THE MAY 1931

# RADEX EX

The Magazine that Doubles the Pleasure of Radio



(25°)

Another A-B-C Article:
What Happens Inside Your Set
Short Wave Adapters for A. C. Sets
List of Principal Short Wave Stations
More DX Targets for May

# RADIO THEORY MODERN PRACTICE

# A New Book in Simple Terms—Profusely Illustrated

Just off the press, here is a book that we believe every person interested at all in Radio, ought to have. While the veriest novice can easily understand its simple explanations, yet it is a book which an experienced radiotrician will find of the greatest value.

The chapter on Radio Principles explains the radio wave from its birth at the transmitter to its conversion into sound at the receiver. Numerous pictures and sketches enable the reader to grasp each stage. There is a list of the necessary technical words with their definitions in simple language and a list of the symbols used in radio diagrams with their meanings fully explained.

The chapter on *Vacuum Tub*es is, we think, the most simple and yet complete exposition of the principle and operation of radio tubes we have ever seen. The difference in tubes is fully explained and the reader learns not only the use and characteristics of each tube but the purpose served by each prong. Not only is the screen-grid tube covered but the new five-element as well.

In *Principles of Receiver Circuits* ten different systems are described and explained, from "Regenerative" to "Super-heterodyne with second harmonic oscillator."

A chapter on Radio Circuit Diagrams gives the schematic diagrams for many of the prominent sets including Super-Zenith, General Electric, Bosch, Super-Wasp, Silver Marshall, Grebe, Stewart-Warner, RCA, Atwater Kent, Majestic, Stromberg-Carlson and others, with explanations of each and where to look and what to do for trouble.

The chapter on Short Waves is not only a complete treatise on short-wave theory and practice, but several well-known short wave sets are diagramed and explained. Other chapters which we can mention only as indicative are Aerials, Loud Speakers, Radio Instruments, Broadcasting Transmitters, Radio Troubles, Television, etc.

This book of 224 pages, printed in large type, bound in flexible cloth will be given to our readers

# FREE For Two Annual Subscriptions

We have secured a number of these books for those of our readers who will help us in this way to increase the field of RADEX. You can earn a copy in a few minutes by telling your friends about this magazine.

We do not sell the book

# THE MAY 1931



# RAD IO INDEX



# FRED CLAYTON BUTLER Editor and Publisher



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# THE RADEX PRESS

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# WHAT HAPPENS Inside YOUR SET

To the average radio fan, the operation of his set and the conversion to sound of high-frequency electrical energy, sent through the air by broadcasting stations, and picked up on the receiver aerial, is an unfathomed mystery. Just how the process in his receiver works can be made to sound extremely difficult, but can nevertheless be said in easily understandable words, and with the aid of a few analogies, will become perfectly clear to anyone.

The electrical current traversing space in all directions and for thousands of miles is picked up by countless aerials. The small amount of current intercepted by an aerial is passed through a coil in the receiver, the primary of the first r.f. coil, to the ground, which, by the way, forms the return path for the electrical energy to the source - the broadcasting station. In this way a receiver may be likened to the water system of your home, which, being tapped to the street mains, obtains its pressure and flow from the latter. The only difference is that the water-supply system can stand only a definite load before its pressure gives out, which is not the case in radio signals as it is impossible for receivers to absorb all the supplied energy.

# Converting R. F. into A. F.

The extremely small amount of radio energy, which is of a very high frequency, as explained in the March issue of RADEX, must be built up in strength before it can be converted to audio frequencies, and finally transformed into sound. This is done by means of a series of transformers and vacuum tubes. A transformer has two windings, called the primary and the secondary windings. which are usually not directly connected to each other. When a pulsating direct current or an alternating current passes through a coil it creates an invisible, magnetic field around the coil, which fluctuates in strength in unison with the fluctuation of the current in the coil. The peculiarity of such a magnetic field is that it causes an electrical current to

# A Third Article in A-B-C's

flow through a second endless coil placed in the magnetic field. This is exactly what happens in the case of a transformer. The primary winding receives the input current which sets up the magnetic field and the secondary winding, placed in the same plane as the first, has a current induced into it. The pulsations of current in the secondary, which are brought about instantaneously, are in unison, or in synchronism with those in the primary. This alone does not increase signal strength.

# The Secondary Circuit

We have been looking at the secondary coil as an endless winding, providing an unbroken path for an electrical circuit. If the coil is cut and a small battery inserted, the coil ends being connected to the battery, a strong current will flow through the secondary, which is superimposed on the induced current, but is in turn slightly influenced by the fluctuations of the latter, resulting in stronger fluctuating current than the transformer could produce without the battery. Now the question naturally arises why some transformers have iron cores, as audio-frequency transformers in your receiver, while such a core is generally lacking in radio-frequency transformers or "coils." The core concentrates the magnetic field and allows closer coupling between the primary and secondary windings and consequently allows a greater transfer of energy without any appreciable loss. Some r.f. transformers are also of this type; these do not need tuning condensers across them to make them respond to any certain frequencies.

Broadness of tuning is one objection often encountered in the core-type of r.f. transformers, plus the difficulty that they cannot be wound to cover the entire waveband satisfactorily, amplifying the signals more at one end of the range or more at the other end, depending on the coil winding. Air-core transformers or

"coils" permit, greater flexibility in tuning and more selective tuning by means of a variable condenser of a capacity to match the coil. The condenser makes the coil responsive to certain frequencies, which can be varied by manipulation of the condenser. This can best be understood by an analogy to a stringed musical instrument like a piano. If you strongly hum a certain note on the scale, you will find, upon suddenly stopping and carefully listening



Lillian Taiz makes a beautiful "Freda Zorn" on the Dutch Master's program, CBS Fridays, 8:30-9 p.m. EDST.

close to the piano, that the string tuned to the same note you are humming, is also producing sound at exactly the same pitch. This is known as "sympathetic vibration." None of the other strings respond because they are strung to other frequencies. Also, if you take a tuning wrench and turn the peg that holds the string tight, it will no longer respond to the same note, but will respond to a lower or higher note, depending on whether it is loosened or tightened. The variable condenser hooked across the secondary winding of a r.f. transformer or coil acts in the same way as the tuning peg, the coil being likened to the vibrating piano string.

(Continued on page 20)

# Chains Synchronize

THE Federal Radio Commission has authorized stations WTIC Hartford, and WBAL Baltimore to synchronize with WEAF and WJZ, respectively, and the new system has already been put into effect. This will apply only when the two stations are broadcasting chain programs. On their other programs they will divide time as heretofore.

Under the new arrangement WBAL will synchronize during the time it is not operating on its own wave lengths with WJZ in New York, and similarly WTIC will synchronize with, and accept programs from WEAF, NBC's other metropolitan key station. In the periods when they are not synchronized, WBAL and WTIC will broadcast independently on the wave length of 1060 kilocycles which they now share in the federal allocations.

When the plan was first announced, the participating engineers pointed out that the immediate advantage of the synchronization will be to enable WTIC and WBAL to give full-time service in their respective areas. Under the old scheme, one of the stations was necessarily silent on those days or during those hours, when the other was using their joint wave length: Synchronization with one of NBC's stations in New York will permit them to serve their listeners during every broadcasting hour.

Ever since the idea of synchronization was first conceived, Horn has been a guiding factor in its development. It was under his supervision that the first working application of synchronism was effected between the Westinghouse stations WBZ and WBZA, in Springfield and Boston.

"Synchronization, as it is developed and applied, will be of utmost importance to the listening public," Horn declares. "If spaced geographically, stations will be able to synchronize and still maintain their own program services without interference. And this possibility will enable many stations which are now limited in power, because they share channels with other stations, to increase their power and extend their service ranges."

# SHORT WAVE Adapter for A.C. Sets

Making Your Own

ERE is a plug-in short-wave adapter for use on a.c. receivers having a 227 detector. It has been tested thoroughly and found entirely satisfactory. Any radio fan can construct this adapter as it consists of parts readily obtainable, while the tuning coils, ticker and r.f. choke are of the homemade variety. In this article complete instructions are given for winding and mounting them. The parts needed for the adapter are a five-prong adapter plug to fit the detector socket of the receiver, also a 227 tube, which is used for the short-wave detector, and a base for it. Then get a four-prong socket of the sub-panel mounting type having a diameter of not less than 1\%-inches. The use of this particular type and socket is highly important as will be seen later. Two small variable condensers, one a 23-plate midget, and the other a 15-plate midget, are required, besides a fixed condenser of .006-mfd. capacity and a grid condenser of .00025 mfd. capacity and a 5-ohm grid leak. The 23plate midget is used for tuning while the 17-plate midget controls oscillation. A panel, subpanel brackets, binding posts and screws are also needed, besides five old 201A tubes that have served their purpose. With these parts and a quantity of insulated wire, including a four-conductor cable of suitable length, you are ready to start wiring.

**Connecting Socket** 

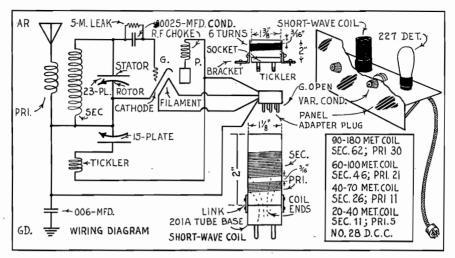
The 227-tube socket is screwed down on the subpanel in a convenient position near one side, as shown in the drawing, while the socket for the coils is mounted on the other side. Two flexible, insulated leads of the cable are then run from the heater, or filament, terminals of the socket to corresponding terminals on the adapter plug. Connect the cathode terminal of the adapter plug to the .006-mfd. fixed condenser, while the other side of the condenser is connected to a ground binding post. The line run-

ning from the cathode of the adapter unit is also connected to terminals on the tuning-coil socket to which one end of the primary and the corresponding end of the secondary are connected, and then over to the rotor-plate terminals of both variable condensers as shown in the wiring diagram. The other terminals of the coil socket are then wired, the open end from the primary to the aerial binding post, while the one from the secondary runs to the stator-plate terminal of the 23-plate condenser and also to one side of the grid condenser. The other side of the grid condenser connects to the grid terminal of the detector socket. The cathode terminal of the detector socket goes to the rotor-plate terminals of both variable condensers.

# Wiring Plate Circuit

The set is now completely wired except for the plate circuit, which runs to one side of the r.f. choke, to be made next, and to one side of the tickler winding, also to be made. The r.f. choke consists merely of a ½-inch tube or spool on which 60 turns of No. 24 d.c.c. or enameled wire is wound. One end of the choke, as just mentioned, connects to the plate terminal of the detector socket, while the other end runs to the plate terminal of the adapter plug, a lead in the cable being used for this purpose. The grid terminal of the adapter plug is left open.

Now for the tickler coil. Get a 2-inch length of bakelite or formica tubing that has an inside diameter of 1%-inch so that it will fit snugly on the tube socket, which serves to hold the interchangeable coils. Small brass angle brackets are screwed to both the tube and the subpanel after the tickler is wound on. It consists of six turns of No. 20 d.c.c. or enameled wire, wrapped around the outside of the tube, starting 3-inch from the top end. Pairs of small holes drilled through the tubing serve to anchor the ends of the wire to prevent the coil from unwinding, the wire being threaded back and forth once through each pair of holes. If a socket slightly



larger than 1%-inch in diameter is used, a corresponding larger size of tube must be used for the tickler. But it must be remembered that a tube socket smaller than 1%-inch cannot be used as the coils are mounted on the bases of old tube and these must fit inside of the tube on which the tickler is wound. It has already been mentioned that one end of the tickler coil connects to the plate terminal of the detector socket, the other end of the tickler connects to the stator-plate terminal of the 15-plate midget condenser.

### The Short-Wave Coils

The construction of four interchangeable plug-in coils for work on various bands from 20 to 180 meters are then made. Get four old 201A tubes and remove the glass carefully, including that cemented to the bottom of the base. The diameter of the base is  $1\frac{1}{6}$  inch, and four 2-inch lengths of 11/8-inch bakelite tubing are obtained, one being attached to each tube base by means of two links. However, before doing this the coils should be wound on the tubes. The coils must be wound in exactly the same direction as the tickler. This is highly important and should be remembered.

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The secondaries are wound at the top and a space of  $\frac{3}{16}$ -inch left between the secondaries and the primaries. No. 28 d.c.c. or enameled wire is used for both

windings. For the 20 to 40-meter coil, use 11 turns for the secondary and five turns for the primary. The 40 to 70-meter coil should have a secondary of 26 turns, and a primary of 11 turns, while the 60 to 100-meter coil is provided with a 46-turn secondary and a 21-turn primary. Lastly, the 90 to 180-meter coil has a secondary of 62 turns and a primary of 30 turns.

The ends of all coils are threaded through small holes drilled in the wall of the tubing and are then dropped down inside of the tube to make connection with the prongs in the base. Bare the ends of the wires and solder them to the prongs to get a good electrical connection. Before doing this insert the base in the coil socket and observe to which terminals the prongs connect. Be sure that the ends of the coils are connected to the right prongs on the base so that the leads run between the points indicated in the wiring diagram. The set will not function is a mistake is made here. Check through the wiring to see that the connections are correct before soldering. Too much stress cannot be laid on the importance of good soldering in a radio set. After soldering the coil ends to the prongs of the bases, attach the tubes by means of the links, screws and nuts holding the links, tube and base together securely.

(Continued on page 7)

# If You KNOW YOUR STATIONS

E thought those March puzzles would hold our readers for a while, but when we stated that twenty-eight correct answers had been received, we reckoned without the sharp wits of our puzzlers. Before the month was over exactly 127 correct solutions had been received! Then we thought the April problems were still harder but the answers are flooding in.

Edward C. Houlgate, 388 Waterloo street, London, Ont., writes: "I am almost ashamed to do the puzzles now, having won the last three copies." We can only say that it is our wits against yours and if we can't devise puzzles that will stick you, we'll have to pay the price and like it. So get your copies of RADEX free as long as you can.

Still our readers continue to rub it in and "spoof" us because the puzzles are so easy. Regarding the April problems. Fred Morgenstern, 309 West 104th street, New York City, says: "They were the easiest puzzles you have published in a long time." And "please make them harder" urges Greer McCrorry, 606 S. 2nd street, W., Cedar Rapids, Iowa. John R. Carter, 1119 West 9th street, Erie, Pa., thinks the puzzles are getting easier in stead of harder. Well, even algebra gets easier after one gets the hang of it. "It sure is great sport solving them. Keep them coming." Thus comments Clarence Fleagle, R.F.D. 1, Box 31A, Abilene, Kansas.

# Answers for April

Several readers admitted that we gave the start to the solution of the code puzzle away with the 9-9-8 call for this could only be HHK. Here is the correct solution for No. 1: KYW - XFF - CMC - XEW - WCKY - WKY - CMW - KFMX - XEF - CKX - XEY - CMK - CMCM - XEFE - HHK.

No. 2 was correctly solved as follows:
WTOC - KGY - KGBU - WJAK WBCM - XETF - WLIT - KGIX CMKC - WCRW - CFBO - WBAK WEW - WCLB - KREG - WAAF CKCD - WLW - KPO - XFC - KFWF WCAP - WWRL - WMT - WPOE.

# Try These

In No. 3, the state was California and the city which appeared in the third vertical column was Los Angeles. There were different combinations which could be used and all were counted as correct.

# Try These on Your Radio

For our first puzzle this month we have another one in code. Instead of figures we are using letters. Each of the letters given below stands for still another letter and our readers are asked to identify the calls for which these letters stand. Any good amateur detec-ative must be able to decipher coded notes and this is the first lesson in winning a tin badge.

WTFY KBOK CTF XKWM WYO XBOK KWM CIEM

In Puzzle No. 2, you are required to place letters in the eight squares so as to form six calls, reading right and left and up and down.



Puzzle No. 3 is similar to No. 3 of March except that it contains twelve squares instead of sixteen. When completed it should contain seven calls reading both horizontally and vertically with no call used twice. There are two different ways, so far as we have been able to find, of solving this puzzle and we are asking for both solutions, making two puzzles of this one.



Send in the correct solutions of these four problems so as to reach us by May 20th and we will send you a free copy of the June RADEX or add a month to your subscription if you request it.



Ninety-pound mistress of the 1,100-pound organ. Little Miss Ann Leaf has a million admirers. CBS programs.

# Phones for Philco

N your March issue an article appeared for attaching headphones to the Majestic set. No doubt we all thank Mr. A. L. Van Compernolle, of California, for his effective method and I'll help him along by adding that I myself have a Baby Grand Philco and have attached headphones to it, precisely the same as Mr. Van Compernolle's method but a little neater and easier. Here it is: To most Philco baby grand owners, their set is very easy to remove from the cabinet. First disconnect the a.c. line, then remove the tubes. Follow by removing the dial knobs (just pull off). On the bottom of the cabinet are three bolts, which can be removed easily. Disconnect the speaker plug at the back of the set. The set can be removed from the cabinet with ease and lots of room to work.

Stand the set on its side which will give you a full view of the under wiring. Solder a wire to each plate terminal of the speaker plug socket (they are the lower ones). Run this wire to the phone post which may be attached to the metal chassis, but be sure that the screw is insulated and us fiber washers against the chassis. Disconnect the yellow wire which is in the center of the speaker and runs to meet the white wire at the base. A snap switch may be attached to the arch on back of the cabinet which is unseen and easily snapped on and off as desired. Solder a wire to the vellow wire and carry it to one side of the switch. the other side to the white wire. Assemble the set and the job is done. Attach your phones and go to it and the rest of the family can sleep. If you have any respect for your phones I'll advise you to disconnect them when speaker is in high volume.

I am sure all Philco owners who love DX work will have the pleasure that I get from this little stunt, so please pass it on to them.— W. J. MacKeen, 1316 Broadway, Schenectady, N. Y.

# Short Wave Adapter

(Continued from page 5)

To connect the short-wave adapter to the receiver, remove the detector tube from the set and insert the adapter plug connected to the cable. Operating current is obtained from the receiver. The r.f. impulses are picked up by the detector of the adapter, and are then amplified by the audio system of the receiver. The r.f. section of the receiver is not used and in order to amplify signals satisfactorily the audio ends of the set must have two stages. One stage is not enough for the amplification required. The tuning dial of the adapter unit will pick up stations within the limits of the coil you are using, each coil covering a different waveband. The adapter will be found to be selective and capable of bringing in considerable distance, depending, of course, on conditions.

# Technical Editor Analyzes Difficulties

I have a Music Master 7-tube Neutrodyne, model 250, and have never been able to get stations above 1400 kcys. I would like to know if this could be remedied so that I can tune up to 1500 kcys. As you probably know the coils in this set are very small. How many turns should be removed from the primary and secondary windings, and would this affect the volume?

Just a few turns of wire should be removed from the secondary windings of the radio-frequency coils to make the set tune to a higher frequency. The primary windings will not have to be touched unless quite a number of turns are taken off the seconday. In that case just two or three turns should be removed from the primary to bring them back to about the same ratio as they were before making the change. If you get the low frequency stations at the extreme end of the dial at present, such alteration of the coils might, however, make it impossible to get the lower frequency stations at all. The exact number of turns to be removed depends on the diameter of the coil to some extent. About the only method to follow is the "cut and try" method. Take off a few turns and then replace the coils temporarily. If still more wire has to be removed, this can be done without much trouble. Be careful not to remove too much.

# Minimizing Oscillation

I am having some trouble with an a.c. Radiola, model 46. It has three 224, one 280, and one 245. When I turn the tuning control it squeals and whistles on stations and pops on the vacant places. With the volume control turned back, it doesn't bother at all. Some stations cannot be tuned in unless considerable time is taken in tuning. Can you kindly tell me where to look for the trouble?

With the Radiola No. 46, you will have some difficulty in getting rid of oscillation. This set has a high-gain r.f. amplifier, and has a tendency to oscillate, unless the r.f. condensers are perfectly adjusted. Adjustment cannot be made on the trimmer condensers alone. The

# Advice You Can Understand

stator plates on the gang condenser in this set are made to move sideways for greater or for less capacity when all the plates are in mesh. It will be necessary to balance the stator plates on all the condensers to eliminate the oscillation. and this can best be done in the following manner: First remove the cans and move all the stators toward one side so that their relation to the rotors will be exactly the same. Then replace the cans. for without these the set will oscillate whether the condensers are properly lined up or not. Tune in stations and adjust the trimmers, which are accessible through small holes in the cans. Perhaps the oscillation will be eliminated from one part of the tuning range, but is still evident outside of this section. Again remove the cans, move the stators the same distance, and repeat the above operation. This is continued until the oscillation is completely eliminated, which can be done but usually requires careful repetition of the adjustment several times.

# **Broad Tuning**

I have one of the first Philco a.c. sets made, and would like to know how it can be made to tune sharper on frequencies from 1200 to 1500 kilocycles. I understand the neutralization and can use the local station as an oscillator but I believe that the trouble is something else.

If your set has the condensers properly balanced, about the only remedy for broad tuning is to obtain looser coupling between the primary and secondary windings of the r.f. coils. This can be done by increasing the separation between the coils. If the set is still too broad, remove a few turns of wire from the primary winding. Of course, you are aware of the fact that a long aerial, which includes both the actual aerial and the lead-in wire, will make a set tune broader than a short aerial. Most t.r.f. sets broaden out at the upper section of

the dial, so this is no particular failing of your set.

### Aerial Lessens Volume

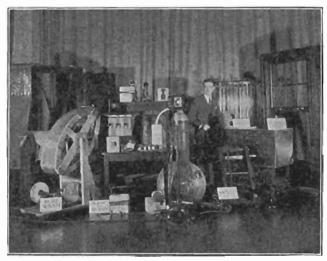
I have a General-Electric 9-tube electric superhetrodyne, which works pretty good with a ground of about 25 feet run through the cellar and attached to a cold-water pipe, and also attached to the aerial post of the receiver. I erected a 40-foot aerial with a 10-foot lead-in and connected this to the aerial post, hooking the ground lead to the regular ground binding post of the set. This decreased the volume to some extent. I don't think that there is any defect in the set as it is almost new. I also have a Radiola No 28 superheterodyne

tain full-wave rectification, as in your instance, they should both pass about the same amount of current for most efficient operation. By using one 216-A and one 281, a hum may result, but you can determine this by trying out the combination.

# **B-Battery Loss**

I have a Stanford 6-tube, screen-grid, battery-operated receiver made by the Columbia Radio Corporation. It employs three 232 screen-grid tubes, and three 231 power output tubes. I use three 45-volt B-batteries, one 22.5-volt C-battery and six dry cells for A-supply. The B-batteries last about a week or 10 days. After taking

Ray Kelly has one of the most emphasized positions in Radio. He is Chief Sound Effects Engineer of the NBC. He doubles for the Allantic Ocean, a trimotored airplane, a locomotive and what-have you. Here he is with a few of his "props."



and a Radiola No. 104 speaker, which furnishes B-power for the set. One of the 216-B tubes has burned out and I was wondering whether a 281 tube could be substituted, both being half-wave rectifiers.

Your General-Electric superheterodyne receiver is designed to work on an aerial and ground. As you are not having any trouble except that the aerial won't work, the inference is that your aerial is grounded, causing it to be ineffective. In this case the primary coil of the tuning unit is not receiving any r.f. current. A 281 tube can be substituted in many cases for a 216-A but its output is 110 milliamperes, whereas the 216-A has an output of only 65 milliamperes. When two half-wave rectifiers are used to ob-

the receiver to a radio service man, who claims to have repaired it, the trouble still persists. The set functions perfectly in every other way. Can you suggest where the trouble lies?

There is undoubtedly a short circuit across your B-batteries, which causes them to run down so quickly. In order to locate the trouble, the first thing to do is to disconnect the B-batteries from the receiver. The test across the B-neg. and B-pos. lines of the receiver with a voltmeter and C-battery connected in series. If there is a permanent short-circuit in the set, the voltmeter will register a reading. Periodic short-circuits inside of the tubes will not always show up in this

(Continued on page 18)

# In Which OUR READERS Experiment

# Trying New Ideas

REPORTS of interesting experiments with aerials and grounds continue to come to us and we pass these on to our readers for the sug-

gestions they contain.

"Since I use loop aerials exclusively, perhaps my experience will be of interest. Briefly, here it is: A straight loop suspended in the attic of my house, the aerial running east and west, with about 40 feet (copper wire, seven strand) on the sides, and about six feet across the ends. The lead was run out of the attic window and in through the window of my room on the second floor, using a window jumper. The ground was run under the carpet to the cold water line in the bathroom. I used a Grebe Synchrophase, 5-tube set. I used a Peerless A-eliminator in conjunction with a Willard B-eliminator. Just to give an idea of what can be done with an inside loop aerial, I want to say that from October, 1929, until March, 1930, I pulled in 182 stations in the regular broadcast band, as well as some 45 short-wave amateur stations."— Don Gross, Bradford Court Apts., Newton Centre, Mass.

## Ground as Aerial

"We have been trying some experiments with different ground and aerial connections on our own receiver, which by the way is also a superheterodyne, home-made, which we have been using for about four years. Recently we built it over to use screen-grid tubes. We find by using the ground wire on the aerial post we can get stations on some bands very clearly with lots of volume. The ground wire is connected to two galvanized pipes, driven into the ground in the cellar and connected together by a wire which runs directly up to the receiver. KFI, Los Angeles, comes in very loud with this ground wire on the aerial post alone, when this station can just barely be heard with aerial and ground connected. The aerial which we use is on a steel mast 45 feet high, stranded enamel copper wire 125 feet long."—Glen E. Clute, Route 58, Box 78, Schenectady, N. Y.

"I have been experimenting with a booster unit before the antenna and ground circuit of my set. I connected the tickler and secondary of a three circuit tuner together and then I connected the other end of the secondary to the set ground and the other end of the tickler to the radiator. Then I connected a .0005 mfd. variable condenser in the antenna circuit. This increased the volume of the stations on the lower wave lengths but did not affect the stations on the higher wave lengths."—L. M. Armstrong, Jr., 31 Center street, Rhinebeck, N. Y.

# **Another Pipe Aerial**

"Thought I would let you know what I picked out of the air March 17th at night. I used for an aerial a piece of pipe three feet long with wire attached to one end and driven into the ground eight feet. I received the following stations: XEW, KGR, KGCX, VAS, KHJ, KFXF, KFWF, KEX, KFVD, JOAK, with a Philco table model two and a half years old."—L. E. Barton, Mercer County, Transfer, Pa.

"I have been experimenting with ground aerials. I have a ground aerial about 85 feet long with a six-foot gas pipe driven into the ground so it sticks out about 1½ feet. This ground aerial I have connected to the ground of the radio. This brought me these stations, KLZ, KTAR, CJGX, KFI, XEW, KGO, KOA, KHJ, KOB, WOAI, WFAA, WBAP, KMA and KRLD."— Edward E. Moskal, 20 Quincy street, Passaic, N. J.

"I use two aerials (umbrella and straight) combined into one, about 200 feet altogether. I have 16 stations from the coast, including KFVD, Culver City; eight Cuban; six Mexican (verification from XETY); ten Canadian, including Halifax, Glace Bay, N. S., and CFCY, Charlottetown, P.E.I."—Mrs. Harold R. Keck, 1315 Court street, Allentown, Pa.



PLOYD GIBBONS, war correspondent whose "beat" has extended to almost every known corner of the world, is a hero of adventure fiction come to life. Before he came to the National Broadcasting Company to recount his hair-raising adventures, he had made an enviable name for himself as a reporter, a war correspondent, an author, an explorer and a lecturer.

His twenty years as a "Headline Hunter" have been replete with thrills. Today, as a radio personality, he is known to millions for his gripping tales of adventure and his interest-compelling manner of interpreting the day's news over the air.

Gibbons was born in Washington, D. C. After being graduated from Georgetown University he took the advice of another famous journalist and went West to launch his newspaper career. He got his first job twenty-three years ago on the Minneapolis Star. His salary was \$7 a week. Little realizing that the cub reporter was later to reach the heights of journalism, his city editor fired him for — of all things — incompetency.

But young Gibbons was not dis-

couraged. He developed a clarity of style and a keenness of observation that soon won him recognition as a star reporter.

His first experience as a war correspondent was in 1914, when he was assigned to cover the Battle of Naco on the Arizona-Sonora front. He remained in Mexico to file vivid reports of the battles and skirmishes in the many revolutions and counter-revolutions in the Latin-American Republic.

When the notorious Francesco Villa terrified the Mexican countryside, Gibbons was with him reporting the Guerrila warfare. Later he accompanied General Pershing on his punitive expedition against Villa.

His reports were widely read and were largely instrumental in bringing about the Pan-American conference on the Mexican question. He also wrote a series of articles exposing the conditions of the poorly equipped state troopers on the Mexican border that were extensively quoted in the campaign throughout the United States for military training.

Before the United States entered the World War, he was assigned by the Chicago Tribune to go to London as its war correspondent. This was on the same day that Germany announced to the world the submarine blockade of the British Isles.

Gibbons decided to risk the blockade. His newspaper insured him for \$25,000. Providing himself with a non-sinkable garment and carrying a supply of compressed food tablets, he booked passage on the S.S. Laconia, a Cunard Liner carrying munitions and war supplies.

The night the Laconia entered the U-boat zone, a torpedo from a German submarine found its mark and the Laconia slowly settled as the passengers crowded to the lifeboats. Gibbons donned his lifesuit and got into a boat filled with terrified passengers. The boat drifted about all night until he and his companions were picked up by a British vessel and brought to Queenstown Harbor, Ireland.

# Torpedoed on "Laconia"

Gibbons was reported lost at sea. But a few days after his obituary was read in America, the 4000-word story of the sinking of the Laconia which he cabled from Queenstown was printed in the Tribune. The story stirred great interest and was read on the floor of the United States Senate at a time when America was only awaiting an "overt act" to declare war on Germany. Five weeks later the United States entered the war.

When the A.E.F. landed in France, Gibbons was among the first of the American war correspondents to go to the front with the American troops. He was under fire during the remainder of the war. At the Battle of Chateau Thierry he was wounded and lost the sight of his left eye.

The Croix de Guerre was conferred on him and he was later made a Chevalier of the Legion of Honor. He also received the Italian War Cross.

Since the World War Gibbons has participated in at least one war or revolution almost every year, covering rebellions and uprisings in every nook and corner of the globe. He has had adventures all over Europe, Africa and Asia.

He was the first war correspondent to defy the ukase of the Soviet government against foreign newspapermen by reporting first hand post-revolution conditions in Russia. He gathered news in the battle-scarred Balkans. He covered the Spanish-Riff war and was with the French when they were closing in on Abd-El-Krim. His adventures even carried him to Timbuctu.

### Lost on the Sahara

Four years ago he was lost in the Sahara desert when he led an American expedition through blinding sandstorms across a waste of blazing sand. For three onths and five days he pushed on

ross the Sahara until he finally ached Timbuctu. The expedition kept on through the jungles of Central Africa for 1100 miles until the party reached the Cape.

In addition to his many magazine articles and signed dispatches, Gibbons is author of "The Red Knight of Germany" and "The Red Napoleon."

He became a broadcasting artist accidentally. He had visited M. H. Aylesworth, president of the National Broadcasting Company to get information for "The Red Napoleon." In the book he told of war correspondents who described wars through portable microphones, while flying over the battlefields in radio-equipped planes. The NBC executive suggested that he try broadcasting. Gibbons gave up his newspaper connections and has been on the air ever since.

More than a year ago he made his radio debut as the "Headline Hunter." Later the NBC assigned him to cover the arrival of the Graf Zeppelin at Lakehurst, N. J. He described the return of the giant dirigible as he walked about the field with a microphone and a portable transmitter hung about his neck, thus fulfilling the prophecy he made in his book.

Some months ago he became a radio war correspondent, describing a mimic battle of the Argonne at the War College in Washington. His present weekly feature is "The House of Magic" on Saturday evening, between 9:00 and 10:00 o'clock.

He is one of the fastest speakers on the air and recently was clocked speaking at the rate of 217 words a minute.

# RADIO GOSSIP with our READERS

T is a real pleasure to us to pass on to our readers the little tips on betterment of reception which we receive from our experimenters. One good friend recently wrote us that one of these tips alone was worth fully fifty years' subscription in improvement of tone and reception. Says another, O. C. Wright, Palmer, Nebr.:

"I don't claim to have bought your first book published, as I don't know for sure when you started, but I have every number from 1926 up to the present number and I simply wouldn't think of destroying any of them as they have so much good advice and instructions in

so many numbers."

The first issue of RADEX appeared in September, 1924, nearly eight years ago, and it has seen marvelous changes in radio during this time, but we are convinced that the next few years will bring even greater changes. Engineers have so far merely scratched the surface of the art and only a Jules Verne could prophesy the changes that are coming.



The "Old Timer" of the Empire Builders, Harvey Hays, with his leading lady, Miss Lucille Husting.

# Monthly Family Conference

Just a week or two ago, it was reported that signals were sent across the English channel with a power no greater than a flash-light. A frequency was used that has heretofore been deemed impossible of use — a seven-inch wave-length which we compute at about 1,666,666 kilocycles. Try to comprehend the vast number of frequencies this opens to use. We could each have our private frequency instead of a telephone line. But enough of the digression.

Writes Robert R. Rawstron, 15 Edgewood street, Claremont, N. H.:

"I've got a hot tip to pass on to fellow DXers. The sensitivity of a screen grid receiver can be increased by a simple job of wiring. Merely run a fine wire from the plate terminal on a standard 5-prong 224 tube to within a quarter inch of the cap. The amount of regeneration increase can be controlled by the proximity of the wire to the cap. The wire may be held at the top by a strip of adhesive tapé. For those who do not know one prong from another, the plate terminal prong can be found thusly: Hold the tube prong end up and locate the isolated prong. The first prong to your left is the plate terminal."

"One thing which helped me a lot," writes LeRoy Cattle, R.F.D. No. 2, Paterson, N. J., "was the suggestion by A. R. Von Compernolle on putting phones on a Majestic. I put them on mine and it's a great improvement. I hesitated to have it done in a repair shop because they always cut out one or two stages of a.f. amplification which isn't so very nice."

"Now for some information," begins C. P. Lawrence, 1424 A avenue, E., Cedar Rapids, Iowa. "I have a 7-tube Truetone receiver, using three No. 224, two No. 245, one No. 227, and one No. 280 tubes. When listening to programs from powerful stations and desiring to reduce the volume control, if the knob is turned back the volume reduces until

a certain point is reached. Then further turning of the control perceptibly increases the volume till it cuts out entirely. This makes it difficult to regulate for low volume. I have wondered if this is a common fault of this type of receiver, or whether something should be remedied. I would appreciate any information concerning this."

Undoubtedly some of our readers can lend a hand to Mr. Lawrence. Albert Palmer, R.F.D. No. 2, Sta. A., East Liverpool, Ohio, too, calls for help.

"I have a Philco 7-tube set, Model 511, and have never been able to separate stations from 1250 to 1500 kcys. For example, in tuning WADC, Akron, I can also hear WJAS, Pittsburgh, and WHK, Cleveland. All three stations should be received very clear. I attempted to adjust the neutrodons, of which there are six, and found that when they are set to the place they should be it has a terrible howl, or what is often called 'motor boating.'"

