Morris, IL 104.7 WCSM-FM Celina, O.
WAAM-FM Parkersburg, W.Va. WAAZ-FM Crestview, Fla. WABB-FM Mobile AL \$7.5 WABD-FM Ft. Campbell, Ky.	N.C. 93.9 WBAI New York, N.Y. WBAL-FM Baltimore, Md. WBAU Garden City NY 90.3	WBZ-FM Boston, Mass. WBZA-FM Giens Falis, NY 107.1 WBZF Richmond, KY 101.7	WCSQ Central Square, NY 89.3
WABE Atlanta, Ga. WABF-FM Fairhope AL 82.1	WBAW-FM Barnwell, S.C.	WBZI Xenia, O.	WCSS-FM Amsterdam, NY 97.7 WCST-FM Berkley Springs,
WABK-FM Gardiner ME 104.8	WBBA-FM Pittsfield, III. WBBC Blackstone, VA 93.5 WBBF Rochester, NY 92.5	WCAK Catiettsburg KY \$2.8 WCAL-FM Northfield Mins.	WCSS-FM Amsterdam, NY 97.7 WCST-FM Berkley Springs, WCSU-FM Wilberfore. 0. WCSU-FM Crossville, Tenn. 99.3
WABU-FM Waynesboro MS 105.5 WABR-FM Tifton, GA 10.5 WABX Detroit, Mieh. 99.5 WABZ-FM Albemarle, N.C. WACC Arnold, MD 99.9 WACE Parts III	WBBI-FM Abingdon, Va. WBBM-FM Chicago, III. WBBO-FM Forest City, N.C.	WCAO-FM BaitImore, MD 102.7 WCAR-FM Detroit, M1 92.3 WCAS Knowille, Tenn.	WCTM-FM Eaten, Ohio 92.9
WABZ-FM Athemarte, N.C. WACC Arnold, MD 89.9 WACE Paris IL 98.5		WCAS Knoxville, Tenn. WCAU-FM Philadelphia, PA 98.1 WCAV Brockton, MA 97.7	WCTO Brentwood, N.Y. 94.3 WCTS-FM Minneapolis-St. Paul,
WACI Freeport, III. 92.1	WBBQ-FM Aggusta, va. WBBY Westerville, 0. 103.9 WBCE Believille, IL 89.7 WBCH-FM Hastings, Mich. 100.1 WBCI Williamsburg VA 96.5 WBCI Fort Wayne, IN 90.3 WBCM-FM Bay City, Mich.	WCBC Memphis, Tenn. 91.1 WCBE Columbus, Ohio WCBK-FM Martinsville, Ind.	WCTT-FM Corbin, Ky.
WACM Freeland, PA 103.1 WACR-FM Columbus, MS 103.9	WBCI Williamsburg VA 96.5 WBCL Fort Wayne, IN 90.3	102.3	WCTX Palmyra, Pa. 92.1 WCTY Norwich, CT 97.7 WCUC-FM Clarion, PA 91.7 WCUF Akron, Ohio
WACT-FM Tuscaloosa AL 105.5 WADB Point Pleasant, N.J. 95.9	WBCN Boston, Mass.	WCBL-FM Benton, Ky. WCBN Ann Arbor MI 89.5 WCBS-FM New York, N.Y.	i WCIII Cultenner VA [D3 []
WADB Point Pleasant, N.J. 95.9 WADI Corlnth, MS 95.3 WADM-FM Decatur, Ind. WADV Buffalo, N.Y. 106.5 WAEE Chicago IL 88.1 WAEL-FM Marleao, P.R. 96.1 WAER Syracuse, N.Y. WAEY-FM Princeton WV 95.9 WAEZ-Akron OH 97.5 WAFB-FM Baton Rouge, La. 96.1 WAFC Clewiston, FL WAFG Ft-*Lauderdale FL	WBCO-FM Bucyrus, O.	WCBU Peorla IL 89.9 WCBW Columbia, III. WCBY-FM Cheboygan, Mich. 105.1	WCUP Tifton, GA 100.3 WCUW Worcester MA 91.3
WAEE Chicago IL 88.1 WAEL-FM Marleao, P.R. 96.1	WBCS-FM Milwaukee WI 102.9 WBCT Columbia, SC 90.5 WBCX Gainesville, GA 89.1 WBCY Charlotte NC 107.9 WBCY Charlotte NC 107.9		WCVH Flemington, NJ 90.5 WCVI Jefferson OH 90.9 WCVM Middlebury, VT 100.9
WAER Syracuse, N.Y. WAEY-FM Princeton WV 95.9	W D D C Municipality, IN 100.5	WCCE Bules Creek, NC 90.1	WCVO Gahanna OH 104.9
WAFE AKTON UH 97.5 WAFB-FM Baton Rouge, La. 98.1 WAFC Clewiston F1 108.2	WBDG Indianapolis, Ind.	WCCH Helyoke, MA 89.5 WCCI Savanna IL 100.1	WCVT Towson, MD 89.7 WCVU Naples-Ft. Meyers, FL 94.5
WAFI Milford DF 97.7	WBDT Blueneld, WV 100-5 WBEA Elyria, O. WBEN-FM Buffalo, NY 102.5 WBES Charleston WV 96.1 WBET-FM Brockton, Mass. WBEU-FM Beaufort, S.C. WBEX-FM Chillicothe, Ohlo	WCCK Frie. Pa. 103.7	WCWC-FM Ripon, Wi 95.9
WAFM Amory, MS 95.3 WAFR Durham, NC 90.3	WBET-FM Brockton, Mass. WBEU-FM Beaufort, S.C.	WCCM-FM Lawrence, Mass. WCCN-FM Neillsville, Wls. WCCO-FM Minneapolls, Minn.	WCWM Williamsburg, Va. WCWP Brookville, N.Y. WCWS Wooster, O. WCWT-FM Centerville, Ohio 89.5
WAFT Valdosta, GA 10!.1 WAGI-FM Gaffney, SC 105.3 WAGO Athens GA 104.7	WBEX-FM Chillicothe, Ohlo WBEZ Chicago, III.	WCCQ Crest Hill, IL 98.3	
WAGQ Athens, GA 104.7 WAHM Amherst, Mass. 89.5 WAHR Huntsville AL 99.1	WBEZ Chicago, III. WBFG Detroit, Mich. WBFH Bloomfield Hills, MI 88.1 WBFM Seneca, S.C.	WCCS Central City PA 101.7 WCCW-FM Traverse City, Mich. WCCX Waukesha, WI 88.1	WCXL Kettering, OH 88.7 WCXR-FM Appleton, WI 105.7 WCYC Chieago, III. 88.7 WCYN-FM Cythiana, Ky. 102.3
		WCDB Albany, NY 90.9 WCDE Elkins, WV 90.3	WCYN-FM Cythiana, Ky. 102.3 WDAC Lancaster, Pa.
WAIA Miami FL 97.8 WAIA Miami FL 97.8 WAIC Springfield, Mass. WAID Clarksdale, MS 106.3 WAIF Cincinnati, OH 88.3	WBGM-FM Tallahassee, Fla. WBGO Newark, N.J.	WCDL-FM Carbondaie, Pa. 94.3 WCDR-FM Cedarville, O. WCEA-FM Immokalee FL 95.8	WDAC Lancaster, Pa. WDAI Chieago, III. WDAL Meridian, MS 101.3 WDAO Dayton, OH 107.7
WAIM-FM Anderson SC 101.1 WAIN-FM Columbia, Ky.	WBGR-FM Paris KY 96.7 WBGU Bowling Green, OH 88.1 WBGW Bandor ME \ 97.1	WCCS Central City PA 101.7 WCCW-FM Traverse City, Mich. WCCX Waukesha, WI 88.1 WCDB Albany, NY 90.9 WCDE Elkins, WV WCDL-FM Carbondale, Pa. 94.3 WCDR-FM Gedarville, O. WCEA-FM immokalee FL 95.8 WCEA-FM immokalee FL 95.9 WCED-FM Dubois, Pa. WCEH-FM Hawkinsville, Ga.	WDAR-FM Darlington, S.C.
WAIV Jacksonville, FL 96.9 WAJB Pensacola, FL 107.3	WBGU Bowling Green, OH 88.1 WBGW Bangor ME 97.1 WBGY-FM Tullahoma, TN 93.3 WBHI Chicago IL 88.5		WDAY-FM Fargo, N.D.
WAJC Indianapolis, Ind.	WBHM Birmingham, AL 90.3	WCEN-FM Mt. Pleasant, Mich.	COMMUNICATIONS WORLD 19

Call Location MHz	Call Location MHz	Call Location MHz	Call Location MHz
WDBI-FM Tawas City M! 101.7	WEKZ-FM Monroe, Wis.	WFMV-FM Blairstown NJ 106.3	WGUL-FM New Port Richey, Fla.
WDBJ-FM Roanoke, Va. WDBK Blackwood, NJ 91.5 WDBL-FM Springfield, Tenn.	WEKZ-FM Monroe, Wis. WELA E. Liverpool, OH 104.3 WELD-FM Tupelo, Miss. WELE-FM DeLand, FL 105.9 WELL-FM Marshall, MI 104.9 WELD-FM Tupelo, Miss, 98.5 WELP-FM Easley, S.C. WELR-FM Regnote A1 95.3	WFMX Statesville, N.C. WFMZ Allentown, Pa. WFNE Forsyth GA 97.1	WGUS-FM Augusta, Ga. WGVE Gary, Ind.
WDBL-FM Springfield, Tenn. WDBM Medina, O. WDBO-FM Orlando, Fla, WDBQ-FM Dubuque, Iowa	WELL-FM Marshall, MI 104.9 WELO-FM Tupelo, Miss. 98.5 WELP-FM Easley S.C.	WFNE Forsyth GA 97.1 WFNM Lancaster PA 88.7 WFNN Escanaba, MI 104.7 WFNY Racine, Wis.	WGVO Greenville, OH 91.7 WGWG Boiling Springs,
WDBS Durham, NC 103.7	WELR-FM Roanoke AL 95.3 WEMC Harrisonburg, Va. WEMD-FM Easton, MD 96.7 WEMH-FM Cuilman AL 101.1	WFOB-FM Fostoria, Ohlo WFOG Suffolk-Norfolk, VA 92.9 WFON Fond du Lac Wis	NC 88.3 WGXL Laurens, SC 100.5 WGXM Dayton OH 88.1
WDBY Duxbury MA 91.7 WDCB Glen Ellyn, IL 90.9 WDCC-FM Sanford NC 89.5 WDCE Richmond, VA 90.1	WEMI Neemah-Menasha, WI 100.1 WEMM Huntington WV 107.9	WFOS Chesapeake, Va. WFOX Gainsville, Ga. WFOY-FM St. Augustine, Fla. WFPG-FM Atlantic City, N.J.	WGYL Vero Beach, Fia. 98.5 WHAD Delafield, Wis. WHAI-FM Greenfield, Mass.
I WOCC Dunkan NC INCI	WEMO East Moline, IL 101.3 WEMP-FM Milwaukee, Wis. WEMU Ypsilanti, Mich. WENN-FM Birmingham AL 107.7		
WDCR-FM Hanover, NH 99.3 WDCS Portland Me. 97.8 WDCV-FM Carlisle PA 88.3 WDCX Burfalo, N.Y. WDDC Chicago, IL 89.3	WENN-FM Birmingham AL 107.7 WEOL-FM Elyria, Ohio WEOS-FM Geneva, N.Y. 89.7	WFPK Louisville, Ky. WFP Louisville, Ky, WFPR-FM Hammond LA 107.1 WFRB-FM Frostburg, Md.	WHAY FM Haverhill, Mass. WHAY Aberdeen, MS 105.5 WHBB-FM Selma, Ala. WHBC-FM Canton, Ohio WHBF-FM Rock Island, III.
WDDD Marlon, III. 107.1 WDDE Hamden, Conn. WDEA-FM Elisworth, Me. WDEB-FM Jamestown, Tenn.	WEPM-FM Martinsburg, W.Va. WEPR Greenville SC 90.1 WEPS Elgin, III.	WFRD Hanover, NH 99.3 WFRE-FM Fresno, Cal.	WHCG Matter CA 106.3
WDEB-FM Jamestown, Tenn. WDEF-FM Chattanooga, Tenn. 92.8	WERR Goldsboro, N.C. WERG Erie PA 89.9 WERH-FM Hamilton AL 92.1	WFRL-FM Freeport, IL 98.5 WFRO-FM Fremont, Ohio WFRX-FM W. Frankfurt IL 97.7 WESP Frankfurt IL 97.7	WHCJ Savannah, GA 88.5 WHCL-FM Clinton, NY 88.7 WHCN Hartferd. Conn. WHCU-FM Ithaca, NY
WDEH-FM Sweetwater, Tenn. WDEN-FM Macon, Ga. 105.3	WERI-FM Westerly, R1 WERI-FM Famile River, W1, 04.3	WFSB Framingham, MA 91.3 WFSI Annapolis MD 107.9 WFSS Fayetteville, NC 88.1	WHEB-FM Portsmouth, NH 100.3
WDEQ.FM De Graff. Ohlo 91.1 WDET.FM Detroit, Mich. WDEZ.FM Detroit, Mich. WDEZ.FM Downers Grove, 111, 25.3 WDGC.FM Downers Grove, 111, 25.3	WERM Wapakoneta, Ohio WERN Madison, Wi WERS Boston, Mass. WERT-FM Van Wert, Ohio WERY Regulat SC 90.0	WFST-FM Caribou, Maine WFSU-FM Taliahassee, Fla.	WHEN-FM Syracuse, N.Y. WHER Hattiesburg, MS 103.7
WDFP Battle Creek, MI 95.3 WDGC-FM Downers Grove, III, 88.3	WERV Beaufort SC 89.9 WESA-FM Charlerol PA 98.3 WESC-FM Greenville, S.C.	WFTA Fulton, MS 101.7 WFTG-FM London, Ky. 103.9 WFTM-FM Maysville, Ky. WFTU Orlando FL 89.9	WHEZ Huntington, WV 103.3 WHFB-FM Benton Harbor, MI 99.9 WHFC Bel Air MD 88.1
WDHA-FM Dover, N.J. WDHP Presque Isle ME 96.9 WDHR Pikesville KY 92.1	WESN Bloomington IL 88.1 WESO-FM Southbridge, Mass.	WFTW-FM Fort Walton Beach,	WHFD Archbold, OH 95.5
WDHS Gaston, IN 90.9 WDIF Marion, OH 94.3	WESP-FM Cambridge, MD 106.3 WESR-FM Tasley, Va. 103.3 WESS East Stroudsberg. PA 90.3 WEST-FM Easton, Pa.	WFUL-FM Fulton KY 99.7 WFUR-FM Grand Rapids, Mich. WFUV New York, N.Y. WFUZ Ocala FL 93.7	WHFI Jackson, MI 94.1 WHFL Winter Haven, FL 97.5 WHFM Rochester, N.Y.
WDJC Birmingham AL 93.7 WDJF Westport, CT 107.9 WDJK Atlanta, Ga.	WEST-FM Easton, Pa. WESU Middletown, Conn. 88.1 WETA-FM Washington, D.C.	WFVA-FM Fredericksburg, Va. WFVH Arlington Heights, IL 88.3	WHFS Bethesda, Md. WHGC Bennington, VT 94.3 WHGM Bellwood, Pa. WHHB Holliston, MA 91.5
WDJX Xenia O.H 103.9 WDKX Rochester, NY 103.9 WDLA-FM Walton NY 92.1	WETD Alfred NY WETL South Bend, Ind. WETN Wheaton, III. WETS Johnson City TN 89.5	WFYC-FM Alma, Mich. WFYN-FM Key West, Fla.	WHHI Highland, Wis. WHHJ Dix Hills, NY 88.9
WDLB-FM Marshfield, Wis. WDLC-FM Port Jervis, N.Y. 96.7 WDLM-FM East Moline, IL 89.3	WEVU-FM NOW YORK, N.Y.	WGAE Girard, PA 88.3 WGAG-FM Orlando, FL 89.3	WHHS Havertown Pa
WDLT Cleveland MS 92.7 WDMB-FM Statesville, N.C. WDMG-FM Douglas, GA 99.5 WDMP-FM Dodgeville, Wis. 107.1	WEVL Memphis, TN 90.3 WEVR-FM River Falls, Wis. 106.3 WEXA Eupora MS 101.7	WGAN-FM Portland, Me. WGAO Franklin, MA 91.3 WGAR-FM Cleveland, Ohio	WHHY-FM Mongomery AL 101.9 WHIO-FM Dayton, Ohio WHIR-FM Danville, Ky. 107.1 WHIZ-FM Zanesville, Ohio
I WUMI Cleveland. UH 107.9 I	WEXM-FM Exmore, VA 107.5 WEXP Gadsden, AL 91.5 WEZB New Orleans LA 97.1	WGAI-FM Gate City, Va. 104.9 WGAY-FM Washington DC 99.5 WGBE-FM Columbus. Ga.	WHJE Carmel, Ind. 91.3 WHJT Clinton MS 93.5
WDNA Miaml, FL 88.9 WDNR Chester, PA 89.5 WDNS Bowling Green KY 98.3 WDNX Olive Hill TN 89.1	WEZC Charlotte NC 104.7 WEZF Burlington VT 92.9	WGBH-FM Cambridge, Mass. WGBI-FM Scranton, Pa. WGBM Virotua, WI 102.8	WHJY Providence RI 94.1 WHKC Henderson, KY 103.1 WHKK Erlanger, Ky. 100.9 WHKW Fayette, AL 98.1
WDOC-FM Prestonsburg, Ky. WDOD-FM Chattanooga, Tenn.	WEZI Memphis TN 105,9 WEZK Knoxville, Tenn. WEZL Charleston, S.C. 103,5	WGBP-FM Green Bay, W1 90.1 WGBQ Galesburg, 1L 92.7	
WDOH Delphos OH 107.1 WDOK Cleveland, O. WDOM Providence, R.I.	WEZL Charleston, S.C. 103.5 WEZN Bridgeport CT 99.9 WEZO Rochester, NY 101.3 WEZR Manassas, Va.	WGBW Green Bay, WI 91.5 WGCB FM Red Lion, Pa. WGCI Chicago, IL 107.5 WGCL Cleveland, Ohlo 98.5 WGCR-FM Wellsboro, Pa. 97.7	WHLA Holmen, Wis. WHLD-FM Niagara Falls, N.Y. WHLM-FM Bloomsburg, Pa. WHLQ Canton OH 106.9
WDOR-FM Sturgeon Bay, Wis. WDOW-FM Dowagiae, Mich. 97.9 WDPS Dayton, OH 90.1	WEZN Bridgeoft 93.3 WEZR Menassas, Va. WEZR Manassas, Va. WEZW Wauwatosa, Wis. 103.7 WEZX Scranton, PA 107.1 WEZY Cocoa FL 99.3 WEZY-FM Cocoa, FL WEZZ Clanton AL 97.7 WEZA FM Dallas Tax	WGCR-FM Wellsborg, Pa. 97.7 WGCS Goshen, Ind. WGCW Port St. Joe, FL 93.5	WHLT-FM Huntington, Ind. WHLY Leesburg, FL 106.7 WHMA-FM Anniston AL 100.5
WDPS Dayton, OH 90.1 WDQN-FM Du Quedn, III. 95.9 WDRC-FM Hartford Conn. WDRL Monmouth, IL 97.7	WEZY-FM Cocoa, FL WEZZ Gianton AL 97.7 WEAA-FM Dallas Tox	WGCS Goshen, Ind. WGCW Port St. Joe, FL 93.5 WGDR Plainfield VT 91.1 WGEA-FM Geneva AL 93.5 WGEC Springfield, GA 103.9	WHMD Hammond, LA [07,1 WHME South Bend, Ind. WHMH-FM Sauk Rapids, MN
WDRM Decatur AL 102.1 WDRQ Detroit, Mich. 93.1 WDRU Drew, Miss. 95.3 WDSC-FM Dillon, S.C.	WFAA-FM Dallas, Tex. WFAC Columbus, OH 81.5 WFAE Charlotte, NC. 90.9 WFAH-FM Alliance Ohio	WGEM-FM Quincy, III.(s) WGER-FM Bay City, Mich, 102.5 WGET-FM Gettychurg Pa	101.7 W H M 1 - F M Howell M 1 93.5 W H M T - F M Howell, M I 93.5
WDSD Dover, Dela. 94.7 WDSO Chesterton, IN 89.1	WFAH-FM Allianee, Ohio WFAM Jacksonville FL 91.1 WFAR-FM Sharpsville, PA 95.9 WFAU-FM Augusta, Maine WFAW-FM Ft. Atkinson, Wis.	WGEV Beaver Falls, Pa, WGEG.FM Lake City SC 100 I	WHMP-FM Northampton, MA 99.3 WHMQ Findlay, OH 100.5
WDTH Duluth, Minn. 103.8 WDTR Detroit, Mich. WDUB Granville, Ohio	197.3	WGFM Schenectady, N. Y. WGFR Glen Falls, NY 91.9 WGFS Greensboro, N. C. 90.7 WGGC Glasgow, Ky.	WHWT-FM Howell, MI 93.5 WHNN Bay City MI 96.1 WHNR McMinnville, Tenn. 103.9 WHOD-FM Jackson AL 104.9
WDUK Havanna, III. 99.8 WDUQ Pittsburgh, Pa. WDUV Bradenton FL 103.3 WDUX-FM Waupaca, Wis.	WFBC-FM Greenville, S.C. WFBE Flint, Mich WFBG-FM Altoona, Pa. WFBQ Indianapolis IN 94.7	WGGC Glasgow, Ky. WGGL-FM Houghton, Mich. WGGN Castalla, OH 97.7 WGGO Buford, Ga. 102.3	WHOK-FM Lancaster, Ohlo WHOM Mount Washington, NH 94.9
WDUZ-FM Green Bay, Wis. WDVE Pittsburgh, Pa. 102.5	WFCB Chillicothe OH 94.3	WGGR Duluth, Minn. 105.1	WHOO-FM Orlando, Fla. WHOO-FM Hopkinsville, Ky.
	WFCI Franklin, Ind. WFCJ Miamisburg, OH WFCR Amherst, Mass. WFCS New Britain CN WFDD-FM Winston-Salem, N.C. WFDR-FM Manchester, Ga. WFDR-FM Manchester, Ga. WFDT Columbia City, Ind. WFDT Columbia City, Ind. WFDT Usaneek, N.J. WFEM Ellwood City, Pa. WFFM FM Columbia, Miss. WFFM Braddock, PA 96.9 WFFV Front Royal VA 99.3	WGH-FM Newport News, Va. WGHS Glen Eilyn, III. WGIL-FM Galesburg, III. WGIR-FM Manehester NH 101.1 WGIT Hormigueros, PR 92.1 WGLB-FM Port Washington, Wis, WGLC-FM Mendota, III. WGLD-FM High Point. NC 100.3 WGLS-FM Glässborg. N	WHOW-FM Clinton, IL 95.9
WDWD-FM Dawson, Ga. 92.1 WDWD-FM Dawson, Ga. 92.1 WDWN-FM Champaign, III. WDXE-FM Lawrenceburg, Tenn. WDXL-FM Lawrenceburg, Tenn.	WFDR-FM Manchester, Ga. WFDS-FM Baltimore, Md. WFDT Columbia City, Ind. 106.3	WGIT Hormigueros, PR 92.1 WGLB-FM Port Washington, Wis.	WHPA Hollidaysburg PA 104.9 WHPC Garden City NY 90.3 WHPE-FM High Point, N.C.
WDYN Chattanooga, Tenn. 89.7	WFDU Teaneck, N.J. 89.1 WFEM Ellwood City, Pa. 92.1 WFFF-FM Columbia Mice	WGLD-FM High Point NC 100.3 WGLS-FM Glassboro, N. J. WGLT Normal, IL 89.1	
WDZD Shallotte, NC 93.5 WDZQ Decatur, IL 95.1 WEAA Baltimore, MD 88.9 WEAF Eden, N.C. 94.5	WFFM Braddock, PA 96.9 WFFV Front Royal VA 99.8 WFGH Fort Gay, WV 90.7	WGLS-FM Glashoro, N. J. WGLT Normal, IL 89,1 WGLY Goulds, FL 98.3 WGMB Georgetown, SC 97.7 WGMC Greece NY 90.1	WHPW Huntington, WV 89.3 WHRB-FM Cambridge, Mass. WHRK Memphis, TN 97.1
WEAF Eden, N.C. WEAS-FM Savannah, Ga. WEAT-FM West Palm Beach, Fla. WEAU-FM Eau Claire, Wis. WEAU-FM Plattsburgh, N.Y.	WFFW Front-Royal VA 99.3 WFGH Fort Gay, WY 90.7 WFHC-FM Henderson, Tenn. WFIA-FM Louisville KY WFID Rio Pledras, P. R. WFIG Sumter, S.C. WFGM Feirmort WV 97.9	i widminidiadwinwii 103.i t	WHPK-FM Chicago, III. WHPR Highland Park, MI 88.1 WHPW Huntington, WV 89.3 WHRB-FM Cambridge, Mass. WHRK Memphis, TN 97.1 WHRK Albany, N.Y. WHRM Wausau, Wis. WHRS Boynton Beach, FL 90.7 WHRW Bingnamton, N.Y. WHRW Bingnamton, N.Y. WHSA Brule, Wis. 89.9 WHSB Alpena, Mich. WHSD Hinsdale, III. 88.5 WHSD Hinsdale, III. 88.5
WEAU-FM Eau Claire, Wis. WEAV-FM Piattsburgh, N.Y. WEAX Angola, IN 88.3	WFIG Sumter, S.C. WFGM Fairmont, WV 97.9 WFHG-FM Bristol, TN 96.9	WGMO Shell Lake, WI 95.3 WGMS Tyrone, PA 101.1 WGMS-FM Washington, D.C. WGMW Riviers Beach, Fla. 94.3 WGMZ Flint MI 107.9 WGNA Albany, NY 107.7 WGNB St. Petersburg, Fla. WGNU-FM Granite City, III. WGOH-FM Grayson, Ky. WGOL Lynchburg, VA 98.3 WGOS-FM Mlami, Fla. WGOT Newton, MS 106.3 WGOY-FM Valentosta, Ga. WGPA-FM Bethiehem, Pa.	WHRW Bingnamton, N.Y. WHRZ Providence, KY 97.7 WHSA Brule, Wis. 89.9
WEAT Angula, IN 90-3 WEBF Olean, NY 95.7 WEBI Camilla, GA 105.5 WEBN Cinclinatt 0H 102.7 WEBQ-FM Owego NY 101.7 WEBQ-FM Harrisburg, III. WECI Richmond, Ind.	WFGM Fairmont, WV 97.9 WFHG-FM Bristol, TN 96.9 WFIT Melbourne, FL 91.1 WFIU Bloomington, Ind. WFIW-FM Fairfield, 111.	WGNA Albany, NY 107.7 WGNB St. Petersburg, Fla.	WHSB Alpena, Mich. WHSD Hinsdale, III. 88.5
WEBO-FM Owego NY (01.7 WEBQ-FM Harrisburg, 111. WECI Richmond. Ind.	WFIZ Conneaui, O. WFJA Sanford, NC 105.5 WFLA-FM Tampa, Fla.	WGOH-FM Grayson, Ky. WGOL Lynchburg, VA 98.3	WHSH Albany NY 106.5 WHSK Kokomo, IN 89.1 WHSN Bangor, ME 89.3 WHSR-FM Winchester, Mass. 91.9
WECM Claremont NH 106.1 WECO Geneva. NY 101.7	WFLC Canandaigua, NY 93.5 WFLM Crown Pt. IN 103.9 WFLN-FM Philadelphia, Pa.	WGOT Newton, MS 106.3 WGOV-FM Vaidosta, Ga.	WHSY-FM Hattiesburg, Miss.
WEUW EIMITA, NY 86.1	WFLO-FM Farmville, VA 95.7 WFLR-FM Dundee, N.Y. 95.9 WFLS-FM Fredericksburg, Va.	WGPR Detroit, Mich. 107.5	WHTC-FM Holland, Mich. WHTG-FM Eatontown, N.J. 106.3 WHUB-FM Cookeville, Tenn. WHUC-FM Hudson, N.Y. WHUD Peekskill NY 100.7
WEDR-FM Miami, Fla. WEEC Springfield, O.	WFLT-FM Franklin, Tenn. WFLW-FM Monticello, Ky. WFLY Troy, N.Y.	WGPS Greenshoro, N.C. WGRD-FM, Grand Rapids, Mich. 97.9	WHUC-FM Hudson, N.Y. WHUD Peekskill NY 100.7 WHUG Jamestown NY 101.7
WEEF Germantown, TN 94.3	WFLY Troy, N.Y. WFMA Rocky Mount, N.C. WFMB Springfield, III. WFMD-FM Frederlek, Md.	WGRE Greeneastle, Lnd. WGRF, Pleasantville NJ 99.3 WGRK-FM Greensburg, KY 103.1 WGRN Greenville, Ill.	WHUG Jamestown NY 101.7 WHUR Washington DC 96.3 WHUS-FM Storrs, Conn. WHVS-FM Storrs, NY 97.7 WHWB-FM Rutland, Vt. 98.1
WEEM Pendleton IN 91.7 WEEP-FM Pittsburgh, Pa.	WFMD-FM Frederlek, Md. WFME Newark, NJ 94.7 WFMF Baton Rouge, LA 102.5	WGRP-FM Greenville, Pa. WGRQ Buffalo NY 98.9	WING COLLAX, WIS.
WEFA Waukegan, III, WEFG Winehester, Va.	WFM1-FM Montgomery AL 98.9		WHWE Howe, Ind. 89.7 WHWL Marquette, MI 95.7 WHYD-FM Columbus, Ga. 107.3
WEFM Chleago, IL 99.5 WEGL-FM Auburn AL 91.1 WEHB Grand Rapids, M1 106.3 WEHH-FM Fimira N. Y.	WFM Debangton, Ind. WFM M Johnstown, PA 92.1 WFM N Newburgh, N.Y. WFM O Lebanon, Tenn. 91.3 WFM O Lebanon TN 88.7 WFM C Lebanon TN 88.7	WGTC Bloomington, IN 92.3 WGTD Kenosha, WI 91.1 WGTE-FM Toledo, OH 91.3	WHYL-FM Carlisle, Pa. WHYN-FM Springfield, Mass. WHYP-FM North East, Pa. 100.9 WHYS-FM Hattlesburg, Miss.
WEIV Ithaca, N.Y.	WFMP Fitchburg, Mass. 104.5 WFMQ Lebanon TN 88.7 WFMS Indianapolis, Ind.	WGTH Richlands, VA 105.5 WGTS-FM Takoma Park. Md.	WIAA Interlochen, Mich. 88.3
WEIZ Phenix City, AL 100.1 WEJY Monroe, MI 89.5 WEKU-FM Richmond, Ky. 88.9	WFMT-FM Chicago, IL 98.7 WFMU East Orange, N.J.	WGUC Cincinnati, Ohio WGUD Pascagoula, MS 106.3 WGUF-FM Gulfport, MS 96.7	WIAC-FM San Juan, P.R. WIAI Danville, III. 99.1 WIAL Eau Claire, Wis.
AMERICATIONS WORLD 1979			

U.S. FW STATION	S BI CALL LLITE		
Call Location MHz	Call Location MHz	Call Location MHz	Call Location MHz
WIAN Indianapolls, IN 90.1	WJFM Grand Rapids, Mich.	WKLN Cullman AL 92.1	WLKX-FM Forest Lake MN 95.9
WIBA-FM Madison, WI 101.5 WIBF-FM Jenkintown, Pa.	WJFR Jackson, MS 96.3 WJGA Jackson, GA 92.1	WKLP-FM Keyser WV 94.1 WKLR Toledo, O. 99.9	WLLI-FM Joliet, IL 96.7 WLLS-FM Hartford-Beaver
WIBG-FM Philadelphia, Pa. WIBI Carlinville, 1L 91.1	WJGF Romney WV 81.5 WJGS Houghton Lake, Mich. 98.5	WKLS-FM Atlanta GA 96.1 WKLX Plymouth NC 95.9	Dam KY WLMB Jefferson-Village
WIBM-FM Jackson, Mich. WIBO Waverly, Ohlo 100.9 WIBQ Utica, NY 94.9	WIND Portsmouth RI 90,7 WINL-FM Johnson City, Tenn.	WKME Gardiner, ME 104.3 WKMH-FM Dearborn, Mich.	Twp. OH 88.9 WLMC Okeechobee, Fla.
	WJHR Miami, Fia. 96.3 WJIB-FM Boston MS 96.9	WKMO Hodgenville, KY 106.3 WKMS-FM Murray, Ky. 91.3 WKMX Enterprise, AL 106.7	WLMH Morrow, Ohio 88.1 WLMJ Jackson OH 94.7
WIBW-FM Topeka, Kan. WIBZ Parkersburg, WV 99.3 WICB Ithaca, N.Y.	WJIG-FM Tullahoma, Tenn. WJIM-FM Lansing, Mish. WJIQ Pensacola, FL 100.7	WKMX Enterprise, AL 106.7 WKNH Keene, NH 89.1	WLNG-FM Sag Harbor, NY 92.1 WLNH-FM Laconia, N.H.
WICN Worcester, Mass. 90.5 WICO-FM Salisbury, Md. 94.3	WIT GHERRY Valley, N.Y.	WKNH Keene, NH 89.1 WKNC-FM Rateigh NC 88.1 WKNO-FM Memphis, TN 91.1	WLNK Columbus, MS 90.9 WLNO London, Ohio
WICR Indianapolis, IN 88.7 WIDD-FM Elizabethton, TN 99.3	WJIZ Albany, Ga, WJJE Lafayette IN WJJM-FM Lewisburg, Tenn. 94.3	WKNS Kinston, NC 90.5 WKNT-FM Kent, OH 100.1 WKNU Brewton, AL 106.3	WLNR Lansing IL 106.3 WLNX Lincoln, IL 91.1
WIDE-FM Biddeford ME 94.3 WIDL Caro, MI 104.9	WJJR Mifflinburg, PA 98.3 WJJW North Adams MA 91.1	WRNZ COILINS MS : (DL.Z 1	WLOB-FM Westbrook, ME 100.9 WLOC-FM Munfordville, Ky.
WIDE Kalamazoo, MI 89.1	WJJY Brainerd MN 106.7 WJKL Elgin IL 94.8	WKOC Kankakee, IL WKOF Hopkinsville, Ky. WKOG-FM Gordon, GA 107.1	WLOI-FM La Porte, Ind. WLOL Minneapolis MN 99.5 WLOM Orleans, MA 104.7
WIFN Franklin, Ind.	WILE-FM South Boston VA 97.5 WILE-FM Smithville, Tenn. 101.7	WKUM Columbia IN ID17 I	WLOO Chicago, IL 100.3
WIFO-FM Jesup, GA 105.5 WIGM-FM Medford, Wis. 99.3	WILK-FM Asbury Park, N.J.	WKOZ-FM Kosciusko, Miss. WKPS New Wilmington PA 88 0	WLOS-FM Asheville, N.C. 99.9
WIGY Bath, ME 105.9 WIHN Normal IL 96.7	WJLN Birmingham AL 104.7 WJLY Moyock, NG 92.1	WKPT-FM Kingsport, TN 98.5 WKQB Nashville TN 105.9	WLOW-FM Aiken SC 95.9 WLOZ Wilmington, NC 91.3 WLPO-FM La Salle, III.
WIHS Middletown, Conn. WIIU Chicago, IL 88.9 WIIS Key West, FL 107.1	I WIME-FM RICELAKE WIS.	WKQD Henderson KY 92.5 WKQQ Lexington, KY 98.1	WLPR Mobile AL 96.1 WLPX Milwaukec W1 97.3
WIKZ Chambersburg, PA 95.1 WHSL Wilmington, NC 97.3	WJMD Bethesda, MD 94.7 WJMF Smithfield, RI 91.5	WKQS Boca Raton FL 99.9 WKQX Chicago, IL 101.1	WLQA Cincinnati OH 98.5 WLQR Toledo, Ohio 101.5
WIKA Centerville, TN 96.7 WIKI-FM Chester, Va.	WJMI Jackson, MS 99.7 WJMJ Hartford CN 88.9	WKRA-FM Holly Springs, MS	WLQY Ft. Pierce, FL 98.7 WLRA Lockport IL 88.1
WIKY-FM Evansville, Ind.	WJML-FM Petoskey, Mich. 96.9 WJMM Versailles, KY 106.3 WJMT-FM Merrill W1 93.5	WKRB Brooklyn NY 90.9 WKRG-FM Mobile AL 99.9 WKRQ Cincinnati OH 101.9	WLRB Rehoboth Beach, DE 92.7 WLRC-FM Whitehall MI 95.3
WILE-FM Cambridge, O. WILL-FM Urbana, III.	WJMU Decatur, 111. 89.9 WJNJ-FM Atlantic Beach, Fla.	WKRQ Cincinnati OH 101.9 WKRV Vandalla, IL 107.1 WKRX Roxboro, NC 96.7	WLRJ Roanoke VA 92.3
WILO-FM Frankfort, Ind. WILQ-FM Williamsport PA 105.1	104.9	WKSA-FM Isabela, PR 101.5 WKSI Eldorado, IL 102.3	WLRN-FM Miami FL 91.3 WLRQ Whitehall, MI 95.3 WLRS Louisville, KY 102.3 WLRW Champaign, III.
WILS-FM Lansing, Mich. WIMA-FM Lima, Ohio	WIND FM Palm Beach FL 97.9 WINE Iron Mt MI 103.6	WKSJ-FM Mobile, A1. 94.9	WLRS Louisville, KY 102.3 WLRW Champaign, III.
WIMI tronwood, MI 99.7 WINK-FM Ft. Myers, Fla.	WJNS Yazoo City, MS 92.1 WJOF Athens AL 104.3	WKSL Greencastle- Waynesboro PA 94.3 WKSS Hartford-Meriden, CT 95.7	WLSD-FM Big Stone Gap VA 93.5 WLSE-FM Wallace NC 94.3 WLSM-FM Louisville, Miss.
WIOA Mayaguez, PR 97.5 WIOB San Juan, PR 99.9	WJOJ Picayune MS 106.3	WKSU-FM Kent, Ohio WKSW Cleveland, OH 99.5	WLSR Lima, Ohio 104.9
WIOC Ponce, PR 105.1 WHRO-FM Norfolk VA 89.5 WIOF Waterbury-Hartford	WJOK Miami FL 107.5 WJOX-FM Jackson, M1 106.1 WJPA-FM Washington, PA 95.3	WKTA McKenzie, TN 106.9 WKTC Tarboro, NC 104.3	WLSW Scottdale, PA 103.9
CT 104.1 WIOG Saginaw, MI 106.3	WJPD Ishpeming MI 92.3	WKTG Madisonville KY 93.9 WKTI Milwaukee, WI 94.5 WKTJ-FM Farmington ME 99.3	WLTA Atlanta, GA 99.7 WLTE Wayeross, GA 102.5
WIOK Hempstead, NY 98.3 WIOQ Philadelphia, PA 102.1	WJLQ-FM Fredonia, NY 88.9 WJR-FM Detrolt, MI 96.3 WJRH Easton, PA 90.5	WKTK Catonsville, MD 105.7 WKTL Struthers, OH 90.7	WLTL La Grange, III. 88.1 WLTR Columbia, SC 91.3
WIOT Toledo OH 104.7 WIOV Ephrata, Pa. 105.1 WIOZ Southern Pines NC 107.1	WJRS Jamestown, KY 104.9	WKTM Charleston, SC 102.5	WLTR Columbia, SC 91.3 WLUF Governeur, NY 92.7 WLUP Chicago, IL 97.9 WLUR Lexington, Va.
WIPE Americus GA 94.3	WJRZ Ship Bottom, NJ 100.1 WJSC-FM Johnson VT 91.5 WJSE Cumberland MD 102.9	WKTR Millinocket ME 97.7 WKTU New York, NY 92.3	WILLY EM Layer Book III
WIPR-FM San Juan, PR 91.3 WIPU Fort Wayne, IN 89.1	WJSK Lumberton, N. C. 102.3 WJSL Houghton NY 90.3	WKTZ-FM Jacksonville, Fia. WKUB Manitowoc. Wis.	WLVW Chicago, IL. 88.7 WLVE Baraboo, Wis. 94.9 WLVH Hartford CT 93.7
WIQB Ann Arbor, MI 102.9 WIQH Concord, Mass, 68.3 WIQO-FM Covington VA 100.9	WJSM-FM Martinsburg, PA 92.7 WJSN-FM Jackson, KY 97.7	WKUZ Wabash, Ind. 95.9	WLVL Louisville, Ky. WLVQ Columbus, OH 96.3
WIQO-FM Covington VA 100.9 WIRB-FM Enterprise AL 96.9 WIRK-FM West Palm Beach, Fla.	WJSU Jackson, MS 90.7 WJSR Birmingham, AL 91.1	WKUZ Wabash, Ind. 95.9 WKVI-FM Knox, Ind. 99.3 WKVM-FM San Juan, PR 105.7	WLVR-FM Bethlehem PA 91.3 WLVU Erie, PA 99.9
WIRN Virginia MN 107.1	WJSV Morristown. N.J. 90.5 WJUL Lowell, MA 91.5	WKVR-FM Huntingdon, PA 91.7	
WIRQ Rochester, NY 90.9 WIRX St. Joseph, MI 107.1	WJVM Sterling, IL 94.3 WJVS Cincinnati, OH 88.3 WJWF Columbus MS 103.1	WKVI-FM Brattleboro, VT 92.7 WKWI Kilmarnock, VA 101.7 WKWK-FM Wheeling, W.Va. WKWZ Syosset NY 88.8	WLVY Elmira, NY 94.3 WLWI Montgomery AL 92.3
WISM-FM Madison, Wis. WISS-FM Beriln WI 102.8 WISU Terre Haute, Ind.	WJWF Columbus MS 103.1 WJYW Tampa, FL 100.7 WJZZ Detroit, M1 105.9	W K X I Jackson, Miss. 94.7 i	WLWS Hamilton, OH 96.5 WLXN Lexington, N.C. 94.1
WITA-FM San Juan, P.R.	WKAD Canton PA 100.1	WKXK Pana, IL 100.9 WKXL-FM Concord, NH 102.3	WLXR La Crosse, WI 104.9 WLYF Miami, Fla. 101.5 WLYK Milford-
WITC Cazenovia, NY 90.9	WKAI-FM MaComb, III. WKAJ-FM Saratoga Springs,	WKXN Greensville, AL 95.9 WKXR-FM Exeter NH 107.1	Marlemont OH 107.1 WLYN Lynn, MA 101.7
WITF-FM Hershey, Pa. 89.5 WITH-FM Baltimore MD 104.3	N.Y. 102.8 WKAQ-FM San Juan, P.R.	WKXX Birmingham, AL 106.9 WKYN-FM San Juan, P. R. 99.9	WLYQ Norwalk, CO 95.9 WLYT Cleveland Heights OH 92.3
WITL-FM Lansing, Mich. WITO Ironton OH 107.1 WITR Henrietta, NY 89,7	WKAR-FM E. Lansing, Mich. WKAU-FM Kaukauna W! 104.9 WKAY-FM Glasgow, Ky.	WKYW Frankfort, Kv. 93.9	WLYX Memphis TN 89.3
WITH Henrietta, NY 89,7 WITT Tuscola, IL 93.5 WITW Cadillac, MI 96.7	WKBB West Point, MS 100.9 WKBC-FM N. Wilkeshore N.C.	WKYX-FM Paducah, Ky. WKZL Winston-Salem, NC 107.5 WKZM Sarasota FL 105.5	WMAJ-FM State College, Pa, WMAL-FM Washington, D.C,
WILZ-FM Jasper, Ind. WIUC Winchester, Ind.	WKBJ-FM Milan, Tenn. WKBL-FM Covington, Tenn.	WKZN-FM Zion, IL 96.9	WMAR-FM Baltimore, Md. 106.5 WMAS-FM Springfield, MA 94.7
WIUJ St. Thomas, VI 88.9 WIUP-FM Indiana. Pa. 91.3	WKBN-FM Youngstown, Ohle WKCB-FM Hindman, KY 107-1	WKZW Peoria IL 93.3 WKZY-FM Escanaba MI 97.1	WMAZ-FM Macon, Ga. WMBG Williamsburg, Va. 96.5 WMB1-FM Chicago, III.
WIUS Christiansted, V.I. WIUV Castleton, VT 91.3	WKCC Grayson, KY 91.5 WKCl Hamden CT 101.3	WLAD-FM Danbury, Conn. WLAK Chicago IL 98.9	WMBJ Danville, IL 102.1
WIVA-FM Aguadilla, P.R. 100.3 WIVC Peoria, III. WIVE-FM Ashland, Va.	WKCO Gambier OH 91.9 WKCQ Saginaw MI 98.1 WKCR-FM New York, N.Y.	WLAN-FM Lancaster, Pa. WLAP-FM Lexington, Ky. WLAT-FM Conway, S.C.	WMBL-FM Morehead City NC 95.9
WIVI-FM Cristiansted.	WKCIL-EM Corinth Miss	WIAV.EM Grand Danide Mish	WMBN-FM Petoskey, Mich. WMBW Chattanooga TN 86.9
St. Croix, V.I. WIVK-FM Knoxville, Tenn. WIVQ Peru, IL 100.9	WKDD Akron, OH 96.5 WKDE-FM Altavista, VA 108.5 WKDF Nashville, TN 103.3	WLAX Streator, IL 97.7 WLAY-FM Muscle Shoals AL 105.5	WMC-FM Memphis, Tenn. WMCB-FM Michigan City, Ind. WMCC Etowah, TN 103.3
WIVY-FM Jacksonville, Fia. WIXK-FM New Richmond.		WLRC-FM Muncle Ind 1041 1	WMCD Statesboro, Ga. WMCF Stuart, Fla.
Wis. 167.1 WIXL-FM Newton, N. J. WIXN-FM Dixon, III.	WKDN-FM Camden, N.J.	WLBH-FM Mattoon, III.	WMCR-FM Onelda NY 108.3
WIXU McComb MS 105.7	WKDU Henderson, KY 99.5 WKDU Philadelphia PA 91.7	WLCA Godfrey, IL 89.9 WLCC Luray, VA 106.3	WMCX W. Long Branch,
WIXQ Millersville, PA 91.7 WIXX Green Bay, WI 101.1 WIYD-FM Palatka FL 99.9	WKDZ-FM Cadlz KY 106.3 WKEE-FM Huntington, WV 100.5 WKEI-FM Kewanee, III.	WLCK-FM Scottsville, Ky.	WMDC-FM Hazelhurst, MS 100.9 WMDD-FM Fajardo, P.R.
WIYU Ebensbura PA 99.1	WKES St. Petersburg FL 101.5	WLCR Lawrence Twp, NJ 89.7	WMDE Greensboro. N.C. WMDF Milton, WI 89.9
WIZR-FM Johnstown, N.Y. 104.9 WJAC-FM Johnstown PA 95.5	WKEU-FM Griffin, Ga. WKEZ Norfolk VA. 957	WLDS-FM Jacksonville, III.	WMDH New Castle IN 102.8 WMDI McKean, Pa. 102.3
WJAD Bainbridge, GA 97.3 WJAG-FM Norfolk, NE 106.7	WKF1-FM Wilmington OH 102.3 WKFM Fulton NY 104.7	WLEC-FM Sandusky, Ohio	WMDM-FM Lexington Park, MD 97.7
WJAI Eaton, OH 92.9 WJAO Marianna, Ft. 100.9	WKFR-FM Battle Creek, MI 103.3 WKGC-FM Panama City, FL 90.7 WKGI New Martinsville WV 103.9	WLEQ Immokalise, FL 95.9 WLET-FM Toccoa, Ga.	WMEA Portland ME 90.1 WMEB-FM Orono, Maine
WJAT-FM Swainsboro, Ga. WJAX-FM Jacksonville, Fla.	WKGO Cumberland, Md. 106.1	WLEV-FM Bad Axe, Mich. WLFZ Elmira NY 92.7	WMEF Ft. Wayne IN 97.3 WMEH Bangor, ME 90.9
WIAZ Albany, Ga. WJBD-FM Salem IL 100.1	WKGW Utica, NY 104.3 WKHR Bainbridge, OH 88,3 WKHI Ocean City MD 99.9	WLFC Findlay OH 88.3 WLFM Appleton, WI 91.1	WMEM-FM Presque Isle, ME 106.1
WJBI Clarksdale MS 101.7 WJBK-FM Detroit, Mich. WJBL-FM Holland, Mich.	WKHI Ocean City MD 99.9 WKHS Worton MD 90.5 WKIG-FM Glenville, GA 106.3	WLGA-FM Valdosta GA 95.9 1	WMET Chicago, IL 95.5 WMEV-FM Marion, Va. WMEZ Pensacola FL 94.1
WJBM-FM Jerseyville, III. WJBQ-FM Searborough,	WKIO Urbana IL 103.9 WKIQ Bowling Green, OH 93.5	WLH1 Fort Wayne, IN 88.3 WLHN Anderson IN 97.9 WLHS-FM West Chester, PA 89.9	WMFC-FM Monroeville AL 99.5 WMFD-FM Wilmington, N.C.
WIRR Wilmington, Del.	WKIP lackeon TN 1044	W LIF BAITIMORE, Md. 1911.9	100.9
WJBW-FM Hampton, S.C. 103.1 WJCC Angola, Ind. 100.1	WKJB-FM Mayaguez, P. R. WKJR-FM Muskegon Heights MI	WLIH-FM New London, Wis. WLIL-FM Lenoir City, Tenn. WLIN Jackson MS 95.5	WMFG-FM Hibbing, MInn. 106.3 WMFM Menomonie, WI 92.1 WMFO Medford, Mass. 91.5
WJCD-FM Seymour, Ind. WJCK Rensselaer IN 97.7	WKKC Chicago, JL 89.3	WLIP-FM Kenosha, Wis. 95.1 WLIU Lincoln Univ., PA 88.7 WLIV-FM Livingston, Tenn.	WMFP Ft. Lauderdale, Fla. WMFQ Ocala, FL WMFR-FM High Point, N.C.
WJCR Washington PA 88.3	WKKD-FM Aurora, III. WKKI Celina OH 94.3	WLJC Beattyville, KY 102.3	WMGH Vevay, IN 95.9
WJCT-FM Jacksonville, FL 89.9 WJDB-FM Thomasville AL 95.8 WJEE Jacksonville, FL 107.3	WKKL West Barnstable, MA 91.1 WKKM Harrison, MI 92.1 WKKY Moss Point, MS 104.9	WLJS-FM Jacksonville, AL 91.9 1	WMGK Philadelphia, PA 102.9 WMGL Pulaski, Tenn. 98.3 WMGM Atlantic City, N.J.
WJEL Indianapolis, IN 89.1 WJER-FM Dover, OH 101.7	WKLA-FM Ludington, Mich. 106.3 WKLC-FM St. Albans, W.Va.	WLKI Angola, IN 100.1 WLKL Mattoon, IL 90.3 WLKM.FM Three Rivers MI 95.0	WMGP Fairhope AL 92.1 WMGQ New Brunswick, NJ 98.3
WJEZ Chicago, IL 104.3 WJFD-FM New Bedford-	WKLF-FM Clanton, Ala.	WLKM-FM Three Rivers, MI 95.9 WLKN-FM Lincoln, ME 99.3 WLKR-FM Norfolk, OH 95.3	WMGW-FM Meadville, Pa. WMGX Portland, ME 93.1
Fall River MA 97.3	WKLK-FM Cloquet MN 100.8	WLKW-FM Providence Rf 101.5	WMHB Waterville ME 91.5