# Saves Stamp Money

"I save the cost of the magazine many times over each month, as I collect Ekko stamps. I know just what stations issue stamps and in that way I avoid sending dimes to stations not issuing stamps. which return the coins all too infrequently." Thus writes Henry C. Ewald, 5623 138th street, Flushing, N. Y. This is exactly the reason we publish the symbols in the Index by Frequencies. Many readers send us lists of stations which have verified for them in order that we may supply symbols where they are lacking. We regret we cannot use this information. Our symbols indicate the information that has been supplied to us by the broadcasting stations themselves. This makes an official statement of their policy. We cannot, of course, guarantee that each station will live up to its policy.

We receive complaints from time to time that certain stations do not answer letters. Sometimes this may be true for various reasons. The fault may be with the station or it may be with the writer. We ourselves receive many letters which the writers forget to sign or fail to give their address. Regarding this Frank Wilkes, 25 Maurice avenue, Ossining, N. Y., asks: "What about a black-list or a symbol for stations which do not verify?" and W. Campbell, 739 N. High street, Columbus, Ohio, adds:

"Why don't stations reply to reports of reception when stamp is enclosed? My waiting list grows. Here are some: WWJ, KTM, XEW, XEF, WFLA, WADC, KVOO, WSMK, WICC, KSL, WDOD, KNX AND WTFI. When stations request reports they might at least mail a postal card. I seldom have less than a fifteen minute report on any station. For instance, KNX, I had report from 12:48 to 1:12, so what more do they want?"

But Jackson W. Thompson, 535 Hess street, Bethlehem, Pa., thinks "the fans ought not to be so quick in their decisions for I have received at least fifty stamps as long as two months after I applied for them." and A. J. Kendrick, Box 66, Duncan, Okla., adds:

"In your last issue I read the clipping from C. R. Simpson stating that he has written four letters to KFKB, Milford, Kans., and hadn't heard from them. Just want to say that I sent a report on March 23rd and received a nice letter from them March 27th."

Clement Hanson, 88 Broad street, Providence, R. I., has two complaints:

"I wrote a letter requesting verification from WFAA in Dallas, the station that they are so proud of down there, according to some Texan in the March issue. I sent a stamped envelope for reply. They have a rubber stamp like this 'Radio Station WFAA.' They put that on the bottom of my letter and sent it back!"

## A Short Wave Inquiry

Asks Harris Schiestel, 13734 Mapleridge, Detroit, Mich.:

"Could any of the RADEX short-wave listeners please tell me if they ever received a verification from G5SW of Chelmsford, England. On January 2nd I wrote to this station for verification and as yet have not received a reply."

Here are some answers to queries that have appeared in previous issues.

Don Gross, Bradford Court Apts.,

Newton Centre, Mass., says:

"Tell Mr. Robert H. Buckley, Kent, Ohio, that the Canadian stations of Quebec province usually announce first in French and then in English, and that the CHIC he heard may be CKAC at Montreal, as the French pronunciation is very similar, although this station does not check his kcys. exactly. I have visited this station personally and have heard them announce this way and to one unfamiliar with French, it is confusing."

### A Backward Record

"I noticed in the March issue a device for scrambling the programs. I may be able to shed some light on this. Some time ago WTIC was testing over WEAN's frequency and they put on a stunt of this kind. It is simply a phonograph record played backwards."

This comment comes from Paul M. Fairbanks, 341 Bratton avenue, Lewis-

town. Pa.

While some readers are striving for Cuban stations, other readers, in Cuba, are trying to log our own. From Mrs. A. C. Gray, Central Tanamo, Cayo Mambi, Oriente, Cuba, comes this interesting note:

"Sometime ago someone asked about the station in Santo Domingo. It was completely destroyed by the cyclone of September 4, 1930. Well they are on the air again. I picked them up February 11th, at 8:30 p.m. Their call letters are HEXK, Santo Domingo City, Dominican Republic, or for verification, it might be better to address them HEXK, Cuidad Santo Domingo, Republica Dominicana. I've been picking up quite a few stations and have been getting verifications too. My best catches, I think, are KMTR, Los Angeles, and KGCX, a 100-watt station at Wolf Point, Mont. I think DXing a most exciting game, you never know what will come next. I feel somewhat as Little Jack Horner must have felt when he found his plum."

We are always glad to receive suggestions for the betterment of this magazine. We have put many of these into effect in the past. Some criticisms, however, have two sides.

"I offer this suggestion not knowing how far it will get. Why not place the names of station owners somewhere in the back of the book, as they are only of interest when writing to stations, and in their place give us a dotted line in order that we may mark down the day, date and time station is received. I have found that data of this kind is often valuable in seeking the same station again, or another on the same wavelength."

Our indexes were arranged as a result



The "Gold Medal" two-piano duo, l. to r., Phil Ohman and Victor Arden, Mondays at 8:30 EDST on the NBC.

of long experience in DXing, to place the various data where it would be the most convenient to the users. RADEX is, we believe, the only publication that gives all the information in the Index by Frequencies rather than scattered through all three lists. We do this for the reason that it is this index that the DXer has before him when tuning and identifying stations. We believe the names of owners belong in this list for the reason that they very often aid in identifying a signal. Thus if a listener were trying to identify a program on 690 keys., for instance, and, as so often happens, did

not catch the call letters, the name "Western Farmer" would prove immediate identification. We suggest that the data desired by Mr. Albert J. Sauerbier, 5 East street, Jersey City, N. J., in the letter quoted above, be entered in the blank in the Index by Call Letters.

# Objects to Records

And here is a criticism for the broadcasters:

"One thing that I am not in favor of and that is the idea of electrical transcriptions. There's nothing like the real honest-to-goodness programs. But everything goes the way of the least expense and bigger and more profits."

The Editor does not share this aversion to records. As a matter of fact, we doubt very much if anyone can tell whether it is the orchestra playing or an electrical transcription of that orchestra. All radio reception is, after all, a "transcription." We do not hear the original music but only an electrical vibration set up by that music. Whether this music passes through one or two transcriptions. affects it very, very slightly. Who can possibly tell on the Chevrolet program, for instance, that it is not the orchestra they hear? As for us, we would much rather hear a transcription of a firstrate artist than the original of a dozen second or third-raters. What do our readers think?

A newsy letter comes from Mrs. M. L. Ellis, Secretary-Treasurer of the Buffalo Evening News DX Club. 152 Tremont avenue, Kenmore, N. Y. This Club, with Mr. E. K. Bame as President, is, she says, "Still going strong. Members are coming in to it from all over the eastern part of the United States and we expect to bring in the west coast soon. We completed a very successful contest December 31st, with Mr. Johnson winning the News cup for the most verified stations during 1930. And these were real verifications, for neither comment letters nor stamps were accepted. The contest now is for four months, and September 1st another one will start lasting till January 1, 1932. Plans are about complete for a broadcast program over the News station, WBEN. Mr. Brauner, with 784 verifications, still sets

the pace for the rest of us, but we are creeping up on him."

We received many letters regarding WTIC coming in on WEAF'S frequency and in another column our readers will find the facts about this change. Says Arthur Fair, 161 W. King street, York, Pa.:

"Enclosed you will find a newspaper clipping with the detailed account of WBAL combining with WJZ, and WTIC combining with WEAF. The combination seems to work all right. The combined force of the two stations sure brings in the music loud and clear. I presume this will be approved by many people as a step towards synchronization of most of the stations and thus clear up the channels. I don't believe it will be approved by DXers though, because they won't be able to prove so easily that they got certain stations."

Here is a reader who had his subscription to RADEX paid for by a broadcasting station!

"I am fortunate in having my subscription paid for by WBBZ. I received a \$5.00 check for being their most remote listener to a recent DX. In February I received a \$5.00 check from KGBX for the same reason. CMBR is sending me a Bible for being their most remote listener when they were using 15 watts." Robert R. Rawstron, 15 Edgewood street, Claremont, N. H.

# A "Half-Harmonic"

"I had a rather queer experience the other night. I was fishing around on 620 kcys., when I heard a strange station broadcasting. I listened, of course, and I was surprised to hear that it was one of our locals, KGBX, a 100-watter on 1310 kcys. I tuned them in on their correct frequency and sure enough they were playing the same music. The only way I can explain it is that perhaps it was a 'half-harmonic' if there is such a thing." Thus writes Richard Douglas, 1125 Krug Park Place, St. Joseph, Mo.

"Radio Station KFJR had a test program for one week and they offered a set of radio tubes to the one who received KFJR from the most distant point from Portland, Ore., where they are located. I heard them on March 6th and won the set of tubes that they offered." Frank Maida, R.F.D. No. 1,

Long Branch, N. J.

The two pet enemies of our DXers seem to be WRHM and WFIW. We receive more complaints of these two stations hogging the dials than of all others combined.

"I too, would like to add my complaint against WRHM at Minneapolis spoiling 1250 reception, but they are not nearly



"Al and Pete," Radio Comedy Team; comedy songs and humorous dialogue, mornings at 11:45 over NBC.

as bad as WFIW in Hopkinsville, Ky., on 940. My set tunes very sharply, but WFIW is generally on all night up to the wee small hours and they not only spoil 940 reception, but 930 and 950 as well. It wouldn't be so bad if they put on some decent music, which at least WRHM does, but they always have old country fiddling, yodeling, cowboy songs or some such nonsense." F. W. Edel, 709 W. Nevada street, Urbana, Ill.

A word of hope comes from Daniel C. Looby, 703 W. Tioga street, Philadelphia, Pa.:

"WRHM no longer spoils reception on 1250 kcys. all night long. They have dis-(Continued on page 21)

# DX Targets for May

HE following information regarding time on the air has been secured from the stations concerned, from newspaper clippings and from our readers. The times shown can be quickly converted into your own time by use of the following table:

Where Time is Given on

Vour 1

Your Zone	EST	Where Ti	me is Giver   MST	as   P	ST
EST CST	Subt. 1 hr.	Add 1 hr. Subt. 1 hr.	Add 2 hrs Add 1 hr.	Add	3 hrs. 2 hrs.
$_{\mathbf{PST}}^{\mathbf{MST}}$	Subt. 2 hrs. Subt. 3 hrs.	Subt. 1 hr. Subt. 2 hrs.	Subt. 1 hr	. Add	1 hr.
		Date : B In the	, bubti I m		
State or Province		tv	Call	Freq.	Matts
Arizona	a Tr	ucson	KVOA	1260	500
Su	ndays, 9 a.m.	2 p.m., 4-9 p	p.m., MST.		
Se	eekdays, 7-10 cond Sunday	each month.	2 p.m., 4- 1-4 a.m. (S	9 p.m. pecial I	(X)
Colora	do D	enver	KOA	830	12500
Su	eekdays, 7 a.i ndays, 9 a.m.	m11:55 p.m. -11:55 p.m.	MST.		
Cuba	C	amaguey	CMJA	1332	10
Georgi:	turday, 11:30	) p.m3:30 a.: olumbus	$egin{array}{c} \mathbf{m.~Sun.} \\ \mathbf{WRBL} \end{array}$	1200	50
Su	ndays, 4 a.m.	, EST.			
Hawaii	i H	onolulu	KGU	940 45 n.m	1000
Su	eekdays, 6:15 ndays, 8:30-9 foon EST is 2	:15 a.m., 2:4	5-10 p.m., 4.	40 p.m.	
(N Illinois	oon EST is 2	:30 a.m., Hor	nolulu.)	1010	100
	ndays, 11 a.r	arrisburg n., CST.	WEBQ	1210	100
	$\mathbf{R}$	ock Island	WHBF	1210	100
	th of each mo	uscola	WDZ	ai DA). 1070	100
Su	indavs. 2 n.m	CST.			100
Indian: Su	a T	CST.	WBOW	1310	100
Monite	nha R	randon	CKX	540	500
St W	indays, 7-8:11 edFri., 8-1	op.m.   Sum	mer Schedi	ıle	
Movies	. N	Taxian City	XETY	_ 840	2000
Monta	turday, 11 p.	m12 m. (D) utte	KGIR.	1360	500
Sa	iturdays, 12-5	a.m., MST (	Night Owl	s).	
Nevad D	a L ailv. 9 a.m1	as Vegas n.m., 6-10 n.	m., MST.	1420	100
New B	aily, 9 a.m1 runswick S	t. John	CFBO	890	500
New F	eekdays, 3-5 Iampshire L	a.m., EST. (5 aconia	mins. only WKAV	7) <b>.</b> 1310	100
St	ındays (3rd o	f each mo.), 3			
Move V	indays, 3-5 p.	hoan	WLCI	1210	50
St	indays, 10:45	a.m12:15 p	.m., EST.		-
Q.	W -inday, 12:15	oodside	WWRL	1500	100
Oklaho	oma T	ulsa	KVOO	1140	5000
On to m	hu. and Sat. 1	ıntil 1 a.m. C	ST. (organ	). 1210	15
Ontari Su	indays, 3-6 p.	m., EST.	CKMC	1210	10
Quebe	3 N	lontreal	CHYC	730	5000
Tennes	ındays, 9-11 a see B	ristol	WOPI	1500	100
W	ednesday, 3-	a.m. (Specia	l DX 1st V	Ved. eac	h mo.).
Texas W	Dokdova 6-10	ublin	KFPL 30 7:30-0:3	1310	CST 100
Š	eekdays, 6-10 indays, 7:30-9	30 a.m., 1:3	0-2:30 p.m.	, ČST.	0.01.
	S: 12:30 iesdays,	an Antonio	KMAC	1370	100
w	eekdays, 7-9:	30, 10-11 a.m	., 12-2, 4-6,	7-8, 10-	12 p.m.
Su	eekdays, 7-9: indays, 7-9, 1 nt	1-12 a.m., 2-4	4, 6-8 p.m.	1970	100
Vermo Su	nt indays, 3-4 p.	m., EST.	MATOM	1910	100
W	eekdays, 12-1	p.m., EST.			

# Technical Difficulties

(Continued from page 9)

way, so you will have to tap each tube with the finger. Any deflection of the voltmeter needle when doing this indicates an internal short-circuit. Most likely this will be found to be the seat of your trouble. A new tube substituted for the defective one will be the remedy. However, a broken-down blocking condenser between the B-neg, and B-pos.. or between the B-pos. and A-neg., the latter being connected to the B-neg. line in most battery-operated sets, may also account for the short-circuit. If the fault is not in the tubes, remove the blocking condensers and test them separately. A volume control on a metal panel may be short-circuited and the B-leads in the set may be touching each other.

### Atwater Kent No. 30

Where can I secure wiring diagrams of the Atwater Kent receiver model No. 30? Does this set require a power tube or detector tube and how much C-voltage should I have? What is the purpose of an output transformer hooked up to a loudspeaker?

You can undoubtedly get a wiring diagram for the model No. 30 Atwater Kent receiver from "Radio," 428 Pacific Building, San Francisco, California, or Radio News, 381 Fourth avenue, New York City, or by writing to the manufacturers, Atwater Kent Radio Co., Philadelphia, Pa. This set does not require a power tube in the last audio stage as the set originally called for 90 volts of maximum B-power for the last audio tube, indicating the use of a 201A tube, and a C-bias of  $4\frac{1}{2}$  volts. However, you can use a 112A or 171A power tube by increasing the B and C voltages according to the needs of these tubes as follows: For the 11 A, use 135 volts of B and nine volts of C, and for the 171A tube, use 180 volts of B and 40.5 volts of C. On this set a 201A or 200A tube can be used as a detector. The purpose of an output transformer or choke is mainly to protect the loudspeaker windings from excessive plate voltage to which a power tube is subjected.

### Attaching Phones

I followed the diagram and instructions for installing a headphone jack published

in the April, 1930, issue of Radex but fail to cut off the loudspeaker, which this hookup is supposed to do. The lowest lug of the Carter No. 102A jack is connected to the B-pos. terminal of the first audio transformer. I removed the lead running from the P-terminal of the transformer to the P-terminal on the socket to the top lug of the jack while another lead from the P-terminal of the transformer was connected to the middle lug of the jack.

If you have wired up the phone hookup correctly, as it seems from the information of your letter, there are two points, either one or both of which may be the cause of the trouble. First examine the lugs at the end of the jack to which the wires are soldered. If the solder on the upper lug touches that on the second lug, there is a direct electrical path across them, which permits the loudspeaker to function even when the phones are plugged in. The second possible cause is the phone plug itself. You will notice that the ball end of this plug is insulated from the shank by means of a fiber washer. When plugging into the jack, the ball end may be too large so that it touches both contacts. giving the same effect as the solder across the ends of the lugs. For proper operation the ball end makes contact with the second lug when the plug is pushed all the way in, while the shank makes contact with the upper blade of the jack only. Look for a short circuit at this point. Perhaps the spring of the blades is so strong that the plug does not separate them. A path across the upper two blades or the wires connected to them is responsible for your trouble. The plate current to the audio tubes must be cut off in order to prevent the loudspeaker from working.

# **Defective Speaker**

I have a Utah loudspeaker unit that broke down, losing about two-thirds of its volume. Several radio repair shops have failed to give any satisfaction in repairing the unit. The coil checks perfectly but I had it unwound and rewound again to make sure there was no break in the wire. The magnets seem to have plenty of strength and I cannot locate the trouble. Will you kindly advise?

Usually it is not economical to try repairing a defective loudspeaker unit of the magnetic type. Such units can be purchased about as cheap as the cost of repairing them and sometimes cheaper. In most cases a winding is burned out but if this is not the trouble with yours. which can be guickly determined by making a voltage test across the ends of the coils with a voltmeter and battery connected in series, it is possible that the thrust pin which connects to the diaphragm, is not centrally located, or the soldered ends are a trifle loose. Also, the plate between the coils may need adjustment. Any defects of such kind make a marked difference in the volume and in the tone quality of reception.

Body Aerial

I have a Lyric with four screen-grid tubes. Lately there seems to be quite a bit of crackling noise on almost all stations. I took off the top cover of the shield to see if there were any possible broken or loose connections. My finger touched the wire that comes from the coil to the top of the first screen grid tube and instantly the noise ceased and volume was increased about three times its original strength. I would greatly appreciate a little advice as to what is wrong with this set.

When you touch the top terminal of the first screen-grid tube and the volume increases while the noise stops, your body serves as an aerial and provides the tube with more input energy than it is otherwise getting from the aerial, indicating a faulty volume control or a grounded aerial. Have the volume control replaced, after, of course, checking the condition of the aerial, and you may be reasonably certain that your trouble will be over.

Changing to A.C.

I am using a six-tube King-Hinners neutrodyne receiver and at present it is equipped with 201A tubes. I think that a power tube and detector can be used with the set. I would also like to change this set to all-electric operation. Will you kindly tell me what difference that would make in reception, with the addition of a power tube?

You should be able to improve your reception considerably by converting your battery set to all-electric operation,

using a power tube and providing a dynamic loudspeaker. However, there are many all-electric models, which can be purchased cheaper than the cost of equipment to electrify battery-operated sets. Consult your dealer or write for a catalogue and prices from the prominent mail-order houses. Be sure to state the kind of electric current available, the voltage, whether d.c. or a.c. and if the latter also the cycles. By electrifying a battery-operated set there is always the possibility that the results will not be entirely satisfactory, perhaps there will be a hum or uncontrollable oscillation. Taking these objectionable features into consideration, the purchase of a readymade set is a better idea, especially as this includes a dynamic speaker and power amplification at the audio end.

### **Broken Condensers**

I have a high-voltage power pack supplying 7.5 volts for the 210 power tube in my receiver. After the set had been disconnected for some time and then hooked up again, I heard a click when the current was first turned on, after which the glow tube ceased functioning and the rectifier tube heated considerably so that the plate became red hot. No voltage could be obtained across any of the output terminals except the 7.5 volt terminals. Where does the trouble lie and how should it be remedied?

For the condition you have described there are one or two causes, or possibly both. One or more of the high-voltage condensers may be punctured, or a resistor used to reduce the voltage at the output is burned out. Test the condensers by first removing them from the circuit and then connecting a C-battery with a voltmeter in series with the two terminals. A good condenser will not give a reading on the meter but a punctured condenser will. The same test can be applied to the resistors, but in this case a good resistor gives a reading while a defective one does not. Hooking up the set incorrectly is undoubtedly responsible for your trouble.

Read our offer of a copy of the new book on radio for only two subscriptions. See inside front cover.

# Inside of Your Set

(Continued from page 3)

In a receiver, the secondary winding of the coil is cut not only for the insertion of a battery, but also for a vacuum tube. Nevertheless, the flow of current through the secondary is continuous as there is no actual break in the electrical circuit: it flows through the battery from the positive terminal, through the circuit and back to the negative, passing through the battery and continuing in the same way. Also, the evacuated tube offers no resistance to the flow of current, and the latter passes directly through it. To understand this, it is necessary to find out exactly how the vacuum tube works and the purpose of each part, comprising it. The principle of all vacuum tubes is the same whether it is one designed for a battery-operated receiver, or for an a.c. receiver. The differences will be taken up later.

### How Vacuum Tube Works

A vacuum tube consists of a sealed glass bulb, from which all the air has been pumped out or evacuated, and some gas has been introduced to absorb the very small amount of air that could not be removed by mechanical means. The gas also tends to reduce resistance to an electric current, which under the influence of the heat and pressure, will pass through a vacuum. Of course, the ends of the conductor carrying the current must pass up through the base of the tube into the evacuated, gasfilled space. Then the current, in presence of heat and pressure (voltage) jumps off one end of the wire through space and alights on the other end of the conductor, continuing its flow through the circuit outside of the tube. The end of the wire from which the current jumps off is called the plate and the end on which it alights is called the cathode.

The heat is provided inside of the tube by means of a filament like that of any ordinary incandescent lamp used for illumination purposes. Incidentally the vacuum in the tube also prevents the filament from burning out quickly, or oxidizing, which it would do if there were any air in the tube. Just notice how

quickly a filament will burn out if you remove the tip or crack the glass, allowing the entrance of air. Also, a filament in a vacuum can pass so much current, without burning out, that it becomes red or white hot, providing illumination, which is the story of the incandescent lamp in a nutshell.

### **Action of Filament**

Now, getting back to the radio tube. after this little digression, we find that the filament provides the heated condition necessary for the passage of current through the vacuum. The cathode may be separate from the filament, as it is in 227 type of tubes, or the filament may itself serve the purpose of the cathode. as in the 201A, 220A, 112A and 171A type of tubes. In the latter case the filament is connected to two separate circuits, one a high-voltage circuit, which passes through the vacuum, and the other a low-voltage circuit, which lights the filament. The exact amount of current flowing through the filament circuit is controlled by means of a resistor, which may be of a fixed value, or may be variable. In the latter case it is a rheostat, which was first used extensively on battery-operated receivers. However, if the source of supply is constant and does not fluctuate in voltage, a resistor is not absolutely necessary. The filament of a tube goes to two separate prongs on its base, the plate to another, and if a separate cathode is used, this is connected to a fourth prong.

With these elements only, however, radio would be impossible. Another element, the grid, is placed between the plate and the cathode to control the amount of current passing through the tube. The grid can be likened to a valve in a water pipe; opening or closing it increases or diminishes the flow of water. The grid is merely a screen. Very small fluctuations of voltage impressed on it control instantaneously the comparatively large amount of plate current flowing through the vacuum and directly through the screen. The result is that the fluctuations in the plate current are in perfect synchronism with those in the grid circuit. The secret of this wonderful control lies in the fact that like kinds of

electricity repel each other while unlike kinds attract each other. To make this absolutely clear, it should be remembered that electricity, like water, flows through a circuit under pressure from one end. or by means of a suction at the other end. In a water pipe placed at an angle from an overhead tank to a point below, the pressure in the tank forces the water down the pipe, and the water in the lower end of the pipe also tends to pull the water directly above it downwards. as is the case with a siphon. If you tightly squeeze a siphon tube while the water is running through it there will be pressure from above and a pull from below. In a similar electric conductor passing a current, the side of pressure is called positive and the side of suction is called negative. The actual pressure is an electric circuit is called voltage and the flow of current is called amperage. Naturally when two equal pressures oppose each other like two tanks of water that are equally high and are filled with the same amount of water, there can be no current flow from one to the other. Similarly a positive electrical pressure conflicting with another positive pressure, retards or stops the flow of one or both, when arranged like the plate and grid in a vacuum tube. This is what is meant by "like kinds of electricity repel each other." Now, working along the same analogy, one can easily see how unlike kinds of electricity, that is positive and negative attract each other, just like the pressure and vacuum in the water line. However, for those inclined to debate this analogy, it may be stated that this holds true only in respect to electrostatic electricity, as exhibited in a vacuum tube. It does not apply to two or more separate electrical currents. flowing over the same conductor, as they will pass each other in opposite directions like strangers, each seeming to occupy a small portion of the conductor.

Returning to the function of the grid element. A positive charge on the grid retards the plate current, while a negative charge increases its flow. As previously mentioned, one end of the secondary coil of a transformer or coil connects to the grid element. The r.f. signals, which alternate from negative

to positive many times per second, cause the enormously greater plate current to vary in synchronism, so that this current has practically the same characteristics as the weak current picked up by the aerial, only amplified many times. The output of the first tube goes to a second coil, and then to the next vacuum tube, where the already strengthened current is amplified still more. This process is repeated up to the detector tube, where the frequency of the signal is changed, and after the frequency is changed to a lower number of vibrations per second, the process of amplification is again carried on by the a.f. tubes or audio amplifier. You can surmise what an enormous enormous multiplication the output signal of a radio receiver must be of the feeble input signal. Then comes the process of transforming the a.f. output into audible vibrations that are picked up by the ear, and are intelligent, pleasing or annoying to our minds -changing electrical impulses to sound waves - but that is another story.

# Reader Gossip

(Continued from page 17)

continued broadcasting in the early morning hours and sign off about 1 a.m. A good many DXers will be glad to know this."

"CJRW (or short wave VE9CL) Winnipeg (remote control from Fleming, Sask.) has been operating for some time on a frequency of 660 keys, instead of 600 as previous. This test is being made to see if reception will be any better in Winnipeg. We were experiencing quite a bit of noise on this station on the original frequency, but reception is much better now so that the change will no doubt be permanent." J. S. Clark, Royal York Apts., Kennedy street, Winnipeg, Man. "Radio experimental station W9XV, Carterville, Mo., conducted test programs last week on fly power (2 watts). I picked them up real good and just received a fine verification." Rudolph Kure, 301 Warner street, Cincinnati.

"When I got KOB they announced KOB, El Paso.' That puzzled me as I could not get an El Paso station with a

power of only 100 watts." Walter L. Scott, 1320 Race street, Cincinnati, Ohio.

"Here are some changes in the station listings that I have on good authority, from the Chicago Daily News DX Club, in fact: XEN, Mexico City, 719, is moving to 702; and if you hear XEP, Laredo, Mexico, on 1400, they are just testing there. One reason that the Mexican stations are heard everywhere except on their own frequency is that they can use any frequency they want after midnight," Richard Douglas, St. Joseph, Mo.

"On March 11th I received and verified CJRM. They are operating on 665 kcys. The Radio Bulletin on which the verification came stated that CJRW in Fleming was also operating on 665 kcys. with a power of 1000 watts. CMRX, their short wave station, has been temporarily suspended and the 2000 watt station now operates under the call letters VE9CL on 48.8 meters." Fred H. Bisset, Box 339, Goderich, Ont.

"KFI of Los Angeles has now commenced the construction of their new 50,000-watt station, the transmitter of which will be located at Northam, a railway siding near Buena Park and located about midway between Los Angeles and Santa Ana." Lieut. Gordon R. Jackson, 420 No. Pasadena avenue, Pasadena, Calif.

### CHMA Reinstated

"In the last letter I wrote you on February 23rd I said that CHMA had been deleted. It has reapplied for and been granted a license to operate on Sundays only, sharing time with CKUA, also of Edmonton. It operates on 580 kcys., with 250 watts power." Raymond Donovan, 10028 105th street, Edmonton, Alta.

"XETY recently announced that they were going to move to 1300 kcys., but they seem to be on 1290 and interfere a good deal with KDYL." F. E. Holley, 6450 So. Lincoln street, Chicago, Ill.

"On the evening of Saturday, March 7th, and early Sunday, March 8th, I had the extreme pleasure to tune in a station on each of the 96 channels from 550 to 1500 kcys." Meyer D. Walters, 202 Asquith street, Baltimore, Md.

Paul J. Keck, 1013 Maple street, Al-

lentown, Pa., takes this poke at some of us:

"You have no regular joke department, but some of the letters I read in RADEX sure do create hilarity. 'I see by the paper' where one person tuned in 106 stations in five hours, and another person got 163 stations in one evening. All I can say is they sure must do a lot of guessing."

Ouch! But that isn't really deserved. It really is fun to turn the dials and see how many different stations one can hear in a given time but, of course, that isn't DXing. But, knowing the chain programs, it is possible to tune in a surprisingly large number of cities in a short time.

### Do Tuners Tune?

We have had many inquiries regarding various "tuners." Here is both an inquiry and an answer:

"Just one or two questions: There is a radio station here, CKCL, I believe, selling a Varituner. I also notice in the March RADEX that someone asks for information about them. I. too, would like to get some information about the Varituner from someone who has used it. Is it any help in cases of tuning one station out? For instance, WLW and CKGW are on the same wave length and quite frequently drown each other out. Will Varituner correct this?" James Gartlan, 83 Chelsea avenue, Toronto, Ont.

"I have a 9-tube Radiola superheterodyne and get very good results from it. In the past two months I have logged 273 stations, including 2YA, New Zealand, 4QG and 2BL, Australia, two Cuban and three Mexican. I do not use an aerial. I have a piece of pipe driven into the basement floor and a wire from the pipe to the antenna post of my set. The ground is not connected to anything except one of WFIW'S Cleer Tones. The Cleer Tone increases the volume 50 per cent. This may interest Mr. C. Bonneville of Washington, D. C." H. E. Vaughan, 323 3rd street, Brandon,

These devices with the fancy names are usually nothing more nor less than wave-traps and ought to be advertised and sold as such. Their principal value is in tuning through locals. Those we have tested do help to tune out interfering stations on adjoining frequencies but they do it by reducing the volume of both of them leaving only the stronger to be received. Exactly the same results can be obtained by switching to an inside aerial. Their claims regarding static elimination are dreams of the advertisement-writer.

Remember the inquiry in March regarding a station in Gretna, Nebr.? Here are some comments:

"I notice in your March RADEX that station KMRS, Gretna, Nebr., was heard by Felix Schmitz of Omaha, and you said no notice was given by the Commission of such a station. Today we heard this station and listened to it for half an hour. We heard the announcement more than a dozen times, 'Sun Theatre, Gretna, Nebr.,' but each time we understood the call to be KMRF." Fred Wageman, 1341 L street, Havelock, Nebr.

"I read about this new station KMRS in Gretna, Nebr. I have received them several times. They are on the air on Sunday afternoons. I do not think they are on 1490 kcys. because it is on the same number as KICK of Red Oak, Iowa, which is on 1420 kcys." Keen Hamilton, Ralston, Nebr.

### **Outlaw Station**

"Regarding new station at Gretna, Nebr., KMRS, on 1490, there is a young chap there who is an ardent short-wave fan, and it would not be surprising to me if he is doing a little broadcasting on his own transmitter. However, I may be entirely wrong." Dr. F. S. Taylor, 222½ N. Hastings avenue, Hastings, Nebr.

"In answer to the questions of A. Cotes, Jr., Springfield, Ohio, in the March issue, I would like to report that I have received this station, WIBS, many times. It is the Michigan State police transmitter which gives time announcements every hour and also any other information that has to be given to the police cars. It broadcasts on a band above the regular broadcast band, together with a few other police transmit-

ters. The frequency is 1712 kcys." Meyer D. Walters, 202 Asquith street, Baltimore. Md.

"I notice a letter from Mr. Albert Cotes, Jr., stating that he gets a signal which is a series of dots and dashes, which is repeated constantly day and night. Mr. Cotes no doubt is picking up an airport direction signal. I am located about two miles from the airport of Albany and about four miles from the airport of Schenectady. Both of these airports have direction finders which I can pick up on my receiver in the broadcast band, although their wave is much lower than broadcasting, or rather higher in kilocycles." Glen E. Clute, Route 58, Box 78, Schenectady, N. Y.

### KCAA on Harmonic

"KCAA that Mr. Wallis of Neosho, Mo., gets is located at Tulsa, Okla., and he is getting them on their second harmonic of a wave of 1015 meters. Pretty good for him. They are owned by the Department of Commerce, Bureau of Lighthouses, and on this transmission broadcast weather reports to the airways." Ivan D. Ide, Box 312, Genoa, Ill.

"CFCH is the station whose announcement is 'Up where the north begins.' They verified and sent me the following information: 'North Bay is situated on Lake Nippissing, 250 miles north of Toronto.'" Robt. H. Silverman, 135 So. 17th street, Philadelphia, Pa.

"I note that one reader, John W. Christy, heard a program in the background of WEAF, which he couldn't identify, and which one reader thought was cross modulation. The real answer to that is probably that Mr. Christy was hearing either CJRM or CJRW, both of which have been trying out a wave of 665 kcys., to cut down interference from U.S. stations." F. W. Edel, 709 W. Nevada street, Urbana, Ill.

"To answer the query of a reader as to KCAA on 1180 kcys. This is a government aircraft communications station situated at Tulsa, Okla. One of its frequencies is 296 kcys., which would have a harmonic at 1184 kcys." Frank Wilkes, 25 Maurice avenue, Ossining, N. Y.

If Mr. Welsh, of Pennsylvania, is get-

ting airport stations between 1500 and 550 they are either harmonics from below the band or it is a superheterodyne and getting them on short waves." Ivan D. Ide, Box 312, Genoa, Ill.

"The station XE-AR which so many readers inquired about was XETA in Mexico City, using the experimental call XETAR." F. W. Edel, 709 W. Nevada street, Urbana, Ill.

"I read in the February issue of a Mr. Duval being puzzled as to a police station of St. Louis. I am sure he has the call letters wrong. I have a verified statement from them. Their real call letters are KGPC. They are on 1712 kcys., 500 watts." Mrs. Guy Lanphear, 121 W. Grant street, Minneapolis, Minn.

"Can you tell me why it is that I can get KPO, San Francisco, much better than VAS, Glace Bay, N. S.? VAS has 10,000 watts against 5000 of KPO." A. R. G. Tippet, 188 Cote St. Antoine road, Westmount, Que.

Power and distance are only two of the many factors affecting radio reception. It is impossible for anyone to calculate which stations he will receive merely by judging the power and distance. There are other intangible and unexplainable factors.

For our close this month we have something in the nature of a swan-song by Arthur L. Robb, 1338 Mulvane street, Topeka, Kans.

"The good nights when stations leap out from all points of the dial and distant stations come booming in are becoming fewer and farther between. The daylight stations are lengthening their schedules and Amos 'n' Andy can no longer be picked up on eastern stations at six o'clock. These are a few of the signs that the DX season is commencing to wane and the time approaching when there will be no RADEX for three long months."

But "why bring that up?"

Owing to many changes now being made in world stations and the coming of the static season, we are holding the new list of foreign stations until September.