Call Location MHz		IN STATIONS BY	
WMHC South Hadley Mass	Call Location MHz WN1U-FM Dekalb, III. 89.5	Call Location MHz	Call Location MHz
WMHK Columbia, SC 89.7 WMHR Syracuse, N.Y 102.9	WNJC-FM Senatobia, Miss. 90.1 WNKO Newark OH 101.7 WNKR Falmouth KY 95.3	WPAT-FM Paterson, N.J. WPAY-FM Portsmouth, Ohio WPCC-FM Pangor, ME 92.9	WQLT Florence AL 107.3 WQLX Galion, OH 102.3 WQMC Charlottesville, VA 95.3 WQMF Babylon, N.Y.
WMHT-FM Schnectady NY 69.1	WNLA-FM Indianola, Miss 105.5 WNMB N. Myrtle Beach SC 105.5 WNMC-FM Traverse City M1 90.9	WPCh Champaign IL 88.7 WPCH Decatur GA 94.9	WQMG Greensboro, N.C. WQMT Chatsworth, GA 99.3 WQMU Indiana, Pa 103.1
WMIK-FM Middlesboro, Ky. 92.7	WNMU-FM Marquette, MI 90.1 WNNN Canton, N.J. 101.7 WNNO-FM Wisconsin Dells,	WPCM Purlington NC 101.1 WPCS Pensagola, Flag 80 8	WQMV Vicksburg, Miss. WQNZ Natchez-Vidalia MS 95.1 WQOD Youngstown OH 93.3
WMIV S. Bristof, N.C.	WI 167.1 WNNT-FM Warsaw, Va. WNOB Clevefand, Ohio	WPDH Poughkeepsie NY 101.5 WPDR-FM Portage, Wis. WPDX-FM Clarksburg,	WQON Grayling, MI 100.1 WQOX Memphis TN 88.5
W MJC Birmingham, MI 94.7 W MJM-FM Cordete, Ga. 98.3 W MJQ Rochester, NY 92.5	WNOE-FM New Orleans, La.	WPFA Eveter NU 104.9	WQPM-FM Princeton, MN 106.3 WQPO Harrisonburg, VA 100.7 WQQQ Easton PA 99.9
WMJS Prince Frederick MD 92.7 WMJW Nanticoke PA 92.1	WNOF St. Paul, Minn. WNOI Flora. IL WNOK-FM High Point, N.C. WNON Lebanon. Ind.	WPEH-FM Louisville, GA 92.1	WQRA Warrenton VA 94.3 WQRB Pittsfield, Mass. WQRC Barnstable, MA 99.9 WQRH Wisconsin Delis WI 107.1
WMJK Mlami, FL 96.3 WMKC Oshkosh, Wis. WMKY Morehead, Ky. 90.3 WMLD Manati PR 98.0	WNOR-FM Norfolk, Va. WNOZ Cortland NY 99.9 WNPQ New Philadelphia, Ohio	WPET-FM Greensboro NC 98.7 WPEZ Pittsburgh PA 94.5 WPFL Los Angeles, Cal. WPFL Winter Park, FL 88.9	WORP West Carrollton, OH 88 1
WMLP-FM Milton, MA 91.5 WMLP-FM Milton, Pa.	WNRC Dudley, MA 91.1	WPFR Terre Haute Ind 102.7	WQRS-FM Detroit, Mich. WQRX Benton IL 106.3 WQSB Albertville, Ala.
WMMC N. Andover MS 00 K	WNRR Bellevue OH 92.1	WPGA-FM Perry, Ga. WPGC-FM Baldensburg, Mrl. 95.5	WQSI Union Springs, AL 100.9 WQSM Fayetteville, N.C. 98.1 WQSR Sarasota FL 102.5
WMMG Bradenburg KY 93.5 WMMR Philadelphia, Pa. WMMS Cleveland, O. 100.7	WNSD Cincinnati OH 90.1 WNSL-FM Laurel, Miss.	WPGM-FM Danville, Pa. 96.7 WPGT Roanoke Ranide No. 90.1	WQST Forest, Miss. WQSU Selingsgrove PA 88.9 WQTC-FM Two Rivers, Wis.
WMNA-FM Gretna, Va. WMNB-FM North Adams, Mass. WMNF Tampa FL 88.5		WPGU Urbana, III. WPGW Portland IN 100.9 WPHD Buffalo, NY 103.3	WQTE Adrian, MI 95.3 WQTI Dunn, N.C. 103.1 WQTQ Hartford CT 88.3
WMNR Monroe CN 88.1 WMOA-FM Marietta, OH 94.3 WMOR-FM Morehead Ky 92.1	WNTQ Syracuse, NY 93.1 WNUB-FM Northfield, Vt. WNUF New Kensington PA 100.7	WPHP Wheeling, WV 91.9 WPHS Warren, Mich. WPIC-FM Sharen, Pa	WQTU Rome, GA 102.3 WQUD Memphis, TN 104.5
WMOT Murfreeshore Tenn 90 8	WNUU St. Matthews KY [03.1 WNVA-FM Norton, Va. 106.3	WPIO Titusville, FL 89.9 WPIT-FM Pittsburgh, Pa. WPIX-FM New York, N.Y.	WQUH DeFuniak Springs FL 103.1 WQUT Johnson City, Tenn. 101.5
WMPH Wilmington, Del. 91.7	WNWC Madison WI 102.5 WNWN Coldwater MI 98.5	WPJC Burgaw-Wilmington	WQWQ-FM Muskegon, Mich. 104.5
WMPL-FM Hancock, MI 93.5 WMPO-FM Middleport OH 92.1 WMPR Sumter SC 88.1 WMPT-FM South Williamsport,	WNWY-FM Norway, Me. 105.5	WPJS Orangeburg, SC 106.7 WPKN Bridgeport, Conn. 89.5 WPKY-FM Princeton Ky 104.0	WQXA York PA 105.7 WQXB Grenada MS 100.1 WQXE Elizabethtown, Ky. 106.3 WQXI.FM Smyrna Ga
WMOT Ishnoming Ma 199.3	WNYC-FM New York, N.Y. WNYE New York, N.Y. WNYN-FM Canton, O. WNYU-FM New York NY 89.1	WPLC planation Key, Fla.	WQXI-FM Smyrna, Ga. WQXM Clearwater- St. Petersburg FL 97.9
WMRF-FM Lewistown, Pa. WMRI-FM Marion, Ind. WMRN-FM Marion Objo	WOALEM Con Antonia TV 07.0	WPLM-FM Plymouth, Mass. WPIN Nashville Tenn	WQXO-FM Munising MI 98.3 WQXQ Daytona Beach, FL 101.9 WQXR-FM New York, N.Y.
WMRQ Brookhaven, MS 92.1 WMRT Marietta. OH 883	WOALK Royal Oak, Mich. WOAP-FM Owesso, Mich. WOAY-FM Oak Hill, W.Va. WOBC Oberlin, O.	WPLO-FM Atlanta, Ga. WPLR New Haven, CT 99.1 WPLZ Petersburg VA 99.3	WQXX Morganton, NC 92.1 WQXY-FM Baton Rouge, La. WQYK-FM St. Petersburg, Fla.
WMSY E. St. Louis, III. WMSB Mississippi State,	WOBM Toms River, N.J. WOBN Westerville, Ohio WOBR-FM Wanchese N.C. 95 9	WPME-FM Punxsutawney PA 105.5 WPMO Pascagoula, MS 99.1	WQYT Binghamton, NY 98.1 WQZY Dublin, GA 95.9
WMSC Upper Montclair, NJ 105.5 WMSG-FM Oakland, Md.	WOCB-FM W. Yarmouth, Mass. WOCG Huntsville, AL 90.1 WOCH-FM North Vernon, Ind. WOCN-FM Miami Beach, Fla.	WPNE-FM Chilton WI 89.3 WPNH-FM Plymouth, NH 100.1 WPNM Ottawa, OH 106.3	WRAD-FM Radford, Va. WRAG-FM Carroliton, Ala. WRAJ-FM Anna, III. WRAK Williamsport PA 102.7
WMSH-FM Elizabethtown, Pa. WMSK-FM Morganfield, Ky. WMSP Harrisburg, Pa.	WOCN-FM Miami Beach, Fla. 94.9 WOCO Oconto, Wis. 107.1	WPNR-FM Utica, NY 90.7 WPOB Plainview NY 88.5 WPOC Baltimore, MD 93.1	WRAL Raileigh, NC 101.5 WRAR-FM Tannahannock, Va
WMST-FM Manchester, Jenn.	WOCR Olivet, M1 89,7 WOEL-FM Elton, MD 88.3 WOES Elsie, MI 013	WPOK-FM Pontiac, III. 103.1 WPOL Gaylord MI 95.3 WPOR-FM Portland, Me. WPOS-FM Holland, O.	WRAS Atlanta, Ga. 88.5 WRAY-FM Princeton, Ind. WRBB Boston, Mass. 91.7
WMSU Hattlesburg MS 91.1 WMT-FM Cedar Rapids, Ia. 96.5 WMTB Emmitsburg, MD 89.9 WMTF Stowe, VT 91.5	WOFM Greeneville, Tenn. WOGM Bellefontaine, O. 98.3 WOHS-FM Shelby, N.C.	WPPA-FM Pottsville, Pa. WPPL Blue Ridge, Ga. 103.9	WRBJ-FM St. Johns, Mich.
WMTF Stowe VT 91.5 WMTH Park Ridge, III. WMTL-FM Leitchfield, Ky. WMTM-FM Moultrie, Ga. WMTS-FM Murfreesboro, Tenn.	WOI-FM Ames, Iowa WOIV De Ruyter Twp., NY 105.1 WOJO Evanston IL 105.1	WPQR-FM Uniontown, Pa. 98.5 WPRB Princeton, N.J. WPRC-FM Lincoln, III. 100.f WPRE-FM Prairie du Chien, Wis.	WRBN-FM Warner Robins, Ga. 101.7 WRBR South Bend, Ind.
	WOKA-FM Douglas, GA 106.7 WOKD Arcadia, FL 98.3	WPRK Winter Park Fla 94.5	WRBS Baltimore, Md. WRCC Cape Coral, FL 103.9 WRCH-FM New Britain, Conn.
WMUB Oxford, Ohio WMUH Allentown, Pa. WMUH Kalamazoo, Mich. WMUL Huntington, W.Va.	WOKF Clearwater, FL 95.7 WOK1-FM Oak Ridge-Knoxville TN 100.3 WOKN Goldsbero NC 102.3	WPRM-FM San Juan, P.R. 98.5 WPRO-FM Providence, R.I. WPRS-FM Paris, III. WPRT-FM Prestonburg, Ky.	WRCI Midland, MI 93.5 WRCM Jacksonville, N.C.
WMUN Maratnon, FE 94.3 WMUN Muncie, Ind. WMUU-FM Greenville, S. C.	WOKQ Dover-Portsmouth NH 97.5 WOKU-FM Greenshurg Pa	WPSI Lahman PA 901	WRCO-FM Riverhead NY 103.9 WRCO-FM Richland Center, Wis.
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IOV	VA		WCVB-TV 5 WNAC-TV 7		·	Schnectady-	†WXXI 21 WRGB 6	
Ames-Des Moines Cedar Rapids-	WOI-TV 5		WSBK-TV 38 †WGBX-TV 44 WQTV 68	1	TANA	Albany-Troy Syracuse	WRGB 6 †WMHT 17 WSYR-TV 3	1
Cedai napids-	WMT-TV 2 KCRG-TV 9	Cambridge.	WXNE-TV 25	Billings	KTVQ 2 KULR-TV 8	Syracuse	WTVH 5 WNYS-TV 9	
Council Bluffs Davenport	†KBIN 32 WOC-TV 6	Boston New Bedford	WLVI-TV 56 WTEV-TV 6 WWLP 22	Butte Glendive	KXLF-TV 4 KTVM 6 KXGN-TV 5		W.O NH 43 †WCNY-TV 24	
Des Moines	KCCI-TV 8 †KDIN-TV II	Springfield	WWLP 22 WGBY-TV 57	Great Falls	KRTV 3 KFBB-TV 5	Utica	WKTV 2 WUTR 20	
Dubuque Fort Dodge	WHO-TV 13 KDUB-TV 40	Springfield Holyoke	WHYN-TV 40 WSMW-TV 27	Helena Kalispell	KTCM 12 KCFW-TV 9	Watertown	TWNPE-TV 16	
Fort Dodge lowa City Mason City	†KTIN 46 †KIIN-TV 12 KIMT 3	Worcester		Miles City Missoula	KYUS-TV 3 KGVO-TV 13	NORTH C	AROLINA †WUNF-TV 33	
Red Oak	†KYIN 24 †KHIN 36	MICH Allen Park	IGAN - WXON 20		KPAX-TV 8	Chapel Hill	WANC-TV 21 †WUNC-TV 4	
Sioux City	KCAU-TV 9	Alpena	WXON 20 †WCML-TV 6 WBKB-TV II	NEBR	ASKA	Charlotte	WBTV 3 WSOC-TV 9	
Waterloo-	KMEG 14	Ann Arbor	+WCML-TV 6 WRHT 31	Albion Alirance	KCNA-TV 8		WCCB 18 WRET-TV 36	
Cedar Rapids	KWWL-TV 7	Battle Creek Bay City-Sag-	WUHQ 41 WNEM-TV 5	Bassett Grand Island	†KMNE·TV 7 KG!N•TV II	Columbia Concord	†WTVI 42 †WUND-TV 2 †WUNG-TV 58	i
KAN: Ensign	KTVC 6	inaw-Flint Cadillac- Traverse City	WWTV 9	Hastings	KHAS-TV 5 †KHNE-TV 29 KWNB-TV 6	Durham Durham-	WPTF-TV 28	
Garden City	KUPK-TV 13	Cheboygan Detroit	WTOM-TV 4 WJBK-TV 2	Hayes Center Hay Springs Kearney	KÖÜH-TV 4	Raieigh Greensboro	WTVD 11 WFMY-TV 2	1
Goodland Great Bend	KLOE-TV 10 KCKT 2 Kays-TV 7	1	WDIV 4 WXYZ-TV 7	Holdrege Lexington	KHGI-TV 13 †KLNE-TV 3	Greenville	WNCT-TV 9 WUNK-TV 25	
Hays Hutchinson Hutchinson•	KAYS-TV 7 †KPTS 8		WXON 20 WKBD-TV 50	Lincoln	KOLN-TV 10 †KUON-TV 12	Hickory High Point	WHKY-TV 14	
Wichita Pittsburg-	KTVH 12	East Lousins	†WTVS 56 WGPR-TV 62 †WKAR-TV 23	McGeek- Oberlin	KOMC 8	Greensbore & Winston Salem	WGHP-TV 8	
Joplin Topska	KOAM-TV 7 †KTWU II	East Lansing Escanaba Flint	KJMN-1V 3 WJRT-TV 12	Merriman Norfolk North Platte	†KRNE-TV 12 †KXNE-TV 19 KNOP-TV 2	Jacksonville	WX11 12 WLNS-TV 19	
,	W18W-TV 13 KTSB 27	Grand Rapids	WOTV 8 †WGVC 35 WZZM-TV 13	Omaha	KMTV 3 +KPNE-TV 9	Linville New Bern	†WUNE-TV 17 WCTI-TV 12	
Wichita	KARD-ŤV 3 KAKE-TV 10	Jackson	wwin.tv ix		WOWT 6 KETV 7	Raleigh Raleigh-	WLFL-TV 22	
KENT	JCKY	Kalamazoo Lansing	WJIM-TV 6	Scottshinff-	†KYNE-TV 26	Durham Washington Wilmington	WRAL-TV 5 WITN-TV 7 WWAY 8	
Ashland Rowling Green	†WKAS 25 WBKO 13	Marquette	WILX-TV 10 WLUC-TV 6 +WNNU-TV 13	Gering Superior	KSTF 10 KSNB-TV 4	** iimington	WECT 6	
Bowiing Green Covington	TWKGB 53	Mt: Pleasant Saginaw	WCMU-TV 14 WEYI-TV 25		ADA	Winston-Salem	TWUNL-TV 26 WGNN-TV 45	
Etizabethtown Hazard	†WKZT 23 †WKHA 35	Sault Ste. Marie	wwup.TV IO	Henderson Las Vegas	KVVU 5 KLAS-TV 8 +KLVX 10	NORTH	DAKOTA	
Lexington	WKYH-TV 57 WLEX-TV 18	Traverse City	WGTQ 8 WPBN-TV 7 WGTU 29	Rano	†KLVX 10 KSHO-TV 13 KTVN 2	Bismarck	KFYR-TV 5 KXMB-TV 12	
A.	WKYT-TV 27 †WKLE 46 WTVQ-TV 62	University Ctr. (Bay City)	WUCM-TV 19	Reno	KCRL-TV 4 KOLO-TV 8	Devils Lake Dickinson	WDAZ-TV 8 KDIX-TV 2	
	W I VU-I V 02	I (BEA CITA)		· //				

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Location	C.L. Chan.	Location	C.L. Chan.	Location	C.L. Chan.	Location	C.L. Chan.
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Fargo	KQCD-TV 7 WDAY-TV 6		WCAU-TV 10 WPHL-TV 17	Beaumont	KFDM-TV 6 KBMT 12	Staunton WACUI	HWYPT 51
Fargo-Grand	†KFME 13	Philadelphia	WTAF-TV 29	Belton Big Spring	†KNCT 46 Kwab-TV 4	Bellingham	KV08-TV 12
Forks Grand Forks	KTHI-TV II †KGFE 2 KMOT 10	(Burlington, N.J.)	WKBS 48	Bryan College Station	KBTX-TV 3 †KAMU-TV 15	Kennewick Pasco-	KVEW 42
Minot	KMOT 10 KXMC-TV 13	Pittsburgh	KDKA-TV 2 WTAE-TV 4	Corpus Christi	KIII 3 †KEDT 16	Kennewick- Richtaged	KEPR-TV 19
Valley City (Fargo) Williston	KXJB-TV 4		KHSD-TV II WIIC-TV II		KRIS-TV 6 KZTV 10	Pullman Richland-Pasco-	†KWSU-TV 10
Williston	KUMV-TV 8 KXMD-TV II		†WQED 13 †WQEX 16	Dallas Dallas-Ft. Worth	†KERA-TV 13	Kennewick Seattle	KNDU 25 KOMO-TV 4
ОН	IIO		WPTT-TV 22 WPGH-TV 53		WFAA-TV 8 KXTX-TV 39	044111	KING-TV 5 KIRO-TV 7
Akron	WAKR-TV 23	Scranton & Wilkes-Barre	WNEP-TV 16	E! Paso	KDBC-TV 4 †KCOS 7	Spokane	†KCTS-TV 9
Alliance	†WEAO 49 †WNEO-TV 45		WDAU-TV 22 WVIA-TV 44		KTSM-TV 9 KVIA-TV 13	Оронало	KXLY-TV 4 KHQ-TV 6
Athens Cambridge	TWOUB-TV 20 TWOUC-TV 44	State College Wilkes-Barre	WTIE-TV 29	E! Paso-	KCIK 14	Tacoma	†KSPS-TV 7
Canton Cincinnati	WJAN 17 WLWT 5	& Scranton York	WBRE-TV 28 WSBA-TV 43	Juarez	XEPM·TV 2 XEJ·TV 5	Tatoma	KCPQ-TV 13 †KTPS 62
•	WCPO-TV 9 WKRC-TV 12	_		Fort Worth- Dallas	WBAP-TV 5	Yakima	KNDO 23
	†WCET 48 WBTI 64		ISLAND WJAR-TV 10	Harlingen	KTVT II		KIMA-TV 29 KAPP 35
Cincinnati- Newport, Ky.	WXIX-TV 19	Providence	WPR1-TV 12	Houston	KGBT-IV 4 KPRC-TV 2 †KUHT 8		†KYVE-TV 47
Cleveland	WKYC-TV 3 WEWS 5	Providence	TWSBE-TV 36		KHOÙ-TV IÎ KTRK-TV I3	WEST V	IRGINIA
	WJKW-TV 8 WCTF 19	(New Bedford)	WTEV 6		KRIV-TV 26	Bluefield	WHIS-TV .
Columbus	†WVIZ-TV 25 WCMH-TV 4	SOUTH C	ABOLINA	Laredo	KHTV 39 KGNS-TV 8 KVTV 13	Charleston- Huntington	WCHS-TV 8 WBOY-TV 12
Oorumbus	WTVN.TV &	Allendale	TWEBA-TV 14	Laredo (Nuevo		Clarksburg Grandview	WSWP-TV 9
Dayton	WBNS TV 10 twosu-TV 34 WDTN 2	Anderson Beaufort	WAIM-TV 40 +WJWJ-TV 16	Laredo) Longview	XEFE-TV 2 KICH 51	Huntington Huntington-	TWMUL-TV 33
Dayton	WHIO-TY 7 WKEF 22	Charleston	WCBD-TV 2 WCIV 4	Lubbock	†KTXT-TV 5 KCBD-TV II	Charleston	WSAZ-TV 3 WHTN-TV 13
Kettering	†WPTD 16		WCSC-TV 5		KLBK-TV 13 KSEL-TV 28	Morgantown Oak Hill-	†WWVU 24
Lima	WLIO 35 †WBGU-TV 57	Columbia	WIS-TV 10 WLTX 19	Lufkin McAllen	KTRE-TV 9 KVEO 48	Beckley Parkersburg-	WOAY-TV 4
Lorain- Cleveland	WUAB 43		WOLO-TV 25 TWRLK-TV 35	Midland Midland &	KDCD-TV 18	Marietta Weston-	WTAP-TV 15
Oxiond Portsmouth	WPTO 14 †WPBO-TV 42	Florence	WBTW 13	Odessa Monahans	KMID-TV 2 Kmom-TV 9	Clarksburg Wheeling-	WDTV 5
Steubenville- Wheeling	WSTV-TV 9	Greenville	†WJPM-TV 33 †WNTV 29 WGGS-TV 16	Odessa Port Arthur-	KOSA-TV 7	Steubenville	WTRF-TV 7
Toledo	WTOL-TV II WSPD-TV I3	Greenville-	WGGS+IV IO	Beaumont San Angelo	KJAC-TV 4 Kacb-TV 3	WISC	ONSIN
	WDHO-TV 24 †WGTE-TV 30	Spartanburg & Asheville	WFBC-TV 4	San Antonio	KACB-TV 3 KCTV 8 KMOL-TV 4	Colfax	†WHWC-TV 28
Youngstown	WFMJ-TV 21 WKBN-TV 27		WLOS-TV 13		KENS-TV 5 KSAT-TV 12	Eau Claire Green Bay	WEAU-TV 13 WBAY-TV 2
Zanesville	WYTV 33 WHIZ-TV 18	Myrtle Beach Rock Hill	WGSE 43 twnsc-TV 30	San Antenio-	KWEX-TV 41	•	WERV-TV 5
		Sumter	†WRJA-TV 27	Austin Sweetwater-	†KLRN-TV 9	1.0	WLRE 26 †WPNE 38 WKBT 8
OKLAF Ada-Ardmore	HOMA KTEN 10	SOUTH		Abilene Temple-	KTXS-TV 12	LaCrosse	WXUW-IV 19
Ardmore & Sherman-	KILN 10	Aberdeen	KABY-TV 9 †KDSD-TV 16	Wate Tyler-	KCEN-TV 6	Madison	WHLA-TV 31 WISC-TV 3
Denison	KXII 12	Brookings Deadwood-	†KESD-TV 8	Lengview Victoria	KLTV 7 KXIX 19	i	WMTV 15 †WHA-TV 21 WKOW-TV 27
Cheyenne Eufaula	†KWET 12 †KOET 3	Lead Florence-	KDSJ.TV 5	Waco Weslaco	KWTX-TV 10	Milwaukee	WTMJ-TV 4
Lawton (Wichita		Watertown /	KDLO-TV 3 KHSD-TV 11	Wichita Falls	KRGV-TV 8 KFDX-TV 3 KAUZ-TV 6		WITI-TV 6 twmvs 10
Falls) Oklahoma City	KSWO-TV 7 KTVY 4	Lowry	KIVV-TV 5 †KQSD-TV II		†ŘÎDŽ-TV 24		WISN-TV 12 WVTV 18
	KOCO-TV 5 KWTV 9	Martin Mitchell	†KŽSD-TV 8 KXON-TV 5	UTA			WCGV 24 †WMVT 36
	†KETA 13 †KOKH•TV 25	Pierre	†KTSD-TV 10 KPRY-TV 4	O gden	†KOET 9 †KWCS-TV 18 †KBYU-TV 11	Park Falls Rhinelander	TWLEF-TV 36
Sayre Tulsa	KVIG-TV 8 KTEW 2	Rapid City	KOTA-TV 3	Provo Salf Lake City	†ŘBYŬ-TV II KUTV 2	(Wausau) Wausau	WAEO-TV 12 WSAU-TV 7
	KOTV 6 KTUL-TV 8	Reliance	KEVN-TV 7 †KBHE-TV 9 KPLO-TV 6		KTVX 4 KSL:TV 5		WAOW-TV 9 TWHRM-TV 20
	†KOED-TV II	Sioux Falls	KELO-TV II KSFY-TV 13		TKUED 7 KSTU 20	WYO	
ORE		Vermillion	tKUSD-TV 2	VERM		Casper	KTWO-TV 2
Bend Coos Bay	KTVZ 21 KCBY-TV 11	TENNI		Burlington		Cheyenne Lander-	KYCU-TV &
Corvallis Eugene	†KOAC-TV 7 KEZI-TV 9	Chattanooga	WRCB-TV 3 WTVC 9 WDEF-TV 12		WCAX-TV 3' WVNY-TV 22 +WETK 33	Riverton- Thermopolis-	
Klamath Falls	KVAL•TV 13 KOTI 2		†WTCI 45	Rutiand St. Johnsbury	†WETK 33 †WVER 28 †WVTB 20	Worland Rock Springs	KWRB-TV 10 KTUX 13
Medford	KOBI 5 KSYS 8	Cookeville	WRIP-TV 61 †WCTE 22 WCPT-TV 55	Windsor	WÝTĂ ÃĨ	Sheridan	KSGW-TV 12
Portland	KTVL 10 KATU 2 KOIN-TV 6	Crossville Jackson	WCPT-TV 55 WBBJ-TV 7	VIRG	INIA		
	KGW-TV 8	Johnson City- Bristol-		Bristol- Kingsport &		U.S. POS	SESSIONS
	†KOAP-TV 10 KPTV 12	Kingsport Kingsport	WJHL-TV II WKPT-TV 19	Johnson City Charlottesville	WCYB-TV 5 WVIR-TV 29	GU.	AM
Roseburg Salem	KPIC 4 KVDO-TV 3	Knoxville		Fredericksburg Goldvein	WHFV 69 †WNVT 53	Agana	KUAM-TV 8
PENNSY	IVANIA	Lexington	WBIR-TV 10 WTVK 26 †WLJT-TV 11	Hampton- Norfolk			†KGTF 12
Allentown-	WEM7.TV 69	Memphis	WREC-TV 3 WMC-TV 5	Harrisonburg	WVEC-TV 13 †WHRO-TV 15 WHSV-TV 3	PUERTO	RICO
Bethlehem Altoona	†WLVT-TV 89 WTAJ-TV 10 WOPC 38		WHBQ-TV 13	Lynchburg- Roanoke	WLVA-TV 13	Aguadilla- Mayaguez	WOLE-TV 12
Clearfield	WOPC 38	Nashville	WPTY-TV 24	Manassas Norfolk	WTKK 66 WTAR-TV 3	Caguas	WVEO 44
Erie Erie	TWPSX-TV 3 WICU-TV 12 WJET-TV 24		†WDCN-TV 8 WZTV 17 WSM-TV 4	Norten	WTVZ 33 †WSVN-TV 47	San Juan Mayaguez	WKBM-TV II †WIPM-TV 8
	WSEE 35 twoln 54		WTVF 5 WNGE 2	Portsmouth Portsmouth	WYAH-TV 27	/ Ponce	WORA-TV 5 WRIK-TV 7
Greensburg Harrisbur g	WPCB-TV 40 WHP-TV 21	Sneedville	†WSJK-TV 2	Norfolk-New- Port News	WAVY.TV In	San Juan	WSUR-TV 9 WKAQ-TV 2
Harrisburg Hershey	WTPA 27 tWITE-TV 33	TEX.	AS Krbc-TV 9	Richmond	WAVY-TV 10 WTVR-TV 6 WWBT 12		WAPA-TV 4 †WIPR-TV 6
Johnstown	WIAC-TV 6 I	Amarillo	KAMR 4 KVII-TV 7	-	tWCVE-TV 23	VIDGIN	
Lancaster	WJNL-TV 19 WGAL-TV 8	Austin	KFDA-TV 10 KTBC-TV 7	Richmond- Petersburg	WXEX-TV 8	/ VIRGIN	ISLAND2
Lancaster- Lebanon	WLYH-TV 15 KYW-TV 3	Owetill	†KLRU-TV 18 KTVV 36	Roanoke	WDBJ-TV 7 WSLS-TV 10	Amalie Charlette-	WBNB-TV 10
Philadelphia	WPVI-TV 6		KVUE 24		TWBRA-TV 15	Amalie	†WJTX-TV 12
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□ Abbreviations used in this list: kHz–frequency in kilohertz; MHz–frequency in megahertz; W.P.–power in watts; d—daytime operation only; r–reduced power at night; n–nighttime power; C.L. or Call—call letters or call sign; Chan. or Ch.—TV channel number; †—educational TV station. Wavelength is given in meters. Listing indicates stations on the air as of September 28, 1978.

CANADIAN AM STATIONS BY FREQUENCY

CANADIAN AM STA	TIONS BY	FREQUENCY
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CANADIAN AM STATIONS BY FREQUENCY										
Call	Location	W.P.	Call Location	W.P.	Call	Location	W.P.	Call	Location	W.P.
CBEF CBK R CBT GI	.555.5 Windsor, Ont. egina, Sask. and Falls, Nfld. .545.1 (amloops, B.C. Fredericton, N.B.	2,500 50,000 10,000 10,000	710—422.3 CHYR Leamington, CIPC Port-Cartier, CIRN Niagara Falls, CKVM Ville-Marie, CKVO Clarenville, N 730—410.7	Que. 1,000 Ont. 5,000	CBV C CFPL CHEX CKGM CKNW	-305.9 Quebec, Que. London, Ont. Peterborough, Ont. Montreal, Que. / Vancouver/New Westminster, B.C. Regina, Sask.	10,000	CJTT N CKMP CKQR CKRN CKTK CKYR	ste-Agathe-des-Mont Que. Jew Liskeard, Ont. Midland, Ont. Casilegar, B.C. Rouyn, Que. Kitimat, B.C. Grande Cache, Alta St. John s, Nfld.	1,000 1,000 1,000 1,000 1,000
CHLN CHNO CKPG KARI	Trois-Rivieres, Que Sudbury, Ont. Prince George, B.C. Vancouver, B.C. (st in Blaine, W.A	. 10,000	CJNR Blind River, (CKAC Montreal, Que CKDM Dauphin, Mal CKGA Gander, Nffd. CKLG Vancouver/Nor Vancouver,	50,000 n. 10,000 1,000	CBW CBY (-302.8 Winnipeg, Man. Corner Brook, Nfld.)-299.8	50,000 10,000	1240- CFEK I CFLM I	-241.8 Fernie, B.C. La Tuque, Que. Lac Etchemin. Que. Labano, Que. The Pas, Man.	1,000 - 1,000 1,000 1,000
CFOS C CHCM CHTK CJKL I	.525.4 Dwen Sound, Ont. Marystown, Nfld. Prince Rupert, B.C. Kirkland Lake, Ont. Sept-Iles, Que. Fort St. John, B.C.	5,000 10,000 1,000 5,000 10,000 1,000	740—405.2 CBL Toronto, Ont. CBX Edmonton, Alta 790—379.5 CFAN Newcastle, N.E	B. 5,000	1010 CBR C CFRB	Pridgewater, N.S. D—296.9 Calgary, Alta. Toronto, Ont.	50,000 50,000	CJAV F CJCS S CJNH F CJNS M CJRW S	one Pas, Man. Port Alberni, B.C. Pratford, Ont. Chibougamau, Que. Bancroft, Ont. Meadow Lake, Sask. Summerside, P.E.I. Wawa, Ont.	1,000 1,000 500 1,000 1,000 1,000 250 1,000
CFCB CFWH CHYM CJEM CKEK CKSW	-526.0 Corner Brook, Nfld. Whitehorse, Y.T. Kitchener, Ont. Edmundston, N.B. Cranbrook, B.C. Swift Current, Sasl	5,000 5,000 10,000 (, 10,000	CFNW Port au Choix CHIC Brampton, Ont CHIC Toronto, Ont, CKSO Sudbury, Ont. 800-374.8	Alta. 50,000 t, Nfld. 1,000 . 5,000 . 5,000 50,000	CFGP CFYN CHUM CJNB	D—285.5 Grande Prairie, Alta. Sault Ste. Marie, Ont. Toronto, Ont. North Battleford, Vernon, B.C.	50,000	CKBS SCKBX CKGO CKIM SCKLS I CKLS I CKMK	St-Hyacinthe, Que. 100 Mile House, B.C. Hope, B.C. Baie Verte, Nfld. La Sarre, Que. MacKenzie, B.C. Oliver-Osoyoos, B.C	250 1,000 1,000 1,000 1,000
580- CFRA CHLC CHLC	Williams Lake, B. -516.9 Ottawa, Ont. Baie Comeau, Que. Hauterive, Que. Antigonish, N.S. Kanuskasing Ont	50,000 5,000 5,000 10,000	CBQ Thunder Bay, O CFOB Fort Frances, CHAB Moose Jaw, S: CHRC Quebec, Que. CJAD Montreal, Que, CJBQ Belleville, Ont CJJC Langley/Vancou	Ont. 1,000 ask. 10,000 50,000 . 50,000 . 10,000	CKSB CKSB 1060 CFCN	St. Boniface, Man. Winnipeg, Man.)—282.8 Calgary, Alta. Quebec, Que.	10,000 10,000 50,000 50,000	CBGA CHSM CHWD CKOM	-239.9 Mafane, Que. Steinbach, Man. Oakville, Ont. Saskatoon, Sask.	10,000 10,000 10,000 10,000
CKWW CKXR CKY V	Kapuskasing, Ont. Thunder Bay, Ont. Edmonton, Alta. Windsor, Ont. Salmon Arm, B.C. Vinnipeg, Man.	5,000 10,000 500 10,000 10,000	CKLW Windsor, Ont CKOK Penticton, B. VOWR St. John's, N 810—370.2 CHQR Calgary, Alta. CJVA Caraquet, N. CKIS Winnigeg, Mai	. 50,000 C. 10,000 fld. 5,000	CBA CFAX CHOK CKST	D-280.2 Moncton, N.B. Victoria, B.C. Sarnia, Ont. St. Albert, Alta.	50,000 10,000 10,000 10,000	1270.	Edmonton, Alta. Fredericton, N.B. — 263.1 Hull, Que. Ottawa, Ont. Almá, Que. Medicine Hat, Alta	50,000 100,000 50,000 10,000
CFAR CFNL CFTK CJCW CKEY CKEY	Flin Flon, Man. Fort Nelson, B.C. Terrace, B.C. Sussex, N.B. Toronto, Ont. Jonquiere, Que. St. John's, Nfld.	10,000 250 1,000 500 100,000 10,000	860-348.6 CBH Halifax, N.S. CFNS Saskatoon, Sas CFPR Prince Rupert	10,000 sk. 10,000 ,,B.C. 10,000	1090	Lloydminster, AltaSask. 0-275.1 Lethbridge, Alta. Longueuil, Que. Montreal, Que.	5,000 10,000 10,000 10,000	CHWK CJCB S CJTN 1	Medicine Hat, Alta Chilliwack, B.C. Sydney, N.S. Trenton, Ont. —234.2 Powell River, B.C. High River, Alta.	10,000 10,000 10,000 1,000
CFCF CFCH CFCT CFQC	-499.7 Montreal, Que. North Bay, Ont. Tuktoyaktuk, N.W. Saskatoon, Sask. Vancouver, B.C. Truro, N.S.	5,000 10,000 T. 1,000 50,000 10,000	CFVR Abbotsford, B CJBC Toronto, Ont. CKVL Montreal, Que CKVL Verdun. Que. 900—333.1 CFBR Sudbury, Ont. CHML Hamilton, On	50,000 50,000 50,000	CHRS CKKV	St-Jean, Que. V Kitchener, Ont. D—272.6 Saint John, N.B. Edmonton, Alta. Sarnia, Ont.	10,000 10,000 10,000 50,000 10,000	CIID F CIMS CISL F CKCV	Hamilton, Ont. Montreal, Que. Estevan, Sask. Quebec, Que.	10,000 50,000 10,000 10,000
610- CHNC CHNL	-491.7 New Carliste, Que. Kamloons/Clearwat	10,000	CJBR Rimouski, Que CJEN St-Jerome, Que CJVI Victoria, B.C. CKBI Prince Albert, CKDC Amherst, N.S CKDR Dryden, Ont. CKTS Sherbrooke, Q	. 10,000 e. 1,000 10,000 Sask. 10,000 . 1,000	114	0—265.3 X Vancouver, B.C. 0—263.0 Sydney, N.S.	50,000	1300	Winnipeg, Man. Matane, Que. London, Ont. —230.6 Moncton, N.B. Regina, Sask.	5,000 10,000
CKML CKRW CKTB CKYL CKYQ	Mont-Laurier, Que Whitehorse, Y.T. St. Catharines, Ont Peace River, Alta. Grand Bank, Nfld.	1,000 1,000 1,000	910-329.5 CFSX Stephenville, CHRL Roberval, Que CJDV Drumheller, A CKLY Lindsay. Ont.	Nfld. 500 . 10,000	115	Trois-Rivieres, Que. Calgary, Alta. 0—260.7 R Hawkesbury, Ont. Saint John, N.B. Hull, Que. Ottawa, Ont. Kelowina, B.C.	250 10,000 250 10,000 50,000 50,000	CFGM CHGB CIOK CKOY	-228.9 Toronto, Ont. La Pocatiere, Que. St. Paul, Alta. Ottawa, Ont.	50,000 10,000 10,000 50,000
CFCL CFRP CJC1 I CKCK	- 483.6 Timmins, Ont. Forestville, Que. Prince George, B.C. Regina, Sask. Grand Falls, Nfld.	10,000 1,000 10,000 10,000 10,000	920—326.9 CBO Ottawa, Ont. CFLS Levis, Que. CFLS Quebec, Que. CFRY Portage La Pr	50,000 1,000 1,000	CKX CKX	Kelowna, B.C. Hamilton, Ont. Brandon, Man. 0-256.3 Cornwall, Ont. Y Red Oper, Alta.	10,000 10,000 50,000	CFGM CHQM CJSO CKEC	Richmond Hill, On Vancouver, B.C. Sorel, Que. New Glasgow, N.S.	50,000 10,000 5,000
CFBK CFCO CFCY CHED	-475.9 Huntsville, Ont. Chatham, Ont. Charlottetown/Nort River, P.E.I Edmonton, Alta. Sherbrooke, Que.	50,000 10,000	CJCH Halifax, N.S CJCJ Woodstock, N.E CKCQ Quesnel, B.C. CKCY Sault Ste. Mar	. 25,000 3. 10,000 10,000 rie, Ont. 10,000	119 CFSL CHTS	O—252.0 Weyburn, Sask. Charlottetown, P.E.I Mississauga, Ont.	10,000	CKKR CKLD	Kindersley, Sask. Rosetown, Sask. Thetford Mines, Que. -223.7 Parry Sound, Ont.	250
CKRC CKOV CKRC	Smiths Falls, Ont. Lachute, Que. Norway House, Ma Kelöwna, B.C. Winnipeg, Man.	10,000 1,000 in. 50 5,000 10,000	930—322.4 CFBC Saint John, N CJCA Edmonton, Alt CJYQ St. John's Nf CKNS Espanola, Ont 940—319.0	a. 50,000 ld. 50,000	122 CHSC	0—247.8 3 Frohisher Bay, N. 0—245.8 St. Catherines, On	t. 1.000	CFGB CFKC CFLC CFLH CFLW CFYK	Chapais, Que. Happy Valley, Nfld Creston, B.C. Churchill Falls, Nf Hearst, Ont. Wabush, Nfld. Yellowknife, N.W.	250 Id. 250 I,000 250 T. I,000
660- CHAK	6t. John's, Nfld. -454.3 Inuvik, N.W.T.	10,000	CBM Montreal, Que. CIVH Vanderhoof, B CJGX Yorkton, Sask. CJIB Vernon, B.C. 950—315.6	.C. f.000	CJRE CJRL CJSS	Lethbridge, Alta. Crowsnest Pass, Alta Crowsnest, B.C Boissevain, Man. Kenora, Ont. Cornwall, Ont. W Moncton/Cherryfic	. 10,000 10,000 1,000 1,000	CK BR CK BR CK CR CK DK CK GF	Amos, Que. Asbestos, Que. Yarmouth, N.S. Brooks, Alta. Revelstoke, B.C. Woodstock, Ont. Grand Forks, B.C.	1,000 1,000 5,000 1,000 1,000 1,000
680- 670 CFDR	-447.5 Musgravetown, Nfld -440.9 Dartmouth, N.S. Toronto, Ont.	. 10,000 50,000 25,000	CFAM Altoona, Man CHER Sydney, N.S. CKBB Barrie, Ont. CKNB Campbellton, 960—312.3	10,000 10,000 N.B. 10,000	123 CFB	A Victoria, B.C. M Shawinigan, Que. O—243.8 V Smithers, B.C. N Port-aux-Basques,	50,000 10,000 1,000	1350 CFYQ CHAL CHOV	Elliot Lake, Ont. Temiscaming, Que. D—222.1 Gander, Nfld. St-Pamphile. Que. Pembroke, Ont.	1,000 1,000 1,000 1,000
CHFA CIYQ CJOB CKGB	Edmonton, Alta. Grand Falls, Nfld. Winnipeg, Man. Timmins, Ont.	10,000 10,000 50,000 10,000	CFAC Calgary, Alta. CFTJ Cambridge, On CHNS Halifax, N.S. CKWS Kingston, On 970—309.1 CBZ Fredericton, N.	t. 1,000 10,000 t. 10,000	CFLI CFLI CFP CHF CHV	Kapuskasing, Ont N Happy Valley, Nfl A Thunder Bay, Ont. C Fort Churchill, M: D Dolbeau, Que. R Hinton, Alta.	an. 250 10,000 50	CJDC CJLM CKAD CKLB	Dawsen Creek, B.C Joliette, Que. Middleton, N.S. Oshawa, Ont.)—220.4	
CBF I CBU CFRG	Montreal, Que. Vancouver, B.C. Gravelbourg, Sask.		CJYR Edson, Alta. CKCH Hull, Que. CKCH Ottawa, Ont.	10,000 10,000 5,000	C10H C1NI	Disraeli, Que. Merritt, B.C. Fort McMurray, Al		сквс	Ste-Marie-Beauce, Que. Bathurst, N.B.	10,000

The source of all Canadian station information is Matthews' List, published three times a year by Matthews' & Partners, Ltd., P.O. Box 1029, Pointe Claire, Que., H9S-4H9. Price: \$100 per year.