# 

	Ch	nanges for May
Frequen	cies	• ,
547	XEY	Merida, Mex., from 1000
674	XER	Mexico City, from 650
711	XEN	Mexico City, from 719
800	XEU	Vorgonur Mor from 1000
857	XEJ	Veracruz, Mex., from 1000
		Juarez, Mex., from 1000
961	XED	Reynosa, Mex., from 977
980	XEFE	Laredo, Mex., from 1000
990	XEX	Mexico City, from 1210
1015	XEQ	Juarez, Mex., from 750
1034	XEV	Pueblo, Mex., from 1000
1091	$_{ m XEL}$	Saltillo, Mex., from 1000
1130	$\mathbf{X}\mathbf{E}\mathbf{E}$	Oaxaca, Mex., from 1000
1200	XEA	Guadalajara, Mex., from 1000
1333	XEC	Toluca, Mex., from 1000
1400	XEP	Laredo, Mex., from 1430
_		and out of the state of the sta
Power	TITTOO	D-11
600	WICC	Bridgeport, Conn., 500 to 250
660	CHWK	Chilliwack, B. C., 5 to 50
870	WLS	Chicago, Ill., 5000 to 50,000
1180	WGBS	New York City, 250 to 500
1310	KMED	Medford, Ore., 50 to 100
1410	WDAG	Medford, Ore., 50 to 100 Amarillo, Tex., 250 to 1000
Owners		
780	WMC	Memphis, Tenn., to Memphis Commer-
100	11 1110	cial-Appeal.
1270	WOOD	Grand Rapids, Mich., to Kunsky-Trendle
1270	WOOD	
1990	WDDA	Broadcasting Corp.
1330	WDRC	Hartford, Conn., to WDRC Inc.
1430	WHP	Harrisburg, Pa., to WHP Inc.
Deletion	ıs	
1000	$\mathbf{XEF}$	Oaxaca, Mex.
1470	WTNT	Nashville, Tenn.
Location		•
1350	WAWZ	From New York City to Zarephath, N. J.
1500	WCLB	From Long Beach, N. Y., to Brooklyn.
	W CTD	From Long Deach, 14. 1., to Drooklyn.
New		
1485	XETO	Mexico City
Calls		
1500	WCLB	Brooklyn, N. Y., to WMIL
	5111	210011, 11, 21, 10 11 1111
Chains	TATATA	Diamond N. D. non NDC
550 940	MDAY	Bismarck, N. D., new NBC.

940 WDAY Fargo, N. D., new NBC. 1200 WLAP Louisville, Ky., new CBS.

Additional Frequencies 660 WTIC Hart

660 WTIC Hartford, Conn., Network programs.
760 WBAL Baltimore, Md., Network programs.

# New Lists in This Issue

We have received so many inquiries from readers attempting to identify the short wave stations they pick up, that we are publishing on pages 61 and 62, of this issue a list of those short wave stations assigned frequencies apt to be picked up on a broadcasting set.

On pages 62 and 63 will be found a complete list of the Relay Broadcasting, Television and Experimental stations. This data is arranged alphabetically by radio districts. We believe this is the first time this information has ever been published for the benefit of radio listeners.

This information will not appear regularly and this issue should be preserved.

# BRIEF REPORTS of DX RECEPTION

# Letters About Logs

From the Commonwealth of Australia on the other side of the globe, comes this letter. The writer is L. F. Schnitzerling, Canning street, Warwick, Queensland.

"I had the pleasure, through the the generosity of an American penfriend, to have brought to my notice November's issue of your delightful little book 'Radio Index.' I must say that it is an excellent book for the amateur and contains some very good articles."

Mr. Schnitzerling is kind enough to send us an up-to-date list of the broadcasting stations in Australia and this information will be used to correct our world list for its publication in September. His list contains 47 stations.

"I own a one-tube (home-made) set using four dry cells and only  $22\frac{1}{2}$  volts of B power. Since October 15, 1930, I have logged 401 stations. I have 27 in the states of Oregon, Washington and California (all verified). By the way, I have received one or more stations from every state in the Union, but one. That state is Nevada." Joaquin T. Russe, 21 Standish Street, Provincetown, Mass.

"We have only had our Westinghouse radio less than three months and I have logged 111 radio stations. I heard a station announced as WJSV, Mount Vernon Hill, Va., and in your book it is Alexandria, Va. Can you give me some information through your book on this?" Kenneth Colwell, Wallaceburg, Ont.

As our readers probably know, Washington's home, Mount Vernon, is located near Alexandria, Va. WJSV has a fine home between Alexandria and Washington which they call Mount Vernon Hills.

"On a Victor radio, ten tubes, in a year's time, I have logged 215 stations in 34 states. Also eight in Canada, three in Cuba, five in Mexico, and my log shows KSL, Salt Lake City; KOA and KFXK, Denver; KTAR, Phoenix; KNX, KFI, KPO, California; KEX, Portland,

Ore., etc." W. Russell Acker, 709 W. Rose Street, Pottsville, Pa.

"I have logged 193 stations in a little over three months. I have received two stations in Cuba, four in Mexico, and the rest in Canada and the U. S. I also want to inform you that CJRM, Moose Jaw, now operates on 665 kcys." Jack Blair, 1078 First Avenue, N. W., Moose Jaw, Sask.

"I have a combination 2-tube radio built by myself and have received proof of reception from 46 states in the U.S., every province in Canada, 37 Pacific coast stations, six Mexican, five Cuban, one in Haiti, and one in Porto Rico." Theodore Vachovetz, Box 163, Elmsford, N. Y.

"I have now logged 335 stations. I have brought them all in over my loud speaker and have had at least one station on every one of the 96 channels. My log includes 17 stations in five provinces of Canada, six in Cuba, five in Mexico, one in Porto Rico, and 28 in the Pacific coast states." Harold L. Ball, 514 31st Street, South Bend, Ind.

"To date I have received 318 stations, of which 12 are 2,000 miles or more distant, and 51 and 100 watts or less. I use a Zenith, model 11." Jack Kelleher, 50 Spring Street, Red Bank, N. J.

"My log now consists of 297 stations, of which 13 are Pacific coast stations, two in Cuba, one in Mexico, and 11 in Canada. I have about 175 verifications, all of the more distant ones being included." Wm. Buchner, 279 Madison Street, Passaic, N. J.

"We have had our radio for not quite two months. It is a 1930 Victor combination 10-tube electric machine. It has four screen-grid tubes. Altogether we have 150 different stations in the U.S., Canada, Mexico and Cuba." Ford Martyn, 695 Nassau Street, Winnipeg, Man.

"My record, though not rating with those who receive Japan, etc., is now 457, 398 of which I received with my Philco, the others about four years ago with an old Radiola Regenoflex." Melvinde Jager, 106 Llewellyn Avenue, Hawthorne, N. J.

"In the month of January I logged 226 stations in 38 states, Mexico, Canada and Cuba. 139 have been verified and have 87 still out. I have an 8-tube Amrad that is over two years old." Louis C. Borsheim, 4908 Chicago Street, Omaha, Neb.

"I am a DX fan and since around October 1st have collected 220 stations, the best being KGMB, Honolulu; CMK, Havana; XEW, Mexico City; CNRM and CKAC, Montreal. I have a General Motors radio." Patrick J. DeVany, 1192 Stout Street, Denver, Colo.

"I have to date logged a total of 310 stations, including 21 in Canada, and two in Cuba. Believe it or not, I have used a 2-tube RCA III regenerative set, operated with batteries and using earphones." Stanley H. Bond, Oakland, Md.

"In five months from October 1, 1930, to March 1, 1931, I logged 332 stations for a total of 493,910 miles or an average 1,488 miles to each station. My receiver is a 5-tube Gilfillan battery set." R. A. Butts, 203 S. Main Street, Ellensburg, Wash.

"So far I have received 434 stations, including 126 of 100 watts or less, 49 on the Pacific coast, 10 in Mexico, six in

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Cuba one in Hawaii and one in Porto Rico.' F. E. Holley, 6450 S. Lincoln Street Chicago, Ill.

"I have used RADEX since last November and up to now have added 112 new stations, including 57 100-watt stations. This gives me 382 stations in one and one-half years with my Majestic 72." Levi Rost, Cokato, Minn.

"With a W. R. 6 Westinghouse and the help of your Radio Index, I tuned in a station for each channel in ten days and in the last 43 days have logged 240 stations." J. Dale Stambaugh, 3741 Keswick Road, Baltimore, Md.

"I am doing very well with my 11-tube Westinghouse Superheterodyne. The total is 293 stations with CKPC, WOCL, 25-watters; WEDH, 30 watts; CKOC, WJBY, Gadsden, Ala., 50-watters; and KFVD, 250 watts at Culver City, Calif." L. G. Briscoe, 3743 Hutchison Street. Montreal. Que.

"I am a member of the Newark News Radio Club and have so far received about 430 stations, including 35 on the Pacific coast." Florine Rossi, 8 Nelson Street, Dover, N. J.

"My record to date is 269 stations. Nine in Cuba, three in Mexico, and 17 in Canada. I have also had WKAQ in Porto Rico." Jack Roberts, 211 Harvard Avenue, Collingswood, N. J.

3

# INSURE YOUR RADIO ENJOYMENT

SEND THIS BLANK TODAY

No extra charge outside the United States

# KEY TO CHAIN STATIONS

CFCF 1030 N	KPRC 920 N	WCAU 1170 C	WHAS 820 N	WNAC 1230 C
CFRB 960 C	KRLD 1040 C	WCCO 810 C	WHEC 1440 C-	WNAX 570 C
CKAC 730 C	KSCJ 1330 C	WCFL 970 N	WHK 1390 C	WOAI 1190 N
CKGW 690 N	KSD 550 N	WCKY 1490 N	WHO 1000 N	WOC 1000 N
KDKA 980 N	KSL 1130 N	WCSH 940 N-	WHP 1430 C	WOKO 1440 C
KDYL 1290 C	KSTP 1460 N	WDAE 1220 C	WIBO 560 N	WORC 1200 C
KECA 1430 N	KTAR 620 N	WDAF 610 N	WIBW 580 C—	WOW 590 N-
KFAB 770 N	KTHS 1040 N	WDAY 940 N	WIOD 1300 N	WOWO 1160 C
KFH 1300 C	KTRH 1120 C	WDBJ 930 C	WIP 610 C	WPG 1100 C
KFI 640 N	KTSA 1290 C	WDBO 1120 C	WISN 1120 C	WPTF 680 N
KFJF 1480 C	KVI	WDOD 1280 C	WJAR 890 N-	WQAM 560 C
KFKX 1020 N	KVOO 1140 N	WDRC 1330 C	WJAS 1290 C	WRC 950 N
KFPY 1340 C	KWK 1350 N	WDSU 1250 C	WJAX 900 N	WREC 600 C
KFRC 610 C		WEAF 660 N	WJDX 1270 N———	WREN 1220 N
KFSD 600 N		WEAN 780 C	WJJD	WRR 1280 C
KFYR 550 N		WEBC 1290 N	WJR 750 N WJZ	WRVA 1110 N
KGO 790 N	— WADC 1320 C——	—— WEEI 590 N———	760 N——— WKBN	WSAI 1330 N
KGW 620 N		WENR 870 N	570 C	740 N———— WSM
900 C		WFAA 800 N	1480 C WKRC	650 N
KHQ 590 N		—— WFAN 610 C	550 C WKY 900 N	1320 N
KLRA 1390 C	WBAP 800 N	WFBL 1360 C	WLAC 1470 C	WSUN 620 N
560 C		WFBM 1230 C	WLAP 1200 C	WTAG 580 N
KMBC 950 C——— KMOX				
1090 C		WFLA 620 N—— WGAR		
830 N——— KOH	WBRC 930 C	1450 N WGL	560 N-WLS	780 C
1380 C	WBT 1080 C		870 N	660 N
KOIN 940 C	WBZ-A. 990 N		WMAL 630 C	WTOC 1260 C
KOL 1270 C	WCAE 1220 N	WGST 890 C	WMAQ 670 C	WWJ 920 N
KOMO 920 N	WCAH 1430 C	WGY 790 N	WMC 780 N	WWNC 570 C
680 N		—— WHAM 1150 N	WMT 600 C	1240 C

# WHAT'S ON THE AIR TONIGHT?

# A WEEKLY CALENDAR Leading Features of the Network Program

Time is given by Eastern Daylight Saving. For Eastern Standard time, subtract one hour; for Central Time, two hours for Mountain Time, three hours; and for Pacific Time, four hours.

Programs of the National Broadcasting Company begin with WEAF and WJZ; those of the Columbia Broadcasting System with WABC.

These programs are correct to date but are subject to change daily thereafter

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Daily (Except Saturday and Sunday	2:30-3:00 American School of the Air
6:45-8:00 Tower Health Exercises	
WEAF WEEL WEL WGY WCAE WRC	WJAS WLBW WMAL WCAO WTAR WDBJ WADC WHK WKRC WWNC WGST WXYZ
WBEN CKGW	WADC WHK WKRC WWNC WGST WXYZ WSPD WDOD WREC WLAC WBRC WDSU
8:00-8:15 Gene and Glenn — Quaker Early Birds	WOWO WFBM WMAQ WCCO KMOX KMBC
WEAF WJAR WEEI WTAG WCSH WFI WRC WGY WCAE WTAM WWJ WSAI CKGW WRVA WPTF WJAX WIOD WFLA	WOWO WFBM WMAQ WCCO KMOX KMBC KOIL KFJF KRLD KTSA KLZ KDYL
WRC WGY WCAE WTAM WWJ WSAI	KVI KOL KFPY KOIN KHJ KFRC
CKGW WRVA WPTF WJAX WIOD WFLA	3:00-3:30 Columbia Salon Orchestra
WSUN	WABC WHEC WLBZ WEAN WNAC WORC WPG WHP WLBW WMAL WCAO WTAR
8:15-8:30 Morning Devotions WEAF WRC WCAE WGY WHAS WOW	WPG WHP WLBW WMAL WCAO WTAR
WEAF WRO WOAE WGI WHAS WOW WFI WCSH WJAR WWJ WPTF WIOD	WDBJ WHK WKRC WAIU WWNC WXYZ
WAPI WELA WSUN WTAG WGN WJAX	WBCM WSPD WDOD WREC WLAC WBRC
WJDX WRVA WBEN WSMB WFI	KSCJ WMT KMBC WDAY KOIL WIBW
8:30-9:00 Cheerio	KFJF KRLD KTRH KLZ CFRB
WEAF WEEL WCKY WRC WCSH WWJ	5:00-5:30 The Lady Next Door WEAF WRC KSD WTAG WSM WHAS
WHO WOC WDAF WAPI KPRC WFI	WKY KPRC WTAM
WSB WSM WJAX WPTF WTAG WOAI	5:30-5:45 Little Orphan Annie
WBEN WRVA CKGW WIOD WHAS WFLA	WJZ WBZ WBZA WBAL KDKA WGAR
WBEN WRYA CKGW WIOD WHAS WFLA WSUN WTAM WMC WJDX WJAR WGY WOW WCAE WIBO	6:05-6:30 Black and Gold Room Orchestra
WOW WCAE WIBO	6:05-6:30 Black and Gold Room Orchestra WEAF WCAE WCSH WWJ WJAR WBEN
9:00-9:30 Something for Everyone WABC WHEC WPG WCAU WHP WJAS	6:45-7:00 Uncle Abe and David
WDBJ WWNC WXYZ WBCM WDOD WREC	WEAF WEEL WIAR WCSH WELL WRC
WLAC WBRC KSCJ WMT KMOX KMBC	WTMJ WSM WEBC WCAE WGY WTAG
KOIL KFH KFJF KTRH CFRB	WIAM WWJ WBAI ABD WOO WIIO
9:15-9:45 Campbell's Orchestra	WOW WDAF WSB WAPI WSMB WJDX
WEAF WJAR WLIT -WTAG WCSH WRC	WENR WHAS 6:45-7:00 Literary Digest Topics
WDAF WBEN WCAE WHO WTAM WSAI	WIZ WDZ WDZA WHAM WRAI. KIIKA
KSD WOW WOC WWJ CKGW (WLS of	WRVA WPTF WJAX WIOD WLW WFLA
9:30)	WSUN
9:45-10:00 A. & P. Program WEAF WJAR WTAG WCSH WRC WGY	
WEAF WJAR WTAG WCSH WRC WGY WCAE WTAM WWJ WOC KSD WHO	7:00-7:15 Amos 'n' Andy WJZ WHAM KDKA WBZ WBZA WRC
WDAF WTMJ WEBC WRVA WPTF WIOD	CKGW WRVA WPTF WJAX WIOD WCKY
WFLA WSUN WHAS WSM WMC WSB	WFLA WSUN WLW WJR WGAR CFCF
WAPI WSMB WJDX KVOO WBAP KPRC	7:30-7:45 Phil Cook — Quaker Man
WOAI WKY WBEN WOW WFI KSTP	WJZ WBZ WBZA WHAM KDKA WREN
WIBO	KWK WTMJ WEBC KOA KSL KGO
11:15-11:30 Radio Household Institute	KECA KGW WRC KOMO KHQ KFSD
WEAF WJAR WTAG WCSH WLIT WRC	KTAR WGAR WSMB WSB WPTF WJAX WIOD WFLA WHAS WSM WMC WJDX
WHAS WSM WSB WCAE WWJ WSAI	
KFKX WTAM KSD WTMJ KSTP WEBC	
WAPI WSMB WOAI KTHS KVOO KPRC	8:00-8:15 Literary Digest Topics
WKY WEEI WGY WMC WBEN 12:00-12:30 Paul Tremaine and His Orchestra	WFBL WGR WJAS WADC WHK WGST WXYZ WSPD WREC WBRC WDSU WFBM
WARC WHEC WIRZ WORD WRO WCAIL	WGL WMAQ WCCO WMOX KMBC KOIL
WABC WHEC WLBZ WORC WPG WCAU WHP WJAS WLBW WMAL WCAO WTAR	KFJF WRR KTSA
WDBJ WHK WKRC WAIU WWNC WDOD	11:00-11:15 Amos 'n' Andy
WREC WLAC WBRC KSCJ WMT KMBC	WMAQ WREN KWK WDAF WTMJ WHAS
WDAY KOIL WIBW KFJF KLZ	WSM WSB WKY WENR KSTP WSMB
12.20 1.00 Columbia Payus	WIDY EARLS EDDO WERD WOAL WMC
WABC WLBZ WORC WPG WCAU WHP WJAS WLBW WMAL WCAO WTAR WXYZ WBCM WDOD WREC WLAC WBC KSCJ WMT KMBC WDAY WIBW KFJF KLZ	KOA KFAB WBAP
WJAS WLBW WMAL WCAO WTAR WXYZ	11:15-11:30 Arthur Pryor's Cremo Military Band
WBCM WDOD WREC WLAC WBRC KSCJ	11:15-11:30 Arthur Pryor's Cremo Military Band WADC WKBW WKRC WHK WOWO KMBC
WMT KMBC WDAY WIBW KFJF KLZ	WLBW KOIL WJAS KMOX WFBL WSPD
12:30-1:30 National Farm and Home Hour	WGST WBCM WBRC WDOD WRR KLZ
WJZ WHAM WJR KSTP WRVA WHAS WREN WFAA WEBC WIOD WAPI WOW	KOIN KOL KFPY WHP KTRH WFBM
WREN WFAA WEBC WIOD WAPI WOW WMC WSB WGAR KVOO WKY WOAI	KLRA WCCO WISN WREC WCAH WLAC
WRC WHO WDAF WJDX WBAL WSMB	WDSU KFJF KSCJ KTSA KDYL WIBW WMT KFH WKBN WNAX KOH WTAQ
KWK KOA WBZ WBZA WOC KTHS	WMT KFH WKBN WNAX KOH WTAQ
KWK KOA WBZ WBZA WOC KTHS WFLA WSUN WJAX KFAB KPRC KDKA WLW KFKX WPTF WSM	WLAP WOKO WACO
WLW KFKX WPTF WSM	C 1
1:30-2:00 Hotel Orchestra	Sunday
WABC WHEC WLBZ WEAN WPG WFAN	1:00-2:00 National Oratorio Society
WJAS WLBW WMAL WCAO WTAR WDBJ	WEAF WJAR WCSH WRC WGY WCAE
WKRC WAIU WWNC WXYZ WBCM WDOD	
WLAC WBRC	WDAF CKGW WTMJ KSTP WEBC WHAS

KPO WBEN  1:30-2:00 Arr WABC WJAS WKBN WKBN KMOX KMOX KMOX KMOX KMOX KMOX WPG WPG WPG WPG WPG WPG WPG WPG WYBJ WFLA WFLA WFLA WFLA WFLA WFLA WFLA WFLA	KOA	KGW	KFSD	комо	KECA		WGAR WJAX	WJR WIOD	WCKY	KYW WMC	KWK WSM	WREN WSMB
1:30-2:00 Ar	ound the	Samovar					WJDX	KVOO	WOAI	WKY	11 211	1101111
WABC	WFBL	WHEC	WDRC	WPG	WHP	7:15	-7:30 Rh	ythm Ch	oristers –	- Freddie	Rich	WITAG
WKBN	WWNC	WXYZ	WBCM	WDOD	WREC		WLBW	WMAL	WCAO	WTAR	WDBJ	WADC
WLAC	WBRC	WDSU	WTAQ	KSCJ	WMT		WAIU	WKBN	WWNC	WXYZ	WDOD	WBRC
KMOX KDVI.	KEPV	CERR	WOKO	KTSA	KLZ		KMBC	KLRA	KFH	KEJE	KELD	KTSA
2:00-3:00 Ca	thedral F	lour					KLZ	KFPY	KFRC	WOKO		
WABC	WHEC	WLBZ	WEAN	WNAC	WORC	7:30	-8:00 RC	A Victor	Program WTAG	WCSH	wwi	KPRC
WDBJ	WKRC	WWNC	WXYZ	WBCM	WDOD		WBEN	WRC	WGY	WCAE	WTAM	WSAI
WREC	WLAC	WBRC	WFBM	WMAQ	WBBM		KYW	WRVA	WIOD	WFLA	WSUN	WHAS
KFH	KEJE	KRLD	KTRH	KTSA	KLZ		WSMB	WJDX	KTHS	KVOO	WOAI	WKY
CFRB							KOA	KSL	KGO	KFI	KTAR	KFSD
2:30-3:00 Ye	ast Foam WRZ	WRZA	WRAT.	WGAR	W.IR	8-00	KGW -8:15 En	KUMU na Jettic	KHQ k Melodi	es		
wĭw	KDKA	KYW	KWK	WREN	KFAB	0.00	WJZ	WBZ	WBZA	WHAM	KWK	KYW
WTMJ	KSTP	WEBC	WRVA	WPTF	WIOD		WKY	WJR	WREN	WFAA	KPRC	WOAI
WSB	WAPI	WJAA	WSMB	KTHS	KVOO		KOA	WENR	WIOD	KTHS	WSMB	KOMO
WFAA	KPRC	WOAI	WKY	KOA	KSL		KFI	KGW	KSL	KHQ	WLW	WCKY
2.30-3.00 NE	KECA	KGW Service	KHQ Program	KTAR	KFSD		KESD	KTAR	WIDX	W FLA	KVOO	KHO
WEAF	wow	WWJ	KSD	WGY	WRC	8:00	-8:15 "E	evils, Dr	ugs and	Doctors"		ITILE
WCAE	CFCF	b Camb					WABC	WFBL	WHEC	WGR	WEAN	WDRC
WJZ	WBAL	KDKA	KWK	WREN	KFAB		WHK	WKRC	WGST	WXYZ	WSPD	WREC
WRVA	WJAX	WIOD	KVOO	WFAA	WOAI		WLAC	WBRC	WDSU	WISN	wowo	WFBM
W FLA KSTP	WERC	WMC	WSMB	KPRC	WKY		WIBW	WRR.	KTSA	KLZ	KDYL	KVI
KPO	комо	KHQ	WSB	WAPI	WGAR		KOL	KFPY	KOIN	KHJ	KFRC	75
WTMJ	KSL w York I	Philharma	nic Orch	ostra		8: <b>0</b> 0	-9:00 Ch WEAR	ase and S W.IAR	Sanborn ( WTAG	Choral Or WCSH	wrc.	wgy
WABC	WHEC	WLBZ	WEAN	WNAC	WORC		WCAE	WWJ	WSAI	KSD	WOW	WIOD
WCAU	WHP	WJAS	WLBW	WMAL	WCAO		WIBO	KSTP	WHO	WOC	WHAS	WLIT
WECM	WSPD	WDOD	WREC	WLAC	WBRC		KPRC	WOAI	WTMJ	WTAM	WJDX	WIOD
WFBM	WMAQ	WCCO	KSCJ	WMT	KMOX		WFLA	WSUN	WDAF	WTIC	KVOO	WBEN
KMBC	WDAY KTRH	KUL	KERC	KFH	K.FJF	8:15	-8:30 Pia WARC	no Pals WFRI	WHEC	WEAN	WDRC	WNAC
4:00-4:30 Wi	Iliams O	ilomatics					WORC	WHP	WJAS	WLBW	WMAL	WTAR
WJZ	WBZ	WBZA	KDKA	WJR WBAT.	WGAR		WDBJ	WADC	WKBN	WWNC	WXYZ	WDOD
4:00-5:00 Dr	. S. Park	es Cadma	n Krad	WDAL			WMT	KMBC	KLRA	KFJF	KLZ	KDYL
WEAF	WEEI	WJAR	WCSH	WTAG	KOA	0.15	KFPY	II: D	P. U			
WJDX	KVOO	KPRC	WEBC	WDAF	WWJ	0:13	WJZ	WBZ	WBZA	WHAM	KDKA	WJR
WFLA	WSUN	KHQ	WHO	WOC	KGO		WLW	KYW	KWK	WREN	KOA	KSL
WMC	WCAE	WEM	KTHS	WBAP	WSB	9:00	-9:15 "C	ur Gove	nment."	David La	wrence	
WSMB	WAPI	WBEN	WRVA	WIOD			WEAF	WTAG	WCSH	WEBC	WGY	WHAS
5:00-5:30 Re	v. Donak WFRI.	d Grey Ba WGR	wean	WDRC	WNAC		WSM	WKY	WOW	WEJC	WSMR	WMC
WCAU	WJAS	WMAL	WADC	WKRC	WXYZ		WIOD	WFLA	WSUN	WOC	WHO	WRC
WSPD	WOWO	. WMAQ	KOIL	KRLD	WRR	0.00	W W J	KVOO	WLIT	WBEN	WJAR	
WEAF	WJAR	WTAG	WCSH	WFI	WRC	5:00	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WGY	WCAE	WTAM	KSD	WSAI	WENR		WCAU	WJAS	WMAL	WCAO	WADC	WHK
WEEI	WWJ	WUW	WDAF	ONGW	# DEW		KMBC	KOIL	WSPD	WUWU	Maaw	KMUX
5:00-6:00 Na	tional Ve	spers	1731/77	WDDAY	WORN	9:15	-9:45 At	vater Ke	nt Progra	m		
WJZ	WERC	WHAM	WMC	KOMO	WULX		WEAF	WEEI	WRC.	WFI	WGY	WCAE
WPTF	KVOO	KPRC	WFLA	WSUN	KOA		WIAM	W W J	WOAI	WSMB	WUW KFI	W SM KGW
KTAR	KGO	KGW	KHQ	WSM	WKY		комо	KPO	KHQ	KPRC	WKY	WHAS
WGAR	(KFAR	w AP1 on 5:15)	(WIBO	on 5:30)	WDZA		WGN	WSB	WOC	WHO	WMC	WDAF
5:30-6:00 Sw	eetheart:	of the A	ir	WDD.C	TITAL C	9:30	-9:45 W	rld Adve	ntures w	ith Floyd	Gibbons	
WABC	WFBL	WKBW	WEAN	WARC	WKRC		WJZ	WBZ	WBZA	WHAM	KDKA	WJR
WXYZ	WSPD	wowo	WBBM	KMBC	KOIL	0-20	KWK	WREN	KYW	WCKY	WGAR	
6:00-7:00 Ca	tholic Ho	ur	W/D A C	WOOT	WDC	9:30	-10:00 G WABC	ranam-Pi WFBL	wkbw	WEAN	WDRC	WNAC
WEAF	WEEI	WERC	WIAG	WKY	WIDX		WCAŬ	WJAS	WMAL	WCAO	WADC	WHK
KGO	KSTP	wsмв	комо	KSD	KGW		WKRC	WBT WYY	WGST	WTOC	WAQW	WDBO
WCAE	KECA	KTAR	WFJC	WOC	WHO		WBBM	wcco	KMOX	KMBC	KOIL	KFJF
WDAF WSB	WBAP	KPRC	WOON	WRVA	WMC		KRLD	KTRH	KTSA	KLZ	KDYL	KOL
KVOO	WSAI	WSM	WFI	WIBO	WLIT		KFPY	KOIN	KHJ	KFRC		
7:00-7:30 We	estinghou	se Salute	WBAT	WHAM	KDKA	9:45	-10:15 lo Weaf	dent Clu WW.I	DOINGE	WENR	KSD	wow
WOC WEEI 5:00-6:00 Na WJZ KSTP WPTF KTAR WSB WGAN WFAN WANW WEAP WGAF WOAF WOAF WOAF WSB KVOO 7:00-7:30 WGJZ	WDZ	M DOW	# БИП	** 1111111	1121111		13111					•