				1	-	
Call Location W	f.P. Call Le	cation W.P.	Call Location	W.P.	Call Location	; W.P.
	,000 CJFX Port	N.S. 10,000 Hawkesbury, N.S. 10,000	CKYR Jasper, Aita. 1460—205.4	100	1500—199.9 CKAY Duncan, B.C.	10,000
CHPQ Parksville, B.C. 1. CJWW Saskatoon, Sask. 10	000 1420—2 CJMT Chies	11.1 outimi, Que. 19,000	CJOY Guelph, Ont. CKRB St-Georges-d	60,000 e-Beauce, Que. 10,000	1510—199.1 CJRS Sherbrooke, Que. CKOT Tillsonburg, Ont.	10,000
CKLC Kingston, Ont. 10	CJVR Metfor CKDY Digit CKPT Peter CKTL Pless	y, N.S. 1,000 borough, Ont. 10,000	1470-204.0 CHOW Welland, On CJVB Vancouver, B	t. 1,000 .C. 10,000	1540-195.0 CHIN Toronto. Ont.	50,000
CHOO Ajax, Dnt. 10, CHOO Toronto, Ont. 10,	000 000 000 CKFH Toro		CKO Montreal, Que. CKPB Bagotylile, Q	10,000	1550-193.5 CBE Windsor, Ont.	10,000
1400-214,2 CFLD Burns Lake, B.C. 1. CFYR Whitecourt, Atta.	1440—20 50 CFCP Court 50 CFG0 Ottav	enay, R.C. I 666	1480-202.6 CHRD Drummondvi	lle, Que. 10,000	1570—191.1 CFOR Orillia, Ont.	10,000
CINL Princeton, B.C. 1, CJFP Riviere-du-Leup, Que. 10,	000 CJOI Wetas 000 1450—20	Niwin, Alta. 10,000 06.8	1490—201.2 CFHG Holberg, B.C CFMR Fort Simpson	.	CHLO St. Thomas/London, Ont. CHUB Nanaimo, B.C. CKLM Laval, Que.	
CKFL Lac Megantic, Que. 1, CKOB Renfrew, Ont. CKRV Drummondville, Que. 2,	250 CFAB Wind 5-10 CFJR Brock	lear M C 950	CFPS Port Elgin, C CFRC Kingston, Ont CFWB Campbell Riv	.W.T. 50,000	CKLM Montreal, Que. CKLQ Branden, Man. CKTA Taber, Alta.	50,000 10,000 5,000
1410-212.6	CHMO Moos	DY. W.M.	CJMC Ste-Anne-des CJPR Blairmore, Alt CJSN Shaunavon, Sa	- Monts, Que. 1,000 ta. 1,000	1580—189.2 CBJ Chicoutimi, Que.	50,000
CFUN Vancouver, B.C. 50, CKSL London, Dat. 10,	000 CHUC Cohe 000 CHUC Port 000 CJBM Caus	urg, Ont. 1,050 Hope, Ont. 1,000	CKBM Montmagny, CKEN Kentville, N.: CKLR L'Annenciatie CKMV Grand Falls,	Que. 1,000 S. 1,000 In. Que. 2,000	1600—187.5 CHIB Chibougamau, Que. CHNR Simcoe, Ont.	40
	i		TIONS BY	·		10,000
Location Call ki	,	Call kHx	Location	Call kHz		l kHz
Abbotsford, B.C. CFVR Ajax, Dnt. CHOO I	390 Estevan, Sask		Lachute, Que. Lac Megantic, Que.	CJLA 630	Portage La Prairie, Man.	RY 920
Amherst, N.S. CKDC	950 Fornie, B.C. 900 Fiin Flan, M	CFEK 1240 an. CFAR 590	Langley, B.C. L'Annonciation, Que. La Pocatiere, Que.	CKFL 1400 CJJC 800 CKLR 1490 CHGB 1310	Port Alberni, B.C. CJA Portau Choix, Nfld. CFN Port-aux-Basques, Nfld.	AV 1240
Amos, Que. CHAD I Antigonish, N.S. CIGO I CJFX	410 Fort Churchil 580 Fort Frances,	I. Man. CHFC 1239 Ont. CFOB 800	La Sarre, Que. La Tuque, Que. Laval, Que.	CKLS 1240 CFLM 1240 CKLM 1570	Port-Cartier, Que. CII	N 1230 PC 710 PS 1490
Asbestos, Que. CIAN I Bagotville, Que. CKPB I	Fort Neison, 470 Fort St. Jame	B.C. CFNL 590 S. B.C. CIFJ	Leamington, Ont. Lethbridge, Alta.	CHYR 710 CHEC 1090 CJOC 1220	Port Hawkesbury, N.S. CIG CJF	GO 1410 X 1410
	240 Fort St. John 240 Fort Simpson,	Vanderhoof, CIVH) , B.C. CKNL 560 N.W.T. CFMR 1490	Levis, Que. Lindsay, Ont. Lieydminster, Aita./S	CFLS 920 CKLY 910	Port Hope, Ont. CHI	JC 1450 QB 1280
Bathurst, N.B. CKBC 1: Beileville, Ont. CJBQ	950 360 Fraser Lake, 800 (satellite of 490 Fredericton, h	B.C. CIFL Vanderhoof, CIVH)	Londen, Ont.	CKSA 1080 CFPL 980 CHLO 1570	Prince George, B.C. CKF Prince Rupert, B.C. CFF	CI 620 PG 550
Blairmore, Alta. CJPR I Blind River, Ont. CJNR Beissevain, Man. CJRB I	730 220	CFNB 550 CIHI 1260	Long Lac, Ont.	CJBK 1290 CKSL 1410 CHAP 1450	CHT	TK 560 NL 1400
Brandon, Man. CKLQ I	570 150	CFFB 1216	Longuouil, Que. MacKenzie, B.C.	CHRS 1090 CKMK 1240	Quebec, Que. CE CHF CFI	RC 800
Brantford, Ont. CKPC 13 Bridgewater, N.S. CKBW 16 Brockville, Ont. CFJR 14	000 4 50	CFYQ 1350 CKGA 730	Maniwaki, Que. Marystown, Nfid. Matane, Que.	CKMG 610 CHCM 560 CBGA 1250	Cli	RP 1060 CV 1280
Brooks, Alta. CKBR 13 Burns Lake, B.C. CFLD 14	400 (satellite of Salmon Arm	I, CKXR)	Meadow Lake, Sask. Medicine Hat, Alta.	CHRM 1290 CJNS 1240 CHAT 1270	Red Deer, Alta. CKG	Y 1170
	010 Grand Bank, 960 Grand Fails,	Nfld. CBT 540	Medley, Alta. Melfort, Sask. Merritt, B.C.	CHCL 1450 CJVR 1420 CINL 1230	Regina, Sask. CB CJN CKC	SK 540
CHOR CKXL	060 810 140 Grand Forks,	CKCM 620 CKMV 1499	Middleton, N.S. Midland, Ont. Mississauga, Ont.	CKAD 1350 CKMP 1230 CJMR 1190	CKC CKR Renfrew, Ont. CKC Revelstoke, B.C. CKC	
Campbeliten, N.B. CKNB (Cambridge, Ont. CFT)	956 Grande Gache,	Alta. CKYR 1230 e. Alta. CFGP 1050	Moneton, N.B.	CBA 1070	Revelstoke, B.C. CKC Richmond Hill, Ont. CFG Rimouski, Que. CJE Riviere-du-Loup, Que. CJF	M 1320 3R 900
Caraquet, N.B. CJVA (Castlegar, B.C. CKOR (230 Prince Geor	se, CJCf)	Ment-Laurier, Que. Mentmagny, Que. Mentreal, Que.	CKCW 1220 CKML 610 CKBM 1490	Roberval, Que. CHF Rosetown, Sask. CKK	RL 910 (R 1330
Gausapscal, Que. CJBM (4 Chapais, Que. CFED 13	150 Gravelbourg, 8 340 Guelph. Ont.	CJOY 1460	mentisai, Que.	CBM 940 CFCF 600	St. Albert, Alta. CKS	RN 1230 ST 1070
CHTN () Chatham, Ont. CFCO (Cherryfield, N.B. CKCW (2	190 Haniax, M.S.	CBH 860 CHNS 960 CJCH 920		CFMB 1410 CHRS 1090 CJAD 800	St. Catharines, Ont. CHS	SB 1050 SC 1220
Chibougamau, Que. CHIB 16	500 Hamilton, Ont	CHML 900 CJJ0 1280 CKOC (150		CJAD 800 CJMS 1280 CKAC 730 CKGM 980 CKLM 1570	CK1	TB 610 RT 1450
CIMT 14	120 Hauterine Out	Nfld. CFGB 1346 CFLN 1230	1		CKE	RB 1460 BS 1240 RS 1090
Chilliwack, B.C. CHWK 12 Churchill Falls, Nfld. CFLC 13 Clarenville, Nfld. CKVO 2 Clearwater, B.C. CHNL	Hawkesbury, 0 Hazelten, B.C	int. CHPR 1150 CKBV Smithers, CFBV)	Meese Jaw, Sask. Meesenee, Ont. Musgravetown, Nfld.	CKVL 250 CHAB 800 CHMO 1450 CHYQ 670	St-Jerome, Que. CJE St. John's, Nfid. CB CJY	EN 900 BN 640
Cobourg, Ont. CHUC 14 Collingwood, Ont. CKCB 14 Corner Brook, Nfld. CBY 0	High River. A	UF LM 1340	Nanalme, B.C. Nelson, B.C.	CHUB 1570 CKKC 1390 CHNC 610	· VOA	NR 1230 M 590
CFCB 5 Cornwall, Ont. CF1X 11 CJ88 12	Holberg, B.C.	CFHG 1490 CKGO 1240	New Carlisle, Que. Newcastle, N.B. New Glasgow, N.S.	CFAN 790	St-Pamphile, Que. CHA	SJ 1400 NL 1350
Courtenay, B.C. CFCP 14 Cranbrook, B.C. CKEK 5 Creston, B.C. CFKC 13	40 Houston, B.C.	CHBV Smithers, CFBV) CBOF 1270	New Liskeard, Ont. New Westminster, R.	C. CKNW 980	Ste-Agathe-des-Monts, Que.	K 1310 A 1230
Cross Lake, Man. CFNC Crowsnest Pass, Alta./	- Huntaville Co	CJRC 1150 CKCH 970	Ningara Falls, Ont. North Battleford, Sas	CJRN 710 I	Ste-Anne-des-Monts, Que.	1C 1490
Crowsnest, B.C. CJPR 12 Dartmouth, N.S. CFDR 6	Inuvik, N.W.T		North Bay, Ont. North River, P.E.I. Norway House, Man.	CFCH 600 CFCY 630	CIV	/L 1360 ID 1110 BC 930
Dauphin, Man. CKDM 7	30 Jasper, Alta.	CKYR 1450 CJLM 1350	Oakville, Ont.	CHWO 1250	' CHS	SJ 1150 (R 580 (K 1070
Digby, N.S. CKDY 14 Disraeli, Que. CJLP 12 Dolheau, Que. CHVD 12 Drumheller, Alta. CJDV 9	Jonquiere, Que 30 Kamieops, B.C	. CFIC 550	Oliver-Osoyoos, B.C. Orillia, Ont. Oshawa, Ont.	CFOR 1570 CKLB 1350	CKJ Saskatoon, Sask. CFN	ID 1110 IS 860
Drummondville, Que. CHRD 14 CKRV 14	80 Kapuskasing, (OHNL 610 Ont. CFLK 1230 CKAP 580	Ottawa, Ont.	CBO 920 CBOF 1270 CFGO 1440	CFG CJW CKO	C 600 W 1370 M 1250
Dryden, Ont. CKDR 9 Duncan, B.C. CKAY 15	00 Kenora, Ont.	CKIQ 1150 CKOV 630 CJRL 1220		CFRA 580 CJRC 1150	Sault Ste. Marie, Ont. CFYN CKC	
	40 Kentville, N.S.	. CKEN 1497 sk. CKKR 1330	Owen Sound, Ont.	CKCH 970 CKOY 1310 CFOS 560	Shaunavon, Sask. CJS	N 560 N 1490 M 1220
CHEO 6 CHFA 6 CHQT II	30 80 10 Kirkland Lake	CKUS 960	Parksville, B.C. Parry Sound, Ont.	CHPQ 1370 CFBQ 1340 CKYL 610	Sherbrooke, Que. CHL	.T 630 RS 1510
CHUA 5 CKUA 5 Edmundston, N.B. CIEM 5	80 Kitchener, Ont	. CHYM 570 CKKW 1090	Peace River, Aita. Pembroke, Ont. Penticton, B.C.	CHOV 1350	Simeoe, Ont. CHN Smithers, B.C. CFB	TS 900 IR 1600 IV 1230
Edmundston, N.B. CJEM 5 Edson, Alta. CJYR 9 Elliot Lake. Ont. CKNR 13	Kitimat, B.C. Kitimat, B.C. Lac Etchomin,	CKTK 1230 Que. CIRB 1240	Peterborough, Ont. Plessisville, Que.	CHEX 980 CKPT 1420 CKTL 1420	Sorel, Que. CJS	T 630 60 (320 M (250
UNICATIONS WORLD 197	70		-			4

CANADIAN AM STATIONS BY LOCATION

Location	Call kHz	Location	Call kHz	Location	Call kHz	Location	Call kHz
Stephenville, Nfld. Stratford, Ont. Sudbury, Ont. Summerside, P.E.I. Sussex, N.B. Swift Current, Sask Sydney, N.S. Taber, Alta, Temiscaming, Que. Terrace, B.C. The Pas, Man. Thetford Mines, Que Thompson, Man. Thunder Bay, Ont. Tillsonburg, Ont.	CJCW 590 CKSW 570 CBI 1140 CHER 950 CJCB 1270 CKTA 1570 CKVT 1340 CFTK 590 CJAR 1240	Trail, B.C. Trail, B.C. Trenton, Ont. Trois-Rivieres, Que. Truro, N.S. TuktoyAstuk, N.W.T. Val D'Or, Que. Valleyfield, Que. Vancouver, B.C.	CBL 740 CFGM 1310 CFGM 1310 CFTR 680 CFHIN 1540 CHOO 1390 CHUM 1050 CJBC 860 CKEY 590 CKFH 1430 CJAT 610 CJTN 1270 CHLN 550 CHLN 550 CHLN 550 CHLN 550 CHLN 550 CHLN 550 CHLN 550 CHLN 550 CHLN 550 CHLN 550 CHLN 1270 CHLN 550 CHLN 1410 CFCT 600 CFCT 600 CFCT 900 CFCT 1370 CBU 690 CFUN 1410 CHQM 1320 CGUN 1410 CHQM 1320 CGUN 600 CJVB 1470	(station in Blaine, Vanderhoof, B.C. Verdun. Que. Vernon, B.C. Victoria, B.C. Victoriaville, Que. Villa-Marie, Que. Wabush, Nfld. Ward Creek, N.B. (satellite of Monot Wawa, Ont. Welland, Ont. Westlock, Alta. Wetaskiwin, Alta. Weyburn, Sask. Whitecourt, Alta. Whitehorse, Y.T.	KARI 550 CIVH 940 CKVL 850 CJIB 940 CKAL 1050 CFAX 1070 CJVI 900 CKDA 1220 CFDA 1380 CKVM 710 CFU 1340 CJCW 1340 CJCW 1340	Williams Lake, B.C. Windsor, Ont. Wingham, Ont. Winnipeg, Man. Woodstock, N.B. Yarmouth, N.S. Yellowknife, N.W.T. Yorkton, Sask.	CKRW 610 CKWL 570 CBE 1559 CBEF 540 CFAB 1450 CKLW 800 CKNX 920 CKNX 920 CFRW 1290 CCRW 1290 CCRW 1290 CCRW 1290 CCRW 1340 CKSB 1050 CKSC 1340 CCKS 1340 CCK

CANADIAN AM STATIONS BY CALL LETTERS

	CAI	NAD	IAN	AM STA	ATIC	NS	BY CALL	. LE	TTE	RS	
Call Lo	cation	kHz	Call	Location	kHz	Call	Location	kHz	Call	Location	kHz
CBA Moneto	n, N.B.	1070	CFRP	Forestville, Que. Winnipeg, Man.	620 1290	CIYO	Grand Falls, Nild. Hinton, Alta.	680 1230	(sate	llite of Smithers, C Bridgewater, N.S.	FBV)
CBAF Mono	lohn, N.B.	1300	CFRY	Portage La Prairie,	920	CJAD	Montreal, Que. Cabano, Que.	800 1240	CKBX	100 Mile House, B. Collingwood, Ont.	
CBE Winds	sor, Ont.	1550 540	CFSL V	Veyburn, Sask. Stephenville, Nfld.	1190 910	CJAN	Asbestos, Que.	1340	CKCH	Hull, Que.— wa. Ont.	970
CBF Montre	. Nfld.	690 1450 1250	CFTJC	ambridge, Ont. Terrace, B. C.	960 590	CJAT	The Pas, Man. Frail, B.C. Port Alberni, B.C.	610 1240	CKCK	Regina, Sask. Truro, N.S.	620 600 620
CBGA Mata CBH Halifa CBI Sydney	x, N.S.	860 1140	CETRI	Foronto, Ont.	680 [410	CIBK CIBC.	Toronto, Ont. London, Ont.	860 1290	CKCM	Sept-fles, Que.	560
CBJ Chicout	imi, Que.	1580 540	CEWR	Abbotsford, B.C. Campbell River B.C.	850	CIBQ	Causauscal, Que. Belleville, Ont.	1450 800	CKCR	Quesnel, B.C. Revelstoke, B.C.	920 1340
CBL Toronto	o, Ont. eal, Que.	740 940	CFWH CFYK	Whitehorse, Y.T. Yellowknife, N.W.T. Sault Ste. Marie, Ont.	570 1340	CJCA	Rimouski, Que. Edmonton, Alta	900 930	CKCW	Quebec, Que. Moncton-Cherryfiel	d, 1280
CBN St. Joh CBNA St. A	nthony, Nfld.	640	CFYQ	Sault Ste. Marie, Unt. Sander, Nfld. Whitecourt, Alta.	1350	CICH	Sydney, N.S. Halifax, N.S.	920 620	CKCY CKDA	Sault Ste. Marie, O Victoria, B.C.	nt. 920 f220
CBO Ottawa CBOF Hull, Ont.	Que Ottawa,	920	CHAB	Moose Jaw, Sask. Amos. Que.	1400 800 1340	CJUSS	rince George, B.C. Voodstock, N.B. Stratford, Ont.	920 1240	CKDC	Amherst, N.S. Woodstock, Ont. Dauphin, Man.	900 1
CBQ Thunde	or Bay, Ont.	800 1010	CHAK	Inuvik, N.W.T.	660 1350	CICM	Sussex, N.B. Ward Creek, N.B.	590	CKDM	Dauphin, Man. Dryden, Ont. Digby, N.S.	1340 730 900
CBR Calgar CBT Grand CBU Vancou		540 690	CHAT	St. Pamphile, Que. Long Lac, Ont. Medicine Hat, Alta.	1450 1270	CJDC	Hite of Moneton, CKCV Dawson Creek, B.C.	1350	CKEC	New Glasgow, N.S.	1420 1320 570
CBV Quebec CBW Winni CBX Edmon	, Que. peg, Man.	980 990	(sate	Houston, B.C. lite of Smithers, CFB	(V)	CJEM	Drumheller, Alta. Edmundston, N.B.	910 570	CKEN	Cranbrook, B.C. Kentville, N.S. Toronto, Ont.	1490 590
UBI COFFIER	Brook, Niid.	740 990	CHCM	Medley, Alta. Marystown, Nfld.	1450 560	CJET S	St-Jerome, Que. Smiths Falls, Ont. Riviere-du-Loup, Que.	900 630 1400	CKFH	Toronto, Ont. Lac Megantic, Que.	1430 1400
CBZ Freder CFAB Wind	sor. N.S.	970 1450 960	CHED	Lethbridge, Alta. Edmonton, Alta. Granby Oue	1090 630 1450	CJFX.	Antigonish, N.S. Port Hawkesbury, N.S.	580	CKGA	Gander, Nfld.	730 680
CFAC Calga CFAM Alto CFAN New	ona, Man. astle N.R.	950 790	CHER	Granby, Que. Sydney, N.S. Peterborough, Ont.	950 980	CIEX	Yorkton, Sask. /ernon, B.C.	940 940	CKGM	Timmins, Ont. Grand Forks, B.C. Montreal, Que.	1340 980
CFAR Flin	Flon, Man. ria. B.C.	590 1070	UHFA	Edmonton, Alta. Fort Churchill, Man.	980 1230	CIID	angley-Vancouver, B.C Hamilton, Ont.	. 800 1280	CKGO	Hope, B.C. Golden, B.C. Illite of Salmon Ari	1240
CFBC Saint	John, N.B. sville, Ont.	930 630	CHGB	La Pocatiere, Que. Shibougamau, Que.	1310	CJLA	Kirkland Lake, Ont. Lachute, Que.	560 630	CKX	R) Red Deer, Alta.	п, 1170
CFBR Sudb	Sound, Ont. ury, Ont.	1340 900	CHINI	rampton-Toronto, Ont Toronto, Ont.	1540	CJLP	Joliette, Que. Disraeli, Que. Yarmouth N.S.	1350	CKIM	Baie Verte, Nfld. Kelowna, B.C.	1240 1150
CFBV Smit	r Brook, Nfld	570	Que.	Hauterive-Bale Comea	u. 580	CJMC Que.	Ste-Anne-des-Monts,	1340	CKID	Sarnia, Ont. Winnipeg, Man.	1110 810
CFCH North	Bay, Ont.	600 600 620	(sate	Granisle, B.C. Hite of Prince George,		CIME	Chibougamau, Que. Regina, Sask.	1240	CKKC	Nelson, B.C. Rosetown-Kindersle	1390 ey,
CFCN Calga	ry, Alta. iam. Ont.	1060	CHLN '	Trois-Rivieres, Que. St. Thomas London,	550	CJMR	Mississauga, Ont. Montreal, Que.	1190 1280	Sask CKKW	Kitchener, Ont.	1330
CFCP Court	enay, B.C. yaktuk, N.W.T.	1440	Ont. CHLT S	Sherbrooke, Que.	1570 630	CIMT	Chicoutimi, Que. North Battleford, Sask.	1420	CKLC	Oshawa, Ont. Kingston, Ont. Thetford Mines, Qu	1350 1380 e. 1330
Alta.	onton-Camrose,	790	CHMO	Hamilton, Ont. Moosonee, Ont.	900 1450	CINH	Norway House, Man. Bancroft, Ont.	630 1240	CKIG	Vancouver-North	730
North Riv	ottetown- er, P.E.I. riaville, Que.	630	CHNC CHNL B.C.	New Carlisle, Que. Kamloops-Clearwater,	610	CJNR	Merritt, B.C. Blind River, Ont. Meadow Lake, Sask.	730 730 1240	CKLM	Brandon, Man. Lavai-Montreal, Qu	1570 ie. 1570
CFDR Dart CFED Chap	mouth. N.S.	1380 680 1340	CHNO:	Sudbury, Ont. Simcoe, Ont.	610 550 1600	C10B	Winnipeg, Man. Lethbridge, Alta.	680 1220	CKLR	L'Annonciation, Que La Sarre, Que.	e. 1490 1240
CFEK Fern	ie, B.C. sher Bay, N.W.T.	1240	CHNS	Halifax, N.S.	960 1070	C101	Wetaskiwin, Alta. Fort McMurray, Alta.	1440 1230 F	CKLY	Windsor, Ont. Lindsay, Ont.	910
CFGB Happ	v Valley, Nfld.	1210	CHOO	Ajax-Toronto, Ont. Welland, Ont.	1390	CJOY	Vancouver, B.C. Guelph, Ont.	600 1460	CKMK	Maniwaki, Que. MacKenzie, B.C.	610 1240
CFGM Toro	mond Hill, Ont, nto, Ont.	1320	CHPR	Parksville, B.C. Hawkesbury, Ont.	1370 1150	CJPR	Blairmore, Alta. Crowsnest Pass, Alta.—	1490	CKMP	Mont-Laurier, Que. Midland, Ont. Grand Falls, N.B.	610 1230 1490
Nfld.	aux-Basques,	1230	СНОМ	Powell River, B.C. Vancouver, B.C. Calgary, Alta.	1280 1320	CJRB	vsnest, B.C. Boissevain, Man.	1220 1220	CKNB	Campbellton, N.B. Fort St. John, B.C.	950 560
CFGT Alma	de Prairie, Alta.	1050	CHRE	idmonton, Alta. High River Alta	810 1110 1280	Otta	Hull, Que.— wa, Ont. Kenora, Ont.	1150 1220	CKNR CKNS	Elliot Lake, Ont. Espanola, Ont.	1340 930
CFHG Holb CFIX Corny CFJC Kami	erg, B.C.	1490	CHRC	Ausbec, Que. Drummondville, Que.	800 1480	CJRN	Niagara Falls, Ont.	710 1060	West	Vancouver-New minster, B.C.	980
CFJK Brock	ville. Ont.	550 1450	CHRM	toberval, Que. Mantane. Que.	910 1290	I CJRW	Quebec, Que. Sherbrooke, Que. Summerside, P.E.I.	1510 1240	CKO M	Wingham, Ont. ontreal, Que.	920 1470 1400
CFKC Crest	chill Falls, Nifld.	1340	CHRS I	Montreal-Longueuil- an, Que. st-Eleuthere, Que.	1090	Que.	Ste-Agathe-des-Monts,	1230	CKOC	Renfrew, Ont. Hamilton. Ont. Penticton, B.C.	1150 800
CFLH Hear	s Lake, B.C. st, Ont. iskasing, Ont.	1400	CHSCS	ot-Eleuthere, Que. it. Catharines, Ont. aint John, N.B.	1450 1220	CJSN	Estevan, Sask. Shaunavon, Sask.	1280 1490 1320	CKOM CKOO	Saskatoon, Sask. Oliver-Osovoos, B.C	1250
CFLM La T	uque, Que. y Valley, Nfld.	1230 1240 1230	CHSMS	Steinbach, Man. Prince Rupert, B.C.	1150 1250 560	CISS	Sorel, Que. Cornwall, Ont. Trenton Ont.	1220 1270	CKOT	Tillsonburg, Ont. Kelowna, B.C.	1510 630
CFLS Quebe	ec-Levis, Que.	920 1370	CHTM '	Thompson, Man. Charlottetown, P.E.I.	610	CITE	Trois-Rivieres, Que. New Liskeard, Ont.	1140 1230	CKOY	Ottawa, Ont. Bagotville, Que.	1310 1470
CFLW Wab	ush, Nfld. treal, Que.	1340	CHUBI	Nanaimo, B.C. Cobourg-Port Hope,	1570	CIVA	Caraquet, N.B. Vancouver, B.C.	810 1470	CKPG	Brantford, Ont. Prince George, B.C.	1380 550 580
CFNB Fred	Simpson, N.W.T. ericton, N.B.	1490 550	Ont.	Toronto, Ont. Dolbeau, Que.	1450 1050	CIAL	Victoria, B.C. Ste-Marie-Beauce, Que	900	CKPT	Thunder Bay, Ont. Peterborough, Ont. Castlegar, B.C.	1420 1230
CFNC Cross	Nelson, B.C.	590	CHWK	Dolbeau, Que. Chilliwack, B.C. Dakville, Ont.	1270	CJVR	Melfort, Sask.	1360 1420 1240	CKRB	St-Georges-de- ce, Que.	1460
CFNW Port	itoon, Sask. au Choix, Nfld. Frances, Ont.	860 790 800	CHYM	Kitchener, Ont.	570 670	CJWW	Wawa, Ont. 'Saskatoon, Sask. St. John's, Nfld.	1370 930	CKRC	Winnipeg, Man. Red Deer, Alta.	630 850
CFOK West	lock, Alta. ia. Ont.	1370 1570	CHVDI	eamington, Ont. ort St. James, B.C. lite of Vanderhoof, CI	710	CJYR	Edson, Alta. Montreal, Que.	970 730	CKRM CKRN	Regina, Sask. Rouyn, Que.	980 1230
CEDS Dwen	Sound, Ont. der Bay, Ont. on, Ont.	560 1230	UIFLF	raser Lake, B.C.		CKAD	Middleton, N.S.	1350	CKRS	Jonquiere, Que. Crummondville, Q Whitehorse, Y.T.	590
		980 860	CIGO P	lite of Vanderhoof, Cl	V H)	CKAP	Vernon, B.C. Kapuskasing Ont, Duncan B.C.	580 1500	CKSA	Lloydminster,	1080
CFPS Port CFQC Saska	toon, Sask.	1490 600 580	CIHI Fr	onish, N.S. edericton, N.B. inceton, B.C.	1410 1260 1400	CKBC	Barrie Ont. Bathurst N.B. Prince Albert, Sask.	950 1360 900	CKSB Man	/Sask. St. Boniface- Winn	ipeg, 1050
CFRA Ottav CFRB Toroi CFRC King	ston, Ont.	1010	CIDK SI	t. Paul, Alta. ort Cartier. Que.	1310 710	CKBM	Montmagny, Que. Brooks, Alta.	1490 1340	CKSI	St-Jovite, Quț. London, Ont.	1400 1410
CFRG Grav	elbourg, Sask.	690 1260	CIRB L	ao Etchemin, Que. anderhoof, B.C.	940	CKBS	St-Hyacinthe, Que. Hazelton, B.C.	1240	CKSM	Shawinigan, Que. Sudbury, Ont.	. 1220 790

CANADIAN AM STATIONS BY CALL LETTERS

	CANADIAN	I AM STATIONS BY	CALL LETTERS			
Call Location kHz	Call Location kHz	Call Location kHz	Call Location kHz			
CKSP Summerland, B.C. 1450 CKST St. Albert, Alta. 1070 CKSW Swift Current, Sask. 570 CKTA Taber, Alta. 1570 CKTB St. Catharines, Ont. 610 CKTK Kitimat, B.C. 1230 CKTL Plessisville, Que. 1420	CKUA Edmonton, Alta. 580 CKVD Val D'Or, Quo CKVL Verdun-Montreal, Que. 850 CKVM Ville-Marie, Que. 710 CKVO Clarenville, Mfd. 710 CKVT Temiscaming, Que. 1340 CKWL Williams Lake, B.C. 570	CKWW Windsor, Ont. 580 CKWX Vancouver, B.C. 1130 CKX Brandon, Man. 1150 CKXL Calgary, Alta. 1140 CKXR Salmon Arm, B.C. 580 CKY Winnipeg, Man. 580 CKY Peace River, Alta. 610	CKYR Grande Cache, Alta. 1230 CKYR Jasper, Alta. 1450 KARI Vancouver, B.C. 550 (station in Blaine, WA) VOAR St. John's, Nfld. 1230' VOCM St. John's, Nfld. 590			
CKTS Sherbrooke, Que. 900	CKWS Kingston, Ont. 960	CKYQ Grand Bank, Nfld. 610	VOWR St. John's, NAd. 800			
Location Call MHz	ANADIAN FM STAT	TIONS BY LOCATIO				
Baker Lake, N.W.T.		_	Location Call MHz			
CKQN-FM 99.3 Barrie, Ont. CHAY-FM 93.1 Belleville, Ont. CIGL-FM 97.1 Big Trout Lake, Ont. CFTL-FM 100.3	Kamloops, B.C. CFFM-FM 98.3 (rebroadcasting stations in Chase, Clearwater, Clinton, Merritt, Pritchard, and Savona, B.C.) CHNL-FM 97.5	CHEZ-FM 106.1 CIMF-FM 94.9 CKBY-FM 105.3 CKCU-FM 93.1 CKO-FM 106.9 Peace River, Alta.	Smiths Falls, Ont. CJET-FM 101.1 Sudbury, Ont. CBCS-FM 99.9 CBJS-FM 98.1 CIGM-FM 92.7 Sydnov N.S.			
Brampton, Ont. CFNY-FM 102.1 Brandon, Man. CJCM-FM- 96.1 Brantford, Ont. CKPC-FM 92.1	Kelowna, B.C. CJOV-FM 104.7 Kentville, N.S. CKWN-FM 97.7 Kingston, Ont. CFLY-FM 98.3	CKUA-FM 96.9 Penticton, B.C. CKOK-FM 97.1 Peterborough, Ont.	Sydney, N.S. CJCB-FM 94.9 Thunder Bay, Ont. CJSD-FM 94.3 Tillsonburg, Ont. CKOT-FM 101.3			
Burlington, Ont. CING-FM 107.9 Calgary, Alta. CBR-FM 102.1 CHFM-FM 95.5 CJAY-FM 92.1 CKO-FM 103.1	CFM K-FM 96.3 CFRC-FM 91.9 Kitchener, Ont. CFCA-FM 105.3 CKGL-FM 96.7 CKWR-FM 98.7	CFMP-FM 101.5 CKQM-FM 105.1 Povungnituk, Que.CKPV-FM Quebec, Que. CBV-FM 95.3 CH01-FM 98.1	Timmins, Ont. CFT1-FM 92.1 Toronto, Ont. CBL-FM 94.1 CFNY-FM 102.1 CHF1-FM 98.1 CHIN-FM 100,7			
CKUA-FM 93.7 Charlottetown, P.E.I. CBC-FM 96.9 Chibougamau, Que,	La Pocatiere, Que. CHGB-FM 102.9 Laval, Que. CFGL-FM 105.7 Lethbridge, Alta.	CKRL-FM 89.1 Red Deer, Alta. CKRD-FM 98.9 Regina, Sask. CBKF-FM 96.9 CFMQ-FM 92.1	CHUM-FM 104.5 CILQ-FM 107.1 CJRT-FM 91.1			
CHIB-FM CHIB-FM (00.9 CHUT-FM 96 7 CORNWAII, Ont. CFLG-FM 194.5	CHEC-FM 100.9 CKUA-FM 99.3 London, Ont. CFPL-FM 95.9 CKO-FM 97.5	CKO-FM 94.5 Rimouski, Que. CJBR-FM 101.5 Riviere-au-Renard, Que. CJRE-FM 97.9	CKFM-FM 99.9 CKO-FM 99.1 Trois-Rivieres, Que. CFCQ-FM 93.9 Truro, N.S. CKCL-FM 100.9			
Deer Lako, Nfld. CFDL-FM 97.9 Edmonton, Alta. CFRN-FM 100.3	Longueuil, Que. CIEL-FM 98.5 Medicine Hat, Alta. CKUA-FM 97.3 Moncton, N.B. CFQM-FM 103.9	Rouyn, Que. CIRC-FM 88.7 St. Andrews, Nfld, CFCV-FM 97.7	Vancouver, B.C. CBU-FM 105.7 CBUF-FM 97.7 CFM1-FM 101.1			
CJCA-FM 97.3 CKO-FM 101.9 CKUA-FM 94.9 Frédericton, N.B.	Montreal, Que. CBF-FM 100.7 CBM-FM 93.5 CFGL-FM 105.7	St. Anthony, Nfld. CFNN-FM 97.9 Ot. CHSC-FM 105.7	CFRO-FM 102.7 CHQM-FM 103.5 CKLG-FM 99.3			
CBZF-FM 101.5 Gaspe, Que. CJRE-FM 97.9 CJRG-FM 103.1	CFQR-FM 92.5 CHOM-FM 97.7 CIEL-FM 98.5	CKTB-FM 97.7 St. John's, Nfld. CBN-FM 106.9 CHOZ-FM 93.9	CKO-FM 96.1 Verdun, Que. CKOI-FM 96.9 Victoria, B.C. CFMS-FM 98.5 Williams Lake, B.C.			
Grand Manan, N.B. CEZA-FM Grande Prairie, Alta. CKUA-FM 100.9	CINQ-FM 102.3 CITE-FM 107.3 CJFM-FM 95.9 CKMF-FM 94.3	Ste-Adele, Que. CKO-FM 101.9 Saint John, N.B. CBZF-FM — CFBC-FM 98.9	Windsor, Ont. CJOM-FM 97.5 CKLW-FM 93.9			
Guelph, Ont. CKLA-FM 106-: Green Lake, Sask. CHGL-FM	CKOI-FM 96.9 New Westminster, B.C. CFMI-FM 101.1	CKC-FM 99.7 Saskatoon, Sask. CFMC-FM 103.9	Wingham, Ont. CKNX-FM 101,7 Winnipeg, Man. CBW-FM 98.3 CHIQ-FM 94.3 CHMM-FM 97.5			
Halifax, N.S. CBH-FM 102.7 CHFX-FM 101.9 Hamilton, Ont. CKDS-FM 95.3 Hull, Que. CBOF-FM 102.5	North Bay, Ont. CKAT-FM 93.7 Oshawa, Ont. CKQS-FM 94.9 Ottawa, Ont. CBO-FM 103.3	CJUS-FM 89.7 Sault Ste. Marie, Ont. CHAS-FM 100.5	CHMM-FM 97.5 CITI-FM 92.1 CJUM-FM 101.5 CKO-FM 99.1			
CIMF-FM 94.9	CBOF-FM 102.5 CFMO-FM 93.9	Sherbrooke, Que. CITE-FM 104.3	100 Mile House, B.C. CIFM-FM —			
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Call Location MHz CBC-FM Charlottetown,	Call Location MHz CFMP-FM Peterborough,	Call Location MHz CHUT-FM Chicoutimi, Que. 96.7	Call Location MHz CKCL-FM Truro, N.S. 100.9			
P. E. I. 96.9 CBCS-FM Sudbury, Ont. 99.9 CBF-FM Montreal, Que. 100.7 CBI-FM Halifax, N.S. 102.7 CBJ-FM Chieoutimi, Que. 100.9 CBJS-FM Sudbury, Ont. 98.1 CBK-F-M Regina. Sask. 96.9 CBL-FM Toronto, Ont. 94.1 CBM-FM Montreal, Que. 93.5 CBN-FM Stava, Ont. 108.9 CBO-FM Ottawa, Ont. 108.9	Ont. 101.5 CFMQ-FM Regina, Sask 92.1 CFMS-FM Victoria, B.C. 98.5 CFNN-FM St. Anthony, Nfld. 97.9 CFNY-FM Brampton- 102.1 CFPL-FM London, Ont. 95.9 CFQM-FM Moneton, N.B. 103.9 CFQR-FM Moneton, Ont. 91.9 CFRC-FM Kingston, Ont. 91.9 CFRC-FM Kingston, Ont. 101.9	CIEL-FM Longueuil-Montreal, Que. CIFM-FM Williams Lake-100 Mile House, B.C. GIGL-FM Belleville, Ont. GIGN-FM Sudbury, Ont. GIGN-FM Sudbury, Ont. GIGN-FM Ste-Adele, Que. Ont. Ont. Ont. GIGS-FM Burlington, Ont. 107.1 GING-FM Burlington, Ont. 107.9	CKCU-FM Ottawa, Ont. 93.1 CKDS-FM Hamilton, Ont. 95.3 CKFM-FM Toronto, Ont. 99.9 CKGL-FM Kitchener, Ont. 106.1 CKLA-FM Guelph, Ont. 106.1 CKLG-FM Vancouver, B.C. 99.3 CKLW-FM Windsor, Ont. 93.9 CKMF-FM Montreal, Que. 94.3 CKMX-FM Wingham, Ont. 101.7 CKO-FM-1 Ottawa, Ont. 106.9			
CBOF-F M Hull, Que.— Ottawa, Ont. 102.5 CBR-F M Calgary, Alta. 102.1 CBU-F M Vancouver, B.C. 105.7 CBU-F M Vancouver, B.C. 97.7	CFRO-FM Vancouver, B.C. 102.7 CFTI-FM Timmins, Ont. 92.1 CFTL-FM Big Trout Lake, Ont. 100.3 CHAS-FM Sault Ste. Marie, Ont. 100.5	CINQ-FM Montreal, Que. 102.3 CIRC-FM Rouyn, Que. 88.7 CITE-FM Montreal, Que. 107.3 CITE-FM Sherbrooke, Que. 102.7	CKO-FM-2 Toronto, Ont. 99.1 CKO-FM-3 London, Ont. 97.5 CKO-FM-4 Vancouver, B.C. 96.1 CKO-FM-5 Calgary, Alta. 103.1 CKO-FM-6 Edmonton, Alta. 101.9 CKOK-FM Penticton, B.C. 97.1			
CBW-FM Winnipeg, Man. 98.3 CBZA-FM Grand Manan, N.B. — CBZF-FM Fredericton, N.B. 101.5		CIAY-FM Calgary Alta 02 i				
CBZF-FM Saint John, N.B	CHAY-FM Barrie, Ont. 93.1 CHEC-FM Lethbridge, Alta. 100.9 CHEZ-FM Ottawa, Ont. 106.1	CJAY-FM Calgary, Alta. 92.1 CJBR-FM Rimouski, Que. 101.5 CJCA-FM Edmonton, Alta. 97.3 CJCB-FM Sydney, N.S. 94.9	CKOT-FM Tillsonburg, Ont. 101.3 CKOI-FM Montreal-Verdun, Que. 96.9			
CFBC-FM Saint John, N.B. 98.9 CFCA-FM Kitchener, Ont. 105.3 CFCQ-FM Trois-Rivieres, Que. 93.9	CHEC-F M Lethbridge, Alta. 100.9 CHEZ-FM Ottawa, Ont. 106.1 CHF1-FM Toronto, Ont. 98.1 CHFM-FM Calgary, Alta. 95.5 CHFX-FM Halifax, N.S. 101.9 CHGB-FM La Pocatiere,	CJAY-FM Caigary, Atta. 92.1 CJBR-FM Rimouski, Que. 101.5 CJCA-FM Edmonton, Alta. 97.3 CJCB-FM Sydney, N.S. 94.9 CJCM-FM brandon, Man. 96.1 CJET-FM Smiths Falls, Ont. 101.1 CJFM-FM Montreal, Que. 95.9 CJOM-FM Windsor, Ont. 88.7	CKOT-FM Tillsonburg, Ont. 101.3 CKO1-FM Montreal-Verdun, Que. 96.9 CKPC-FM Brantford, Ont. 92.1 CKPV-FM Povungnituk, Que. CKQV-FM Povungnituk, Que. CKQM-FM Peterborough, Ont. 105.1 CKQN-FM Baker Lake,			
CFCA-FM Kitchener, Unt. 195.3 CFCQ-FM Trois-Rivieres, Que. 93.9 CFCV-FM St. Andrews, Nfld. 97.7 CFDL-FM Deer Lake, Nfld. 97.9 CFFM-FM Kamloops, B.C. 98.3 CFGL-FM Laval-Montreal,	CHEC-FM Lethbridge, Alta. 100.9 CHEZ-FM Ottawa, Ont. 106.1 CHFI-FM Toronto, Ont. 98.1 CHFM-FM Calgary, Alta. 95.5 CHFX-FM Halifax, N.S. 101.9 CHGB-FM La Pocatiere, Que. CHGL-FM Chibougamau, Que. CHIB-FM Chibougamau, Que. CHIN-FM Toronto, Ont. 100.7 CHQ-FM Winnipeg, Man. 94.3	CJAY-FM Calgary, Atta. 92.1 CJBR-FM Rimouski, Que. 101.5 CJCA-FM Edmonton, Alta. 97.3 CJCB-FM Sydney, N.S. 94.9 CJCM-FM brandon, Man. 96.1 CJET-FM Smiths Falls, Ont. 101.1 CJFM-FM Montreal, Que. 95.9 CJOM-FM Windsor, Ont. 88.7 CJOV-FM Kelowna, B.C. 104.7 CJQM-FM Sault Sie. Marie, Ont. 104.3 CJRE-FM Gaspe—Riviere-au- Renard, Que. 97.9	CKOT-FM Tillsonburg, Ont. 101.3 CKO1-FM Montreal-Verdun, Que. 96.9 CKPC-FM Brantford, Ont. 92.1 CKPV-FM Povungnituk, Que. CKQM-FM Peterborough, Ont. 105.! CKQN-FM Baker Lake, N.W.T. 99.3 CKQS-FM Oshawa, Ont. 94.9 CKRD-FM Red Deer, Alta. 98.9 CKRL-FM Quebee, Que. 89.1			
CFCA-FM KITCHEREF, URT. CFCQ-FM Trois-Rivieres, Que. SCFCV-FM St. Andrews, Nfld. 97.7 CFDL-FM Deer Lake, Nfld. 97.9 CFFM-FM Kamloops, B.C. 98.3 CFGL-FM Laval-Montreal, Que. CFLG-FM Cornwall, Ont. 104.5 CFLG-FM Cornwall, Ont. 98.3	CHEC-FM Lethbridge, Alta. 100.9 CHEZ-FM Ottawa, Ont. 106.1 CHFI-FM Toronto, Ont. 98.1 CHFM-FM Calgary, Alta. 95.5 CHFX-FM Halifax, N.S. 101.9 CHGB-FM La Pocatiere, Que. 102.9 CHGL-FM Green Lake, Sask. — CHGL-FM Green Lake, Sask. — CHIB-FM Chibougamau, Que. — CHIN-FM Winnipeg, Man. 94.3 CHMM-FM Winnipeg, Man. 97.5 CHNL-FM Kamloops, B.C. 97.5 CHOL-FM Quebec. Que. 98.1	CJAY-FM Calgary, Atta. 92.1 CJBR-FM Rimouski, Que. 101.5 CJCA-FM Edmonton, Alta. 97.3 CJCB-FM Sydney, N.S. 94.9 CJCM-FM Sydney, N.S. 94.9 CJCM-FM Smiths Falls, Ont. 101.1 CJFM-FM Mindsor, Ont. 88.7 CJCM-FM Windsor, Ont. 88.7 CJCM-FM Sault Ste. Marie, Ont. 104.3 CJRE-FM Gaspe—Riviere-au- Renard, Que. 97.9 CJRG-FM Gaspe, Que. 103.1 CJRT-FM Toronto, Ont. 91.1 CJSD-FM Thunder Bay. Ont. 94.3	CKOT-FM Tillsonburg, Ont. 101.3 CKO1-FM Montreal-Verdun, Que. 96.9 CKPC-FM Brantford, Ont. 92.1 CKPV-FM Povungnituk, Que. CKQM-FM Baker Lake, N.W.T. 99.3 CKQS-FM Oshawa, Ont. 94.9 CKRD-FM Red Deer, Alta. 98.9 CKRL-FM Quebec, Que. 89.1 CKTB-FM St. Catharines, Ont. 97.7 CKWN-FM Kentville, N.S. 97.7 CKWN-FM Kentville, N.S. 97.7			
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CBMT 6 CFC-TV 12 CBKMT 9	CJAY-FM Calgary, Atta. 92.1 CJBR-FM Rimouski, Que. 101.5 CJCA-FM Edmonton, Alta. 97.3 CJCB-FM Sydney, N.S. 94.9 CJCM-FM brandon, Man. 96.1 CJET-FM Smiths Falls, Ont. 101.1 CJFM-FM Montreal, Que. 95.9 CJOM-FM Windsor, Ont. 88.7 CJOW-FM Kelowna, B.C. 104.7 CJGM-FM Sault Ste. Marie, Ont. 104.3 CJET-FM Gaspe—Riviere-au-Renard, Que. 97.9 CJRG-FM Gaspe, Que. 103.1 CJRT-FM joronto, Ont. 91.1 CJSD-FM Thunder Bay, Ont. 91.1 CJSD-FM Thunder Bay, Ont. 94.3 CJUM-FM Winnipeg, Man. 101.5 CJUS-FM Saskatoon, Sask. 89.7 CKAY-FM North Bay, Ont. 93.7 CKBY-FM Ottawa, Ont. 105.3 CKC-FM Saint John, N.B. 99.7 IONS BY LOCAT Location Call Ch. Red Deer, Alta. CKRD-TV 6 Regina, Sask. CBKRT 9 CKCK-TV 12 Saint John, N.B. CHSI-TV 4 CKLT-TV 8 St. John's, Nfld. CBKRT 10 CFQC-TV 8 Sault Ste. Marie, Ont.	CKOT-FM Tillsonburg, Ont. CKOT-FM Montreal-Verdun, Que. CKPC-FM Brantford, Ont. CKPV-FM Powngnituk, Que. Ont. CKQN-FM Baker Lake, N.W.T. CKQN-FM Shawa, Ont. CKRD-FM Oshawa, Ont. CKRD-FM Geep. Que. CKRD-FM St. Catharines, Ont. CKRD-FM St. Catharines, Ont. CKRD-FM St. Catharines, Ont. CKRD-FM St. Catharines, Ont. CKRD-FM Rentville, N.S. CKUA-FM Edmonton, Alta. (rebroadcasting stations in Cromodacasting CFCA-FM KITCHENER, UNT. CFCQ-FM Trois-Rivieres, Que. CFCV-FM St. Andrews, Nfld. GFCM-FM St. Andrews, Nfld. GFM-FM Kamlonys, B.C. GFM-FM Kamlonys, B.C. GFM-FM Kamlonys, B.C. CFGL-FM Laval-Montreal, Que. CFM-FM Kingston, Ont. GFLY-FM Kingston, Ont. GFLY-FM Kingston, Ont. GFLY-FM Kingston, Ont. GFM-FM Saskatoon, Sask. GFM-FM Westminster- Vancouver, B.C. CFMC-FM Saskatoon, Ont. GFM-FM Ottawa, Ont. Sermo-FM Ottawa, Ont. Barrie, Ont. Barrie, Ont. CKVR-TV 3 Brandon, Man. CKX-TV 5 CAN CFMC-TV 2 CFC-TV 4 Charlottetown, P.E.I. CBTT 3 COrner Brook, Nfld. CBTT 5 CFM-TV 4 Charlottetown, Alta. CBTT 5 CFM-TV 15 CBTT 15 CBXT 5 CFRN-TV 3 Grand Falls, Nfld. GCIV-TV 4 CHAmilton, Ont. CHCH-TV 11	CHEC-F M Lethbridge, Alta. 100.9 CHEZ-FM Ottawa, Ont. 106.1 CHFI-FM OTTORNA, Ont. 98.1 CHFI-FM TORORIA, Ont. 98.1 CHFI-FM TORORIA, Ont. 98.1 CHFI-FM TORORIA, Alta. 101.9 CHGL-FM Halifax, N.S. 101.9 CHGL-FM Green Lake, Sask. —	CJAY-FM Calgary, Atta. 92.1 CJBR-FM Rimouski, Que. 101.5 CJCA-FM Edmonton, Alta. 97.3 CJCB-FM Sydney, N.S. 94.9 CJCM-FM bydney, N.S. 94.9 CJCM-FM Sydney, N.S. 94.9 CJCM-FM Sydney, N.S. 94.9 CJCM-FM Sydney, N.S. 94.9 CJCM-FM Montreal, Que. 95.9 CJCM-FM Windsor, Ont. 88.7 CJCM-FM Sault Sie. Marie, Ont. 104.7 CJRG-FM Gaspe—Riviere-au-Renard, Que. 97.9 CJRG-FM Gaspe, Que. 103.1 CJRT-FM joronto, Ont. 91.1 CJSD-FM Thunder Bay, Ont. 94.3 CJUM-FM Winnipeg, Man. 101.5 CJUS-FM Sakatoon, Sask. 88.7 CKAY-FM North Bay, Ont. 93.7 CKBY-FM Ottawa, Ont. 105.3 CKC-FM Saint John, N.B. 99.7 IONS BY LOCAT Location Call Ch. Red Deer, Alta. CKRD-TV 6 Regina, Sask. CBKRT 9 CKCK-TV 12 Saint John, N.B. CHSJ-TV 4 CKLT-TV 8 St. John's, Nfld. CBKRT 10 CFQC-TV 8 Sault Ste. Marie, Ont. CJIC-TV 2 CKCY-TV 5 Sherbrooke, Que. CKIC-TV 9 CKSO-TV 5	CKOT-FM Tillsonburg, Ont. CKOT-FM Montreal-Verdun, Que. CKPC-FM Brantford, Ont. CKPV-FM Powungnituk, Que. CKQM-FM Peterborough, Ont. CKQN-FM Baker Lake, N.W.T. CKQN-FM Baker Lake, N.W.T. CKQN-FM Baker Lake, N.W.T. CKQN-FM Selver, Alta. 94.9 CKRD-FM Red Deer, Alta. 98.9 CKRD-FM St. Catharines, Off. CKRD-FM Kentville, N.S. CKYB-FM St. Catharines, Off. CKWN-FM Kentville, N.S. (FET Selver, CKWN-FM Kentville, N.S. (FET Selver, CKWN-FM Kentville, CKWN-FM Kentville, CKWR-FM Kentville, CKWR-FM Kentville, CKWR-FM Kentville, CKWR-FM Kentville, CKWR-FM Kentville, CKWR-FM Kentville, CKWR-FM Kentville, CKWR-FM Kentville, CKWR-FM Kentville, CKWR-FM Kentville, CKWR-TW 94.9 CKWR-TV 94.9 CKWR-TV 2 CKRR-TV 2 CKRR-TV 2 CKWR-TV 19 CICA-
CFCA-FM RITCHERREY, URL. CFCQ-FM Trois-Rivieres, Que. CFCV-FM St. Andrews, Nfid. GFCQ-FM St. Andrews, Nfid. GFCM-FM St. Andrews, Nfid. GFM-FM Kamlongs, B.C. GFGL-FM Laval-Montreal, Que. CFLG-FM Cornwall, Ont. 105.7 CFLG-FM Kingston, Ont. 98.3 CFMC-FM Saskatoon, Sask. 103.9 CFMC-FM Saskatoon, Sask. 103.9 CFMC-FM Saskatoon, Sask. 103.9 CFMC-FM Saskatoon, Ont. 98.3 CFMI-FM New Westminster- Vancouver, B.C. CFMK-FM Kingston, Ont. 98.3 CFMO-FM Ottawa, Ont. 93.9 CAN Location Call Ch. Barrie, Ont. CKVR-TV 3 Brandon, Man. CKX-TV 5 Calgary, Alta. CBRT 9 CFAC-TV 2 CFAC-TV 2 CFCN-TV 4 Charlottetown, P.E.I. CBCT 13 COTTUS 13 COTTUS 15 CIWN-TV 10 Dawson Creek, B.C. CJDC-TV 5 Edmonton, Alta. CBSTT 11 CBST 11 CBST 15 CFRN-TV 3 CITV 13 Goose Bay, Nfid. CGLA-TV 8 Grand Falls, Nfid. CJCN-TV 4	CHEC-F M Lethbridge, Alta. 100.9 CHEZ-FM Ottawa, Ont. 106.1 CHFI-FM OTTORNA, Ont. 98.1 CHFI-FM TORONA, Ont. 98.1 CHFI-FM TORONA, Ont. 98.1 CHFM-FM Calgary, Alta. 95.5 CHFX-FM Halifax, N.S. 101.9 CHGB-FM La Pocatiere, Que. 102.9 CHGL-FM Green Lake, Sask. — CHIB-FM Chibougamau, Que. — CHIB-FM Chibougamau, Que. — CHIP-FM Winnipeg, Man. 94.3 CHMM-FM Winnipeg, Man. 97.5 CHNL-FM Kamloops, B.C. 97.5 CHOL-FM Weine, Que. 97.7 CHOZ-FM Winnipeg, Man. 97.5 CHOL-FM Wonder, Que. 97.7 CHOZ-FM ST. John's, Nidd. 93.9 CHQM-FM Vancouver, B.C. 103.5 CHSC-FM ST. John's, Nidd. 93.9 CHQM-FM Vancouver, B.C. 103.5 CHSC-FM ST. John's, Nidd. 93.9 CHQM-FM Vancouver, B.C. 103.5 CHSC-FM ST. Catnarines, Ont. 105.7 CHUM-FM Toronto, Ont. 104.5 ADIAN TV STAT Location Call Ch. Kitchener, Ont. CKCO-TV 13 Labrador City, Nfld. CBNLT 13 Lethbridge, Alta. CIOC-TV 7 Lloydminster, Alta. CIOC-TV 7 Lloydminster, Alta. CICT-TV 4 CKSA-TV 2 CMONTERAL CHAT-TV 6 Montreal, Que. CFCF-TV 12 CBMT 6 CCBUT 4 CHNB-TV 10 CKNY-TV 2 CREMT 9 Ottawa, Ont. CKNY-TV 10 CKNY-TV 10 CKNY-TV 10 CKNY-TV 10 CKNY-TV 10	CJAY-FM Calgary, Atta. 92.1 CJBR-FM Rimouski, Que. 101.5 CJCA-FM Edmonton, Alta. 97.3 CJCB-FM Sydney, N.S. 94.9 CJCM-FM bydney, N.S. 94.9 CJCM-FM bydney, N.S. 94.9 CJCM-FM Windsor, Ont. 95.9 CJCM-FM Windsor, Ont. 104.7 CJCM-FM Sault Ste. Marie, Ont. 104.7 CJCM-FM Gaspe—Riviere-au-Renard, Que. 97.9 CJRG-FM Gaspe, Que. 103.1 CJRT-FM Toronto, Ont. 91.1 CJSD-FM Thunder Bay, Ont. 91.1 CJSD-FM Thunder Bay, Ont. 93.7 CJUM-FM Winnipeg, Man. 101.5 CJUS-FM Saskaton, Sask. 89.7 CKAT-FM North Bay, Ont. 93.7 CKBY-FM Ottawa, Ont. 99.7 IONS BY LOCAT Location Call Ch. Red Deer, Alta. CKRD-TV 6 Regina, Sask. CRKT-TV 6 Regina, Sask. CRKT-TV 6 CKCK-TV 12 Saint John, N.B. CKLT-TV 4 CKLT-TV 8 St. John's, Nfld. CRKT-TV 4 Saskatoon, Sask. CBKST 11 CFQC-TV 8 Sault Ste. Marie, Ont. CIIC-TV 2 CKCY-TV 5 Sherbrooke, Que. CHLT-TV 7 Sudbury, Ont. 73	CKOT-FM Tillsonburg, Ont. CKOT-FM Montreal-Verdun, Que. CKPC-FM Brantford, Ont. CKPV-FM Powngnituk, Que. Ont. CKQN-FM Baker Lake, N.W.T. CKQN-FM Shawa, Ont. CKRD-FM Oshawa, Ont. CKRD-FM Oshawa, Ont. CKRD-FM St. Catharines, Ont. CKRD-FM St. Catharines, Ont. CKRD-FM St. Catharines, Ont. CKRD-FM St. Catharines, Ont. CKRD-FM St. Catharines, Ont. CKRD-FM Company St. St. St. St. St. St. St. St. St. St.			