		WJAR WGY		WCSH WEEI	7:1	5-7:30 T	wcky WRC	Jesters WHAM	WBZ	WBZA	WREN
10:00-10:30 Royai's P WABC WFBL WIAS WI.BW	Oet of the WKBW WMAT.	WEAN	WNAC WADC	WCAU WHK	7:4	KDKA 5-8:00 C	WRC areless Lo WCSH	WGAR ve — Ne	gro Skete	:h	WITTO
WKRC WGST WBBM KMOX	WXYZ KMBC	WSPD KOIL	WLAC KLZ	WOWO KDYL		WUW	VV P/P/L			woc	WHO
WABC WFBL WJAS WLBW WKRC WGST WBBM KMOX KOL KFPY 10:15-10:30 "Ganglan	KOIN d"	KHJ	KFRC	WENR		CAGW	wy's Gar WHAM WIBO	WGAR	WSB	WSM	KFAB
WJZ WHAM WDAY WBAL  10:15-10:45 National I WEAF WEEI WEI WPC	WJR Dairy Pro	WEBC	KFYR	KOA	8:0	0-8:15 "1 WEAF	How's Bu WJAX KOMO	wJAR	WRC	KSD	WCAE
44 T. T 44 T/C	WGI	META	WORE	WTAM		KVOO WEBC	KECA WSMB	WBAI KHQ KGW	WDAF WFLA KTAR	WJDX WSUN KFSD	KGO WHAS KSL
WWJ WSAI WSMB WJDX WSUN WHAS	WOW WRVA WSM	WJAX WMC	WSB	WAPI WFLA	8:1	WMC 5-8:30 Pe	ennzoil P	ete			
10:30-11:00 Kellogg S	lumber N	Music	TEDTE	TII YD		WEAF WRC	WEEL	WIIC	WJAR WTAM	WCSH	WLIT KYW
WJZ WBZ KWK WENR	WREN	WHAM WBAL	WLW	WJR		KSD	WOC	WHO	WHAS	WSM	WMC
10:45-11:00 The Roun	d Towne	ers with F	reddie R	ich		WSB	WDAF WIOD	WEBC WSMB	WRVA	WPTF WKY	WFLA KTHS
WABC WFBL WPG WCAU	WEAN WIAS	WDRC WLBW WKBN	WNAC WMAI	WORC		WFAA	WOAT	CKGW	WTMI	wwi	KSTP
WPG WCAU WTAR WDBJ	WADC	WKBN	WXYZ	WDOD	8:1	5-8:30 Ba	rbasol P	rogram			
WREC WLAC	WBRC	WDSU	WTAQ	WOWO		WABC	WIAS	WKBW	WEAN	WDRC	WNAC
WREC WLAC WFBM KSCJ KFJF KRLD	KTSA	KLZ	KFPY	CFRB		WKRC	w Shi wrbasol Pr WFBL WJAS WXYZ KMBC	WSPD	WISN	WFBM	wcco
WOKO					0.90	KMOX	KMBC	KOIL			
10:45-11:15 Sunday at WEAF WEEI WDAF CKGW WFJC WWJ	WCSH	WRC	WGY.	wow	0:50	WEAF	& P. Gy WEEI	WTAG	WJAR	WTIC	WCSH
WDAF CKGW	WTMJ	KSTP	WGY . WCAE	WTAM		WLIT	WRC	WGY	WCAE	ww.i	WSAT
WFJC WWJ WJAX WIOD	WHAS	WSM	WHO WJDX	WEBC KPRC		WGN WHO	KSD WBEN	WOC	WDAF	WTAM	wow
WKY KOA	KGO	KGW	WSB	KTAR	8:30	0-9:00 TI	ne Simmo	ns Hour			
KFSD WRVA 11:00-12:00 Back Hon	WBEN	WLIT				WABC WORC	$\mathbf{WFBL}$	WGR	WEAN	WDRC WLBW	WNAC WMAL
WABC WHEC	WLBZ	WPG	WHP	WMAL		WCAO	WPG WTAR	WCAU WDBJ	WJAS WADC	WHK	WKRC
$egin{array}{ccc} egin{array}{ccc} egin{array}{c} \egin{array}{c} egin{array}{c} \egin{array}{c} \egin{array}{c} ar$	WXYZ WFBM	WBCM WCCO	WSPD WMT	WDOD WDAY		WCAO WAIU WSPD	WWNC WREC	WBT	WGST WBRC	WXYZ WDSU	WBCM
WNAX WIBW	KFH	KFJF	KRLD	KTRH		WOMO	WFBM	WLAC WMAQ	WJJD	WCCO	WBCM WTAQ KSCJ
KTSA 11:30-12:00 Russian C	'athodral	Chair				WMT KFJF	WFBM KMOX WRR	KMBC KTRH	KOIL KLZ	WCCO WIBW KDYL	KFH KOL
11:30-12:00 Russian C	WFJC WGY	WWJ	WBAP	KOA		KFPY	KOIN	KHJ	KFRC	CFRB	KOL
$\begin{array}{cc} \text{WOW} & \text{WSB} \\ \text{WIOD} & \text{WHAS} \end{array}$	WGY	WTAM	KSTP	WEBC	8:30	0-9:00 G	ld Meda	l Express			WIOD
	Mone	dav				$egin{array}{c} WJZ \ WFLA \ WKY \end{array}$	WBZ WSUN KYW	WBZA WGAR KWK	KDKA WJR WREN	WLW	WIOD WOAI KSL
3:30-4:00 Sixteen Sing		•				KFAB	WRVA	WPTF	WBAL	HOA	ILOID
WEAF WRC	gers WOC WWJ	WHO	KSD	KSTP	9:00	0-9:30 M WJZ	aytag Oro WBZ	hestra WBZA	WHAM	KDKA	WJR
3:30-4:00 Chicago Serv WJZ WHAM						KWK	KYW	KSTP	WEBC	KTHS	WKY
WJZ WHAM WFLA WSUN	WJR	WLW WAPI	$_{ m WLS}$	KDKA WGAR		WOAI KHQ	KOA KOMO	KSL	KGO WLW	KECA WFAA	KGW KPRC
4:00-4:30 Dance Orche	estra		WJAA			WGAR	KUMU	KVUU	WLW	WFAA	Krnc
WJZ WBAL	KSTP WHAM	KTAR	KOA	KGO WSMB	9:00	9:30 Th	e Three	Bakers			
WMC WBZ	WRZA	WGAR	WSB KYW	MOMD		WABC WDRC	WFBL WNAC	WHEC WORC	WKBW WPG	WLBZ WCAU	WEAN WHP
4:15-4:30 U.S. Army B	land			WDO		WIAS	WLBW	WMAL	WCAO	WTAR.	WDBJ
WABC WLBZ WCAU WLBW	WEAN WMAL	WCAO	WTAR.	WPG WDBJ		WADC WTOC WSPD	WHK	WKRC	WWNC WDAE	WBT WXYZ	WGST WBCM
WAIU WWNC WREC WLAC KMOX KMBC	WXYZ	WBCM	WSPD	WDOD		WSPD	WĎOD	WDBO WREC	WI.AC	WRRC	WDSU
WREC WLAC	MRRW	MCCO	KEJF	WMT KRLD		WISN	wowo	WFBM	WMAQ	WCCO WDAY	KSCJ WNAX
				TIME							WNAA
KTRH KLZ	KOL	KFRC	CFRB			WMT KOIL	KMOX WIBW	KMBC KFH	KLRA KFJF	WRR	KTKH
KTRH KLZ 4:30-5:00 Wardman P:	KOL ark Hotel	KFRC I Orchest	CFRB	WPC		KOIL KTSA	KLZ	KFH	KLRA KFJF KOL	WRR KFPY	KTRH KOIN
KTRH KLZ 4:30-5:00 Wardman P:	KOL ark Hotel	KFRC I Orchest	CFRB	WPG WTAR		KOIL KTSA KHJ	WIBW KLZ KFRC	KFH KDYL	KFJF KOL	WRR	
KTRH KLZ  4:30-5:00 Wardman Pa WABC WLBZ WFAN WHP WDBJ WKRC	KOL ark Hote WEAN WLBW WAIU	KFRC I Orchest WNAC WMAL WWNC	CFRB ra WORC WCAO WXYZ	WTAR WBCM	9:30	KOIL KTSA KHJ -10:00 C	WIBW KLZ KFRC hesebrou	KFH KDYL øh <b>Real F</b>	KFJF KOL	WRR KFPY	KOIN
4:30-5:00 Wardman Pa WABC WLBZ WFAN WHP WDBJ WKRC WSPD WDOD	KOL ark Hotel WEAN WLBW WAIU WREC	KFRC I Orchest WNAC WMAL WWNC WLAC	CFRB	WTAR.	9:30	KOIL KTSA KHJ -10:00 C WJZ KWK	WIBW KLZ KFRC hesebrou WBZ KYW	KFH KDYL gh <b>Real F</b> WBZA CKGW	KFJF KOL Folks WHAM WJR	WRR KFPY KDKA WGAR	KOIN
4:30-5:00 Wardman P: WABC WLBZ WFAN WHP WDBJ WKRC WSPD WDOD KSCJ KMOX KFJF KRLD	KOL ark Hotel WEAN WLBW WAIU WREC	KFRC I Orchest WNAC WMAL WWNC WLAC	ra WORC WCAO WXYZ WBRC	WTAR WBCM WCCO	9:30	KOIL KTSA KHJ 0-10:00 C WJZ KWK 0-10:00 G	WIBW KLZ KFRC hesebrou WBZ KYW	KFH KDYL gh Real F WBZA CKGW lotors Fai	KFJF KOL Volks WHAM WJR nily Party	WRR KFPY KDKA WGAR	WLW
4:30-500 Wardman P. WABC WLBZ WFAN WHP WDBJ WKRC WSPD WDOD KSCJ KMOX KFJF KRLD KFRC CFRB	KOL ark Hote WEAN WLBW WAIU WREC KMBC KTRH	KFRC I Orchest WNAC WMAL WWNC WLAC WDAY KTSA	ra WORC WCAO WXYZ WBRC KOIL	WTAR WBCM WCCO WIBW	9:30	KOIL KTSA KHJ -10:00 C WJZ KWK -10:00 G WEAF WRC	WIBW KLZ KFRC hesebrou WBZ KYW eneral M WEEI WGY	KFH KDYL gh Real F WBZA CKGW otors Far WJAR WCAE	KFJF KOL Solks WHAM WJR nily Party WCSH	WRR KFPY KDKA WGAR	WLW WLIT WGN
4:30-5:00 Wardman P: WABC WLBZ WFAN WHP WDBJ WKRC WSPD WDOD KSCJ KMOX KFJF KRLD KFRC CFRB 6:15-6:45 Mormon Tal WJZ WBAL	KOL ark Hotel WEAN WLBW WAIU WREC KMBC KTRH bernacle	KFRC Orchest WNAC WMAL WWNC WLAC WDAY KTSA Choir KWK	WORC WCAO WXYZ WBRC KOIL KLZ	WTAR WBCM WCCO WIBW KOL	9:30	KOIL KTSA KHJ -10:00 C WJZ KWK -10:00 G WEAF WRC	WIBW KLZ KFRC hesebrou WBZ KYW eneral M WEEI WGY	KFH KDYL gh Real F WBZA CKGW otors Far WJAR WCAE	KFJF KOL Folks WHAM WJR mily Party WCSH WTAM WSAI	KDKA WGAR WTAG WWJ WDAF	WLW WLIT WGN KSTP
KTRH KLZ 4:30-5:00 Wardman P; WABC WLBZ WFAN WHP WDBJ WKRC WSPD WDOD KSCJ KMOX KFJF KRLD KFRC CFRB 6:15-6:45 Mormon Tal WJZ WBAL KGO KOMO	KOL ark Hotel WEAN WLBW WAIU WREC KMBC KTRH bernacle WSM KFAB	KFRC Orchest WNAC WMAL WWNC WLAC WDAY KTSA Choir KWK KGW	WORC WCAO WXYZ WBRC KOIL KLZ	WTAR WBCM WCCO WIBW KOL KSL KSTP	9:30	KOIL KTSA KHJ -10:00 C WJZ KWK -10:00 G WEAF WRC KSD WTMJ WJAX	WIBW KLZ KFRC hesebrou WBZ KYW eneral M WEEI WGY WOC WHAS WFAA	KFH KDYL gh Real F WBZA CKGW (otors Far WJAR WCAE WOW WSM WSM WOAI	KFJF KOL  Folks WHAM WJR nily Party WCSH WTAM WSAI WMC WMC WKY	WRR KFPY KDKA WGAR WTAG WWJ WDAF WSB KOA	WLW WLIT WGN KSTP KPRC KSL
4:30-5:00 Wardman P: WABC WLBZ WFAN WHP WDBJ WKRC WSPD WDOD KSCJ KMOX KFJF KRLD KFRC CFRB 6:15-6:45 Mormon Tal WJZ WBAL KGO KOMO KTAR KPO WSMB	KOL ark Hotel WEAN WLBW WAIU WREC KMBC KTRH  bernacle WSM KFAB WHAS	NFRC Orchest WNAC WMAL WWNC WLAC WDAY KTSA Choir KWK KGW WAPI	WORC WCAO WXYZ WBRC KOIL KLZ	WTAR WBCM WCCO WIBW KOL	9:30	KOIL KTSA KHJ -10:00 C WJZ KWK -10:00 G WEAF WRC KSD WTMJ WJAX KGO	WIBW KLZ KFRC hesebrou WBZ KYW seneral M WEEI WGY WOC WHAS WFAA KGW	KFH KDYL gh Real F WBZA CKGW (otors Far WJAR WCAE WOW WSM WOAI KFI	KFJF KOL WHAM WJR nily Party WCSH WTAM WSAI WMC	WRR KFPY KDKA WGAR WTAG WWJ WDAF WSB KOA	WLW WLIT WGN KSTP KPRC
KTRH KLZ 4:30-5:00 Wardman P: WABC WLBZ WFAN WHP WDBJ WKRC WSPD WDOD KSCJ KMOX KFIF KRLD KFRC CFRB 6:15-6:45 Mormon Tal WJZ WBAL KGO KOMO KTAR KPO WSMB 7:00-7:15 Currant From	KOL ark Hotel WEAN WLBW WAIU WREC KMBC KTRH bernacle WSM KFAB WHAS	KFRC I Orchest WNAC WMAL WWNC WLAC WDAY KTSA Choir KWK KGW WAPI	WORC WCAO WXYZ WBRC KOIL KLZ KOA CKGW KFSD	WTAR WBCM WCCO WIBW KOL KSL KSTP WRC	9:30 9:30	KOIL KTSA KHJ 0-10:00 C WJC KWK 1-10:00 G WEAF WRC KSD WTMJ WJAX KGO WHO	WIBW KLZ KFRC hesebrou WBZ KYW seneral M WEEI WGY WOC WHAS WFAA KGW WBEN	KFH KDYL gh Real F WBZA CKGW (otors Far WJAR WCAE WOW WSM WSM WOAI	KFJF KOL  Folks WHAM WJR nily Party WCSH WTAM WSAI WMC WMC WKY	WRR KFPY KDKA WGAR WTAG WWJ WDAF WSB KOA	WLW WLIT WGN KSTP KPRC KSL
KTRH KLZ 4:30-5:00 Wardman P; WABC WLBZ WFAN WHP WDBJ WKRC WSPD WDOD KSCJ KMOX KFJF KRLD KFRC CFRB 6:15-6:45 Mormon Tal WJZ WBAL KGO KOMO KTAR KPO WSMB 7:00-7:15 Current Evel WDBJ WKRC WBBJ WKRC WBBJ KSCJ	KOL  ark Hotel  WEAN  WLABW  WAIU  WREC  KMBC  KTRH  bernacle  WSM  KFAB  WHAS  onts—Kal  WWNC	KFRC I Orchest WNAC WMAL WWNC WLAC WDAY KTSA Choir KWK KGW WAPI (tenborn WXYZ	WORC WCAO WXYZ WBRC KOIL KLZ KOA CKGW KFSD WBCM KOIL	WTAR WBCM WCCO WIBW KOL  KSL KSTP WRC  WDOD WABC	9:30 9:30	KOIL KTSA KHJ I-10:00 C WJZ KWK I-10:00 G WEAF WRC KSD WTMJ WJAX KGO WHO I-10:00 B WABC	WIBW KLZ KFRC hesebrou WBZ KYW eneral M WEEI WGY WHAS WFAA KGW WBEN WFBL	KFH KDYL gh Real F WBZA CKGW (otors Far WJAR WCAE WOW WSM WOAI KFI WCAE	KFJF KOL  Folks  WHAM  WJR  mily Party  WCSH  WTAM  WSAI  WMC  WKY  KOMO  WEAN	WRR KFPY  KDKA WGAR  WTAG WWJ WDAF WSB KOA KHQ	WLW WLIT WGN KSTP KPRC KSL WTIC
KTRH KLZ 4:30-5:00 Wardman P; WABC WLBZ WFAN WHP WDBJ WKRC WSPD WDOD KSCJ KMOX KFJF KRLD KFRC CFRB 6:15-6:45 Mormon Tal WJZ WBAL KGO KOMO KTAR KPO WSMB 7:00-7:15 Current Evel WDBJ WKRC WBBJ WKRC WBBJ KSCJ	KOL  ark Hotel  WEAN  WLABW  WAIU  WREC  KMBC  KTRH  bernacle  WSM  KFAB  WHAS  onts—Kal  WWNC	KFRC I Orchest WNAC WMAL WWNC WLAC WDAY KTSA Choir KWK KGW WAPI (tenborn WXYZ	WORC WCAO WXYZ WBRC KOIL KLZ KOA CKGW KFSD WBCM KOIL	WTAR WBCM WCCO WIBW KOL KSL KSTP WRC	9:30 9:30 9:30	KOIL KTSA KHJ I-10:00 C WJZ KWK I-10:00 G WEAF WRC KSD WTMJ WJAX KGO WHO I-10:00 B WABC WJAS	WIBW KLZ KFRC hesebrou WBZ KYW deneral M WEEI WGY WOC WHAS WFAA KGW WBEN ourjois WFBU	KFH KDYL  gh Real F WBZA CKGW (otors Far WJAR WCAE WOW WSM WOAI KFI WCAE WKBW	KFJF KOL  Folks  WHAM  WJR  mily Party  WCSH  WTAM  WSAI  WMC  WKY  KOMO  WEAN	WRR KFPY  KDKA WGAR  WTAG WWJ WDAF WSB KOA KHQ	WLW WLIT WGN KSTP KPRC KSL WTIC
KTRH KLZ 4:30-5:00 Wardman P; WABC WLBZ WFAN WHP WDBJ WKRC WSPD WDOD KSCJ KMOX KFJF KRLD KFRC CFRB 6:15-6:45 Mormen Tal WJZ WBAL KGO KOMO KTAR KPO WSMB 7:00-7:15 Current Ever WDBJ WKRC WBRC KSCJ WHEC WLBZ WMAL WCAO	KOL  ark Hotel  WEAN  WLABW  WAIU  WREC  KMBC  KTRH  bernacle  WSM  KFAB  WHAS  onts—Kal  WWNC	KFRC I Orchest WNAC WMAL WWNC WLAC WDAY KTSA Choir KWK KGW WAPI Itenborn WXYZ	WORC WCAO WXYZ WBRC KOIL KLZ KOA CKGW KFSD WBCM KOIL	WTAR WBCM WCCO WIBW KOL  KSL KSTP WRC  WDOD WABC	9:30 9:30 9:30	KOIL KTSA KHJ I-10:00 C WJZ KWK I-10:00 G WEAF WRC KSD WTMJ WJAX KGO WHO I-10:00 B WABC WJAS	WIBW KLZ KFRC hesebrou WBZ KYW eneral M WEEI WGY WHAS WFAA KGW WBEN WFBL	KFH KDYL  gh Real F WBZA CKGW (otors Far WJAR WCAE WOW WSM WOAI KFI WCAE WKBW	KFJF KOL  Folks  WHAM  WJR  mily Party  WCSH  WTAM  WSAI  WMC  WKY  KOMO  WEAN	KDKA WGAR WTAG WWJ WDAF WSB KOA KHQ	WLW WLIT WGN KSTP KPRC KSL WTIC

10:00-10:30	Robert B	urns Pan	atela Pro	gram		7:30-7:45 W	inegar's	Barn Orc	hestra		
WABC	WFBL	WKBW	WEAN	WDRC	WNAC WHK WMAQ KRLD KOL	WDRC	WORC WKBN WBRC	WHP	WJAS	WLBW	
WKRC	WXVZ	WMAL	WOWO	WADU	WHK	WAIU	WEBN	WWNU	WXYZ	WDOD	WREC
WCCO	KMOX	KMBC	KOIL	KEJE	KRLD	KSCJ	WMT	KLRA	KEH	WTAQ KDYL	WGL
KTRH	KTSA	KLZ	KDYL	KVĬ	KOL	KFRC	CFRB	111/11/11	121.11	иртп	MPI 1
						7:30-8:00 S	oconyland	Sketche	8		
10:00-10:30	Stromber	g-Carlson	n Progran	n TZTDTZ 4	7737777	7:30-8:00 S WEAF	WÉEI	WJAR	WTAG	WCSH	WGY
WJZ KWK	WBZ	WBZA WEBC	WHAM WRVA	WILV	KYW WIOD	WBEN					
	WSM	WMC	WSB	WSMB	WOAI	8:00-8:30 P	aul White	man's Pa	int Men	TTD *** 4	*******
KOA	KPRC	KGO	KFI	WCKY	KGW	$\begin{array}{c} \mathrm{WJZ} \\ \mathrm{WJR} \end{array}$	$_{ m WBZ}$	WBZA	WHAM KWK	KDKA	WTMJ
KHQ	KOMO	KGO WJDX	WFLA	WSUN	ŴĴŔ	WIAX	KGW	KOMO	KHU	KFSD	WRVA KTAR
KTAR	KFSD	WAPI	WKY	WGAR		WJAX WGAR	WGY	KOMO KOA	doi.m	WHAS	WSM
10:00-10:30	Adventur	es of She	rlock Ho	lmes	TITLE I	WMC	WSB	MIDY	Meme	WOAI	KFAB
WEAF WLIT	WJAK	WUSH	WWJ	WTAG		KGO	KECA	WBAL	WPTF		
WHO	WREN	WCSH WSAI WCAE	WAC	WGN	WOC	8:00-8:30 B	ackstone	Plantatio	n		
10:30-11:00	Empire B	uilders				WEAF	WCAE	WTAM	WWJ	WSAI	WIBO
WJZ	WBZ	WBZA KWK	WHAM	KDKA	WJR	KSD WEEI	$_{ m WOC}$	WHO	WOW WCSH	WDAF WFI	KOA
WLW	KYW	KWK	WREN	WTMJ	WOAI	WGY	WBEN	WIAG	WCSH	WFI	WRC
KSTP	WEBC	KOA	KSL	KGO	KECA			d	D It		
KGW	KOMO KPRC	KHQ	KTAR	KFSD	WKY	8:15-8:30 O WARC	WERT.	WHEC	weadings	WLBZ	WEAN
WBAP	Sumakan	WGĂR	M.L	_		WDRC	WFBL WNAC	WORC	WPG	WCAU	WHP
10:30-11:00 WEAF WWJ	WJAR	WTAG	WRC	WCAE	WTAM	WJAS WKRC	WLBW	WCAO	WTAR	WDBJ	WADC
WWJ	WJDX	WGY	CFCF	WEEI	WENR	WKRC	WAIU	WKBN	WTAR WWNC	WBT	WGST
10:30-11:00	Sarina T	ana Diata				WTOC	WQAM	WDBO	WDAE	$\mathbf{W}\mathbf{X}\mathbf{Y}\mathbf{Z}$	WBCM
WABC	$\mathbf{W}\mathbf{FBL}$	WEAN	WDRC	WNAC	WORC WDBJ WREC	WSPD	MDOD	WREC	WLAC	WBRC	WDSU
WJAS	WLBW	WMAL	WCAO	WTAR	WDBJ	MISN	WJJD KLRA	WCCO WDAY	KSCJ WNAX	WMT	KMOX
WADC	WHK	WWNC	WBCM	WDOD	WREC	KFH	KFJF	WRR	KTRH	KTSA	WIBW KLZ
KLRA	WNAX	WTAQ KFJF	KTSV	WMT KFPY	KMBC CFRB	KDŸL	KVI	KOL	KFPY	KOIN	KHJ
WOKO						KFRC					
11:00-11:15 WABC	Morton I	Oowney –	- Leon Bo	elas <b>c</b> o's (	Orchestra	8:30-9:00 F	orsheim I	rolic			
WABC	WKBW	WGR	WEAN	WDRC	WNAC	WEAF	WTAG	WFI	WRC	WGY_	WCAE
WORC	WPG	WCAU	MTRM	WCAO	WTAR	WWJ	WSAI	WGN	KSD	WDAF	WEBC
WDBJ WSPD	WHK	WKBN	WBT	WXYZ	WBCM	WKVA	KVOO WMC	WJAX WSB	WIOD WSMB	WSUN	WFLA KPRC
WCCO	KSCI	KMOX	WBRC KLRA	MDVA	WFBM KOIL	· WOAI	WKY	KOA	KSL	WJDX KTHS	WJAR
WIBW	KFH	KFJF	KTRH	KLZ	KOL	WHAS	WCSH	WRAP	WREN	KSTP	
KFPY	CFRB					8:45-9:00 L	e Morse	Nat B	usiloff's	Orchestra	1
11:00-11:30	Gla-a-a	Dieborde									
377 TO A TO	Trorence	WOW	on and U	rcnestra	/TUIDT	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WEAF	WCAE	WOW	(WSAI o	off 11:15)	(WJDX	WABC WCAU	WFBL WJAS	WKBW WMAL	WEAN	WDRC	WNAC WHK
11:00-11:30   WEAF WMC WIOD					(WJDX CFCF	WABC WCAU WKRC WXYZ	WFBL WJAS WGST WSPD	WKBW WMAL WTOC	WEAN WCAO WQAM WDSII	WDRC WADC WDBO WOWO	WNAC WHK WDAE
WIOD						8:45-9:00 Lo WABC WCAU WKRC WXYZ WCCO	WFBL WJAS WGST WSPD KMOX	WKBW WMAL WTOC WLAC KMBC	WEAN WCAO WQAM WDSU KOII,	WDRC WADC WDBO WOWO KTRH	WNAC WHK WDAE WMAQ KLZ
WIOD					wow	KDYL	WFBL WJAS WGST WSPD KMOX KVI	WKBW WMAL WTOC WLAC KMBC KOL	WEAN WCAO WQAM WDSU KOIL KFPY	WDRC WADC WDBO WOWO KTRH KOIN	WNAC WHK WDAE WMAQ KLZ KHJ
WEAF WMC WIOD 11:30-12:00 WEAF WDAF	Henry Bu WWJ KSTP	isse and KSD WEBC	his Orche WOC KOA		wow	KDYL KFRC	KWOX	KOL	KFPY	KOIN	KLZ
WIOD 11:30-12:00 WEAF WDAF	Henry Bu WWJ KSTP	KSD WEBC Tues	his Orche WOC KOA <b>day</b>	estra WHO WTAM	wow	WCCO KDYL KFRC 9:00-9:30 H	KMOX KVI ousehold	KMBC KOL Celebritie	KOIL KFPY s Progra	KTRH KOIN	KLZ KHJ
WIOD 11:30-12:00 WEAF WDAF	Henry Bu WWJ KSTP	KSD WEBC Tues	his Orche WOC KOA <b>day</b>	estra WHO WTAM	wow	WCCO KDYL KFRC 9:00-9:30 H WJZ	KMOX KVI ousehold WBZ	KMBC KOL Celebritie WBZA	KOIL KFPY es Progra WBAL	KTRH KOIN	KLZ KHJ
WIOD 11:30-12:00 WEAF WDAF 10:15-10:30	Henry Bu WWJ KSTP Through	KSD WEBC Tues	his Orche WOC KOA <b>day</b> ing Glass	wHO WTAM	WOW WREN	WCCO KDYL KFRC 9:00-9:30 H WJZ WGN	KMOX KVI ousehold WBZ KWK	KMBC KOL Celebritie WBZA WREN	KOIL KFPY es Progra WBAL WJR	KTRH KOIN m WHAM	KLZ KHJ
WIOD 11:30-12:00 WEAF WDAF 10:15-10:30 WJZ KFKX	Henry Bu WWJ KSTP Through WBZ KDKA	Isse and KSD WEBC Tues the Looki WBZA KWK	his Orche WOC KOA <b>day</b> ing Glass WHAM CKGW	wHO WTAM	WOW WREN	WCCO KDYL KFRC 9:00-9:30 H WJZ WGN 9:00-9:30 M	KMOX KVI ousehold WBZ KWK kKesson	KMBC KOL Celebritie WBZA WREN Musical I	KOIL KFPY es Progra WBAL WJR	KTRH KOIN m WHAM	KLZ KHJ KDKA
11:30-12:00 WEAF WDAF 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 Go	Henry Bu WWJ KSTP Through WBZ KDKA WOAI	KSD WEBC Tues the Look WBZA KWK WBAP	his Orche WOC KOA day ing Glass WHAM CKGW WGAR	wHO WTAM WTAM WLW KFAB	WOW WREN	WCCO KDYL KFRC 9:00-9:30 H WJZ WGN 9:00-9:30 M WEAF WRC	KMOX KVI ousehold WBZ KWK cKesson WEEI WBEN	Celebritie WBZA WREN Musical I WJAR WTAM	KOIL KFPY  es Progra WBAL WJR  Magazine WTAG WSAI	KTRH KOIN M WHAM WCSH KSD	KLZ KHJ KDKA WFI WOW
11:30-12:00 WEAF WDAF 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 Go	Henry Bu WWJ KSTP Through WBZ KDKA WOAI	KSD WEBC Tues the Look WBZA KWK WBAP	his Orche WOC KOA day ing Glass WHAM CKGW WGAR	wHO WTAM WTAM WLW KFAB	WOW WREN	WCGO KDYL KFRC 9:00-9:30 H WJZ WGN 9:00-9:30 M WEAF WRC WTMJ	ousehold WBZ KWK CKesson WEEI WBEN WEBC	Celebritie WBZA WREN Musical I WJAR WTAM WRVA	KOIL KFPY  Ses Progra WBAL WJR  Magazine WTAG WSAI WIOD	METRH KOIN WHAM WCSH KSD WFLA	KLZ KHJ KDKA WFI WOW WSUN
11:30-12:00 WEAF WDAF 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 Go WEAF KSD	Henry Bu WWJ KSTP Through WBZ KDKA WOAI	KSD WEBC Tues the Look WBZA KWK WBAP	his Orche WOC KOA <b>day</b> ing Glass WHAM CKGW	wHO WTAM WTAM WLW KFAB	WOW WREN	WCCO KDYL KFRC 9:00-9:30 H WJZ WGN 9:00-9:30 M WEAF WRC WTMJ WSM	ousehold WBZ KWK CKesson WEEI WBEN WEBC	KMBC KOL Celebritie WBZA WREN Musical I WJAR WTAM WRVA WSB	KOIL KFPY  Ses Progra WBAL WJR  Magazine WTAG WSAI WIOD WSMB	WCSH KSD WFLA WJDX	KLZ KHJ KDKA WFI WOW WSUN KPRC
11:30-12:00 WEAF WDAF 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 Go WEAF KSD CKGW	Henry Bu WWJ KSTP Through WBZ KDKA WOAI Iden Ger WEEI WFLA	KSD WEBC Tues the Look WBZA KWK WBAP "S WTIC WSUN	his Orche WOC KOA day ing Glass WHAM CKGW WGAR	wHO WTAM WTAM WLW KFAB	WOW WREN	WCGO KDYL KFRC 9:00-9:30 H WJZ WGN 9:00-9:30 M WEAF WRC WTMJ WSM WKY	ousehold WBC KWK (cKesson WEEI WBEN WEBC WMC KOA	KMBC KOL Celebritie WBZA WREN Musical I WJAR WTAM WRVA WSB KSL	KOIL KFPY  s Progra WBAL WJR  Magazine WTAG WSAI WIOD WSMB KGO	WCSH KSD WFLA WJDX KECA	KLZ KHJ KDKA WFI WOW WSUN KPRC KTAR
11:30-12:00 WEAF WDAF 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 Go WEAF KSD CKGW	Henry Bu WWJ KSTP Through WBZ KDKA WOAI Iden Ger WEEI WFLA	KSD WEBC Tues the Look WBZA KWK WBAP "S WTIC WSUN	his Orche WOC KOA  day ing Glass WHAM CKGW WGAR WTAG KSTP	WHO WTAM WLW KFAB WTAM WOC	WOW WREN WKY WFJC WHO	WCGO KDYL KFRC 9:00-9:30 M WGN 9:00-9:30 M WEAF WRC WTMJ WSM WKY KFSD	KMOX KVI ousehold WBZ KWK (cKesson WEEI WBEN WEBC WMC KOA KGW	KMBC KOL Celebritie WBZA WREN Musical I WJAR WTAM WRVA WSB KSL KOMO	KOIL KFPY  s Progra WBAL WJR  Magazine WTAG WSAI WIOD WSMB KGO	WCSH KSD WFLA WJDX	KLZ KHJ KDKA WFI WOW WSUN KPRC
11:30-12:00 WEAF WDAF 10:15-10:30 'WJZ KFKX KVOO 3:30-4:00 Go WEAF KSD CKGW 4:00-5:00 PA WJZ	Henry Bu WWJ KSTP Through WBZ KDKA WOAI Iden Ger WEEI WFLA cific Vaga WHAM	SSE AND KSD WEBC Tues the Look: WBZA KWK WBAP NS WTIC WSUN Abonds WJR	his Orche WOC KOA day ing Glass WHAM CKGW WGAR WTAG KSTP	WHO WTAM WLW KFAB WTAM WOC	WREN WKY WFJC WHO	WCGO KDYL KFRC 9:00-9:30 M WGN 9:00-9:30 M WEAF WRC WTMJ WSM WKY KFSD	KMOX KVI ousehold WBZ KWK (cKesson WEEI WBEN WEBC WMC KOA KGW	KMBC KOL Celebritie WBZA WREN Musical I WJAR WTAM WRVA WSB KSL KOMO	KOIL KFPY  s Progra WBAL WJR  Magazine WTAG WSAI WIOD WSMB KGO	WCSH KSD WFLA WJDX KECA	KLZ KHJ KDKA WFI WOW WSUN KPRC KTAR
11:30-12:00 WEAF WDAF 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 Go WEAF KSD OKGW 4:00-5:00 Pa WJZ KWK	Henry Bu WWJ KSTP  Through WBZ KDKA WOAI Idden Ger WEEI WFLA cific Vage WHAM KFAB	ASSE AND KESD WEBC Tues the Look WBZA KWK WBAP NS WTIC WSUN Abonds WJR WREN	his Orche WOC KOA day ing Glass WHAM CKGW WGAR WTAG KSTP WGAR WCAR	WLW KFAB WTAM WLW WFAB	WREN WKY WFJC WHO WLS WSM	WCCC KDYL KFRC 9:00-9:30 M WJZ WGN 9:00-9:30 M WEAF WRC WTMJ WSM WKY KFSD (XYW)	ousehold WBZ KWK (cKesson WEEI WBEN WEBC WMC KOA KGW	KMBC KOL  Celebritie WBZA WREN  Musical I WJAR WTAM WRVA WSB KSL KOMO	KOIL KFPY  S Progra WBAL WJR  Magazine WTAG WSAI WIOD WSMB KGO KHQ	WCSH KSD WFLA WJDX KECA KVOO	KLZ KHJ KDKA WFI WOW WSUN KPRC KTAR WOAI
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11:30-12:00 WEAF WDAF WDAF  10:15-10:30 WJZ KFKX KVOO 3:30-4:00 Go KSD CKGW 4:00-5:00 Pa WJZ KWK WMC KFSD WJZ KWK WMC KFSD WAU WKRC WCAU WKRC WREC WREC WREC WREC WREC WREC WREC WR	Henry Bu WWJ KSTP  Through WBZ KDKA WOAI Iden Ger WEEI WFLA WHAM KFAB WAPI KTAR lian Idyll WLBZ WLBW WAIU WLAC KMAY WAS WAS WHAM WHAC KMOX KTSA WHS	WEAN WEAN WEAN WEAN WEAN WEAN WEAN WEAN	his Orche WOC KOA day ing Glass WHAM CKGW WGAR WTAG KSTP  WGAR WRC KSTP  WNAC WCAO WXYZ WBBM WDAY WFRC Name?"	WLW WJAX KOA  WORC WTAR WSPD WCCO KOIL CFRB  KOA WOCX WIDX	WREN WKY WFJC WHO WLS WSM KGO WPG WDBJ WDODD KSCJ KFJF KSD WHO KPRC	WCCU KDYL KFRC 9:00-9:30 M WZ WGN WEAF WRC WTMJ WSM WKY KFSD KYW 9:00-9:30 H WABC WABC WABC WABC WABC WABC WABC WADC WADC WADC WADC WADC WOOD KMBC KTSA 9:30-10:00 T WHAM	KMOX KVI  ousehold WBZ KWK (cKesson WEEI WBEN WEBC WMC KOA KGW  enry-Geo WFBL WJAS WXYZ WCCO The Philic WFBL WCAU WFBL WHK WREC WFBL WCAU WFBL WHAL KDKA	KMBC KOL  Celebritic WBZA WREN Musical I WJAR WTAM WRVA WSB KSL KOMO  GE WGR WMAL WSPD KMOX Sympho WHEC WJAS SYMPA WKRC WLAC WLAC WLAC WMAQ KFH  L WCKY WCKY WENR	KOIL KFPY SS Progra WBAL WJR Magazine WTAG WSAI WIOD WSMB KGO KHQ WEAN WCAO WISN KMBC NY Conce WKBW WMAL WGST WBRC WKFJF KWK	WCSH KSD WFLA KYOO  WDRC WADC WADC WOWO KOIL  WEAN WCAO WXYZ WDSU WMT	KLZ KHJ KDKA WFI WOW WSUN KPRC KTAR WOAI WNAC WHK WFBM KFH WDRC WTAR WSPD WISN KMOX
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10:15-10:30 WEAF WDAF  10:15-10:30 WEAF KYOO 3:30-4:00 Go KSD CKGW WEAF KSD CKGW WJZ KWK WMC KFSD 4:15-4:30 Ita WABC WCAU WKRC WREC WREC WREC WREC WREC WREC WREC WR	Henry Bu WWJ KSTP  Through WBZ KDKA WOAI Iden Ger WEEI WFLA WHAM KFAB WAPI KTAR Ilian Idyll WLBZ WLBW WAIU WLAC KMOX KTSA Who's Bel WGR WGR WGR WTAR KET'S SET	week week week week week week week week	his Orche WOC KOA day ing Glass WHAM CKGW WGAR WTAG KSTP  WGAR WRC KSTP  WNAC WCAO WXYZ WBBM WDAY KFRC Name?" WCAB KOMO WTAM Washing WCAU WXYZ WACO	WLW WJAX KOA WORC WTAR WSPD WCOL CFRB WOAW WJAS WSPD KOH	WOW  WREN WKY  WFJC WHO  WLS WSM KGO  WPG WDBJ WDOD KSCJ KFJF  KSD WHO KPRC WLBW WDOD KFRC	WCCU KDYL KFRO WJZ WGN WEAF WRC WTMJ WSM WKY KFSD KYW 9:00-9:30 H WABC WCAU WKRC WBBM 9:30-10:00 T WABC WDOD WOWO KMBC KTSA 9:30-10:00 T WHAM 9:30-10:00 T WHAM 9:30-10:00 T WHAM WGY	KMUX KVI  OUSEhold WBZ KWK  (CKESSON WEELI WBEN WEBC WMC KOA KGW  COWFBL WJAS WXYZ WJAS WXYZ WJAS WXYZ WJAS WXYZ WJAS WYJAS	KMBC KOL Celebritic WBZA WREN MUSical I WJAR WTAM WRVA WSB KSL KOMO GE WGR WGR WMALL WSPD KSL Sympho WHEC WLAC WLAC WLAC WHAC WLAC WHAC WHAC WHAC WHAC WHAC WHAC WHAC WH	KOIL KFPY SS Progra WBAL WJR Magazine WTAG WSAI WIOD WSMB KGO KHQ WEAN WCAO WISN KMBC MYCAO WISN KMBC WKBW WCAO WISN KBW WCAO WISN KBW WFAF WFAF WHAG	WCSH WEAN WCSU WFLA WJDX KECA KVOO WDRC WADC WADC WADC WADC WADC WADC WADC WAD	KLZ KHJ KDKA WFI WOW WSUN KPRC KTAR WOAI WNAC WHK WFBM KFH WDRC WTAR WSPD WISN KMOX KTRH
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10:00-10:15 Graybar — Mr. and Mrs.	7:15-7:30 Science Speaks
10:00-10:15 Graybar — Mr. and Mrs. WADC WCAO WNAC WKBW WBBM WKRC	7:15-7:30 Science Speaks WEAF KFI KPO KGO WFI KOMO KTAR KFSD WJAR WENR
WADC WCAO WNAC WKBW WBBM WKRC WHK WXYZ WOWO KMBC WABC WLBW KOIL WCAU WJAS WEAN KMOX WFBL WSPD WMAL WWNC WSST WBRC KRLD KLZ KTRH WFBM WLRA WCCO WISN WREC WTAR WLAC WDSU KFJF WHEC WDBJ KTSA KDYL KFH WKBN KHJ KOIN KFRC KOL KFPY	KTAR KFSD WJAR WENR
WSPD WMAL WWNC WGST WBRC KRLD	WARC WERL WHEC WGR WEAN WDRC
KLZ KTRH WFBM WLRA WCCO WISN	WNAC WCAU WCAO WDBJ WTAR WADC
WDBJ KTSA KDYL KFH WKBN KHJ KOIN KFRC KOL KFPY	WHK WKRC WAIU WWNC WGST WXYZ
	7:30-7:45 Evangeline Adams, Astrologer WABC WFBL WHEC WGR WEAN WDRC WNAC WCAU WCAO WDBJ WTAR WADC WHK WKRC WAIU WWNC WGST WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WGL WCCO KMOX KMBC KLRA KOIL KEJF WRR KTRH CFBR
10:00-11:00 Lucky Strike Dance Orchestra WEAF WEEI WJAR WTAG WCSH WFI	KLRA KOIL KFJF WRR KTRH CFRB
WEAE WEEL WAR WIAG WOSH WIT WRO WCAE WWJ WSAI KSD WOC	KLRA KOIL KFJF WRR KTRH CFRB 7:45-8:00 "Back in the News in Washington" WEAF WRC KOA KECA KGO WGY WCAE WFJC WBEN WRVA WKY KOMO
WHO WTMJ WEBC WRVA WJAX WIOD	WEAF WRC KOA KECA KGO WGY WCAE WFJC WBEN WRVA WKY KOMO KFSD WSAI WIBO KSD WOC WHO
WHO WTMJ WEBC WRVA WJAX WIOD WFLA WSUN WHAS WSM WMC WSB WSMB WJDX WOAI WKY KOA KGO	KFSD WSAI WIBO KSD WOC WHO
KECA KGW KHQ KOMO KTAR KFSD	WOW WDAF WAPI
WFLA WSUN WHAS WSM WMC WSB WSMB WJDX WOAI WKY KOA KGO KECA KGW KHQ KOMO KTAR KFSD WIBO WDAF WTAM WAPI WBEN  10:15-10:30 Blue Ribbon Malt Jester WABC WFFL WGR WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKPU WJAS WMAL WGDD WJAC WHRC	WISH   WISH
WABC WFBL WGR WEAN WDRC WNAC	WABC WFBL WKBW WEAN WNAC WCAU WJAS WLBW WMAL WCAO WADC WKRC WXYZ WSPD WREC WISN WFBM WGL WMAQ WCCO KMOX KOIL WRHM
WCAU WJAS WMAL WCAO WADC WHK	WXYZ WSPD WREC WISN WFBM WGL
WERC WET WAYZ WSPD WLAC WERC WDSU WOWO WMAO WCCO KMRC KLRA	8:00-8:15 Listerine Program—Bebby Jenes
KOIL KFH KRLD KTSA KLZ	WEAF WEEL WTIC WJAR WTAG WCSH
10:30-10:45 Clara, Lu and Em WJZ WBAL WHAM KDKA WJR WLW KWK WREN WGAR WBZ WBZA WGN	WLIT WRC WBEN WTAM WWJ WSAI
KWK WREN WGAR WBZ WBZA WGN	WFLA WSUN WHAS WSM WSB WSMB
10:30-11:00 Paramount Publix Playhouse	WJDX WFAA WOAI KOA
10:30-11:00 Paramount Publix Playhouse WABC WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WIAS WMAL WCAO WTAR WDBJ WADC WHK WKRC WKBN WWNC WBT WGST WTOC WAAM WDBD WD WYZ WYZ WYD WD W W W W W W W W W W W W W W W W	8:15-8:30 Radiotron Varieties WEAR WITH WIAD WITH WORLD
WMAL WCAO WTAR WDBJ WADC WHK	WTAM WSAI WIBO KSD WOW WIOD
WKRC WKBN WWNC WBT WGST WTOC	WSM WSB WSMB WJDX WOAI KOA
WDOD WREC WLAC WRRC WBSH WSPD	KHQ KOMO KFSD KTAR KECA KSL KGO KOA KVOO
WARC WABN WNC WBT WGST WTOC WQAM WDBO WDAE WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WOWO WFBM WBBM WCCO KSCJ WMT KMOX KLRA WDAY WNAX KOIL WIBW KFH KFJF KRLD KTRH KTSA KLZ KDYL KOL KFPY KOIN KHJ KFRC	8:30-9:00 Mobiloil Concert
KMOX KLRA WDAY WNAX KOIL WIBW	8:30-9:00 Mobiloil Concert WEAF WEEI WJAR WTAG WCSH WLIT WDC WSAI WSD WOW WTAM WOA
KDYL KOL KEPY KOIN KHI KERC	
KNA CFRD	KSL WGY WGN WEBC WDAF WCAE
11:00-11:15 Fletcher Henderson and his Orchestra WABC WFBL WHEC WDRC WORC WCAU WJAS WLEW WCAO WTAR WDBJ WADC WKBN WWNC WXYZ WBCM WDOD WREC WLAC WBRC WDSU WISN WTAQ KSCJ WMT KMOX KLRA WNAX KFH KRLD KTSA KDYL KFPY 11:15-12-20 Cab Callegra and his Orchestra	WHO WOC WWJ WBEN
WJAS WLBW WCAO WTAR WDBJ WADC	8:30-9:00 The Sunkist Musical Cocktail  WABC WFBL WGR WEAN WDRC WNAC WFAN WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WJJD KMOX KMBC KOIL KLZ KDYL KOL
WKBN WWNC WXYZ WBCM WDOD WREC	WFAN WCAU WJAS WMAL WCAO WADC
WMT KMOX KLRA WNAX KFH KRLD	WHK WERC WXYZ WSPD WOWO WJJD
KTSA KDYL KFPY	
WEAF WFI WOC WHO WOW KSD	8:30-9:00 Canadian Pacific Musical Crusaders
11:15-12:00 Cab Calloway and his Orchestra WEAF WFI WOC WHO WOW KSD WTIC WBEN WMC	8:30-9:00 Canadian Pacific Musical Crusaders WJZ WGAR WBZ WBZA WHAM KDKA KYW KWK WCKY WREN KFAB CKGW
Wodnesday	0.00-0.30 Gold Madal Fact Freight
2:45-3:00 Sisters of the Skillet WJZ WBAL WHAM KDKA KWK WGAR WREN KFAB CKGW KSTP WFLA WSUN WMC WSB KOA KGO KECA WJR	WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WTAR WDBJ WADC WHK WKRC WCAH WXYZ WSPD WLAP WREC WLAC WISN WOWO WFBM
WJZ WBAL WHAM KDKA KWK WGAR	WADC WHK WKRC WCAH WXYZ WSPD
WREN KFAB CKGW KSTP WFLA WSUN	WLAP WREC WLAC WISN WOWO WFBM
WMC WSB KOA KGO KECA WJR WGN CFCF WRVA WPTF WJAX WIOD WSM WPAI WJDX KPRC	WMAQ WCCO KSCJ KMOX KMBC KOIL KFH KFJF KRLD KLZ KDYL KOL
WSM WPAI WJDX KPRC	KFPY KOIN KHJ KFRC KMJ
3:00-3:15 Edna Wallace Hopper WJZ WBZ WBZA WBAL WHAM KDKA	9:00-9:30 Halsey, Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT
	WEAF WEEL WJAR WTAG WCSH WLIT WRC WGY WCAE CKGW WRVA WJAX
WJDX KOA KSTP WEBC WRVA WPTF	WRC WGY WCAE CKGW WRVA WJAX KOA KSL KGO KGW KOMO KHQ WSAI KSD WOC WHO WOW WWJ
WALL WOD WOLD FOR FOO FROM	KOA KSL KGO KGW KOMO KHQ WSAI KSD WOC WHO WOW WWJ
WMC WSB WSMB KSL KGO KECA KGW KOMO KHQ KFAB WAPI KFSD	WSMB KVOO KPRC WOAI KSTP WTMJ KYW WHAS WSM WMC WSB KFI
WMC WSB KSMB KSL KGO KECA KGW KOMO KHQ KFAB WAPI KFSD 3:30-4:00 Evening Stars WJZ WHAM WGAR KWK WREN WJAX WLW WIBO CKGW WEBC KSTP WPTF WIOD WFLA WSUN WSM WMC WSB WAPI KPRC WOAL WKY KOA KSL	WREN WTAM
WJZ WHAM WGAR KWK WREN WJAX WLW WIBO CKGW WEBC KSTP WPTF	9:30-10:00 Arabesque — Desert Play  WABC WFBL WDRC WORC WPG WJAS  WLBW WMAL WDBJ WWNC WXYZ WBCM  WDOD WREC WDSU WISN WTAQ WFBM  WMT KMOX KLRA WNAX KFJF KTSA  KLZ KDYL KFPY CFRB
WIOD WFLA WSUN WSM WMC WSB	WABC WFBL WDRC WORC WPG WJAS
WAPI KPRC WOAI WKY KOA KSL KTHS WBAP WJDX WSMB WHAS WBAL	WDOD WREC WDSU WISN WTAQ WFBM
WRVA WBZ WBZA WJR KYW KDKA	WMT KMOX KLRA WNAX KFJF KTSA
WJAX	ALZ KDYL KFPY CFRB
4:00-5:00 U.S. Navy Band WARC WGR WEAN WNAC WPG WCAII	9:30-10:30 Palmolive Hour WEAF WEEI WTIC WJAR WTAG WCSH
WABC WGR WEAN WNAC WPG WCAU WLBW WMAL WCAO WTAR WADC WWNC WXYZ WSPD WDOD WLAC WDSU WISN WTAQ WBBM WCCO KMOX KMBC KRLD WACO KLZ KOH KFRC CFRB	WILL WAS WELL WOAL WEAL WEN
WXYZ WSPD WDOD WLAC WDSU WISN	KSD WOC WOW WSMB WTMJ KSTP WHAS WSM WMC WDAF WHO WSB
WACO KLZ KOH KERC CERR	WIAX WOAI KOA KSI, KGO KGW
7:00-7:30 Morton Downey	KOMO KHQ WFAA KPRC WWJ WTAM
7:00-7:30 Morton Downey WABC WHEC WLBZ WEAN WNAC WORC- WCAU WHP WJAS WLBW WMAL WCAO! WTAR WDBJ WKRC WAIU WWNC WXYZ WBCM WDOD WLAC WBRC KSCJ WDAY	KFI WBEN (KVOO of 10:00)
WTAR WDBJ WKRC WAID WWNC WXYZ	9:30-10:30 Camel Pleasure Hour WJZ WBZ WBZA WHAM KDKA WREN
WBCM WDOD WLAC WBRC KSCJ WDAY	WJZ WBZ WBZA WHAM KDKA WREN WLW KYW WSJS WRVA WJR KWK
WIBW KFJF KTRH KOL KFRC	WIOD WJAX WFLA WSUN