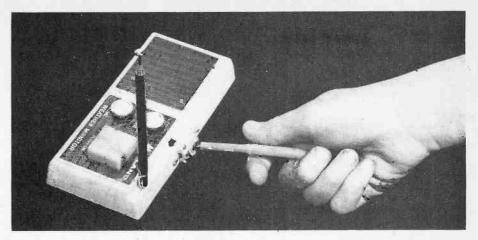
WORLDWIDE SHORTWAVE STATIONS

		W	ORLDWIDE S	HORT	ΓW	AVE	STATIONS		
kHz	Call	Name	Location	GMT	kHz	Call	Name	Location	GMI
		120 Meter Band—	2300-2495 kHz		4885	HJIG	Ondas del Meta	Villavicencio, Calombia	0300
2340 2360 2375 2390 2390 2410 2415 2428 2450 2468 2475 2510	TGBA TGDF XEJN TGDF XEJN TGDF TGDF XEJN TGDF TGDF TGDF TGDF TGDF	R. West New Britain R. Maya R. Chimbu LV Atitlan R. Huayacocotla R. Eastern Highlands R. New Ireland R. Western Highlands R. Western Highlands R. Northern District Korean B.C.	Kimbe, Papua N.G. Huehuetenango, Guatemala Kundiawa, Papua N.G. Santiago, Guatemala Mexico City, Mexico Goroka, Papua N.G. Wenzhou, China Kavieng, Papua N.G. Mt. Hagen, Papua N.G. Popondetta, Papua N.G. Zhejiang, China Taegu, S. Korea	1100 1200 1230	4885 4890 4895 4904 4908 4911 4915 4915 4920 4925 4924 4932 4934 4940	HJJU	R. Republik Indonesia National B.C. R. Mozambique R. Nat. Tchadienne R. Pnom Penh R. Zambia R. Macapa Ghana B.C. — Australian B.C. — Em. Meridiano 70 Nigerian B.C. V. Kenya RTV Ivorienne R. Nac. Ecuador	Bukittinggi, Indonesia Boroko, Papua NG Maputo, Mozambique N'djamena, Chad Pnom Penh, Kampuchea Lusaka, Zambia Macapa, Brozil Accra, Ghana Nanning, China Brisbane, Australia Harbin, China Arauca, Colombia Benin City, Nigeria Nairobi, Kenya Abidjan, Ivory Croast Quito, Ecuador	1200 1100 0430 0530 1400 0500 0830 2230 1300 1200 1330 0230 2230 0330 2330 1100
		90 Meter Band—	3200-3400 kHz		4945 4946 4950	HJDH 	R. Colosai V. Vietnam R. Malaysia	Neiva, Colombia Hanoi, Vietnam Kuching, Sarawak	0300 1330 1400
3204 3205 3215 3215 3220 3223 3223 3240 3245 3250 3250 3275 3275 3289 3290 3305	YVZV YVKI HCOS4 YVMC HCVN7	Nigerian B.C. R. Ribeiro Preto R. Mozambique Ondas Panamericana South African B.C. R. Marobe R. Republik Indonesia R. Clube Marilia R. Libertador South African B.C. R. Republik Indonesia LU Carrizal R. Southern Highlands R. Mara LV Napo R. Madagascar Guyana B.C. R. Cultural R. Western District	Ibadan, Nigeria Ribeiro Preto, Brazil Maputo, Mozambique El Vigia, Venezuela Johannesburg, S. Africa Lae, Papua N.G. Mataram, Indonesia Marilia, Brazil Ambon, Indonesia Caracas, Venezuela Johannesburg, S. Africa Banjarmasin, Indonesia Calceta, Ecuador Mendi, Papua N.G. Maracaibo, Venezuela Tena, Ecuador Tananarive, Madagascar Georgetown, Guyana Guatemala City, Guatemala Daru, Papua N.G.	0530 0200 0400 1100 0400 1130 1230 0130 1300 0300 1230 0200 1230 0200 1200 0300 0200 0300 03	4960 4960 4965 4975 4970 4975 4980 4985 5000 5010 5010 5016 5025 5030 5047 5055	HCSE7 YVAO HJAE YVLK OAX4H - OAZ4C WWV WWVH HJOX OAX7Z VQO5 - TIFC	R. Federacion R. Sucre R. Santa Fe R. Rumbos R. Pacifico Ghana B.C. R. Brasil Central R. RSA R. Andina Nat. Bureau Standards Nat. Bureau Standards R. Surcolombiana R. Juliaca R. Juliaca Solomon Is, B.S. R. Reloj Continente R. Togo R. Singapore Faro del Caribe	Sucua, Ecyador Cumana, Venezuela Bogota, Colombia Caracas, Venezuela Lima, Peru Accra, Ghana Goiania, Brazil Johannesburg, S. Africa Huancayo, Peru Ft. Collins, USA Hawaii Garoua, Cameroons Neiva, Colombia Juliaca, Peru Honiara, Solomon Is. Caracas, Venezuela Lome, Togo Singapore San Jose, Costa Rica	1130 0400 0300 0200 0300 0530 0400 0400 0500 1200 0430 0530 0330 0830 0300 1400 0230
3306 3316 3325	 	Rhodesian B.C. Sierra Leone, B.S. R. Monagas	Gwelo, Rhodesia Freetown, Sierra Leone Maturin, Venezuela	0330 0630 1000			49 Meter Band—	5950-6200 kHz	
3325 3335 3346 3350 3365 3385 3385 3390 3396 3427 3504	HCHA2	Ondas Quevedenas R. East Sepik R. Republik Indonesia Zambia B.C. Chana B.C. LV Nahuala R. Republik Indonesia Malawi B.C. R. Barcelona R. Zaracay Rhodesian B.C. R. Republik Indonesia R. PDK. Banyuwangi	Quevedo, Ecuador Wewak, Papua N.G. Pontianak, Indonesia Lusaka, Zambia Accra, Ghana Nahuala, Guatemala Sorong, Indonesia Blontyre, Malawi Barcelona, Venezuela Sto. Dgo. Colorados, Ecuador Gwelo, Rhodesia Manokwari, Indonesia Banyuwangi, Indonesia	0500 1130 1300 0400 0600 0200 1300 0430 0200 0300 0400 1200 1200	5950 5950 5955 5960 5980 5980 5980 5985 5995 6000 6010 6010 6015	TIQ OBX4M WYFR TIHB TVSB	Guyana B.S. R. Nacional R. Casino R. Canada Int. RTV Dominicana Sierra Leone B.S. R. Panamericana R. RSA Family R. R. Australia R. Inconfidencia R. Reloj V. America relay R. Los Andes V. America relay	Georgetown, Guyana Managua, Nicaragua Limon, Costa Rica Montreal, Canada Sto. Domingo, Dominican Rep. Freetown, Sierra Leone Lima, Peru Johannesburg, S. Africa Oakland, USA Melbourne, Australia Belo Horizonte, Brazil San Jose, Costa Rica Tinang, Philippines Merida, Venezuela Tangier, Morocco	0845 1100 0500 0000 0000 2300 2300 0400 0900 0830 0500 1100 0230 0500
•		75 Meter Band	3800-4000 kHz		6020 6025	OAX4Q	R. Victoria R. Portugal	Lima, Peru Lisbon, Portugal	1100 0530
3482 3810 3905 3910 3925 3945 3952 3960 3980 3985 3985 3995	HD21OA	R. Padilla Time Station R. Manus Far East Network NSB R. Vila British B.C. R. Republik Indonesia Springbok R. Escuelas R. Populares R. Republik Indonesia Deutsche Welle	Padilla, Bolivia Guayaquil, Ecuador Lorengau, Papua N.G. Tokyo, Japan Vila, New Hebrides London, England Palu, Indonesia Johannesburg, S. Africa Riobamba, Ecuador Biak, Indonesia Cologne, W. Germany Huehuole, China	0100 0800 1200 1200 1100 0930 2200 1300 0100 0330 1200 2330	6030 6055 6065 6070 6080 6080 6100 6105 6115 6120 6135 6140 6150 6155 6155	CFVP CFRX CKFX YYTO LIRXI CE613 HJFR WYFR	R. West United Nations R. Canadian B.C. — RIV Beige Super Country R. Luxembourg Time station R. New Zealand LV Llano R. El Mundo R. Universidad R. Melodia Australian B.C. LV Huila Austrian R. Family R.	Calgary, Canada New York, USA Montreal, Canada Toronto, Canada Brussels, Belgium Vancouver, Canada Luxembourg Caracas, Venezuela Wellington, New Zealand Villavicencio, Colombia Buenos Aires, Argentina Concepcion, Chile Bogota, Colombia Melbourne, Australia Neiva, Colombia Vienna, Austria Oakland, USA	1200 0530 1200 0500 0045 1100 0015 0500 0900 1400 1115 0500 1130 0300 0330
-		60 Meter Band—	4750-5060 kHz		6160 6175 6180	CKZU OAX7C TGWA	Canadian B.C. R. Tawantinsuyu R. Nacional	Vancouver, Canada Cuzca, Peru Guatemala City, Guatemala	1230 1030 1100
4680 4750 4750 4765 4766 4770	HCWE1 — HCAJ2 — YVNW	R. Nac. Espejo R. Lubumbashi R. Bertoua CRE R. Republik Indonesia R. Bolivar	Quito, Ecuador Lubumbashi, Zaire Bertoua, Cameroon Guayaquil, Ecuador Medan, Indonesia Ciu. Bolivar, Venez.	0400 0400 0500 0300 1230 0330	6195	OAX7A	R. Cuzco R. Cairo	Cuzco, Peru Cairo, Egypt	1030 0230
4775 4777 4780	- YVLA	Em. Kennedy RTV Gabonaise LV Carabobo	Bogota, Cotombia Libreville, Gabon Valencia, Venezuela	0230 2200 0200		_	41 Meter Band—	7100-7300 kHz	
4780 4781 4790 4797 4800 4825 4825 4835 4835 4835 4845 4845 4850 4875 4875 4875	HRRZ HCVP2 OAX8F — ZYMO HRVC TGMH HIFA TIHB — TGTZ YVOI HJGF — CP75 YVMS	LY Carabobo R. Juticalpa -Em. Atalaya R. Atlantida R. Republik Indonesia R. Nueva America R. Lara LY Evangelica R. Mam LY Fuerzas Armadas R. Reloj R. Nac. Boa Vista R. Tezulutlan R. Valera R. Bucaramanga SRS R. Republik Indonesia La Cruz del Sur R. Universo	Vatencia, Venezuera Juticalpa, Honduras Guayaquil, Ecuador Iquitos, Peru Fak Fak, Indonesia LaPaz, Bolivia Barquisimeto, Venez. Tegucigalpa, Honduras Cabrican, Guatemala Sto. Domingo, Dominican Rep. San Jose, Costa Rica Boa Vista, Brazil Coban, Guatemala Valera, Venezuela Bucaramanga, Colombia Parimaribo, Surinam Sorong, Indonesia La Paz, Bolivia Barquisimeto, Venez.	1200 1030 0300 1260 0200 0300 0400 0230	7065 7105 7130 7135 7136 7136 7160 7170 7170 7170 7180 7225 7255 7255 7275 7300 7345 7500 7600 8000		R. Tirana British B.C. relay British B.C. R. France Int. Nigerian B.C. R. France Int. R. Malaysia R. Senegal R. Noumea R. Singapore Deutsche Welle V. Nigeria RTV Tunisienne R. Tirana R. Prague Post Office time station Time station	Tirana, Albania Ascension Is. London, Engand Paris, France Ilorin, Nigeria Paris, France Kuching, Sarawak Dakar, Senegal Noumea, New Caledonia Singapore Cologne, W. Germany Lagos, Nigeria Tunis, Tunisia Tirana, Albania Prague, Czechoslovakia Melbourne, Australia Guayaquil, Ecuador Tokyo, Japan	0000 0500 0500 0500 0545 0430 1230 0630 1100 0530 0600 2200 0300 0030 0130 0800