	10:00-10:15	Vitality F	ersonalit	ies			8:00	-9:00 Fl	eischman	n Hour	- Rudy V	allee	
	10:00-10:15 WABC WKRC WCAU WDRC KLRA KTSA	WADC	WXYZ	WNAC	KMBC	KOII.		WEAF	eischman WEEI WCSH WOW WSB KOMO	WTAG	WAX	WIOD	WJDX
	WCAU	WEAN	KMOX	WFBL	WSPD	WMAL		WHO	WOW	WDAF	WWJ	WHAS	WCAE KTAR WRVA WAPI WTAM (WTMJ
	KLRA	WISN	WCAH	WLAC	WDSU	W FBM KFJF		WMC KSL	WSB KOMO	WSMB	WEBC	KOA WOC	WRVA
	KTSA	KDYL	KHJ	KOIN	KFRC	KOL		KGO	KHQ	KECA	KSD	CKGW	WTAM
	KFPY 10:15-10:30	Peter Pa	n Forecas	ts				KTHS	WSAI	WGN	WKY	WBEN	(WTMJ
	WABC	WFBL	WKBW	WEAN	WDRC	WNAC WHK KMOX	8:15	-8:30 Ri	n-Tin-Ti	Thriller	11 11 01	0.00)	
	WKRC	WXXX	WSPD	WOWO	WADC	KMOX		WJZ	WBZ	WBZA	WBAL	KDKA	WGAR
	KMBC	KOIL	KRLD	CFRB			8:30	-8:45 K	n-Tin-Tin-WBZ KWK altenborn WFBL WCAU WKRC KMOX alada Salo	Edits the	News	77.11	KFAD
	10:30-10:45 WABC WNAC WCAO	WFBL	WKBW	WLBZ	WEAN	WDRC		WABC	WEBL	WGR	WEAN WMAL	WDRC	WNAC
	WNAC	WORC	WPG	WCAU	WJAS	WMAL		WHK	WKRC	WXYZ	WSPD	wowo	WMAQ
	WBT	WGST	WXYZ	WSPD	WREC	WLAC	8:30	WCCO -9:00 Sa	KMOX olada Salo	KMBC	KOIL		
	WDSU	WISN	WOWO	WFBM	WMAQ	WCCO	0.00	WJZ	WBZ	WBZA	WBAL	WHAM	KDKA
,	KFJF	WRR	KTRH	KTSA	WACO	WCAH WLAC WCCO KOIL KLZ WCSH WEBC WJAX WOAI	8:45	WJR <b>-9:00 T</b> I	willo be Hamilt	KWK on Watel	WREN	KFAB	WGAR
	KDYL	CFRB	CKAC	woko				WABC	WFBL	WGR	WEAN	WNAC	WCAU
	WEAF	WEEI	WTIC	WJAR	WTAG	WCSH		WKRC	WLBW	WMAL	WOWO	WADC	WHK KMOX
	WKY	WRC	WCAE	WRVA	WOC	WEBC		KMBC	KOIL	1.10			
	WKY WIOD	WSM	WSMB	KTHS	KPRC	WOAI	9:00	WABC	WHEC	WKBW	wPG	WJAS	WLBW
	KOMO	WIDX	KGO WGV	WDAF	KGW	KHQ WTAM		WMAL	WCAO	WTAR	WWNC	WXYZ	WSPD
	WHO	WSM KSL WJDX WOW WBEN	KFSD	WMC	WSB	WWJ		KFH	KRLD	WACO	KLZ	KOH	KMBC
	WAPI 10:45-11:15	WBEN Columbia	Concerts	Program		WCSH WEBC WJAX WOAI KHQ WTAM WWJ WPG WMAL WKBN	9:00	-9:30 Bl	ackstone	Plantatio	n WD AT	TZTOTZA	WOTZY
	WABC	WFBL	WEAN	WDRC	WORC	WPG		WHAM	WBZ	WBZA	WBAL	KDKA	WCKY
	WIP-W	FAN WTAR	WCAU	WADC	WLBW	W MAL WKBN	9:00	-9:30 A	co Birthd	ay Party	WTAC	WOOD	WET
	WWNC	WXYZ	WBCM	WDOD	WREC	WLAC		CKGW	WRC	WGY	W8B	WSM	WIOD
	KSCJ	WMT	KMOX	KMBČ	WOWO KLRA	WFBM:		WJAX	WOAI	KOA	KSL	WKY	WBAP WDAF
	KFH	KFJF	KRLD	KTSA	KDYL	KFPY		KYW	WCAE	WEBC	WOW	WSMB	WJDX
	11:15-12:00	Vincent I	opez and	his Orch	estra			WOC	WFJC	WTMJ	WMC	WHO	KGO
	WEAF	WRC	WCAE	KSD	WGY	WLIT		WBEN	ROMO	MIG	KGW	WALI	WIAINI
	(WAPI	WHO	(WWJ	WFLA	MOUN	OH 11:19)	9:15	-9:30 O	d Gold C	haracter	Raadinaa		
		WDAr	on 11:15)					WARC	WERL	WHEC	WAD	WLPZ	TATE A M
	11:30-12:00	Guy Lom	bardo an	d his Roy	al Canad	ians		WABC WDRC	WFBL WNAC	WHEC	WGR WPG	WLBZ WCAU	$egin{array}{c} WEAN \ WHP \end{array}$
	11:30-12:00 WABC WLBW	Guy Lom WEAN WTAR	bardo an WDRC WDBJ	d his Roy WNAC WADC	al Canad WPG WKBN	WHO WYAM WWJ WPG WMAL WKBN WLAC WFBM! WNAX! KFPY WLIT off 11:15)		WABC WDRC WJAS WHK	WFBL WNAC WLBW WKRC	WHEC WORC WCAO WAIII	WGR WPG WTAR WKRN	WLBZ WCAU WDBJ WWNC	WEAN WHP WADC WRT
	11:30-12:00 WABC WLBW WXYZ WDSU	WEAN WEAN WTAR WBCM WISN	bardo and WDRC WDBJ WDOD KSCJ	d his Roy WNAC WADC WREC KMOX	al Canad WPG WKBN WLAC KMRC	ians WCAU WWNC WBRC KLRA		WABC WDRC WJAS WHK WGST	WFBL WNAC WLBW WKRC WTOC	WHEC WORC WCAO WAIU WQAM	WGR WPG WTAR WKBN WDBO	WLBZ WCAU WDBJ WWNC WDAE	WEAN WHP WADC WBT WXYZ
	11:30-12:00 WABC WLBW WXYZ WDSU WNAX	Guy Lom WEAN WTAR WBCM WISN KFH	bardo and WDRC WDBJ WDOD KSCJ KTSA	d his Roy WNAC WADC WREC KMOX KLZ	al Canad WPG WKBN WLAC KMBC KDYL	ians WCAU WWNC WBRC KLRA		WABC WDRC WJAS WHK WGST WBCM WDSU	WFBL WNAC WLBW WKRC WTOC WSPD WISN	WHEC WORC WCAO WAIU WQAM WDOD WOWO	WGR WPG WTAR WKBN WDBO WREC WFBM	WLBZ WCAU WDBJ WWNC WDAE WLAC WBBM	WEAN WHP WADC WBT WXYZ WBRC WCCO
	WLBW WXYZ WDSU WNAX	WTAR WBCM WISN KFH	WDBJ WDOD KSCJ KTSA	WADC WREC KMOX KLZ	WKBN WLAC KMBC KDYL	ians WCAU WWNC WBRC KLRA		WABC WDRC WJAS WHK WGST WBCM WDSU KSCJ	WFBL WNAC WLBW WKRC WTOC WSPD WISN WMT	WHEC WORC WCAO WAIU WQAM WDOD WOWO KMOX	WGR WPG WTAR WKBN WDBO WREC WFBM KMBC	WLBZ WCAU WDBJ WWNC WDAE WLAC WBBM KLRA	WEAN WHP WADC WBT WXYZ WBRC WCCO WDAY
	WLBW WXYZ WDSU WNAX	WTAR WBCM WISN KFH	WDBJ WDOD KSCJ KTSA	WADC WREC KMOX KLZ	WKBN WLAC KMBC KDYL	WWNC WBRC KLRA		WHK WGST WBCM WDSU KSCJ WNAX	WKRC WTOC WSPD WISN WMT KOIL	WAIU WQAM WDOD WOWO KMOX WIBW	WKBN WDBO WREC WFBM KMBC KFH	WWNC WDAE WLAC WBBM KLRA KFJF	WBT WXYZ WBRC WCCO WDAY KRLD
	WLBW WXYZ WDSU WNAX	WTAR WBCM WISN KFH	WDBJ WDOD KSCJ KTSA	WADC WREC KMOX KLZ	WKBN WLAC KMBC KDYL	WWNC WBRC KLRA		WHK WGST WBCM WDSU KSCJ WNAX	WKRC WTOC WSPD WISN WMT KOIL	WAIU WQAM WDOD WOWO KMOX WIBW	WKBN WDBO WREC WFBM KMBC KFH	WWNC WDAE WLAC WBBM KLRA KFJF	WBT WXYZ WBRC WCCO WDAY KRLD
	WLBW WXYZ WDSU WNAX	WTAR WBCM WISN KFH	WDBJ WDOD KSCJ KTSA	WADC WREC KMOX KLZ	WKBN WLAC KMBC KDYL	WWNC WBRC KLRA		WHK WGST WBCM WDSU KSCJ WNAX	WKRC WTOC WSPD WISN WMT KOIL	WAIU WQAM WDOD WOWO KMOX WIBW	WKBN WDBO WREC WFBM KMBC KFH	WWNC WDAE WLAC WBBM KLRA KFJF	WBT WXYZ WBRC WCCO WDAY KRLD
	WLBW WXYZ WDSU WNAX	WTAR WBCM WISN KFH	WDBJ WDOD KSCJ KTSA	WADC WREC KMOX KLZ Sday WCSH WSAI WOC	WKBN WLAC KMBC KDYL WFI KYW WHO	WRC KSTP	9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF	WKRC WTOC WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ	WKBN WDBO WREC WFBM KMBC KFH KVI	WWNC WDAE WLAC WBBM KLRA KFJF KOL	WBT WXYZ WBRC WCCO WDAY KRLD KFPY
	WLBW WXYZ WDSU WNAX	WTAR WBCM WISN KFH	WDBJ WDOD KSCJ KTSA	WADC WREC KMOX KLZ Sday WCSH WSAI WOC	WKBN WLAC KMBC KDYL WFI KYW WHO	WRC KSTP	9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF	WKRC WTOC WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ	WKBN WDBO WREC WFBM KMBC KFH KVI	WWNC WDAE WLAC WBBM KLRA KFJF KOL	WBT WXYZ WBRC WCCO WDAY KRLD KFPY
	WLBW WXYZ WDSU WNAX	WTAR WBCM WISN KFH	WDBJ WDOD KSCJ KTSA	WADC WREC KMOX KLZ Sday WCSH WSAI WOC	WKBN WLAC KMBC KDYL WFI KYW WHO	WRC KSTP	9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF	WKRC WTOC WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ	WKBN WDBO WREC WFBM KMBC KFH KVI	WWNC WDAE WLAC WBBM KLRA KFJF KOL	WBT WXYZ WBRC WCCO WDAY KRLD KFPY
	WLBW WXYZ WDSU WNAX 10:00-10:15 WEAF WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-4:00 Ck	WTAR WBCM WISN KFH  Ceresota WJAR WCAE WTAM Odorono WHAM KPRC WJR iicago Sei	WDBJ WDOD KSCJ KTSA Thurs Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA	WADC WREC KMOX KLZ Sday WCSH WSAI WOC	WKBN WLAC KMBC KDYL WFI KYW WHO	WRC KSTP	9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF	WKRC WTOC WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ	WKBN WDBO WREC WFBM KMBC KFH KVI	WWNC WDAE WLAC WBBM KLRA KFJF KOL	WBT WXYZ WBRC WCCO WDAY KRLD KFPY
	WLBW WXYZ WDSU WNAX 10:00-10:15 WEAF WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-4:00 Ck	WTAR WBCM WISN KFH  Ceresota WJAR WCAE WTAM Odorono WHAM KPRC WJR iicago Sei	WDBJ WDOD KSCJ KTSA Thurs Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA	WADC WREC KMOX KLZ Sday WCSH WSAI WOC	WKBN WLAC KMBC KDYL WFI KYW WHO	WWNC WBRC KLRA WRC KSTP WLW WBZA	9:30 9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF WRC WBEN -10:00 L WABC WCAU WKRC KMBC	WKRC WTOC WSPD WISN WMT KOIL KLZ KHJ (ack Frost WJAR WCAE WFBL WJAS WXYZ KOIL	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ WSAI Story Ma WKBW WMAL WSPD	WKBN WDBO WRED WFBM KMBC KFH KVI y Momen WTAG WTAM gazine WEAN WCAO WOWO	WWNC WDAE WLAC WBBM KLRA KFJF KOL	WBT WXYZ WBRC WCCO WDAY KRLD KFPY
	WLBW WXYZ WDSU WNAX 10:00-10:15 WEAF WGY WRVA 11:30-11:45 WIZ WIBO KVOO 3:30-4:00 CK WJZ WLW CKGW	WTAR WBCM WISN KFH  Ceresota WJAR WCAE WTAM Odorono WHAM KPRC WJR iicago Sei KDKA WSM	WDBJ WDOD KSCJ KTSA Thurs Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA WIR WMC	WADC WREC KMOX KLZ sday WCSH WSAI WOC OFTAM KWK WOAI	WKBN WLAC KMBC KDYL WFI KYW WHO WREN WBZ	WWNC WBRC KLRA WRC KSTP WLW WBZA KOA WSUN	9:30 9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF WRC WBEN -10:00 L WABC WCAU WKRC KMBC -10:00 R	WKRC WTOC WSPD WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR WJAR WJAS WYSE WFBL WJAS WXYZ KATA	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ WSAI  Story Ma WKBW WMAL WSPD	WKBN WDBO WREC WFBM KMBC KFH KVI  y Momen WTAM WTAM  gazine WEAN WCAO WOWO	WWNC WDAE WLAC WBBM KLRA KFJF KOL *** WCSH WIBO WDRC WADC WBBM	WBT WXYZ WBRC WCCO WDAY KRLD KFPY WFI WGY
	WLBW WXYZ WDSU WNAX 10:00-10:15 WEAF WGY WRVA 11:30-11:45 WIZ WIBO KVOO 3:30-4:00 CK WJZ WLW CKGW	WTAR WBCM WISN KFH  Ceresota WJAR WCAE WTAM Odorono WHAM KPRC WJR iicago Sei KDKA WSM	WDBJ WDOD KSCJ KTSA Thurs Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA WIR WMC	WADC WREC KMOX KLZ sday WCSH WSAI WOC OFTAM KWK WOAI	WKBN WLAC KMBC KDYL WFI KYW WHO WREN WBZ	WWNC WBRC KLRA WRC KSTP WLW WBZA KOA WSUN	9:30 9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF WRC WBEN -10:00 L WABC WCAU WKRC KMBC -10:00 R	WKRC WTOC WSPD WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR WJAR WJAS WYSE WFBL WJAS WXYZ KATA	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ WSAI  Story Ma WKBW WMAL WSPD	WKBN WDBO WREC WFBM KMBC KFH KVI  y Momen WTAM WTAM  gazine WEAN WCAO WOWO	WWNC WDAE WLAC WBBM KLRA KFJF KOL *** WCSH WIBO WDRC WADC WBBM	WBT WXYZ WBRC WCCO WDAY KRLD KFPY WFI WGY
	WLBW WXYZ WDSU WNAX 10:00-10:15 WEAF WGY WRVA 11:30-11:45 WIZ WIBO KVOO 3:30-4:00 CK WJZ WLW CKGW	WTAR WBCM WISN KFH  Ceresota WJAR WCAE WTAM Odorono WHAM KPRC WJR iicago Sei KDKA WSM	WDBJ WDOD KSCJ KTSA Thurs Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA WIR WMC	WADC WREC KMOX KLZ sday WCSH WSAI WOC OFTAM KWK WOAI	WKBN WLAC KMBC KDYL WFI KYW WHO WREN WBZ	WWNC WBRC KLRA WRC KSTP WLW WBZA KOA WSUN	9:30 9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF WRC WBEN -10:00 L WABC WCAU WKRC KMBC -10:00 R	WKRC WTOC WSPD WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR WJAR WJAS WYSE WFBL WJAS WXYZ KATA	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ WSAI  Story Ma WKBW WMAL WSPD	WKBN WDBO WREC WFBM KMBC KFH KVI  y Momen WTAM WTAM  gazine WEAN WCAO WOWO	WWNC WDAE WLAC WBBM KLRA KFJF KOL *** WCSH WIBO WDRC WADC WBBM	WBT WXYZ WBRC WCCO WDAY KRLD KFPY WFI WGY
	WLBW WXYZ WDSU WNAX 10:00-10:15 WEAF WGY WRVA 11:30-11:45 WIZ WIBO KVOO 3:30-4:00 CK WJZ WLW CKGW	WTAR WBCM WISN KFH  Ceresota WJAR WCAE WTAM Odorono WHAM KPRC WJR iicago Sei KDKA WSM	WDBJ WDOD KSCJ KTSA Thurs Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA WIR WMC	WADC WREC KMOX KLZ sday WCSH WSAI WOC OFTAM KWK WOAI	WKBN WLAC KMBC KDYL WFI KYW WHO WREN WBZ	WWNC WBRC KLRA WRC KSTP WLW WBZA KOA WSUN	9:30 9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF WRC WBEN -10:00 L WABC WCAU WKRC KMBC -10:00 R	WKRC WTOC WSPD WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR WJAR WJAS WYSE WFBL WJAS WXYZ KATA	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ WSAI  Story Ma WKBW WMAL WSPD	WKBN WDBO WREC WFBM KMBC KFH KVI  y Momen WTAM WTAM  gazine WEAN WCAO WOWO	WWNC WDAE WLAC WBBM KLRA KFJF KOL *** WCSH WIBO WDRC WADC WBBM	WBT WXYZ WBRC WCCO WDAY KRLD KFPY WFI WGY
	WLBW WXYZ WDSU WNAX 10:00-10:15 WEAF WGY WRVA 11:30-11:45 WIZ WIBO KVOO 3:30-4:00 CK WJZ WLW CKGW	WTAR WBCM WISN KFH  Ceresota WJAR WCAE WTAM Odorono WHAM KPRC WJR iicago Sei KDKA WSM	WDBJ WDOD KSCJ KTSA Thurs Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA WIR WMC	WADC WREC KMOX KLZ sday WCSH WSAI WOC OFTAM KWK WOAI	WKBN WLAC KMBC KDYL WFI KYW WHO WREN WBZ	WWNC WBRC KLRA WRC KSTP WLW WBZA KOA WSUN	9:30 9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF WRC WBEN -10:00 L WABC WCAU WKRC KMBC -10:00 R	WKRC WTOC WSPD WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR WJAR WJAS WYSE WFBL WJAS WXYZ KATA	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ WSAI  Story Ma WKBW WMAL WSPD	WKBN WDBO WREC WFBM KMBC KFH KVI  y Momen WTAM WTAM  gazine WEAN WCAO WOWO	WWNC WDAE WLAC WBBM KLRA KFJF KOL *** WCSH WIBO WDRC WADC WBBM	WBT WXYZ WBRC WCCO WDAY KRLD KFPY WFI WGY
	WLBW WXYZ WDSU WNAX 10:00-10:15 WEAF WGY WRVA 11:30-11:45 WIZ WIBO KVOO 3:30-4:00 CK WJZ WLW CKGW	WTAR WBCM WISN KFH  Ceresota WJAR WCAE WTAM Odorono WHAM KPRC WJR iicago Sei KDKA WSM	WDBJ WDOD KSCJ KTSA Thurs Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA WIR WMC	WADC WREC KMOX KLZ sday WCSH WSAI WOC OFTAM KWK WOAI	WKBN WLAC KMBC KDYL WFI KYW WHO WREN WBZ	WWNC WBRC KLRA WRC KSTP WLW WBZA KOA WSUN	9:30 9:30	WHK WGST WBCM WDSU KSCJ WNAX KTSA KOIN -10:00 J WEAF WRC WBEN -10:00 L WABC WCAU WKRC KMBC -10:00 R	WKRC WTOC WSPD WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR WJAR WJAR WJAS WYZ KYZ WJAS	WAIU WQAM WDOD WOWO KMOX WIBW KDYL KFRC 's Melod WWJ WSAI  Story Ma WKBW WMAL WSPD	WKBN WDBO WREC WFBM KMBC KFH KVI  y Momen WTAM WTAM  gazine WEAN WCAO WOWO	WWNC WDAE WLAC WBBM KLRA KFJF KOL *** WCSH WIBO WDRC WADC WBBM	WBT WXYZ WBRC WCCO WDAY KRLD KFPY WFI WGY
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	WLBW WXYZ WDSU WNAX  10:00-10:15 WEAF WGY WRVA 11:30-11:45 WJE WJE WJE WJZ WJS WJZ WJZ WSM 5:30-5:500 U, WJZ WSM 5:30-5:45 Ri WEAF WRC T:00-7:30 Mi WEAF WHO 7:30-7:45 Si WEAN WDBJ WLAC KMOX KVI	WTAR WBCM WISN KFH  Ceresota WJAR WCAE WJAR WCAE WTAM MCOOR WHAM KPRC WJIR WERC WJIR WEST WEST WEST WEST WEST WOC d-WCAE WOR	WDBJ WDOD KSCJ KTSA Churs Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA WKY WFAC WJR WHO Federatio WHE WBEN Orchestra WHP WBT WBT WISN	WADC WRECK WRECK WRECK WADC WCSH WSAI WOCA WOCA WAPI WREN WAPI WREN WAPI WREN WAPI WAS WXAI NHYMIN WJAS WXYZ- WFBM KOIL	WKBN WLAC KMBC KDYL WFI KYW WHO WREN WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF	WNC WBCC KLRA  WRC KSTP  WLW WBZA  KOA WSUN  WJAX  WLIT WWJ  WOC  WMAL WBCM KSCJ KTRH	9:30 9:30 9:30	WHK WGST WBCM WDSU KSCJ WNAX KSCJ WNAX KOIN -10:00 I WBEN WBEN WBEN WBEN WBEN WBEN WBEN WBEN	WKRC WKRC WTOC WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR WCAE VHSBL WJAS WXYZ KOIL MAXWell H WBZ KOIL MAXWEL WHBL WHBL WJAS WXYZ KDKA The Luth WFBL WJAS WXYZ KDKA CLUcky Str WEEI	WATU WQAM WQAM WQAM WQAM WDOD WOWO KMOX WIBW KMYL KFRC 's Melod WWJ WSAI Story Ma WKBW WMAL WSPD Jouse En WBZA WBZA WBZA WBZA WBZA WBZA WBZA WBZA	WKBN WDBO WREC WFBM KMBC WFBM KMBC KFH KYI  y Momen WTAG WTAM WCAO WOWO WEAN WCAO WOWO  " WEAN WGAO WOWO " WEAN WCAO WOWO WCAO WOWO WCAO WOO WOWO WCAO WOO WOO WOO WOO WOO WOO WOO WOO WOO W	WWNC WDAE WDAE WLAC WBBM KLRA KFJF WCSH WIBO  WDRC WADC WADC WBBM  WLW WSM WBAP WSM WBAP WSM WAPI  WDRC WOWO WADC WOWO WSM WSM WBAP	WETT WXYZ WXYZ WXYZ WYXYZ WYXY WYXY WYXY WYX
	WLBW WXYZ WDSU WNAX  10:00-10:15 WEAF WGY WRVA 11:30-11:45 WJE WJE WJE WJZ WJS WJZ WJZ WSM 5:30-5:500 U, WJZ WSM 5:30-5:45 Ri WEAF WRC T:00-7:30 Mi WEAF WHO 7:30-7:45 Si WEAN WDBJ WLAC KMOX KVI	WTAR WBCM WISN KFH  Ceresota WJAR WCAE WJAR WCAE WTAM MCOOR WHAM KPRC WJIR WERC WJIR WEST WEST WEST WEST WEST WOC d-WCAE WOR	WDBJ WDOD KSCJ KTSA Churs Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA WKY WFAC WJR WHO Federatio WHE WBEN Orchestra WHP WBT WBT WISN	WADC WRECK WRECK WRECK WADC WCSH WSAI WOCA WOCA WAPI WREN WAPI WREN WAPI WREN WAPI WAS WXAI NHYMIN WJAS WXYZ- WFBM KOIL	WKBN WLAC KMBC KDYL WFI KYW WHO WREN WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF	WNC WBCC KLRA  WRC KSTP  WLW WBZA  KOA WSUN  WJAX  WLIT WWJ  WOC  WMAL WBCM KSCJ KTRH	9:30 9:30 9:30	WHK WGST WBCM WDSU KSCJ WNAX KSCJ WNAX KOIN -10:00 I WBEN WBEN WBEN WBEN WBEN WBEN WBEN WBEN	WKRC WKRC WTOC WSPD WISN WMT KOIL KLZ KHJ ack Frost WJAR WCAE VHSBL WJAS WXYZ KOIL MAXWell H WBZ KOIL MAXWEL WHBL WHBL WJAS WXYZ KDKA The Luth WFBL WJAS WXYZ KDKA CLUcky Str WEEI	WATU WQAM WQAM WQAM WQAM WDOD WOWO KMOX WIBW KMYL KFRC 's Melod WWJ WSAI Story Ma WKBW WMAL WSPD Jouse En WBZA WBZA WBZA WBZA WBZA WBZA WBZA WBZA	WKBN WDBO WREC WFBM KMBC WFBM KMBC KFH KYI  y Momen WTAG WTAM WCAO WOWO WEAN WCAO WOWO  " WEAN WGAO WOWO " WEAN WCAO WOWO WCAO WOWO WCAO WOO WOWO WCAO WOO WOO WOO WOO WOO WOO WOO WOO WOO W	WWNC WDAE WDAE WLAC WBBM KLRA KFJF WCSH WIBO  WDRC WADC WADC WBBM  WLW WSM WBAP WSM WBAP WSM WAPI  WDRC WOWO WADC WOWO WSM WSM WBAP	WETT WXYZ WXYZ WXYZ WYXYZ WYXY WYXY WYXY WYX
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WRVA WFLA WSU KTAR (KGO KGW off 10:30) (WOO	; who kths	KFSD KHQ on 10:30)	WLIT WRC WOW WCAE WSAI WIBO KSD WWJ WDAF WOC WHO WGY
WBCM WDOD WRE WISN WTAQ WGL KLRA WNAX KFJI	N WDRC WNAG S WLBW WMA: C WKBN WWN C WLAC WBRG KSCJ WMT KRLD KTSA	C WORC L WCAO C WXYZ C WDSU KMBC KLZ	9:00-9:30 Intervoven Pair         WJZ         WHAM         WMC         KDKA         WJAX         WKY           WREN KPRC         KWK         WBZ         WBZA         KGW           WSMB         WIOD         WFAA         WJR         WTMJ         KSTP           WHAS         KYW         WEBC         WCKY         WSM         WRD           WSB         WAPI         WOAI         KOA         KSL         KGO           KECA         KGW         KOMO         KHQ         KFSD         KTAR           WJR         WGAR         WGAR         WGAR         WGAR         WGAR         WGAR
11:00-11:15 Jack Denny and WABC WFBL WDR WJAS WLBW WMA WKBN WWNC WXY WLAC WBRC WDS KSCJ WMT KMO		WCAU R WDBJ D WREC D WGL KFH	9:00-10:00 True Story Hour  WABC WFBL WKBW WEAN WDRC WNAC  WCAU WJAS WMAL WCAO WADC WHK  WKRC WXYZ WSPD WOWO WMAQ KMOX  KMBC KOIL
KFJF KRLD KLZ 11:15-12:00 Cab Calloway a WEAF WWJ WOW WDAF WTAM WOC WCAE	MDYL KFPY d his Orchestra WFI KSTP WHO WIBO	WJDX WJDX	9:30-9:45 Enna Jettick Songbird WEAF WEEI WJAR WTAG WCSH WRC WLIT WGY WBEN WCAE WWJ WSAI WENR KSD WOC WHO WOW WDAF CKGW WTAM CFCF 9:30-10:00 Armour Program
11:30-12:00 Radio Roundup WABC WKBW WEA WLBW WMAL WCA WXYZ WSPD WDO WTAQ WCCO KMB CFRB	D WTAR WADO	WCAU WWNC WISN KLZ	CAGW WTAM CFCF
4:00-4:30 Dancing Melodies WEAF WTAG WCA	E WFJC WTAN	ı wwj	WEAF WIAR WTAG WCSH WRC WLIT WGY WCAE KSD WBEN WENR 10:00-10:30 Armstrong Quakers
4:00-5:00 Radio Guild WJZ WBAL WHA WJAX KGO KFI KFAB KSTP WEB	M WRC CKGW KOMO KFSD	WPTF	10:00-10:30 Armstrong Quakers  WJZ KDKA WBZ WBZA KYW KWK  WHAM KPRC WJR WTMJ WEBC WHAS  WSM WSB WOAI KOA WSMB KSL  KGW KOMO KHQ WMC KFI  WCKY KTHS KSTP KVOO WKY
WLW WTMJ WSB WKY KPRC WRV 4:45-5:00 National Child He WABC WFBL WDR WFAN WHP WMA WAIU WWNC WXY	WSMB KVOO A WJDX alth Series C WORC WPG L WTAR WDBJ	WOAI WIP- WADC	WCAT KIBS   KSIP   KVOO WKY
WLAC WISN WTA KMBC KLRA KFJF KDVI, KFPV KFRO	Q KSCJ WMT KRLD KTSA	WREC KMOX KLZ	WTAM WOW WENR KGO KGW KOMO KHQ KOA KSL KTAR KFSD KFI  10:00-10:30 Van Heusen Program WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WGST WXYZ WSPD WDSU WMAQ WCCO KMOX KMBC KOIL  10:30-11:00 The March of Time WABC WFBL WKBW WFAN WDRC WNAC
5:00-5:45 Light Opera Gems WABC WKBW WGR WLBW WCAO WTA WXYZ WBCM WSPI WISN WGL WCC KOIL KFH KFJF	R WAIU WKBN D WREC WLAC D KSCJ KMOX	WJAS WBT WBRC WDAY KTSA	WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WBBM KMOX KMBC KOIL
KOH KERC	C WDOD WLAC M KFH KRLD	WCAO WDSU KLZ	10:30-11:00 RKO Theatre of the Air   WEAF   WEEI   WJAR   WTAG   WLIT   WGY   WSAE   WSAE
7:00-8:00 Major Bowes' Fan WEAF WJAR WCSI WWJ WENR WOC WMC WSB WSM KGW KOMO KTAI 8:00-8:30 Nestle's Program WJZ WBZZ WBZZ	B KOA KGO	WCAE WHAS KECA	KTAR KFSD WCSH WHO WOW KSL WTAM WFLA WSIIN WBEN  11:00-11:15 Fletcher Henderson and his Orchestra WABC WHEC WDRC WORC WCAU WJAS WLBW WCAO WTAR WDBJ WKBN WWNC WXYZ WBCM WDOD WLAC WBRC WDSU WISN WTAQ KSCJ WMT KLRA WNAX
8:00-9:00 Cities Service Con	WLW KDKA cert Orchestra	KWK WGAR	KFH KFJF KRLD KTSA KLZ KDYL
WEAF WEEI WTIC WJAR WCSH WOW KSTP WTMJ WKY WOAI KOMO KGO WTAG CKGW KECA	WLIT WRC KYW KSD WOC KOA KGW KHO	WCAE WDAF WEBC KSL WTAM	11:90-12:00 Vincent Lopez and His Orchestra WEAF WGY CKGW WTIC WOC (WRC WWJ off 11:15) (KOA KSTP WDAF on 11:45) (KSD on 11:30) (WCFL on 11:15- 11:30) (WFJC WLIT off 11:30) 11:30-12:00 Ben Bernie and his Orchestra
8:30-9:00 The Dutch Master WABC WFBL WGR WCAU WJAS WMA WXYZ WSPD WBBI KOIL	WEAN WDRO L WCAO WADO M WCCO KMOX	WKRC	WABC WFBL WHEC WEAN WDRC WNAC WPG WIP-WFAN WLBW WMAL WCAO WTAR WDBJ WADC WKBN WWNC WXYZ WBCM WDOD WREC WLAC WBRC WDSU WISN WTAQ WMT KSCJ KMOX KMBC KLRA WNAX KFH KTSA KLZ KDYL
8:45-9:00 Natural Bridge Re WJZ WHAM KDK WIOD WIBO WBZ	vue A KWK WREN WBZA WFLA	WJAX WSUN	Saturday
WRVA WJR 9:00-9:30 Clicquot Club Eski WEAF WEEI WTIC	mos WJAR WTAG	WCSH	1:30-2:00 Savoy Plaza Orchestra WARC WHEC WLBZ WEAN WCAU WHP WJAS WMAL WCAO WTAR WDBJ WKRC

WAIU WWNC WX WLAC WBRC WIE	YZ WBCM	WSPD	WDOD	WGY WIOD	WCAE	WWJ	WSAI	KSD	WDAF
4 20 F 00 C 1 C 1				8:30-9:00 Fu	ller Man				
4:30-5:00 Spanish Serenad WABC WLBZ WE WHP WMAL WC WAIU WWNC WX WREC WLAC WB KSCJ WMT KM	e An wnac	WORC	WRAN	WJZ	WBZ	WBZA	WBAL	WHAM	KDKA
WHP WMAL WC	AO WTAR	WDBJ	WKRC	WJR.	KWK	WREN	WBAL KOA KGW WTMJ WLW Brusilof WCAU	CKGW	WHAS
WAIU WWNC WX	YZ WBCM	WSPD	WDOD	KPRC KHQ	KGO				
WREC WLAC WB	RC WMAQ	<b>WBBM</b>	wcco	KHQ	MIBO	WKY	WTMJ	WMC	WEBC
KSCJ WMT KM	OX KMBC	WDAY	KOIL	KPRC KHQ WSB 8:45-9:00 M WABC WLBW WKBN WREC WFBM	WAPI	WSMB	WLW	WJDX	KSTP
MIDM PLIE PU	D KTRH	KTSA	KLZ	8:45-9:00 M	WDDC	word	WCAII	WHD	stra WJAS
KOL KFRC		.1		WLBW	WCAO	WTAR.	WDBJ	WADC	WAIU
5:00-5:15 Peter van Steede WJZ WHAM WLV	n and his Ur	chestra WD7	WBZA	WKBN	WWNC	WXYZ	WBCM	WADC WSPD	WDOD
WGAR	W WIDA	WDZ	WDZA	WREC	WLAC	WDSU	WISN	WTAQ	wowo
6-00-6-30 Tad Hueing's Sn	ortelante			WFBM WNAX	$\underline{\text{KSCJ}}$	$\mathbf{WMT}$	$\mathbf{K}\mathbf{M}\mathbf{O}\mathbf{X}$	KMBC	KLRA
6:00-6:30 Ted Husing's Sp WABC WFBL WF	N WHP	WLBW	WTAR	WNAX	KFH	KRLD	KLZ	KFPY	KFRC
	K WAIU	WBT	WBCM	CFRB	D 1	C-11. C			
WREC WLAC WB	RC WISN	wowo	WBBM	WARC	WKRW	WIAS	WMAT.	WHK	WKRC
WCCO KSCJ WD.	AY KOIL	WIBW	KFH	WXVZ	WISN	WMAO	WCCO	KMOX	KMBC
KFJF KRLD KT	RH KTSA	KLZ	KVI	KOIL	112011	11 111114		1111011	111111111111111111111111111111111111111
WDBJ WADC WH WREC WLAC WB WCCO KSCJ WD KFJF KRLD KTI KOL KFPY KH.	KFRC	CFRB		WFBM WNAX CFRB 9:00-9:30 OI WABC WXYZ KOIL 9:00-10:00 G	eneral El	ectric Ho	ur		
6:15-6:45 Smith Ballew and WJZ WBZ WB	His Orches	tra TZTVAD	173777	WEAF	WEEI WGY	WJAR	WTAG	WCSH	$\mathbf{WFI}_{\_}$
			TWT	WRC	WGY	WBEN	WCAE	WTAM	WWJ
WEAR WET WC	gs AE WWT	WSB	KOA	WSAI	WIBO	KSD	WOC WEBC WAPI	WOW	WDAF
KGO WCSH WE	VR WDAY.	WTIC	KFYR.	WINI	WMC	WSB	WEDU	WEMB	WIAA
7:00-7:15 Morton Downey	with Nat Bru	siloff		KPRC	WOAT	KOA	KSL	KGO	KEI
WABC WHEC WD	RC WORC	WHP	WJAS	KGW	комо	KHO	KFSD	KTAR.	1111
WLBW WMAL WT	AR WDBJ	WADC	WHK	9:30-10:00 C	olumbia l	Education	al Featu	es	
WAIU WKBN WW	NC WBCM	WSPD	WDOD	WABC	WLBZ	WEAN	WNAC	WORC	WPG
WDSU WTAQ WO	NO MERW	KSCJ	M M.I.	WFAN	WHP	WJAS	$\mathbf{w}_{\mathbf{L}\mathbf{B}\mathbf{w}}$	WMAL	WTAR
KLKA KFH KFJ	F KRLD	KFPY	KFRU	WDBJ	WKRC	WWNC	WXYZ	WBCM	WSPD
7 15 7 20 I That Cafe				WDOD	WREC	WLAC	WBRC	WERM	WCCO
WEAR WIAR WT	MCSH	wri .	WGV	WIRM	M M I	KMBC	WDAY	WNAA	KUZ
WBEN WWI WOO	WHO	WOW	WEBC	KUL.	KERC	IXI.91.	ити	KIDA	KLZ
7:00-7:15 Gene Austin, son WEAF WFI WC. KGO WCSH WEI 7:00-7:15 Morton Downey WABC WHEC WD. WABC WHEC WD. WLBW WMAL WT. WAIU WKBN WW WDSU WTAQ WO! KLRA KFH KFJ. CFRB 7:15-7:30 Laws That Safeg WEAF WJAR WJAV WOAI KOA KGG KTAR WJDX WEI	KECA	комо	KHQ	10.00-10.30	Cuckoo				
TOTAD WITH WITH	PT.			WJZ	WBZ	WRZA	WBAL.	KDKA	WHAM
7:15-7:30 Armand Vecsey a WHEC WGR WE WMAL WCAO WTA WSPD WDOD WDO WACO WAY	nd his Orche	stra	****	WJZ WGAR	WLW	WIBO	WBAL KWK	WREN	WJR
WHEC WGR WE	IN WNAC	WJAS	WLBW	CFCF	CKGW				
WMAL WCAU WIN	IR WADC	WHK	WWNC	10:00-11:00	Lucky Str	ike Danc	e Orches	tra	
WACO KOH KFF	OC WIAQ	пти	KKLD	WGAR CFCF 10:00-11:00   WEAF WRC WSAI WDAF	WEEI	WJAR	WTAG	WCSH	WFI
7.30-7.45 Page of the Gold	haraa			WRC	WGY	MREN	WCAE	WIAM	WWJ
WIZ WHAM KW	WREN	WIBO	WSB	WDAE	WCN	KSTP	WERC	WRVA	WIAX
7:30-7:45 Rose of the Gold WJZ WHAM KW WJDX WSMB WA	I WGAR	HIDO	WED	WIOD	WGN WTMJ WFLA WJDX	WSUN	WHAS	WMC	WSB
WJDX WSMB WAI 7:30-8:00 Club Valspar — T WEAF WTIC WIA WRC WBEN WC. WHO WDAF CFC WIOD WLIT WFI WSB WAPI WIL WKY WFFI WT	ed Lewis			WSMB	WJDX	KVOO	WFAA	KPRC	WOAI
WEAF WTIC WJA	R WTAG	WCSH	WGY	WKY	KOA	KSL	KGO	KFI	KGW
WRC WBEN WC	E WSAI	WENR	WOC	KOMO	KHQ	KTAR	KFSD		
WHO WDAF CFC	F CKGW	WEBC	WJAX	10:00-11:00	Hank Sim	mons' S	how Boat	WMAG	WORG
MOD MTIL MEI	A WSUN	WSM	WMC	WABC WPG WCAO WBCM WMAQ WDAY KRLD	WEAN	WHD	WEAN	WIRW	WMAT.
WKY WEEL WIL	M WTMI	KSTP	WWI	WCAO	WTAR	WDBJ	WKRC	WWNC	WXYZ
WSB WAPI WIL WKY WEEI WTA on 7:30-7:45) (WB	AS off 7:45)	(WBAP	on 7:45)	WBCM	WSPD	WDOD	WLAC	WLBW WWNC WBRC	WFBM
7:45-8:00 Pickard Family		,	,	WMAQ	WCCO	KSCJ	WMT	KMOX	KMBC
WJZ WHAM KW	K WREN	WIBO	WGAR	WDAY	WNAX	KOIL	WIBW	KFH	KFJF
8:00-8:15 Dixies Circus				KRLD	KTRH	KTSA	KLZ	KOL	KFRC
WJZ WBAL KDI	KA KYW	WHAM	WBZ	CFRB 11:00-11:15					
WBZA WOAI KST	P KPRC	WKY	CKGW	11:00-11:15 I	l roubadoi WET	wcae	WWW.T	WSAI	WOC
WGAR	*** 1			WEAF WHO	WOW	WORE	** *** 3	WOAL	WOO
WGAR 8:00-8:15 Webser Program WEAF WEEI WJA WRC WGY WBI WSAI WIBO KSD WDAF WTMJ KST 8:15-8:30 Ben Alley, Tenor, WABC WKBW WGI WFAN WHP WJA WDBJ WADC WKG	— Weberai	nd Fields Wast	WET	11:00-11:15	lack Dem	nv and H	is Orche	tra	
WRC WGY WRI	N WCAE	WTAM	ww.i	WABC	WHEC	WLBZ	WEAN	WNAC	WORC
WSAI WIBO KSD	WOC	WHO	wow	WPG	WCAU	WHP	WLBW	WMAL	WCAO
WDAF WTMJ KST	P KOA	KSL	WEBC	WTAR	WDBJ	WWNC	WXYZ	WBCM	WSPD
8:15-8:30 Ben Alley, Tenor,	with Ann Le	af		WDOD	WREC	WLAC	WBRC	WFBM	KSCJ
WABC WKBW WGH WFAN WHP WJA WDBJ WADC WKI WSPD WREC WLA WFBM WMAQ KSC	R WDRC	WORC	WPG	WMT	KMBC	WDAY	WNAX	MOIT	MIRM
WFAN WHP WJA	S WLBW	WMAL	WCAO	11.20 12.00 C	THE LOT	NIRH	LUIS O	LOL hootra	Ornb
WDBJ WADC WKI	N WBT	WXYZ	WBCM	11:50-12:00	MHEC	vargo ano WLP7	WEAN	WNAC	WORC
WEDM WREC WLA	O WBRC	MISIN	WWW	WPG	WEAN	WHP	WLRW	WMAT.	WCAO
KOIL KFH KFJ	KMOX KTRH	W DA I	KVI .	WABC WPG WTAR	WDBJ	WKRC	WWNC	WXYZ	WBCM
KFPY KHJ KFR	C	IL I DA		WDOD KSCJ WIBW	WREC	WLAC	WBRC	WFBM	WCCO
8:15-8:30 Radiotron Varieti	es			KSCJ	WMT	KMBC	WDAY	WNAX	KOIL
WEAR WEEL WIA	R. WTAG	WCSH	WRC	WIBW	KFJF	KRLD	KTRH	KLZ	KOL
WGY WBEN WCA	E WTAM	WWJ	WSAI	CFRB					
	WHO	wow	W DAF	11:45-12:00 I	ittle Jack	k Little	T7/T1 4 3 5	TZCD	WOC
WTMJ WRVA WJA	X WIOD WSMB	WFLA	WSUN	WEAF	WILL	WELL	WIAM	Mgb	WOC KOA
WSM WMC WSB	KSL .	WJDX KGO	KPRC KGW	WEAF WHO WGY	WIRO	WOW.	KPRC	MIUD	TOT
WOAI WKY KOA KOMO KHQ KTA	R KFSD	LGO.	<b>M</b> OM	12.30,1.00 D.	idy Valla	a and his	Orchast	'' IOD	
8:30-9:00 The Silver Flute	T INTOD			12:30-1:00 Re WEAF	WTIC	WRC	WBEN	WTAM	KSD
WEAF WEEL WTA	G WCSH	WRC	WFI	WMC	WSB	KPRC	KOA		
			г 95						

#### NOTICE OF COPYRIGHT

The method of logging by wave-lengths or frequencies was devised by The Radex Press in 1924 and has been copyrighted and recopyrighted each year since that time. The arrangement of stations in groups by frequencies or wave-lengths with dial readings in connection therewith is fully covered by our copyright and all infringers will be vigorously prosecuted.

#### KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: \* Verifies receptions 2c; sends station stam 10c; † Verifies 2c; no stamp; ¢ Sends stamp but does not verify otherwise; ‡ Does not verify; § Did not reply. Third column shows night power in watts. Fourth column symbols: D, daytime only; S, Sunday only; Stations dividing time have same small figures; X means station has been granted permit to increase power; + means station has greater power during day; CP indicates station has construction permit only; Some Cuban and Mexican stations have odd frequencies; Correct kilocycles shown in small figures; N means NBC chain; C means Columbia chain; Z has been granted permit to change frequency; Y given permit to move to another city. Dn —This daylight station may use evening hours under certain conditions. Dashes (\_\_) have no meaning.

#### 540 kilocycles 555.6 meters

CKX † 500 \_\_\_ Brandon, Manitoba XEY \_\_ 101 547 Merida, Mex.

Manitoba Telephone System Partido Socialista Surt

#### 550 kilocycles 545.1 meters

CMCJ		250		Havana, Cuba
KFDY	Ť	500	1+ 2+	Brookings, S. D.
KFUO	*	500	2÷	St. Louis, Mo.
KFYR	t	1000	1+N	Bismarck, N. D.
KOAC	Ť	1000		Corvallis, Ore.
KSD	t	500	2N	St. Louis, Mo.
WGR	*	1000	С	Buffalo, N. Y.
WKRC	t	1000	С	Cincinnati, Ohio

Rafael Rodriguez
S. D. State College
Concordia Theological Seminary
Meyer Broadcasting Co.
State Agricultural College
Pulitzer Publishing Co.
Buffalo Broadcasting Co.
WKRC Incorporated

#### 560 kilocycles 535.4 meters

KFDM	*	500	$\mathbf{x}$ +	Beaumont, Texas
KLZ	*	1000	C .	Denver, Colo.
KTAB	*	1000		San Francisco, Cal.
WFI	*	500	1N	Philadelphia, Pa.
WIBO	*	1000	3+N	Chicago, Ill.
WLIT	Ť	500	1N	Philadelphia, Pa.
WNOX	*	1000	$\mathbf{x}$ +	Knoxville, Tenn
WPCC	*	500	3S	Chicago, Ill.
WOAM	*	1000	С	Miami, Fla.

Magnolia Petroleum Co. Reynolds Radio Co., Inc. Associated Broadcasters Strawbridge & Clothier Nelson Bros. Bond & Mortgage Co. Lit Brothers Sterchi Bros. North Shore Congregational Church Miami Broadcasting Co.

#### 570 kilocycles 526.0 meters

KGKO KMTR KXA WEAO WKBN WMAC WMCA WNAX WNYC WSYNC	*** † * * † -	250 500 750 500 250 500 1000 500 250	+ 1C 2 3 C 3 2	Wichita Falls, Texas Los Angeles, Cal. Seattle, Wash. Columbus, Ohio Youngstown, Ohio Syracuse, N. Y. New York City Yankton, S. D. New York City Syracuse, N. Y.
WWNC	•	1000	ć	Asheville, N. C.

Wichita Falls Broadcasting Co.
KMTR Radio Corp.
American Radio Tel. Co.
Ohio State University
W. P. Williamson, Jr.
Clive B. Meredith
Knickerbocker Broadcasting Co., Inc.
House of Gurney, Inc.
Dept. of Plants and Structures
Clive B. Meredith
Citizens Broadcasting Co., Inc.

### 580 kilocycles 516.9 meters

CFCL		500	<b>3</b> S	Toronto, Ont.
CKCL	*	500	3	Toronto, Ont.
CKNC	*	500	3	Toronto, Ont.
CKUA	t	500	4	Edmonton, Alta.
KGFX		200	D	Pierre, S. D.
KSAC	#	500	2+	Manhattan, Kans.
WIBW	*	1000	2+C	Topeka, Kansas
WOBU	*	250	1	Charleston, W. Va.
WSAZ	*	250	1	Huntington, W. Va.
WTAG	•	250	N	Worcester, Mass.

Dominion Battery Co.
The Dominion Battery Co.
Canadian National Carbon Co., Ltd.
University of Alberta
Dana McNeil
State Agricultural College
Topeka Broadcasting Assn., Inc.
WOBU, Inc.
WOBU, Inc.
Telegram Publishing Co.

F00 1 11 1 F00 5		
590 kilocycles 508.2 meters		KCYS.
CMW         -         700         588         Havana, Cuba           KHQ         -         1000         +N         Spokane, Wash.           WCAJ         *         500         1         Lincoln, Nebr.           WEEI         †         1000         N         Boston, Mass.           WKZO         *         1000         DY         Berrien Springs, Mich.           WOW         *         1000         IN         Omaha, Nebr.           XEZ         *         500         588         Mexico City	Columbus Commercial & Radio Co. Louis Wasmer, Inc. Nebraska Wesleyan University Edison Elec. Illuminating Co. WKZO, Inc. Woodmen of the World Gonzales Zamacona y Cia.	670  MTRS.  447.5  DIAL
600 kilocycles 499.7 meters		<del></del>
CJRM † 500 4 Moose Jaw, Sask. CJRW - 500 4 Fleming, Sask. CNRO † 500 3 Ottawa, Ont. KFSD * 500 +N San Diego, Cal. WCAC † 250 2+ Storrs, Conn. WCAC * 250 C Baltimore, Md. WICC * 250 2D Bridgeport, Conn. WMT * 500 C Waterloo, lowa WREC * 500 +C Memphis, Tenn.	Jas. Richardson & Sons, Ltd. Jas. Richardson & Sons, Ltd. Canadian National Railways Airfan Radio Corp. Conn. Agricultural College Monumental Radio, Inc. Bridgeport Broadcasting Station, Inc. Waterloo Broadcasting Co. WREC, Inc.	
610 kilocycles 491.5 meters		
KFRC * 1000 C San Francisco, Cal. WDAF * 1000 N Kansas City, Mo. WFAN * 500 2C Philadelphia, Pa. WJAY † 500 D Cleveland, Ohio	Don Lee, Inc. Kansas City Star Co. Keystone Broadcasting Co., Inc. Gimbel Bros. Co. Cleveland Radio Broadcasting Corp.	
620 kilocycles 483.6 meters		
KGW       *       1000       +N       Portland, Ore.         KTAR       *       500       +N       Phoenix, Arizona         WFLA       *       1000       1+N       Clearwater, Fla.         WLBZ       *       500       C       Bangor, Maine         WSUN       *       1000       1+N       St. Petersburg, Fla.         WTMJ       *       1000       +N       Milwaukee, Wis.	Oregonian Publishing Co. KTAR Broadcasting Co. Chamber of Commerce Maine Broadcasting Co., Inc. Chamber of Commerce Milwaukee Journal	Ct.
630 kilocycles 475.9 meters		TC
CFCT * 500 Victoria, B. C. CJGX 500 Yorkton, Sask. CNRA * 500 Moncton, N. B. KFRU * 500 1 Columbia, Mo. WGBF † 500 1 Evansville, Ind. WMAL * 250 +-C Washington, D. C. WOS * 500 1 Jefferson City, Mo. XET † 500 Monterrey, Mex.	Victoria Broadcasting Association Winnipeg Grain Exchange Canaddan National Railways Stephens College Evansville on the Air, Inc. M. A. Leese State Marketing Bureau Mexico Music Co., S. A.	CUT OUT ON DOTTED LINES
640 kilocycles 468.5 meters		ם בו
CHRC - 100 645 Quebec, Que.  CMHJ - 40 645 Cienfuegos, Cuba  KFI - 5000 NX Los Angeles, Cal.  WAIU * 500 C Dn Columbus, Ohio  WOI * 5000 D Ames, Iowa  XFG - 2000 638 Mexico City	E. Fontaine Arturo Hernandez Earle C. Anthony, Inc. American Insurance Union State College of Agriculture Secretaria de Guerra y Marina	NES
650 kilocycles 461.3 meters		
KPCB _ 100 Dn Seattle, Wash. WSM * 5000 N Nashville, Tenn.	Queen City Broadcasting Co. National Life & Accident Ins. Co.	
660 kilocycles 454.3 meters [		
CHWK † 50 Chilliwack, B. C. CMCO 225 Havana, Cuba WAAW * 500 D Omaha, Neb. WEAF † 50000 N New York City WTIC * 5000 N Hartford, Conn.	Chilliwack Brdcstg. Co., Ltd. J. L. Stowers Omaha Grain Exchange National Broadcasting Co., Inc. Travelers Broadcasting Service, Inc.	
670 kilocycles 447.5 meters	· · · · · · · · · · · · · · · · · · ·	
WMAQ * 5000 C Chicago, Ill. XER 101 674 Mexico City	WMAQ, Inc Armida y Cia.	

680 kilocycles 440.9 meters	
KFEQ       *       2500       D       St. Joseph, Mo.         KPO       †       5000       N       San Francisco, Cal.         WPTF       *       1000       N Dn       Raleigh, N. C.         XETF       -       500       -       Veracruz, Mex.         8WMC       -       500       682       St. Johns, N. F.	Scroggin & Co., Bank Hale Bros. & The Chronicle Durham Life Insurance Co. Manuel Angel Fernandez & Cia. Wesley United Church
690 kilocycles 434.5 meters	
CFAC          500         1         Calgary, Alta.           CFCN          500         1         Calgary, Alta.           CHCA         *         500         1         Calgary, Alta.           CJCJ         *         500         1         Calgary, Alta.           CKGW         *         5000         2N         Toronto, Ont.           CNRC         -         5000         1         Calgary, Alta.           CPRY         -         5000         2         Toronto, Ont.           NAA         -         1000         -         Arlington, Va.           VAS         †         10000         685         Glace Bay, N. S.	The Calgary Herald Western Broadcasting Co. The Western Farmer Albertan Publishing Co., Ltd. Gooderham & Worts, Ltd. Canadian National Railways Canadian Pacific Railways U. S. Navy Canadian Marconi Co.
700 kilocycles 428.3 meters	
WLW * 50000 N Cincinnati, Ohio	Crosley Radio Corp.
710 kilocycles 422.3 meters	
KMPC         *         500         Dn         Los Angeles, Cal.           WOR         *         5000         Newark, N. J.           XEN         †         1000         711         Mexico City	R. S. MacMillan Bamberger Broadcasting Service, Inc. Cia. Civil de Inversiones
720 kilocycles 416.4 meters	
WGN † 25000 N Chicago, III.	Chicago Tribune
730 kilocycles 410.7 meters	
CHLS - 500 1 Vancouver, B. C. CHYC * 5000 2S Montreal, Que. CKAC * 5000 2C Montreal, Que. CKCD - 50 1 Vancouver, B. C. CKFC † 50 1 Vancouver, B. C. CKMO - 50 1 Vancouver, B. C. CKMX † 100 1 Vancouver, B. C. CKWX † 100 1 Vancouver, B. C. CMK - 3000 1 Vancouver, B. C. CMK - 3000 1 Tampico, Mex.	W. G. Hassell Northern Electric Co., Ltd. La Presse Publishing Co., Ltd. Vancouver Daily Province United Church of Canada Sprott-Shaw Radio Co. A. Holstead & Wm. Hanlon Cuban Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.
740 kilocycles 405.2 meters	
KMMJ * 1000 Dn Clay Center, Neb. WSB 5000 N Atlanta, Ga.	The M. M. Johnson Co. Atlanta Journal Co.
750 kilocycles 399.8 meters	
TIC - 50 San Jose, Costa Rica WJR † 5000 N Detroit, Mich.	WJR, The Goodwill Station, Inc.
760 kilocycles 394.5 meters	
KVI       *       1000       C Dn       Tacoma, Wash.         WBAL       *       1000       N       Baltimore, Md.         WEW       *       1000       D       St. Louis, Mo.         WJZ       †       30000       N       New York City	Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.
770 kilocycles 389.4 meters	
KFAB * 5000 1N Lincoln, Nebr. WBBM * 25000 1C Chicago, III. WJBT 25000 1S Chicago, III.	KFAB Broadcasting Co. The Atlas Co., Inc. The Atlas Co., Inc.
780 kilocycles 384.4 meters	
CKY - 5000 3 Winnipeg, Manitoba CNRW - 5000 3 Winnipeg, Manitoba KELW - 500 2 Burbank, Cal. KTM * 500 2+ Los Angeles, Cal. WEAN * 250 +C Providence, R. I.	Manitoba Telephone System Canadian National Railways Union Bank & Trust Co. Pickwick Broadcasting Corp. Shepard Broadcasting Service, Inc.