iz Call				,,				
	Name	Location	GMT	kHz	Call .	Name	Location	GM
	31 Meter Band—9	500-9775 kHz		11930	_ ELWA	RTV Ivorienne Sudan Interior Mission	Abidjan, Ivory Coast Monrovia, Liberia	070 063
					_	Springbok R. R. Portugal	Johannesburg, S. Africa Lisbon, Portugal	063 030
9022 — 9360 —	R. Iran Spanish Foreign R.	Teheran, Iran Madrid, Spain	0100 0000	11940	_	R. Bucharest	Bucharest, Romania	040
9410 — 9420 —	British B.C.	London, England	0200	11945		R. Singapore R. Canada Int.	Singapore Montreal, Canada	150 210
435 —	Korean Central B.S. Israel B. Authority	Pyongyang, N. Korea Jerusalem, Israel	0930 2230		_	R. Peking R. Korea	Peking, China Seoul, S. Korea	120 113
475 — 500 —	R. Cairo People's Rev. B.S.	Cairo, Egypt Tripoli, Libya	0200	11965	-	R. Lebanon	Beirut, Lebanon	023
505 HISD	RTV Dominicana	Sto. Domingo, Dominican Rep.	#2300 0000	11975 1205 0	_	R. Berlin Int. R. Kiev	Berlin, E. Germany Kiev, USSR	033 030
505 — 515 —	R. Japan	Tokyo, Japan	1400	12070	_	R. Moscow	Moscow, USSR	210
520 —	V. Turkey National B.C.	Ankara, Turkey Boroko, Papua N.G.	2130 0700	12085		R. Kuwait	Kuwait	180
525 — 525 —	R. Havana Cuba	Havana, Cuba	0600					
530 KGEI	Polish R. V. Friendship	Warsaw, Poland San Francisco, USA	0200 1100			19 Meter Band—151	100-15450 kHz	
535 — 545 —	R. Canada Int.	Montreal, Canada	0100			<u></u>	-	
545 — 545 —	Deutsche Welle relay Solomon Is. B.S.	Antigua, West Indies Honiara, Solomon Is.	0530 0730	15009		V. Vietnam	Hanoi, Vietnam	180
550 —	R. Nacional	Santiago, Chil o	1200		_	R. Peking B.S. Kingdom Saudi Arabi	Peking, China Jeddah, Saudi Arabia	180 123
560 HCJB 570 —	V. Andes Trans World R.	Quito, Ecuador Bonaire, Neth. Antilles	0130 1000	15084	-	R. Iran	Teheran, Iran	180
570	Gronlands R.	Godthab, Greenland	2100		_	Israel B. Authority Austrian R.	Jerusalem, Israel Vienna, Austria	034 123
580 — 585 —	British B.C. relay R. Budapest	Ascension Is. Budapest, Hungary	2300 0200	15110	_	R. Prague	Prague, Czechoslovakia	153
585 —	R. Japan	Tokyo, Japan	0800		HCJB	V. Andes Nigerian B.C.	Quito, Ecuador Lagos, Nigeria	140 050
590 — 500 —	R. Nederland relay R. Peace and Progress	Bonaire, Neth. Antilles	0300	15120	_	Polish R.	Warsaw, Poland	020
505 —	R. Norway	Moscow, USSR Oslo, Norway	0400 0000		_	V. Chile R. New Zealand	Santiago, Chile Wellington, New Zealand	113 040
520 — 530 —	R. Yugoslavia Spanish Foreign R.	Belgrade, Yugoslavia	2200	15135	_	R. Sofia	Sofia, Bulgaria	213
30 —	V. America relay	Madrid, Spain Tinang, Philippines	0500 1500		_	R, France Int. R. Peace and Progress	Paris, France Moscow, USSR	050 120
45 TIFC	Faro del Caribe	San Jose, Costa Rica	1100		=	RTV Marocaine	Rabat, Morocco	200
50 — 55 —	R. Nationale V. Greece	Conakry, Guinea Rep. Athens, Greece	2300 0200	15165	-	R. Denmark	Copenhagen, Denmark	1 <i>7</i> 3 120
55	R. Budapest	Budapest, Hungary	2100	151 <i>7</i> 0	_	R. Norway R. Tahiti	Oslo, Norway Papeete, Tahiti	040
50 VLQ9 50 YVKM	Australian B.C. R. Rumbos	Brisbane, Australia Caracas, Venezuela	09 0 0 1200	15175	_	V. Chile	Santiago, Chile	000 200
75 —	R. Moscow	Moscow USSR	0700		_	British B.C. R. France Int.	London, England Paris, France	054
85 — 90 —	RTV Belge RAE	Brussels, Belgium Buenos Aires, Argentina	0015	15190	_	V. Congoleise Rev.	Brazzaville, Congo Rep.	213
90 —	Cyprus B.C.	Nicosia, Cyprus	0200 2200		_	Austrîan R. R. Finland	Vienna, Austria Helsinki, Finland	213 143
90 — 95 —	R. Sweden R. Rio Mar	Stockholm, Sweden	2300	15205	_	R. Sweden	Stockholm, Sweden	230
05 XERMX	R. Mexico	Manaus, Brazil Mexico City, Mexico	0030 0200		_	R. Budapest RVT Tunisienne	Budapest, Hungary Tunis, Tunisia	013 050
05 — 20 —	Ali India R.	New Delhi, India	1100	15230	_	Israel'B. Authority	Jerusalem, Israel	223
25 —	R. Korea Swiss B.C.	Seoul, S. Korea Berne, Switzerland	1600 0330		_	R. Bucharest	Bucharest, Romania	130 130
25 — 30 —	R. Singapore	Singapore	1100		_	R. Peking R. Bangladesh	Peking, China Dacca, Bangladesh	140
30 —	R. Berlin Int. R. Uganda	Berlin, E. Germany Kampala, Uganda	0100 1930		_	R. France Int.	Paris, France	163
45 — 50 —	R. Baghdad	Baghdad, Iraq	2200		_	Far East B.C. RAI	Manila, Philippines Rome, Italy	120 010
50 — 55 —	R. Tirana Far East B.C.	Tirana, Albania Manila, Philippines	0000	15325	_	Uganda B.C.	Kampala, Uganda	0300
60 —	V. Greece	Athens, Greece	1200 0200		_	R. Sofia R. Nacional	Sofia, Bulgaria Bogota, Colombia	000
70 4VEH 80 —	R. 4VEH R. Alma Ata	Cap Hatien, Haiti	1200	15335	_	All India R.	Madras, India	113
BO —	R. San'a	Alma Ata, USSR San'a, Yemen Arab Rep.	0000 0400	- 1 -	<u>-</u>	R. Kuwait RT Luxembourg	Kuwait Luxembourg	040
05 — 15 —	R. Cairo Israel B. Authority	Cairo, Egypt	2230	15385	_	RAI	Rome, Italy	230
20 —	R. Peking	Jerusalem, Israel Peking, China	2230 1000		_	R. Sweden R. Peace and Progress	Stockholm, Sweden Moscow, USSR	050 133
40 —	V. Vietnam	Hanoi, Vietnam	1100	15400	_	R. Nacional	Caracas, Veneuela	000
					_	R. Pakistan Australia B.C.	Karachi, Pakistan Perth, Australia	1100 090
	25 Meter Band-11	700 11075 1.11-		15425		R. Moscow	Moscow, USSR	170
	25 Melei Bullu-11.	700-11975 KHZ			_	Sri Lanka B.C. R. Tashkent	Colombi, Sri Lanka Tashkent, USSR	01 3 0
350 —	Korean Central B.S.	Pyongyang, N. Korea	1100	15475	_	R. Cairo	Cairo, Egypt	1100
30 —	R. Cairo	Cairo, Egypt	0400		_	Israel B. Authority R. Peking	Jerusalem, Israel Peking, China	223
55 — . 78 —	Israel B. Authority R. Pakistan	Jerusalem, Israel Karachi Pakistan	0500		_	V. Malayan Revolution	Clandestine	101:
95 —	R. Peking	Karachi, Pakistan Peking, China	2100 1130				× .	
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HIGH BAND MONITOR



Getting bored by the temp-humidity index? Slide an inexpensive weather monitor up or down for some exciting signal hunting!

Because they're priced so low, generally from \$10 to \$20, the "weather monitor" has been a hot gift item for the electronics experimenter, so you probably have one. Tuning the weather station frequencies of 162.40 and/or 162.55 MHz, these small, inexpensive radios are supposed to keep you up to date on the latest weather conditions. But as you've probably discovered yourself, unless you're a boat owner with need for tide and sea conditions, you get a more up-to-date report from your local news station—AM or FM.

Also, reception is probably not all that great. The recommended receiver sensitivity for weather station reception is 0.6 uV for a 50-mile range, and these inexpensive weather receivers can't get anywhere near this kind of sensitivity.

But there's no need to let an unused weather receiver sit on the shelf. Fortunately, very few models use crystal control tuning, and they are easily converted to a police or fire monitor, or even a sound channel receiver for the higher VHF TV stations. But remember, there won't be any super-sensitivity. TV stations might be received some 30 or 40 miles from the transmitter, but you'll have to be within 2 miles or so of the average police or fire transmitter to pick them up. If you live near an airport you might get coverage of the aircraft frequencies above 108 MHz, but with sharply reduced sensi-

The weather monitors are generally similar in electronic design, though the packaging might be anything from a cube to a desk-top pen holder. The circuits are bare-minimum superhet receivers with a local oscillator tuned over a limited range by a panel control. Generally, there are two panel controls, one for volume and one for fine tuning. The fine tuning knob might have calibrations for both weather frequencies, or no calibration at all. It doesn't make

any difference as long as the local oscillator is tunable.

To change the weather monitor tuning range, all you need do is connect a small external trimmer capacitor across the oscillator tuning capacitor-the fine tuning control. The value of capacitor will determine which frequencies are tuned. Keep in mind that as you tune lower in frequency the sensitivity is sharply reduced, particularly below about 160 MHz. A capacitor with a maximum value of 7 pF will get you down to the police/fire frequencies. A 60 pF maximum trimmer will get you about to the top of the FM band, but tuning will be extremely critical and sensitivity will be very low.

A 60 pF trimmer will also get you some of the TV sound carriers above 162 MHz. How can you receive signals above 162 MHz if the tuning range is lowered? Simple. The harmonics of the local oscillator are used to receive the TV stations. For example, if you lower the monitor's oscillator to, say, 100 MHz, the oscillator's harmonic output is also 200 MHz, and a very weak 300 MHz. (The monitor's front end appears to pass the frequencies above the design-range, 162 MHz, with greater sensitivity than lower frequencies.)

Tear It Down. To experiment you must first get the circuit out of its cabinet. Keep in mind these weather monitors are inexpensive and designed to be assembled quickly by unskilled workers. Don't go looking for tricky or difficult assembly sub-systems. Generally, one or two screws are all that's holding the cabinet together. If necessary, unsolder the speaker wires, battery wires and on-off switch wires, and remove the circuit board from the cabinet. Locate the trimmer capacitor used for the fine tuning and its two solder terminals. Solder a 3-in. length of solid, insulated wire to each terminal.

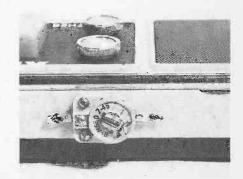
Check how the board fits the cabinet and mark the outside of the cabinet nearest the fine tuning. Drill two small holes at the mark and then install a trimmer capacitor on the cabinet near the holes. Or, you don't have to secure the trimmer if you feel you will experiment with different capacitor values, but it will be difficult to tune the stations with a "floating" trimmer. You can't hand-hold the trimmer because the capacitance from your hand will affect the tuning adjustments.

Slip the wires from the fine tuning control through the holes you've drilled in the cabinet and seat the circuit board. Then reassemble the monitor.

Connect the wires protruding through the cabinet to the trimmer capacitor using the shortest possible leads (cut off the excess).

That's the whole bit. Use an insulated alignment-type screwdriver to adjust the trimmer. You'll probably be able to tune a few TV stations immediately. Tuning police/fire calls or anything else will be more difficult because transmissions in these services are short and fast. You can preset the tuning by using a signal generator or a well calibrated grid dip oscillator.

Remember, this is a fun project. Don't hope for more than acceptable reception. But then who knows, you might be able to tune your favorite TV channel and keep track of the program while working in your shop.



Install a small trimmer on the cabinet at a point just outside the internal trimmer.

LITERATURE LIBRARY

301. Get into the swing of microcomputer and microprocessor technology with *CREI's* new Program 680. New 56 page catalog describes all programs of electronics advancement.

302. Big catalogs are coming back. Burstein-Applebee will send you theirs. It's a parts bonanza every experimenter would want to see. Latest catalog is over 200 pages.

303. Graymark's catalog reveals a host of products and kits every experimenter would like to have. Unusual binary clock is a winner. A must catalog for the beginner.

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

305. A new 4-page directional beam CB antenna brochure is available from *Shakespeare*. Gives complete specs and polarization radiation patterns for their new fiberglass directional antennas.

306. Antenna Specialists has a new 32-page CB and monitor antenna catalog, a new amateur antenna catalog, and a complete accessory catalog.

307. Atlas calls their 210X and 215X the perfect amateur mobile rigs. Their 6-page, full-color detailed spec sheet tells all. Yours for the asking.

368:Your guide to equipment for radio communication is an informative product booklet offered by *R. L. Drake Co.* Hams and SWLers alike should scan this 20-page shopper's guide.

309. Now you have your computer talk back to you and like it. Speech circuit boards available from *Telesensory* provide audible 24 and 64-word vocabularies. Sorry, only male voice models available.

310. New and used personal computer machines, and peripherals you never dreamed existed, or were available are in the *Newman Computer Exchange* catalog. Get yours today.

311. Midland Communications' line of base, mobile and hand-held CB equipment, marine transceivers, scanning monitors, plus a sampling of accessories are covered in a colorful 18-page brochure.

312. E.D.I. (Electronic Distributors, Inc.) carries everything from semi-conductors to transformer/relays to video cameras. In prices ranging from 19¢ to \$500, products appear from over 125 electronic parts manufacturers. The catalog is updated 3 times a year.

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

314. Cover the Ham bands from 80 to 10-meters with one classy rig—Swan Electronics' 100-W 100 MX mobile transceiver. Get the details direct from Swan.

315. Develop insight into future trends of microcomputers with SYM-1 by RNB Enterprises. Large key pad, 1K static RAM, 6502 chip plus I/O for cassette, TV, CRT, and teletype.

316. Get the Hustler brochure illustrating their complete line of CB and monitor radio antennas.

318. GC Electronics offers an "Electronic Chemical Handbook" for engineers and technicians. It is a "problem solver" with detailed descriptions, uses and applications of 160 chemicals compiled for electronic production and packaging. They are used for all types of electronic equipment.

320. Edmund Scientific's new catalog contains over 4500 products that embrace many sciences and fields.

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

322. Radio Shack's 1979 catalog colorfully illustrates their complete range of kit and wired products for electronics enthusiasts—CB, ham, SWL, hi-fi, experimenter kits, batteries, tools, tubes, wire, cable, etc.

323. Lafayette Radio's 1979 catalog offers almost everything in hi-fi, CB, ham and many electronic parts. A product index will help you find anything from auto equipment accessories to wire wrapping

327. Avanti's new brochure compares the quality difference between an Avanti Racer 27 base loaded mobile antenna and a typical imported base loaded antenna.

328. If you are into audio, ham radio, project building, telephones, CB or any electronics hobby you'll want McGee's latest catalog of parts and gadgets. Hard to find parts fill each page, so get a copy of the catalog from McGee today!

329. Semiconductor Supermart is a new 1979 catalog listing project builders' parts, popular CB gear, and test equipment. It features semiconductors—all from Circuit Specialists.

330. There are nearly 400 electronics kits in *Heath's* new catalog. Virtually every do-it-yourself interest is included—TV, radios, stereo and 4-channel, hi-fi, hobby computers, etc.

331. E. F. Johnson has a CB 2-way radio catalog to help you select equipment for your vacation, business travel, or normal day-to-day "bucking the mob."

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

333. 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.

335. The latest edition of the *TAB BOOKS* catalog describes over 450 books on CB, electronics, broadcasting, do-it-yourself, hobby, radio, TV, hi-fi, and CB and TV servicing.

338. "Break Break," a booklet which came into existence at the request of hundreds of CBers, contains real life stories of incidents taking place on America's highways and byways. Compiled by the Shakespeare Company, it is available on a first come, first serve basis.

354. A government FCC License can help you qualify for a career in electronics. Send for Information from Cleveland Institute of Electronics.

355. New for CBers from *Anixter-Mark* is a colorful 4-page brochure detailing their line of base station and mobile antennas, including 6 models of the famous Mark Heliwhip.

356. Now you can get the "Break-through Book" with its 105 innovations in breadboarding and testing. *Continental Specialties*. The break-through is twofold—products and price!

359. Electronics Book Club has literature on how to get up to 3 electronics books (retailing at \$58.70) for only 99 cents each . . . plus a sample Club News package.

361. "Solving CB Noise Problems" is published by Gold Line and tells you how to reduce the noise and get a clearer signal. In discussion and diagram you can find out about the kinds of noise, their sources, and the remedies.

362. *B&F Enterprises'* Truckload Sale catalog offers 10% off all merchandise: (military or industrial surplus) speaker kits, TV games, computer terminals, tools, TV components, lenses, and more.

364. If you're a component buyer or specifier, you'll want this catalog of surplus bargains: industrial, military, and commercial electronic parts, all from Allied Action.

365. Electronic Supermarket has a new catalog of almost everything in the field—transformers, semi-conductors, tv parts, stereos, speakers, P.C. boards, phones, wire and cable, tools, motors.

366. How about a hybrid 13-watt audio module for \$8.88? Or ultrasonic transducer for \$1.49? You find these and other exotic parts and products aplenty in *Poly Paks* flyer. Get your copy now!

367. Optoelectronics' new catalog features their new Frequency Counter, a 6-digit clock calendar kit, mobile LED clock, biorhythm clock, digit conversion kit, and many others.

371. Your computer system needn't cost a fortune. Southwest Technical Products offers their 6800 computer complete at \$395 with features that cost you extra with many other systems. Peripheral bargains are included here.

372. See how you can save with Olson's "Erector Kit" Computer System; also their factory wired version which includes a 2-volume Bell & Howell instruction course. Send for information.

373. ETCO has a Grand Opening Catalog which anyone in the electronics field shouldn't miss. Full of all kinds of products from surplus and warehouse sales, they claim everyone is a bargain.

374. Radatron's Catalog 1006 lists many projects from a self-contained portable lab station for an electricity-electronics course to many texts, lab manuals, and applied activities.

375. Compucolor Corp. has a personal computer system with an 8-color integral display, a type-writer-like keyboard, and a mass storage device. Programs are ideal for checkbook and income tax figuring.

376. Sparkomatic offers all the car sounds for the "travelin" man"—speakers, amplification systems, radios, speaker accessories along with CB antennas, all presented in 4-color pics with descriptions.

377. We can't enumerate all the products in John Meshna, Jr.'s catalog of surplus electronic parts; power supplies; computer keyboards; kits for alarms, clocks, speakers; and more.

378. Delta Electronics is a complete parts source for electronics experimenters. Discrete parts, modules, boards, subassemblies and complete gadgets. Get Delta's 120-page catalog today.

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Atronics CW Readout

(Continued from page 56)

above it seems to be flashing off and on at about the same rate as the dots in the received morse code. Then, adjust the level control until the LED above that control blinks on and off in time with the received signal—on whenever a dot or dash is sent, and off when the station is between letters.

You should be seeing letters and/or numbers blinking on the 16-segment LED. At this point, it may be necessary to readjust the controls to decode as best as conditions allow. A good signal, with no interference, and sent properly, can be decoded 100%.

QRN (which is shortwave slang for static interference) and QRM (meaning man-made interference from another station) will both hurt operation of the code reader to some extent. If the QRN level is too high, bringing the background noise up to or even peaking beyond the signal strength of the station to be decoded, it will be difficult to get an accurate level. What can really mess things is two or more stations both within the passband of your receiver. Simply put, the poor code reader doesn't know who to listen to first

Even with the high QRN/QRM levels found on the ham radio bands, our test facilities were able to utilize the code reader in more than seventy per-

cent of received signals that were copyable by ear. Even a very weak (S-4) station in Norway on 15 Meters was able to be copied via the reader.

A very nice feature is that there is a speed' margin of 70% to 140%. This means, if you are copying one side of a two-way code contact which is being sent at 20 wpm, you do not have to readjust the settings—if the other fellow is sending from 14 to 28 wpm.

There are also special characters used mainly in ham radio transmissions, though some utilities also make use of them. These are AS (meaning wait and displayed as an arrow); BT (which stands for break between thoughts displayed as a dash); and AR (which means end of transmission and is displayed as a square).

Roll Your Own? The Atronics Code Reader is available as a kit for \$149.00 or fully assembled as \$225.00. The kit version went together quite nicely.

If you have a few Heathkits under your belt, and if you've done any integrated circuit PC board wiring, you should be able to put the code reader together in an evening. However, this is a kit which requires much attention to detail. Every single step is not spelled out for you and/or illustrated. You receive two PC boards (the main board and the readout board), all parts, a schematic diagram, a component side diagram, and five pages of instructions.

Other options are available as accessories from Atronics. An electronic keyer module (that includes a speaker)

will turn the code reader into a code sender as well (for \$29.00). If you'd like hard copy of your listening activity then Atronics offers a Teletype Interface Module, for \$85.00, which will turn your teletype into a decoding demon

For more information on the Atronics Code Reader, write direct to the company at Bldg. E, Suite 1103, Canada Business Center, 22600 Lambert St., El Toro, California 92630—or circle number 119 on the Reader Service Card.



BCB Booster

(Continued from page 52)

direct signal pickup by L1 will be sufficient. If greater sensitivity is needed connect 6 to 15 feet of wire to BP1. If you connect a longwire antenna take note; the signal level out of the booster can be so high as to overload the receiver.

If there is a strong local station in your area it's possible that the signal strength will be boosted to a level that swamps the receiver when listening to a weak signal on the other end of the dial. If this happens simply detune the

booster away from the strong signal's frequency until the interference is reduced or eliminated. While this might sacrifice some gain on the desired station, the loss will probably be slight.

It is possible for the booster's output to radiate back to its input (particularly when using a loopstick coupling coil). You'll know when this happens—the booster breaking into self-oscillation—if the receiver gets "blocked," or off-frequency signals get tuned in and lost as C1 is adjusted. If this problem occurs, position the booster as far as possible from the receiver and keep any external antenna, if used, away from the receiver and booster's output cable.

Under certain conditions the Super BCB Booster will provide an additional benefit which should not be construed as improper operation. Some inexpensive receivers are highly prone to "marine band" image interference when signals at the high end of the broadcast band are received. The booster, by providing tuned preselection, suppresses or eliminates these interference-causing image signals while providing amplification to broadcast signals. Don't assume the loss of image signal reception means reduced sensitivity. Actually, the desired signal will be getting full boost while the image interference is squash-

White's Radio Log

(Continued from page 115)

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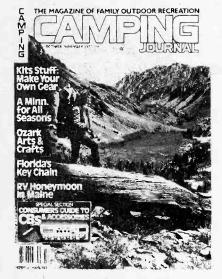
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Zip

Aids to DX

(Continued from page 60)

Record-Keeping Aids. Sooner or later you will realize the necessity of keeping track of at least some of the stations you have heard and at what time of day and frequencies you received them on. Thus the need of a log. Like station or chures. Others are handy little folders and some are simply mimeographed lists. Your problem is to find some way of keeping them in order and available for ready-reference. After trying a number of things, I finally settled on a large 8½ by 11-inch looseleaf binder. I have it indexed by continents and place the literature inside in various ways. Some I punch and, others I paste on a blank page and a few I put into a page with a pocket stapled to it. All are alphabetically placed, by continent.

Listening Post Aids. When you start your shortwave listening, you won't need much space—a corner of the kitchen table or a shelf in the den. But as you get more involved with DXing, the more additional objects and devices target lists, every experienced DXer has his own idea about the form a log should take. In fact, many DXers combine their station or target list with a log. Others, like myself, have a separate log to use as a permanent record.

Why a record of what you have heard? First, if you are sending in QSL reports and hoping to get verifications in return, the log tells you the date you sent the report in and gives you an idea of whether the verification is overdue. You may, as I have, used an old address and the log tips you off as to when it is time to check up on your report.

Another valuable thing about a log is in looking up the stations you have previously heard. Your log will tell you the time you heard them and which frequency came through for you at that particular time of the year. Finally, if you are a member of a SWL club, you may be trying to qualify for a DX

award and a record of your receptions and verifications will be a virtual necessity for this.

In addition to a log, I find two other record-keeping devices helpful. One is a small looseleaf notebook, indexed by the day of the week, to record specific programs that I wish to tune in to regularly. I simply jot down the name of the program, time and frequency and thus have a quick-reference source to my favorite listening.

The other record-keeping device you will need is a place to keep station programs. As you begin to receive verifications from your QSL reports, you will begin to collect all kinds of literature about the stations, their full range of frequencies and their broadcasts. Some of these are elaborate, full-color broyou find yourself having to cope with. You may add some other electronic gear, such as an antenna tuner or a calibrator. Now you not only need more physical space but you have the additional wires to plug in. And then there's the tape recorder and headphones, and all the reference material mentioned above needs some place to be kept and vet handy to get at. Unless you organize your listening post, you will suddenly find yourself in the midst of terrific clutter.

My set-up is a simple 5½-foot long table, built in against the wall of my den. On top of the table is a 10" wide shelf, raised 10" above the table-top. I place my receiver on this shelf which puts it at eye-level. A desk lamp also sits up on the shelf and I have plenty of room to add any other electronic equipment there also.

Underneath the shelf, I have all the room I need for my reference books, tape recorder, etc. I have lots of desk space in front of the shelf and also a place to rest my elbows while tuning my receiver. Finally I have a multiple outlet panel to take the various electrical plugs. I recommend the type that has a three-way plug and its own fuse. One final suggestion. Put an executive desk-type chair on your Christmas list and then you're set for many relaxed hours of fun and DXing.



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