INDEX BY FREQUENCIES A	AND DIAL NUMBERS	
WISJ * 250 + Madison, Wis.  WMC 500 +N Memphis, Tenn.  WPOR 500 1 Norfolk, Va.  WTAR * 500 1C Norfolk, Va.  XEW † 5000 Mexico City	Wisconsin State Journal Bdcsg. Co. Memphis Commercial-Appeal, Inc. WTAR Radio Corp. WTAR Radio Corp. Mexico Music Co.	
790 kilocycles 379.5 meters		
CMBS         -         150          Havana, Cuba           CMHC         -         500          Tuinucu, Cuba           KGO         †         7500         N         San Francisco, Cal.           WGY         †         50000         N         Schenectady, N. Y.	E. Artalejo Frank H. Jones National Broadcasting Co., Inc. General Electric Co.	
800 kilocycles 374.8 meters		KCYS.
WBAP         †         10000         IXN         Fort Worth, Texas           WFAA         ¢         50000         1N         Dallas, Texas           XEU         -         101          Veracruz, Mex.           XFC          350         805         Aguascalientes, Mex.	Carter Publications, Inc. News & Journal Fernando Pazos Gobierno del Estado de Aguascalientes	880 MTRS. 340.7
810 kilocycles 370.2 meters		DIAL
WCCO * 7500 C Minneapolis, Minn. WPCH * 500 D New York City	Northwestern Broadcasting, Inc. Eastern Broadcasters, Inc.	ī
820 kilocycles 365.6 meters		
WHAS † 10000 N Louisville, Ky. XFI 1000 818 Mexico City	Courier-Journal & Times Sria. de Ind., Commercio y Trabajo	
830 kilocycles 361.2 meters		
CMGA - 100       834       Colon, Cuba         KOA † 12500       N       Denver, Colo.         WHDH - 1000       D       Boston, Mass.         WRUF * 5000       Dn       Gainesville, Fla.	Leopoldo V. Figueros National Broadcasting Co., Inc. Matheson Radio Co., Inc. University of Florida	
840 kilocycles 356.9 meters		
CFCA † 500 1 Toronto, Ont. CHCT - 1000 - Red Deer, Alta. CKLC † 1000 2 Red Deer, Alta. CMC * 500 845 Havana, Cuba CNRD † 1000 2 Red Deer, Alta. CNRT * 500 1 Toronto, Ont. XETY - 2000 - Mexico City	Star Publishing & Ptg. Co. G. F. Tull & Ardern, Ltd. Alberta Pacific Grain Co., Ltd. Cuban Telephone Co. Canadian National Railways Canadian National Railways Juan Gutierrez, Jr.	C
850 kilocycles 352.7 meters		뎕
KWKH * 10000 1       Shreveport, La.         WWL * 5000 1       New Orleans, La.         XEJ * 101 857       Juarez, Mex.	Hello World Broadcasting Corp. Loyola University Juan Buttner	OUT O
860 kilocycles 348.6 meters		Z
CMJE       -       5       856       Camaguey, Cuba         KMO       -       5000       +       Dn       Tacoma, Wash.         WBC       *       5000       XC       New York City         WBO       -       5000        New York City         WHB       *       500        New York City, Mo.         XFX        500        Mexico City, Mex.	Manuel Fernandez KMO, Inc. Atlantic Broadcasting Corp. Atlantic Broadcasting Corp. WHB Broadcasting Co. Secretaria de Educacion Publica	CUT OUT ON DOTTED LINES
870 kilocycles 344.6 meters		ES
CMHH 10 Cifuentes, Cuba WENR 50000 1N Chicago, III. WLS † 50000 1XN Chicago, III.	Antonio Quintero National Broadcasting Co., Inc. Agricultural Broadcasting Co.	İ
880 kilocycles 340.7 meters	,	1
CHML * 50 4 Hamilton, Ont. CJCB * 50 Sydney, N. S. CKCI	Maple Leaf Radio Co., Ltd. N. Nathanson Le "Soleil," Ltd. G. A. Vandry Canadian National Railways Midwestern Radio Corp. Tribune Publishing Co. Pillar of Fire, Inc. Mississippi Broadcasting Co., Inc. Scranton Broadcasters, Inc. Scranton Times University of Iowa	

890 kilocycles 336.9 meters	
CFBO * 500 St. John, N. B.	C. A. Munro, Ltd
CKCO I 100 Ottawa, Ont.	C. A. Munro, Ltd. Dr. G. M. Geldert
CKPR 50 Port Arthur, Ont.	Dougall Motor Car Corp.
CMCF † 250 Havana, Cuba CMX * 500 Havana, Cuba KFNF 500 2+ Shenandoah, Iowa	Casa Karman Francisco Lavin
VENE 500 21 Shanandach Jowe	Henry Field Co.
	Church of the Nazarene
KUSD * 500 2+ Vermillion, S. D. WGST * 250 1+C Atlanta, Ga. WILL * 250 2+ Urbana, III. WJAR * 250 +N Providence, R. I.	Henry Field Co. Church of the Nazarene University of South Dakota Georgia School of Technology
WGST * 250 1+C Atlanta, Ga. WILL * 250 2+ Urbana, Ill.	Georgia School of Technology University of Illinois
WJAR * 250 +N Providence, R. I. WKAQ * 500 San Juan, P. R. WMAZ † 250 1+ Macon, Ga.	University of Illinois The Outlet Co.
WJAR * 250 +N Providence, R. I. WKAQ * 500 San Juan, P. R. WMAZ † 250 1+ Macon, Ga.	Radio Corp. of Porto Rico
WMAZ † 250 1+ Macon, Ga. WMMN * 250 + Fairmont, W. Va.	Junior Chamber of Commerce
WMMN * 250 + Fairmont, W. Va. XES † 500 Tampico, Mexico	Holt-Rowe Broadcasting Co. Difusora Portena XES
900 kilocycles 333.1 meters	
KGRU † 500 Ketchikan Alaska	Alaska Radio & Service Co.
KHJ * 1000 C Los Angeles, Cal. KSEI * 250 Pocatello, Idaho WBEN * 1000 N Buffalo, N. Y.	Don Lee, Inc.
KSĔI * 250 Pocatello, Idaho WBEN * 1000 N Buffalo, N. Y.	KSEI Broadcasting Association, Inc.
WIAX * 1000 N Jacksonville, Fla	Buffalo Evening News City of Jacksonville WKY Radiophone Co. Wisconsin Dept. of Markets
WKY * 1000 N Oklahoma City	WKY Radiophone Co.
WLBL * 2000 D Stevens Point, Wis.	Wisconsin Dept. of Markets
910 kilocycles 329.6 meters	•
CFOC - 500 1 Saskatoon, Sask.	The Fleetric Short I to 1
CHNS # 500 3 Halifax N.S.	The Electric Shop, Ltd. Halifax Herald, Ltd.
CJGC * 5000 2 London, Ont.	Free Press Printing Co. I td
CNRH 500 3 Halifax N.S.	Canadian National Railways Canadian National Railways Canadian National Railways
CNRL * 500 2 London, Ont. CNRS _ 500 1 Saskatoon, Sask.	Canadian National Railways
•	Canadian National Railways
920 kilocycles 325.9 meters	
CMHD 250 Caibarien, Cuba	Manuel A. Alverez iti Republic of Haiti Eugene P. O'Fallon, Inc.
LILIZ # 1000 Dont at Drings Us	iti Republic of Haiti
KFEL † 500 1 Denver, Colo.  KFXF * 500 1 Denver, Colo.  KOMO † 1000 N Seattle, Wash.  KPRC * 1000 +N Houston, Texas  WAAF 500 D Chicago, Ill.	Eugene P. O'Fallon, Inc.
KFXF * 500 1 Denver, Colo. KOMO † 1000 N Seattle, Wash.	Fisher's Blend Station Iro
KOMO † 1000 N Seattle, Wash. KPRC * 1000 +N Houston, Texas WAAF _ 500 D Chicago, III.	Houston Printing Co.
WAAF 500 D Chicago, Ill.	Colorado Radio Corp. Colorado Radio Corp. Fisher's Blend Station, Ir.c. Houston Printing Co. Drovers Journal Publishing Co. Babson Statistical Organization, Inc. The Detroit Nave
WBSO 500 D Needham, Mass. WWJ † 1000 N Detroit, Mich.	The Detroit, News
XFF 250 915 Chihuahua, Mex.	Gobierno del Estado de Chihuahua
020 1-11-over100 222 4 most one	
930 kilocycles 322.4 meters	
CJCA * 500 4 Edmonton, Alta. CFRC - 500 2 Kingston, Ont. KFWI † 500 1 San Francisco, Cal.	The Edmonton Journal, Ltd. Queen's University
KFWI † 500 1 San Francisco, Cal.	Radio Entertainments, Inc.
KGBZ 500 2+ York, Nebr.	Radio Entertainments, Inc. Dr. George R. Miller May Seed & Nursery Co.
KMA * 500 2+ Shenandoah, Iowa KROW * 500 1+X Oakland, Cal.	May Seed & Nursery Co.
KROW * 500 1+X Oakland, Cal. WBRC * 500 +C Birmingham, Ala.	Educational Broadcasting Corp.
WBRC * 500 +C Birmingham, Ala. WDBJ * 250 +C Roanoke, Va. WIBG * 50 S Elkins Park, Pa.	Richardson-Wayland Elec. Corp.
WBRC * 500 +C Birmingham, Ala. WDBJ * 250 +C Roanoke, Va. WIBG * 50 S Elkins Park, Pa.	Birmingham Broadcasting Co., Inc. Richardson-Wayland Elec. Corp. St. Pauls P. E. Church
940 kilocycles 319.0 meters	
KGU † 1000 Honolulu, Hawaii	Marion A. Mulrony
KOIN * 1000 C Portland, Ore.	KOIN, Inc.
WAAT 300 D Jersey City, N. J. WCSH * 1000 N Portland, Maine WDAY * 1000 N Fargo, N. D.	Bremer Broadcasting Corn.
WCSH * 1000 N Portland, Maine WDAY * 1000 N Fargo, N. D.	Congress Square Hotel Co.
WFIW * 1000 N Fargo, N. D. WFIW * 1000 Hopkinsville, Kv.	Congress Square Hotel Co. WDAY, Inc. WFIW, Inc.
WHA 750 D+ Madison, Wis.	University of Wisconsin
XEO 5000 Mexico City	National Revoluncionario Party
950 kilocycles 315.6 meters	
CMBC 150 955 Havana, Cuba	Domingo Fernandez
CMBD 150 955 Havana, Cuba	
KFWB * 1000 Hollywood Cal	Warner Bros. Broadcasting Corp.
KGHL 1000 Billings, Mont. KMBC * 1000 C Kansas City, Mo.	Warner Bros. Broadcasting Corp. Northwestern Auto Supply Co., Inc. Midland Broadcasting Co., Inc. National Broadcasting Co.
KGHL 1000 Billings, Mont. KMBC * 1000 C Kansas City, Mo. WRC † 500 N Washington, D. C.	National Broadcasting Co., Inc.
,	. www. Divadosting Co., Inc.

•	AD DIAL NOVIBERS
960 kilocycles 312.3 meters	
CFCY * 250 1 Charlottetown, P. E. I. CFRB * 5000 2C Toronto, Ont. CHCK 100 1 Charlottetown, P. E. I. CHWC * 5000 3 Paging South	The Island Radio Co. Rogers-Majestic Corp., Ltd. W. E. Burke
CJBR 500 3 Regina, Sask.	R. H. Williams & Sons. Ltd. Cooperative Wheat Producers, Ltd.
CKCK † 500 3 Regina, Sask. CNRR - 500 3 Regina, Sask. CNRX * 5000 2 Toronto, Ont.	Canadian National Railways
CNRK	Canadian National Railways International Broadcasting Co.
	international producting co.
970 kilocycles 309.1 meters	
CMGF _ 50 977 Matanzas, Cuba KJR * 5000 _ Seattle, Wash. WCFL _ 1500 N Dn Chicago, Ill.	Bernabe R. de la Torre Northwest Broadcasting System, Inc.
WCFL 1500 N Dn Chicago, III.	Chicago Federation of Labor
980 kilocycles 305.9 meters	
KDKA _ 50000 N Pittsburgh, Pa. XEFE _ 101 _ Laredo, Mex.	Westinghouse Elec. & Mfg. Co. Rafael T. Carranza
990 kilocycles 302.8 meters	KCYS.
WBZ-A † 15000 1N Springfield-Boston XEK 101 Mexico City	Westinghouse Elec. & Mfg. Co. Arturo Martinez  MTRS.
1000 kilocycles 299.8 meters [	285.5
KFVD * 250 Dn Culver City, Cal.	Los Angeles Broadcasting Co. DIAL
WOC * 5000 1N Davenport, Iowa	Central Broadcasting Co. Central Broadcasting Co.
AEI * 101 Morelia, Mex.	Carlos Gutierrez M.
1010 kilocycles 296.8 meters	
CFLC * 50 3 Prescott, Ont. CKCR 50 3 Waterloo, Ont.	Radio Association John Patterson
CKIC - 50 Wolfville, N. S. CMBW 150 Havana, Cuba	Acadia Academy
CMBZ 150 Havana, Cuba	M. Alvarez Manuel y G. Salas "El Mundo"
CMCX 250 Havana, Cuba KGGF † 500 2 S. Coffeyville, Okla. KOW * 500 San Jose Cal.	Powell & Platz
KQW * 500 San Jose, Cal. WHN * 250 1 New York City	Pacific Agricultural Foundation, Ltd. Marcus Loew Booking Agency
WIS * 500 + Columbia, S. C. WNAD * 500 2 Norman, Okla.	South Carolina Broadcasting Co., Inc.
WPAP * 250 1 New York City	University of Oklahoma Palisades Amusement Park
WQAO 250 1 New York City WRNY 250 1 New York City	Calvary Baptist Church Aviation Radio Station, Inc.
XEQ 1000 1015 Juarez, Mex.	Feliciano Lopez Islas
1020 kilocycles 293.9 meters	TÜÜ
KFKX * 10000 1N Chicago, Ill.	Westinghouse Elec. & Mfg. Co.
KYW * 10000 1N Chicago, Ill. WRAX † 250 D Philadelphia, Pa.	Westinghouse Elec. & Mfg. Co. WRAX Broadcasting Co.
1030 kilocycles 291.1 meters	Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co. WRAX Broadcasting Co.  Canadian Marconi Co. M. P. Martinez Canadian National Railways El Buen Tono, S. A. Ciro Molina
CFCF 1650 N Montreal, Que. CMKC * 150 1034 Santiago de Cuba	Canadian Marconi Co.  M. P. Martinez
CNRV † 500 Vancouver, B. C.	Canadian National Railways
XEB † 1000 Mexico City, Mex. XEV 101 1034 Puebla, Mex.	El Buen Tono, S. A. Ciro Molina
1040 kilocycles 288.3 meters	
KRLD * 10000 1C Dallas, Texas KTHS † 10000 1N Hot Springs, Ark.	KRLD Radio Corp. Chamber of Commerce
WKAR * 1000 D East Lansing, Mich.	Michigan State College
	Buffalo Broadcasting Corp.
1050 kilocycles 285.5 meters	
KFKB * 5000 Dn Milford, Kansas KNX * 5000 X Hollywood, Cal.	Farmers & Bankers Life Insurance Co. Western Broadcast Co.
, r 41 T	

1060 kilocycl	loo	282.8 meters	
KWJJ 500	Dn	Portland, Ore.	KWJJ Broadcast Co., Inc.
WBAL * 10000 WJAG * 1000 WTIC * 50000	IN Dn IN	Baltimore, Md. Norfolk, Nebr. Hartford, Conn.	Consolidated Gas Elec. & Pwr. Co. Norfolk Daily News Travelers Broadcasting Service Corp.
1070 kilocycl	les	280.2 meters [	
CMBG 150 CMBT 150 CMCB 150 KJBS * 100 WCAZ * 50 WDZ † 100 WTAM * 50000	 D D D D N	Havana, Cuba Havana, Cuba Havana, Cuba San Francisco, Cal. Carthage, III. Tuscola, III. Cleveland, Ohio	Francisco Garrigo E. Perera M. D. Autran Julius Brunton & Sons Co. Superior Broadcasting Service James L. Bush National Broadcasting Co., Inc.
1080 kilocycl	les	277.6 meters	
WBT * 5000 WCBD * 5000 WMBI * 5000 XEH 5000	C 1 Dn 1 Dn	Charlotte, N. C. Zion, III. Chicago, III. Monterrey, Mex.	Station WBT, Inc. Wilbur Glenn Voliva Moody Bible Institute Tarnava y Cia
1090 kilocycl	les	275.1 meters	
CMAA 30 CMGI 30 KMOX * 50000 XEL 10	1094 C 1091	Guanajay, Cuba Matanzas, Cuba St. Louis, Mo. Saltillo, Mex.	Antonio Sarasola Armando Lizama Voice of St. Louis, Inc. Antonio Garza Castro
1100 kilocycl	les	272.6 meters [	
CMKD - 20 KGDM * 250 WLWL * 5000 WPG * 5000	DX 1 1C	Santiago, Cuba Stockton, Cal. New York City Atlantic City ,N. J.	Jose Caluff E. F. Peffer Missionary Society of St. Paul WPG Broadcasting Corp.
1110 kilocycl	es	270.1 meters [	
CMHI 15 KSOO * 2000 WRVA * 5000	Dn N	Santa Clara, Cuba Sioux Falls, S. D. Richmond, Va.	Laviz y Paz Sioux Falls Broadcasting Assn., Inc. Larus & Bros. Co., Inc.
1120 kilocycl	es	267.7 meters	
CFJC 100 CHCS *- 100 CJOC + 50 CKOC * 50 KFIO † 100 KFSG *- 500 KMCS *- 500 KRSC † 50 KTRH *- 500 WDBO *- 500 WDEL † 250 WHAD *- 250 WTAW *- 500	4  4 D 3 3 3 Y D 2 C +C +X 1 1 1 2	Kamloops, B. C. Hamilton, Ont. Summerside, P. E. I. Lethbridge, Alta. Hamilton, Ont. Spokane, Wash. Los Angeles, Cal. Inglewood, Cal. Seattle, Wash. Houston, Texas Orlando, Fla. Wilmington, Del. Milwaukee, Wis. Milwaukee, Wis. College Station, Texas	N. S. Dalgleish & Sons The Hamilton Spectator R. T. Holman, Ltd. Harold R. Carson Wentworth Radio & Auto Sply. Co., Ltd Spokane Broadcasting Corp. Echo Park Evang. Assn. Dalton's, Inc. Radio Sales Corp. Rice Hotel Orlando Broadcasting Co., Inc. WDEL, Inc. Marquette University Evening Wisconsin Co. Agricultural & Mech. College
1130 kilocycl	les	265.3 meters [	
KSL * 5000 WJJD * 20000 WOV - 1000 XEE * 105	N C Dn D	Salt Lake City Mooseheart, Ill. New York City Oaxaca, Mex.	Radio Service Corp. of Utah Loyal Order of Moose International Broadcasting Corp. Alfonso Zorilla B.
1140 kilocyc	les	263.0 meters [	
CMGD - 5 KVOO * 5000 WAPI * 5000 XETA - 500	ÎN IN	Matanzas, Cuba Tulsa, Okla. Birmingham, Ala. Mexico City	Rafael Rodriguez Southwestern Sales Corp. Alabama Polytechnic Institute Manuel Espinosa Tagle
1150 kilocycl	les	260.7 meters [	·
CMCQ 600 CMHA 200 CMQ † 250 WHAM • 5000	1154 N	Havana, Cuba Cienfuegos, Cuba Havana, Cuba Rochester, N. Y.	Andres Martinez Fox Bross Co. Jose Fernandez Strombrrg-Carlson Tel. Mfg. Co.

INDE	X BY FREQUENCIES	AND DIAL NUMBERS	•
1160 kilocycle	s 258.5 meters		
•	IC Ft. Wayne, Ind.	Main Auto Supply Co. West Virginia Broadcasting Corp.	
1170 kilocycle	s 256.3 meters		
CMKG · 30 1	176 Santiago de Cuba On Muscatine, Iowa	Ricardo Arnoldo Norman Baker Universal Broadcasting Co.	
1180 kilocycle	s 254.1 meters		
CMGB - 7.5 1 KEX * 5000 2 KOB * 20000 2 WDGY * 1000 1 WGBS 1 500	1185 Matanzas, Cuba Portland, Ore.	Jose Anorga Western Broadcasting Co. College of Agriculture & Mech. Arts Dr. George W. Young General Broadcasting System, Inc. Wm. Hood Dunwoody Industrial Inst.	
1190 kilocycle	s 252.0 meters		:
	N San Antonio, Texas	Southern Equipment Co.	
1200 kilocycle	s 249.9 meters	,	ı
CFCH 50 CMKB 15 KBTM 100 KFJB † 100 KFWF 100 5	North Bay, Ont. Santiago de Cuba Paragould, Ark. Marshalltown, Iowa St. Louis, Mo. Mandan, N. D. Fergus Falls, Minn.	Northern Supplies, Ltd. Melchor Aguero W. J. Beard's Temple of Music Marshall Electric Co., Inc. St. Louis Truth Center, Inc. Nandan Radio Association	
	Huron, S. D.	Jaren Drug Co. Voice of South Dakota	
KGDY - 100 KGEK † 50 9 KGEW † 100 9	Huron, S. D. Yuma, Colo. Fort Morgan, Colo.	Beehler Elec. Equipment Co. City of Fort Morgan Ben S. McGlashan	KCYS.
KGFJ - 100 -	Los Angeles, Cal.	Ben S. McGlashan Berean Bible Class	1210
KGY † 10	Little Rock, Ark. Lacey, Wash. Monroe, La.	St. Martin's College G. C. Liner	MTRS.
KSMR 100 _	Monroe, La. Santa Maria, Cal. Bellingham, Wash.	Santa Maria Radio	247.8
KVOS * 100 _	Bellingham, Wash.	KVOS, Inc. Portable Wireless Tel. Co., Inc.	DIAL
TILADI I 100	Bangor, Maine	Pine Tree Broadcasting Corp.	DIAL
WABZ * 100 1 WBBZ * 100	New Orleans, La.	Samuel D. Reeks C. L. Carrell	
TUCAT + 100	Stockton, Cal. Stockton, Cal. Bangor, Maine New Orleans, La. Ponca City, Okla Rapid City, S. D.	State School of Mines	
WCAX * 100 2 WCLO † 100	Ianesville, Wis.	University of Vermont WCLO Radio Corp.	
WCOD † 100 3 WEPS † 100 7	Harrisburg, Pa.	Keystone Broadcasting Corp.	
WEPS † 100 7 WFBC * 50		Alfred Frank Kleindienst First Baptist Church	
**********	- Cincinnati, Ohio	WFBE, Inc.	
		St. John's Catholic Church St. Norbert's College	
WIBX 100 -	Green Bay, Wis. Utica, N. Y.	WIBX, Inc.	Ω
WIL * 100 5 WJBC * 100 6	5+ St. Louis, Mo. La Salle, Ill.	Missouri Broadcasting Corp. Kaskaskia Broadcasting Co.	17
WJBL + 100 6	Decatur, III.	Commodore Broadcasting, Inc.	0
WJBL † 100 6 WJBW † 100 1 WKJC * 100 3	New Orleans, La. Lancaster, Pa.	Charles C. Carlson, Jr. Kirk, Johnson & Co.	13
WKJC * 100 3 WLAP † 100 - WLBG * 100 -	+C Louisville, Ky.	American Broadcasting Corp. of Ky.	CUT OUT ON DOTTED
WLBG * 100 - WNBO * 100 4	Petersburg, Va.	Robert Allen Gamble John Brownlee Spriggs	Ž
117x1D317 ± 10	Carbondale, Pa.	Home Cut Glass & China Co.	X
WNBX † 10 2	Springfield, Vt.	First Congregational Church	17
WORC * 100 7 WRAF * 100 8	CX Worcester, Mass. La Porte, Ind.	Alfred Frank Kleindienst Chas. Middleton	H
TUDDI A CO	Columbus, Ga.	David Parmer	i e

1210 kilocycles 247.8 meters

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Columbus, Ga. Hammond, Ind.

Guadalajara, Mex. Wingham, Ont.

100

101

WRBL WWAE

XEA 10-BP

CFCO CFNB CJOR CKMC Chatham, Ont. Fredericton, N. B. Sea Island, B. C. 100 100 50 15 ---~--Cobalt, Ont.

Western Ontario "Better Radio" Club James S. Neill & Sons, Ltd. G. C. Chandler R. L. MacAdam

Alberto Palos Sauza Radio & Electric Shop

Hammond-Calumet Broad. Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS								
	+		Metal Shingle & Siding Co.					
CKPC † 25 KDFN † 100		Preston, Ont. Casper, Wyo. Devils Lake, N. D.	Donald Lewis Hathaway KDLR, Inc.					
KDLR † 100 KFOR * 100	<u> </u>	Lincoln, Nebr.	Howard A. Shuman					
KFVS * 100	6	Cape Girardeau, Mo.	Hirsch Battery & Radio Co. J. C. & E. W. Lee					
KFXM † 100	9	San Bernardino, Cal.	J. C. & E. W. Lee Cutler's Radio Brdcstg, Service, Inc.					
KFXM † 100 KGCR † 100 KGMP § 100 KGNO * 100		Watertown, S. D. Elk City, Okla.	Cutler's Radio Brdcstg. Service, Inc. Bryant Radio & Electric Co.					
		Elk City, Okla. Dodge City, Kans.	Dodge City Broadcasting Co. James McClatchy Co.					
KMJ * 100		Fresno, Cal.	James McClatchy Co. Pasadena Presbyterian Church					
KPPC § 50 KWEA * 100	9	Pasadena, Cal. Shreveport, La.	Hello World Broadcasting Corp.					
WALR * 100		Zanesville, Ohio	Hello World Broadcasting Corp. Roy. W. Waller					
WBAX * 100	ī	Wilkes-Barre, Pa.	John H. Stenger, Jr. Grace Covenant Pres. Church					
WBBL † 100 WCBS * 100	25	Richmond, Va.	H. L. Dewing & Chas. Messter					
WCOH * 100	7S 2 3	Springfield, III. Yonkers, N. Y.	H. L. Dewing & Chas. Messter Westchester Broadcasting Corp. Clinton R. White					
WCRW * 100	4 5	Chicago, III. Providence, R. I.	Dutee W. Flint					
WDWF - 100 WEBQ * 100	6	Harrisburg, III.	First Trust & Savings Bank					
WEDC 100	6 4 3	Chicago, Ill.	Emil Denemark, Inc.					
WGBB * 100		Freeport, N. I.	Harry H. Carman Great Southern Land Co., Inc.					
WGCM * 100 WHBF * 100		Gulfport, Miss Rock Island, Ill.	Beardsley Specialty Co.					
WHBU † 100 WIBU * 100		Anderson, Ind. Poynette, Wis. Red Bank, N. J.	Citizens Bank					
WIBU * 100	ā ·	Poynette, Wis.	Wm. C. Forrest Monmouth Broadcasting Co.					
WJBI - 100 WJBU * 100	1	Lewisburg, Pa.	Bucknell University					
WIBY * 50		Lewisburg, Pa. Gadsden, Ala.	Gadsden Broadcasting Co., Inc.					
₩ĴW * 100		Mansfield, Ohio Ithaca, N. Y.	Mansfield Broadcasting Assn.					
WLCI * 50	5	Ithaca, N. I. Providence, R. I.	Lutheran Assn. of Ithaca The Lincoln Studios, Inc.					
WLSI 100 WMBG * 100	7 3	Providence, R. I. Richmond, Va. Jamaica, N. Y.	Havens & Martin, Inc.					
WMRJ * 100	3	Jamaica, N. Y.	Peter J. Prinz A. E. Newton					
WOCL * 50 WOMT * 100		lamestown, N. I.	Francis M. Kadow					
WPAW * 100	5	Pawtucket, R. I.	Shartenburg & Robinson Co.					
WODX * 100		Thomasville, Ga.	Stevens Luke J. Pat. Scully					
WRBQ † 100° WSBC * 100°	+	Greenville, Miss. Chicago, Ill.	World Battery Co., Inc.					
WSEN † 100	***	Columbus, Ohio	Columbus Broadcasting Co.					
WSIX * 100		Springfield, Tenn. Gastonia, N. C.	638 Tire & Vulcanizing Co.					
WSOC † 100								
WSOC † 100		Springfield III	WTAX. Inc.					
WTAX 1 100 XEX 500	2	Springfield, Ill. Mexico City	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.					
WTAX † 100 XEX 500		Mexico City	WTAX, Inc. Excelsior, Cia Editorial S. A.					
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WTAX † 100 XEX - 500  1220 kilocyc CMCA - 250 KFKU * 500 WCAD * 500 WCAD * 500 WCAB * 1000 WREN * 1000  1230 kilocyc KFOD - 100 KGGM † 250 KYA * 1000 WBIS * 1000 WBIS * 1000 WFBM * 1000 WPSC * 500 WSBT † 500  1240 kilocyc CMAB - 20 CMGH - 60	les 1225 1225 1 + D N C IN 1es 1226 11 1 + D 1249 1249	Springheid, III. Mexico City  245.8 meters  Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kans.  243.8 meters  Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. Boston, Mass. Indianapolis, Ind. Boston, Mass. State College, Pa. South Bend, Ind.  241.8 meters  Pinar del Rio, Cuba Matanzas, Cuba	M. Cruz Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Co. Pacific Broadcasting Corp. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc. Pennsylvania State College South Bend Tribune  Francisco Martinez Alberto Alvarez					
WTAX † 100 XEX - 500  1220 kilocyc CMCA - 150 CMCN - 250 KFKU * 500 WCAD * 500 WCAD * 1000 WCAD * 1000 WREN * 1000  1230 kilocyc KFOD - 100 KGGM † 250 KYA * 1000 WFBM * 1000 WFBM * 1000 WFBM * 1000 WFSC * 500 WNAC * 500 WSBT † 500  1240 kilocyc CMAB - 20 CMGH - 60 CMKE 250	les 1225 1225 1 + D N C IN 1es 1C 2C D 1 1es 1249 1249 1249 1249	Springheid, III. Mexico City  245.8 meters  Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kans.  243.8 meters  Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. Boston, Mass. Indianapolis, Ind. Boston, Mass. State College, Pa. South Bend, Ind.  241.8 meters  Pinar del Rio, Cuba Matanzas, Cuba Santiago de Cuba	M. Cruz Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Co. Pacific Broadcasting Corp. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc. Pennsylvania State College South Bend Tribune  Francisco Martinez Alberto Alvarez Edmundo Recamier S. A. T. Broadcast Co.					
WTAX † 100 XEX - 500  1220 kilocyc CMCA - 150 CMCN - 250 KFKU * 500 WCAD * 500 WCAD * 1000 WFEN * 1000  1230 kilocyc KFQD - 100 KGGM † 250 KYA * 1000 WFBM * 1000	les 1225 1225 12	Springheid, III. Mexico City  245.8 meters  Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kans.  243.8 meters  Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. Boston, Mass. Indianapolls, Ind. Boston, Mass. State College, Pa. South Bend, Ind.  241.8 meters  Pinar del Rio, Cuba Matanzas, Cuba Santiago de Cuba Ft. Worth. Texas	M. Cruz Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Co. Pacific Broadcasting Corp. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc. Pennsylvania State College South Bend Tribune  Francisco Martinez Alberto Alvarez Edmundo Recamier S. A. T. Broadcast Co.					
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WTAX † 100 XEX - 500  1220 kilocyc CMCA - 250 KFKU * 500 WCAD * 1000 WREN * 1000  1230 kilocyc KFOD - 100 KGGM † 250 KYA * 1000 WFBM * 1000 WFBM * 1000 WFBM * 1000 WFSC * 500  1240 kilocyc CMAB - 20 CMGH - 60 CMKE - 500 CMKE - 250 KTAT † 1000 WXYZ † 1000  1250 kilocyc KFMX † 1000	les 1225 1225 1225 1 + D N C IN 1es 1249 1249 1249 1249 11C C	Springheid, III. Mexico City  245.8 meters  Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kans.  243.8 meters  Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. Boston, Mass. Indianapolis, Ind. Boston, Mass. State College, Pa. South Bend, Ind.  241.8 meters  Pinar del Rio, Cuba Matanzas, Cuba Santiago de Cuba Ft. Worth, Texas Waco, Texas Detroit, Mich.  239.9 meters  Northfield, Minn.	M. Cruz Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Co. Pacific Broadcasting Corp. Shepard Broadcasting Corp. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc. Pennsylvania State College South Bend Tribune  Francisco Martinez Alberto Alvarez Edmundo Recamier S. A. T. Broadcast Co. Central Texas Broadcasting Co., Inc. Kunsky-Trendle Broadcasting Corp.					
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WAAM * WCAL * WDSU † WGCP - WLB † WODA - WRHM * XEFA	1000 1+X 1000 2 1000 C 250 1 1000 2 1000 1 1000 2 250	New Orleans, La. Newark, N. J. St. Paul, Minn. Paterson, N. J. Minneapolis, Minn. Mexico City	WAAM, Inc. St. Olaf College Jos. H. Uhalt May Radio Broadcast Corp. University of Minnesota Richard E. O'Dea Minnesota Broadcasting Corp. Luis F. Murguia	
1260 kilo	ocycles	238.0 meters		
KOIL * KRGV * KVOA † KWWG * WLBW *	1000 C 500 1 500 D 500 1 500 C+ 500 C	Council Bluffs, Iowa Harlingen, Texas Tucson, Ariz. Brownsville, Texas Oil City, Pa. Savannah, Ga.	Mona Motor Oil Co. KRGV, Inc. Robert M. Riculfi Herald Pub. Co. Radio-Wire Program Corp. Savannah Broadcasting Co.	
1270 kilo	ocycles	236.1 meters		
CMJB KFUM * KGCA † KOL † KWLC * WASH * WEAI * WFBR WJDX *	20 1276 1000 50 2D 1000 3C 1000 3 1000 2D 500 1 1000 D 500 1 1000 N	Ciego de Avila, Cuba Colorado Springs, Colo. Decorah, Iowa Seattle, Wash. Seattle, Wash. Decorah, Iowa Grand Rapids, Mich. Ithaca, N. Y. Baltimore, Md. Jackson, Miss. Grand Rapids, Mich.	Eduardo V. Figueroa Reynolds Radio Co., Inc. Charles W. Greenley Seattle Rroadcasting Co., Inc. First Presbyterian Church Luther College WASH Broadcasting Corp. Cornell University Baltimore Radio Show, Inc. Lamar Life Insurance Co. Kunsky-Trendle Broadcasting Corp.	
		0040	Runsky-Trendle Broadcasting Corp.	
1280 kild	15 1285 15 1285 30 1285 15 1285 20 1285 1000 + 500 1 1000 +C 500 1 500 1	Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Great Falls, Mont. Camden, N. J. Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Trenton, N. J. Dallas, Texas	Jesus Lopez Jose Leiro Jose Justo Moran Hernani Torralbas Aurelio Hernandez Buttrey Broadcast, Inc. City of Camden Radio Industries Broadcast Co, WDOD Broadcasting Corp. Capital Times Co. WOAX, Inc. City of Dallas	
1290 kilo	cvcles	232.4 meters		
	1000 C 500 1 50 D 1000 1+C 1000 +N 1000 C+ 50 D	Salt Lake City Galveston, Texas Blytheville, Ark. San Antonio, Texas Superior, Wis. Pittsburgh, Pa. Saranac Lake, N. Y.	Will H. Ford C. L. Lintzenich Lone Star Broadcast Co. Head of Lake Broadcasting Co. MT	248 31( 1788 28.
1300 kilo	cvcles	230.6 meters	DI	AL
KFH * KFJR * KGEF * KTBI * KTBR WBBR * WEVD * WHAP * WHAP * WHOD *	1000 2C 500 3 1000 4 1000 4 500 3 1000 1 500 1 1000 1 500 1 1000 N 1000 N	Wichita, Kansas Portland, Ore. Los Angeles, Cal. Los Angeles, Cal. Portland, Ore. Brooklyn, N. Y. New York City New York City Troy, N. Y. Miami, Fla. Kansas City, Mo.	Radio Station KFH Co. Ashley C. Dixon & Son Trinity Methodist Church Bible Institute of Los Angeles M. E. Brown People's Pulpit Association Debs Memorial Radio Fund, Inc. Defenders of Truth Society, Inc. Rensselaer Polytechnic Institute Isle of Dreams Broadcasting Corp. Unity School of Christianity	
1310 kilo	cvcles	228.9 meters	9	!
CMGC KCRJ † KFBK † KFGQ † KFIU KFJY * KFPL † KFPM * KFUP KFVP †	30 1315 100 100 7 100 7 10 7 100 7 100 7 100 7 100 8 100 8	Matanzas, Cuba Jerome, Ariz. Sacramento, Cal. Boone, Iowa Juneau, Alaska Ft. Dodge, Iowa Dublin, Texas Greenville, Texas Denver, Colo. Grand Junction, Colo.	Debs Memorial Radio Fund, Inc. Defenders of Truth Society, Inc. Rensselaer Polytechnic Institute Isle of Dreams Broadcasting Corp. Unity School of Christianity  Oscar Mechoso Chas. C. Robinson Jas. McClatchy Co. Boone Biblical College Alaska Electric Light & Power Co. C. S. Tunwall C. C. Baxter The New Furniture Co. Fitzsimmons General Hospital Western Slope Broadcasting Co.	

KFXR †	100	+	Oklahoma City	Exchange Ave. Baptist Church
KGBX + KGCX + KGEZ +	100		St. Joseph, Mo. Wolf Point, Mont. Kalispell, Mont.	KGBX Inc.
KGCX †	100	+	Kalispell Mont.	First State Bank of Vida Treloar-Church Brdcstg. Co.
KGFW †	100		Ravenna, Neb.	Central Nebraska Broadcasting Corp.
KIT †	50		Ravenna, Neb. Yakima, Wash. Medford, Ore.	Carl E. Haymond Mrs. W. J. Virgin Robert M. Dean
KMED †	100 50	9 <sup></sup>	Shreveport, La.	Mrs. W. J. Virgin Robert M. Dean
KTLC *	100		Houston, Tex.	Houston Broadcasting Co.
KTSL	100	9	Shreveport, La.	G. A. Houseman
KTSM *	100	2 7	El Paso, Texas	G. A. Houseman W. S. Bledsoe & W. T. Blackwell
KWCR †	100 75	<b>'</b>	Cedar Rapids, Iowa Aberdeen, Wash.	Harry F. Paar KXRO, Inc.
WBEO	100	X CP	Marquette, Mich.	Charles B. McCleod
WBOW *	100		Terre Haute, Ind.	Charles B. McCleod Banks of Wabash, Inc.
WBRE WCLS *	100	ī	Wilkes-Barre, Pa.	Louis G. Baltimore
	100 100	2	Joliet, Ill. El Paso, Texas	Louis G. Baltimore WCLS, Inc. Eagle Broadcasting Co.
WEBR *	100	+	El Paso, Texas Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WEXL †	50 .		Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG * WFDF *	100	3X	Altoona, Pa.	Wm. F. Gable Co. Frank D. Fallain
WGAL *	100	5	Flint, Mich. Lancaster, Pa.	WGAL, Inc.
WGH *			Lancaster, Pa. Newport News, Va. Philadelphia, Pa.	Hampton Roads Broadcasting Corp.
WHAT †	100	<del></del> 3	Philadelphia, Pa.	Independence Broadcasting Co.
WJAC * WJAK *		ა 6	Johnstown, Pa.	Johnstown Automobile Co.
WKAV *	100		Marion, Ind. Laconia, N. H.	Marion Broadcasting Co. Laconia Radio Club
WKBB *	100	1	Joliet, Ill.	Sanders Bros. Radio Station
WKBC *	100 .		Birmingham, Ala.	R. B. Broyles Furniture Co.
WKBS * WLBC †	100 50	6	Galesburg, III.	Permil N. Nelson Donald A. Burton
WMBO +	100		Galesburg, III. Muncie, Ind. Auburn, N. Y.	Radio Service Laboratories
WNBH *	100 .		New Bedford, Mass. Union City, Tenn.	New Bedford Broadcasting Co.
WOBT †		+	Union City, Tenn.	Tittsworth's Radio & Music Shop
WRAW *	100 100 5	5x	Washington, D. C. Reading, Pa.	American Broadcasting Co. Reading Broadcasting Co.
WRBI	100		Tifton, Ga.	Oglethorpe University
WROL † WSAJ * WSJS *			Knoxville, Tenn.	Stewart Broadcasting Co.
WSAJ *			Grove City, Pa. Winston-Salem, N. C.	Grove City College
WTEL *	100 4	4	Philadelphia, Pa.	Grove City College Winston-Salem Journal Co. Foulkrod Radio Engineering Co.
1320 1/1	ocvele	. 1	27 1 meters	
1320 kil	locycle	s 2	227.1 meters	
CMJC CMKH	15 1	1321	Camaguey, Cuba	Feliciano Isaac
CMJC CMKH KGHF †	15 1 250 1 250 -	s 2 1321 1327 +	Camaguey, Cuba Santiago de Cuba Pueblo, Colo	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch
CMJC CMKH KGHF † KGMB †	15 1 250 1 250 - 500 _	1321 132 <b>7</b> +	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd.
CMJC CMKH KGHF † KGMB † KID_ †	15 1 250 1 250 - 500 2 250 1	1321 132 <b>7</b> + I <del>-</del>	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co.
CMJC CMKH KGHF † KGMB † KID † KTFI WADC †	15 1 250 1 250 - 500 _ 250 1 250 1	1321 132 <b>7</b> + 1 + 1 X	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp.
CMJC CMKH KGHF † KGMB † KID † KTFI WADC † WSMB *	15 1 250 1 250 - 500 - 250 1 250 1 1000 0	1321 1327 + 1+ 1X C	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co.
CMJC CMKH KGHF † KGMB † KID † KTFI WADC † WSMB *	15 1 250 1 250 - 500 - 250 1 250 1 1000 0	1321 1327 + 1+ 1X C	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons
CMC	15 1 250 1 250 5 500 250 1 250 1 1000 C 500 N	1321 1327 + 1X C N.	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.
CMJC	15 1 250 1 250 5 500 250 1 250 1 1000 5 500 N	1321 1327 + 1X C N S 1332	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.
CMJC	15 1 250 1 250 5 500 5 250 1 250 1 1000 6 500 8 Ocycles 10 1 250 1 250 1	1321 1327 + 1X CC N. S 2 1332 X	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co.
CMJC	15 1 250 1 250 2 500 2 250 1 250 1 1000 6 0Cycle 10 1 250 2 1000 1	1321 1327 + 14 1X C N S 1332 X 1+C	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn.	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co.
CMJC CMKH CMKH † KGMB † KID † WADC † WSMB * 1330 kil CMJA KGB * WSCJ * WDRC *	15 1 250 1 250 2 500 2 250 1 1000 0 0000 1 1000 1 250 1 1000 1 250 1 1000 1 250 1 1000 1 250 1 250 1 1000 0 1000 1 250 1 25	1321 1327 + 1+ 1X CN 1332 N 1+C	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee
CMJC CMKH CMKH + KGHF † KGMB † KTFI WSMB * 1330 kil CMJA KGB KSCJ * WDRC *	15 1 250 250 1 250 1 250 1 1000 5 0Cycle: 10 1 250 3 1000 1 500 C 500 1	1321 1327 + 14 1X C N S 1332 X 1+C	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  25.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis.	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co.
CMJC	15 15 1250 1250 1750 1750 1750 1750 1750 1750 1750 17	1321 1327 + 1+ 1X CN 1332 X 12+C CN 11C 1333	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  25.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee
CMJC	15 1 250 - 500 1 1000 6 500 N OCYCLE: 1000 1 250 2 1000 1 500 N 1000 1 500 N	1321 1327 + 1 + 1X 1X 1X 1X 1X 1X 1X 1X 1X 1X	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  223.7 meters Hayana, Cuba	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co. Jesus R. Benavides
CMJC	15 1 250 - 500 1 1000 6 500 N OCYCLE: 1000 1 250 2 1000 1 500 N 1000 1 500 N	1321 1327 + 1 + 1X 1X 1X 1X 1X 1X 1X 1X 1X 1X	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  223.7 meters Hayana, Cuba	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co Jesus R. Benavides  Oscar Montenegro Jose G. Reigada
CMJC CMKH KGHF † KGMB † KTFI WADC † WSMB * 1330 kil CMJA KGB * WDRC * WDRC * WTAQ * XEC 1340 kil CMBA CMBF CMCD	15 1 250 1 250 1 250 1 1000 5 1000 1 250 2 1000 1 250 2 1000 1 250 2 1000 1 250 2 1000 1 250 2 1000 1 250 3 1000 1 250	1321 1327 + 1 + 1X 1X 1X 1X 1X 1X 1X 1X 1X 1X	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  223.7 meters Hayana, Cuba	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty
CMJC CMKH KGHF † KGMB † KTFI WADC † WSMB * 1330 kil CMJA KGB * WDRC * WDRC * WTAQ * XEC 1340 kil CMBA CMBF CMCD	15 1 250 250 1 1000 500 N 1000 1 500 1 1000 1 1 1 1 1 1 1 1 1 1 1	1321 1327 + 1327 + 1327 1327 1333 1333 1345 1345 1345 1345	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  25.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  23.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co. Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra
CMJC	15 1 250 250 1 250 1 250 1 1000 250 1 1000 500 N OCYCLE: 1000 1 500 N 1000 1 500 N 1000 1 500 N 1000 1 500 N 1000 1 500 N 1000 N 100	1321 1327 14 1327 14 1X 1X 1X 1X 1X 1X 1X 1X 1X 1X	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark.	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Cop. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co. Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran
CMJC CMKH KGHF † KGMB † KTFI WADC † WSMB * 1330 kil CMJA KGB * WDRC * WTAQ * XEC - 1340 kil CMBF - CMCD - CMCD - CMCU - CMCY - CMCY - KFPW †	15 1250 1250 11000 1500 1500 1500 1500 1	1321 1327 14 1327 14 1X 1X 1X 1X 1X 1X 1X 1X 1X 1X	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Akron, Ohio New Orleans, La.  225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  223.7 meters Havana, Cuba Fort Smith, Ark. Spokane, Wash.	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co. Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra
CMJC CMKH KGHF KGMB † KID † WADC † WSMB * 1330 kil CMJA KGB * WDRC * WDRC * WDRC * WTAQ * XEC CMBA CMBA CMCD CMCU CMCU CMCU CMCY + KFPW † KFPY *	15 1250 1250 1250 1250 1250 1250 1250 12	1321 1327 + 1327 + 1X 1X 1X 1X 1A 1A 1C 13332 X 1A 1C 13333 S 1345 1345 1345 1345 1345 1345	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  25.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  23.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla.	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola
CMJC	15 1 250 250 1 1000 1 500 1 1000 1 1 500 1 1 500 1 1 500 1 1 1 500 1 1 1 500 1 1 1 5 1 1 1 5 1 1 1 5 1 1 1 5 1 1 1 5 1 1 1 5 1 1 1 5 1 1 1 5 1 1 1 1 5 1 1 1 1 5 1	1321 1327 1327 14 1X 1X 11 11 11 11 11 11 11 11 11 11 11	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  25.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  23.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co.
CMJC CMKH KGHF † KGMB † KTFI WSMB * 1330 kil CMJA KGB * WDRC * WDRC * WTAQ * XEC - 1340 kil CMBA - CMBA - CMBA - CMCD - CMCU - CMCU - CMCY - C	15 15 1250 1250 11000 1500 1500 1500 150	1321 1327 1327 14 1X 1X 1X 1X 1X 1X 1X 1X 1333 14 1333 1345 1345 1345 1345 1345 1	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  25.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  23.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio  22.1 meters	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co.
CMJC CMKH KGHF KGMB † KTFI WADC † WSMB * 1330 kil CMJA KGB KSCJ * WDRC * WTAQ * XEC - 1340 kil CMBA - CMCD - CMCD - CMCU - CMCU - CMCY - KFPY * WSOA * WSOA *	15 1250 1250 11000 1500 1500 1500 1500 1	1321 1327 1 + 1327 1   1   1   1   1   1   1   1   1   1	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Akron, Ohio New Orleans, La.  25.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  23.7 meters Havana, Cuba Havan	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co. Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co. Greater St. Louis Broadcasting Corp.
CMJC CMKH KGHF KGMB † KTFI WADC † WSMB * 1330 kil CMJA KGB KSCJ * WDRC * WTAQ *	15 1 250 250 1 1000 1 500 1 1000 1 150 1 15 1 15	1321 1327 1 1327 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio  222.1 meters St. Louis, Mo. Zarephath, N. J. New York City	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co. Greater St. Louis Broadcasting Corp. Pillar of Fire
CMJC CMKH KGHF † KGMB † KTFI WSMB * 1330 kil CMJA KGB * WSAI * WTAQ * XEC * UTAQ * XEC * T340 kil CMBF - CMCU - CMCU - CMCU - CMCY - CMCY - KFPY * WCOA * WSPOA * WSPOA *	15 1250 1250 11000 1500 1000 1550 1000 1550 155	1321 1327 1 + 1327 1 + 1327 1 1	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Akron, Ohio New Orleans, La.  25.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  23.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio  22.1 meters St. Louis, Mo. Zarephath, N. J. New York City New York City	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co. Greater St. Louis Broadcasting Corp. Pillar of Fire Standard Cahill Co., Inc. Italian Educ. Broadcasting Co., Inc. Italian Educ. Broadcasting Co., Inc.
CMJC CMKH KGHF KGMB † KTFI WADC † WSMB * 1330 kil CMJA KGB KSCJ * WDRC * WTAQ *	15 1250 1250 11000 1500 1000 1550 1000 1550 155	1321 1327 1 + 1327 1 + 1327 1 1	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.  225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. Toluca, Mex.  223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio  222.1 meters St. Louis, Mo. Zarephath, N. J. New York City	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.  Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co. Jesus R. Benavides  Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co. Greater St. Louis Broadcasting Corp. Pillar of Fire Standard Cahill Co., Inc.

1360 kilocycles	220.4 meters		
CMKF 30 1363	Holguin, Cuba	Manuel J. de Gongora	
KGER * 1000 4	Long Beach, Cal.	C. Merwin Dobyns	
KPSN * 1000 4	Butte, Mont. Pasadena, Cal.	KGIR, Inc. Pasadena Star-News Jordan & Burk	
WCSC * 500 WFBL * 1000 CX	Charleston, S. C. Syracuse, N. Y.	Jordan & Burk	
WGES * 500 1+	Chicago, Ill.	Onondaga Radio Broadcasting Corp. Oak Leaves Broadcasting Station, Inc.	
WGES * 500 1+ WJKS * 1000 1+ WQBC † 300 CP D	Chicago, Ill. Gary, Ind. Vicksburg, Miss.	Johnson-Kennedy Radio Corp. Delta Broadcasting Co., Inc.	
1370 kilocycles	218.7 meters		
CMGE 30 1375	Cardenas, Cuba	Genaro Sebater	
KCRC † 100 2+ KFBL * 50 3	Enid, Okla. Everett, Wash.	Champlin Refining Co. Leese Bros.	
KEII + 100	Everett, Wash. Astoria, Ore.	KFII Broadcasters, Inc.	
KFJM † 100 KFJZ * 100 KFLX 100	Grand Forks, N. D.	University of North Dakota Estate of H. C. Meachem George Roy Clough	
KFLX 100	Ft. Worth, Texas Galveston, Texas	George Roy Clough	
KGAR * 100 +	l'ucson, Ariz.	Tucson Motor Service Co.	
KGDA † 100 2 KGFG † 100 2	Mitchell, S. D. Oklahoma City	Mitchell Broadcasting Corp. Oklahoma Broadcasting Co., Inc.	
KGFL † 50	Raton, N. M.	W. E. Whitmore KGKL, Inc., Opr. by Ragsdale Auto W. W. McAllister	
	San Angelo, Texas	W. W. McAllister	
KONO † 100 5	San Antonio, Tex. San Antonio, Texas	Mission Broadcasting Co.	
KOOS * 100	Marshfield, Ore.	H. H. Hanseth, Inc.	
	Berkeley, Cal. Walla Walla, Wash.	First Congregational Church Paul R. Heitmeyer	
KVL 100 3	Seattle, Wash. Kansas City, Mo.	KVL, Inc.	
KWKC _ 100 KZM * 100 6	Kansas City, Mo. Hayward, Cal.	Wilson Duncan Broadcasting Co.	
WBGF † 50	Glens Falls, N. Y.	Leon P. Tenney W. N. Parker and H. H. Metcalfe	
WBGF † 50 WBTM † 100 7 WCBM * 100 +Z	Danville, Va.	Clarke Electric Co.	
.,	Baltimore, Md. Philadelphia, Pa.	Baltimore Broadcasting Corp. WELK Broadcasting Station, Inc.	
WEDV 4 100	Rome, Ga.	Dolies Goings	
11 CD C	Rome, Ga. Fort Wayne, Ind. Mount Orab, Ohio	Dolies Goings Fred C. Zieg F. P. Moler	
	Memphis, Tenn.	Broadcasting Station WHBQ, Inc.	
WHDF † 100 + WIBM 100 1	Memphis, Tenn. Calumet, Mich. Jackson, Mich. Detroit, Mich.	Upper Michigan Broadcasting Co.	
WTBK * 50 1	Detroit, Mich.	WIBM, Inc. James F. Hopkins, Inc.	
WLEY 100 +	Lexington, Mass.	Lexington Air Stations	
WLVA † 100 7 WMBR † 100	Lynchburg, Va. Tampa, Fla.	Lynchburg Broadcasting Corp. F. J. Reynolds	
WPOE † 100	Patchogue, N. Y. St. Albans, Vt.	Nassau Broadcasting Corp.	
WQDM * 100 D WRAK * 100	St. Albans, Vt. Williamsport, Pa.	A. J. St. Antoine C. R. Cummins	
WRBJ † 10	Hattiesburg, Miss.	Woodruff Furniture Co., Inc.	
WRBT * 100	Wilmington, N. C.	Wilmington Radio Association Albert S. Woodson	
WRDO \$ 100 CP WRJN 100	Augusta. Me. Racine, Wis.	Racine Broadcasting Corp.	
WSVS * 50	Buffalo, N. Y.	Seneca Vocational School	
1380 kilocycles	217.3 meters		
KOH † 500 C KOV † 500 2	Reno, Nevada	Jay Peters	
KQV † 500 2 KSO * 500 1	Pittsburgh, Pa. Clarinda, Iowa	Doubleday-Hill Electric Co. Berry Seed Co.	KCYS.
WKBH * 1000 1	La Crosse, Wis.	Berry Seed Co. WKBH, Inc.	1400
WSMK * 200 2	Dayton, Ohio	Stanley M. Krohn, Jr.	
1390 kilocycles	215.7 meters		MTRS.
KLRA * 1000 1C	Little Rock, Ark.	Arkansas Broadcasting Co.	214.2
KOY * 500 KUOA † 1000 1	Phoenix, Ariz. Fayetteville, Ark.	Nielson Radio & Sporting Goods Co. University of Arkansas	DIAL
KUOA † 1000 1 WHK * 1000 C	Cleveland, Ohio	Radio Air Service Corp.	
1400 kilocycles	214.2 meters		
CMBI 30 1405		Heriberto Meireles	
CMBK 15 1405 CMBN 30 1405	Havana, Cuba Havana, Cuba	Jose L. Ferriol	100
CMBO 50 1405	Havana, Cuba	Armado Romeu Emilio Salas	ĮĄĠ
CMBX - 30 1405	Havana, Cuba	Bertin Fernandez	H
CMBY 100 1405 KLO_ * 500	Havana, Cuba Ogden, Utah	Lino E. Cosculluala Peery Building Co.	92
KOCW * 250 +	Chickasha, Okla. Lafayette, Ind.	College for Women	<u>     </u>
WBAA † 500 1+	Lafayette, Ind.	Purdue University	CUT OUT ON
			100

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WBBC * 500	2 Brooklyn, N. Y.	Brooklyn Broadcasting Corp.
WCGU * 500 WCMA † 500	2 Brooklyn, N. Y. 2 Brooklyn, N. Y. 1 Culver, Ind. 2 Brooklyn, N. Y. 1 Indianapolis, Ind.	U. S. Broadcasting Corp. General Broadcasting Corp.
WCMA † 500 WFOX 500	1 Culver, Ind. 2 Brooklyn, N. Y.	Paramount Broadcasting Corp.
WFOX 500 WKBF † 500 WLTH * 500	1 Indianapolis, Ind.	Indianapolis Broadcasting, Inc.
WLTH * 500	1 Indianapolis, Ind. 2 Brooklyn, N. Y.	Indianapolis Broadcasting, Inc. The Voice of Brooklyn, Inc.
XEP 2500	Laredo, Mex.	La Voz Latino
1410 kilocycle	es 212.6 meters	
KFLV † 500	4 Rockford, Ill.	Rockford Broadcasters, Inc.
KGRS * 1000 WAAR * 500	4 Rockford, III. 1 Amarillo, Texas 2 Squantum, Mass. C Bay City, Mich. 1 Amarillo, Texas 4 Sheboygan, Wis.	Gish Radio Service
WAAB * 500 WBCM * 500	C Bay City, Mich	Bay State Broadcasting Corp.
WDAG * 1000	2 Squantum, Mass. C Bay City, Mich. 1 Amarillo, Texas	James E. Davidson National Radio & Broadcasting Corp.
	4 Sheboygan, Wis.	Press Pub. Co.
WHIS † 250 WODX * 500	3 Mobile, Ala.	Daily Telegraph Mobile Broadcasting Corp.
WRBX * 250	Roanoke, Va.	Richmond Development Corp.
WSFA † 500	o Montgomery, Ala.	Montgomery Broadcasting Co., Inc.
		Tremont Temple Baptist Church
1420 kilocycle		
CMHE 20 KBPS 100	1429 Santa Clara, Cuba	Juan del Regato
1/17 # 100	4 Portland, Ore.	Benson Polytechnic Institute
KFQU * 100	5 Holy City, Cal.	Reporter Printing Co. W. E. Riker
KFQW * 100 KFXD * 100	4 Portland, Ore. Fond du Lac, Wis. Holy City, Cal. Seattle, Wash. Nampa, Idaho	KFQW, Inc. Service Radio Co.
KFXD * 100 KFXY 100	Flagstaff, Ariz.	Service Radio Co. Mary M. Costigan
KFYO † 100	Flagstaff, Ariz. Abilene, Texas	Mary M. Costigan T. E. Kirksey
KUTE T 100	Shawnee, Okla.	KGFF Broadcasting Co.
	5 San Francisco, Cal. Trinidad, Colo.	Golden Gate Broadcasting Co.
KGIX † 100	Las Vegas, Nevada	Leonard E. Wilson Las Vegas, Nevada, Radio Corp. C. E. Twiss and F. H. McCann
KGKX 100	Sand Point, Idaho	C. E. Twiss and F. H. McCann
KGVO † 100 KICK * 100	D Missoula, Mont. Red Oak, Iowa Minot, North Dakota	Mosby's Incorporate Red Oak Radio Corp.
KLPM † 100	Minot, North Dakota	Red Oak Radio Corp. John B. Cooley Eugene Broadcasting Station
KORE * 100	Eugene, Ore.	Eugene Broadcasting Station
KTAP † 100 KXL * 100	San Antonio, Texas Portland, Ore.	Alamo Broadcasting Co. KXL Broadcasters, Inc.
KXYZ 100	4 Portland, Ore. Houston, Texas	Harris County Broadcast Co.
		Harris County Broadcast Co. Erie Dispatch-Herald WEHS, Inc.
WEHS 100 WELL † 50	2 Cicero, Ill. X Battle Creek, Mich.	Enquirer-News Co.
WFDW * 100	Talladega, Ala.	Raymond G. Hammett Tupper Lake Broadcasting Co., Inc.
	DX Tupper Lake, N. Y.	Tupper Lake Broadcasting Co., Inc.
WHFC 100 WIAS † 100 WIBR * 50	2 Cicero, Ill. Ottumwa, Iowa	Triangle Broadcasters Iowa Broadcasting Co.
WIAS † 100 WIBR * 50	Ottumwa, Iowa Steubenville, Ohio Wilmington, Del.	George W. Robinson Delaware Broadcasting Co., Inc.
WILM * 100 WJBO * 100	Wilmington, Del.	Delaware Broadcasting Co., Inc.
WJBO * 100 WKBI * 100	New Orleans, La. Chicago, Ill.	Valdemar Jensen Fred L. Schoenwolf
	Kansas City, Kas.	WLBF Broadcasting Co.
WMBC * 100	+ Detroit, Mich. + Joplin, Mo. Paducah, Ky.	Michigan Broadcasting Co., Inc.
WMBH 100 WPAD † 100	+ Jopin, Mo. Paducah, Kv.	. Edwin Dudley Aber Paducah Broadcasting Co.
WSPA * 100	+ Spartanburg, S. C. + Cumberland, Md.	Voice of South Carolina
		Associated Broadcasting Corp.
1430 kilocycle	es 209.7 meters	
KECA 1 1000	N Los Angeles, Cal.	Earle C. Anthony, Inc.
KGNF 7 500 1 WBAK 7 500	D North Platte, Neb.	Great Plains Broadcasting Co.
WBAK † 500 WCAH * 500 WGBC * 500	C Columbus Obio	Penna. State Police Commercial Radio Service Co.
WGBC * 500	1+ Harrisburg, Pa. C Columbus, Ohio S Memphis, Tenn.	Memphis Broadcasting Co.
WHP * 500 WNBR • 500	1C+ Harrisburg, Pa. 2 Memphis, Tenn.	WHP, Inc. Memphis Broadcasting Co.
1440 kilocycle		Tremphile Diodectoring Co.
		Warner Bros
13/1DIC * 500	Casanahana NI C	Warner Bros. North Carolina Broadcasting Co.
WCBA * 250 WHEC * 500	Greensboro, N. C. Allentown, Pa.	B. B. Musselman
WHEC * 500 WMBD * 500		Hickson Electric & Radio Corp. Peoria Heights Radio Laboratory
WOKO † 500 WSAN * 250	Allentown, Pa. Allentown, Pa. Compared Heights, III. Allentown, Pa. Allentown, Pa.	WOKO, Inc.
WSAN * 250	l Allentown, Pa.	Allentown Call Publishing Co., Inc.
WTAD † 500	3 Quincy, III.	Ills. Stock Medicine Broadcasting Co.

206.8 meters		
Santiago de Cuba Shreveport, La. Hackensack, N. J. Cleveland, Ohio Jersey City, N. J. Jersey City, N. J. Newark, N. J. Fall River, Mass. Toccoa, Ga.	Arturio C. de Ribas Tri-State Broadcasting System, Inc. WBMS Broadcasting Corp. WGAR Broadcasting Co. New Jersey Broadcasting Corp. Camith Corp. Radio Investment Co. Doughty & Welch Electric Co., Inc. Toccoa Falls Institute	
205 4 meters	·	٦
St. Paul, Minn. Alexandria, Va.	National Battery Broadcasting Co. Independent Publishing Co.	
204.0 meters		]
Spokane, Wash. Nashville, Tenn.	Northwest Broadcasting System, Inc Life & Casualty Insurance Co.	
202.6 meters		7
Oklahoma City Buffalo, N. Y. Mexico City	National Radio Mfg. Co. Buffalo Broadcasting Co., Lessees Ricardo Gonzalez Montero	_
201.2 meters	· .	
Chicago, Ill. Covington, Ky. Chicago, Ill.	People's Pulpit Association L. B. Wilson, Inc. Zenith Radio Corp.	
199.9 meters [		
Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Sagua la Grande, Cuba Santa Barbara, Cal. Corpus Christi, Texas Moorhead, Minn. Grant City, Mo. Brownwood, Texas Scottsbluff, Nebr. Prescott, Ariz. Wenatchee, Wash. Santa Ana, Cal. Austin, Texas El Centro, Cal. Tupelo, Miss. Connersville, Ind. Ludington, Mich. Long Island City, N. Y. Boston, Mass. Newport, R. I. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Bristol, Tenn. Phildelphia, Pa. Augusta, Ga. Rutland, Vt. Woodside, N. Y. Pittsburgh, Pa.	Julio C. Hidalgo Ricardo Perkins Tomas Basail Martinez y Madico Alberto Fernandez Santiago Ventura Dwight Faulding Eagle Broadcasting Co., Inc. Red River Broadcasting Co., Inc. Grant City Park Corp. Eagle Publishing Co. Hilliard Co., Inc. Miller & Klahn Wescoast Broadcasting Co. Pacific Western Broadcasting Driskill Hotel E. R. Irey and F. M. Bowles North Mississippi Broadcasting Corp. Knox Battery & Electric Co. K. L. Ashbacker John N. Brahy Boston Broadcasting Co. LeRoy Joseph Beebe Paul J. Gollhofer Arthur Faske First M. P. Church Howitt-Wood Radio Co., Inc. Radiophone Brdestg. Station, Inc. Wm. Penn Broadcasting Co. Musicove, Inc. Seward & Weiss Music Co. Long Island Broadcasting Corp. William S. Walker	KCYS. 1500 MTRS. 199.9 DIAL
	Santiago de Cuba Shreveport, La. Hackensack, N. J. Cleveland, Ohio Jersey City, N. J. Jersey City, N. J. Newark, N. J. Fall River, Mass. Toccoa, Ga.  205.4 meters St. Paul, Minn. Alexandria, Va.  204.0 meters Spokane, Wash. Nashville, Tenn.  202.6 meters Oklahoma City Buffalo, N. Y. Mexico City  201.2 meters Chicago, Ill. Covington, Ky. Chicago, Ill. Covington, Ky. Chicago, Ill. Covington, Ky. Chicago, Ill. Corpus Christi, Texas Moorhead, Minn. Grant City, Mo. Brownwood, Texas Scottsbluff, Nebr. Prescott, Ariz. Wenatchee, Wash. Santa Ana, Cal. Austin, Texas El Centro, Cal. Tupelo, Miss. Connersville, Ind. Ludington, Mich. Long Island City, N. Y. Boston, Mass. Connersville, Ind. Ludington, Mich. Long Island City, N. Y. Boston, Mass. Newport, R. I. Brooklyn, N. Y. Bristol, Tenn. Phildelphia, Pa. Augusta, Ga. Rutland, Vt. Woodside, N. Y.	Santiago de Cuba Shreveport, La. Hackensack, N. J. Cleveland, Ohio Jersey City, N. J. Persey City, N. J. Fall River, Mass. Toccoa, Ga.  205.4 meters St. Paul, Minn. Alexandria, Va.  205.4 meters St. Paul, Minn. Alexandria, Va.  National Battery Broadcasting Co. Independent Publishing Co. In

				1			
ALABAMA	Watts		Kcys.	San Jose J-1	500	KOW	1010
Birmingham O-21	5000	WAPI	1140	Santa Ana M-3 Santa Barbara M-2	100	KQW KREG	1500
Biriningham 0-21	500	WBRC	930	Santa Barbara M-2 Santa Maria L-2	100 100	KDB KSMR	1500 1200
	100	WKBC	1310	Stockton J-2	250	KGDM	1100
Gadsden O-21	50 500	WJBY WODX	1210		100	KWG	1200
Mobile Q-20 Montgomery P-21	500 500	WSFA	1410 1410	507.00.100			
Talladega O-21	100	WFDW	1420	COLORADO			
				Colorado Springs K-1	1 1000	KFUM	1270
ALASKA				Denver K-11	500 100	KFEL KFUP	920
Anchorage	100	KFOD	1230		500	KFXF	1310 920
Juneau	10	KF <b>Q</b> D KFIU	1310		1000	KLZ	560
Ketchikan	500	KGBU	900		12500	KOA KPOF	830
				Fort Mountain 7 11	500	KPOF	880
ARIZONA				Fort Morgan J-11 Grand Junction K-9	100 100	KGEW KFXJ	1200 1310
Flagstaff M-7	100	KFXY	1420	Greeley J-11	500	KFKA	880
Jerome M-6	100	KCRJ	1310	Greeley J-11 Pueblo L-11	250	KGHF	1320
Phoenix N-6	500 500	KOY KTAR	1390 620	Trinidad L-11	100	KGIW	1420
Prescott M-6	100	KPJM	1500	Yuma J-12	50	KGEK	1200
Tucson O-7	100	KGAR	1370				
	500	KVOA	1260	CONNECTICUT	•		-
				Bridgeport H-27	250	WICC	600
ARKANSAS				Hartford H-27	500	WDRC	1330
Blytheville M-19	50	KLCN	1290	Storrs H-28	50000 250	WCAC	600-1060 600
Fayetteville M-16	1000	KUOA	1390	Storrs 11-26	230	WCAC	000
Fort Smith N-16	50 10000	KFPW KTHS	1340 1040	DEL ARIADE			
Hot Springs N-17 Little Rock N-17	100	KGHI	1200	DELAWARE			
Dittie Hoth H-17	250	KGJF KLRA	890	Wilmington J-26	250	WDEL	1120
D	1000	KLŘA	1390		100	WILM	1420
Paragould M-18	100	KBTM	1200	DISTRICT OF	COT 11	N ATOTA	
				DISTRICT OF			
CALIFORNIA				Washington J-26	250 500	WMAL	630
Berkeley J-2 Burbank M-3	100	KRE	1370		100	WRC WOL	9 <b>50</b> 1310
Burbank M-3	500	KELW	780	EL OBIDA	100	WOL	1010
Culver City M-3 El Centro N-4	250 100	KFVD KXO	1000 1500	FLORIDA			
rresno K-L	100	KMI	1210	Clearwater R-24	1000	WFLA WRUF	620
Hayward J-1 Hollywood M-3	100	KZM KFWB	1210 1370 950	Gainesville Q-24 Jacksonville Q-24	5000 1000	WIAX	830 900
Hollywood M-3	1000	KFWB	1950	Miami T-25	1000	WJAX WIOD	1300
Holy City K-1	5000 100	KNX KFQU	1050 1420	0.110.44	1000	WQAM WDBO	560
Inglewood M-3	500	KMCS	1120	Orlando R-24	500 500	WDBO	1120 1340
Long Beach M-3	1000	KFOX	1250	Pensacola Q-21 St. Petersburg S-24	1000	WCOA WSUN	620
I 4 1 N/ 2	1000	KGER	1360	Tampa R-24	1000	WDAE	620 1220
Los Angeles M-3	1000 5000	KECA KFI	1430 640	_	100	WMBR	1370
	500	KFSG	1120	GEORGIA			
	1000	KGEF	1300		250	WCCE	000
•	100	KGFJ	1200	Atlanta O-22	250 5000	WGST WSB	890 740
	1000 500	KHJ	900 710	Augusta O-23	100	WRDW	1500
	500	KMPC KMTR KTM	570	Columbus O-22	50	WRBL	1200
	500	KTM	570 780	Macon O-23	250	WMAZ	890
0.11 1.7.	1000	KTBI	1300	Rome N-22 Savannah O-24	100 500	WFDV WTOC	1370 1260
Oakland J-1	250	KLS	1440	Thomasville Q-22	100	WQDX	1210
	500 500	KLX KROW	880 930	Tifton P-23	100	WRBI	1310
Pasadena M-3	50	KPPC	1210	Toccoa N-23	500	WTFI	1450
_	1000	KPPC KPSN	1360				
Sacramento J-2	100	KFBK	1310	HAWAII			
San Bernardino M-3 San Diego N-3	100 500	KFXM KFSD	1210 600	Honolulu	500	KGMB	1320
Diogo 11-0	250	KGB	1330		1000	KGU	940
San Francisco J-1	1000 .	KFRC	610	IDAHO			
Dail Francisco J-1	500	KFWI KGGC	930		1000	ZID0	1050
San Francisco J-1		ALTER.	1420	Boise G-5	1000	KIDO	1250
ball I failcisco j-I	100	KGO	790 l	I Idaho Falls G-7	750		
Sair Francisco J-1		KGO KJBS	790 1070	Idaho Falls G-7 Nampa G-5	250 50	KID KFXD	1320 1420
San Francisco J-1	7500 100 5000	KGO KJBS KPO	790 1070 680	Nampa G-5 Pocatello H-7	50 250	KFXD KSEI	1420 90 <b>0</b>
San Francisco y-1	7500 100	KGO KJBS	790 1070 680 560 <b>1230</b>	Nampa G-5	50	KFXD	1420

		10000			_		
ILLINOIS	Watts		Kcys.	Ottumwa J-17 Red Oak J-16	100 100	WIAS KICK	1420 1420
Carthage J-18	50	WCAZ	1070	Shenandoah J-16	500	KFNF	890
Chicago I-20	10000	KFKX	1020 1020		500	KMA	930
	10000 500	KYW WAAF	920	Sioux City I-15	1000 500	KSCJ WMT	1330 600
	25000	$\mathbf{W}\mathbf{B}\mathbf{B}\mathbf{M}$	<i>77</i> 0	Waterloo I-17	500	WIVII	000
	1500	WCFL	970 1490	KANSAS			
	5000 100	WCHI WCRW	1210	Dodge City L-13	100	KGNO	1210
	100	WEDC	1210	Kansas City K-16	100	WLBF	1420
	50000 500	WENR WGES	870 1360	Lawrence K-16	500	KFKU	1220
	25000	WGN	720	Manhattan K-15	1000 500	WREN KSAC	1220 580
	1000	WIBO	560	Milford K-14	5000	KFKB	1050
	5000 25000	WJAZ WJBT	1490 770	Topeka K-16	1000	WIBW KFH	580 1300
	100	WKBI	1420	Wichita L-15	1000	кгп	1300
	50000	WLS	870	KENTUCKY			
	5000 5000	WMAQ WMBI	670 1080	Covington K-22	5000	WCKY	1490
	500	WPCC	560	Hopkinsville M-20	1000	WFIW	940
C1 7.00	100	WSBC	1210	Louisville L-21	10000	WHAS	820
Cicero I-20	100 100	WEHS WHFC	1420 1420	Paducah M-19	100 100	WLAP WPAD	1200 1420
Decatur K-19	100	WJBL WKBS	1200	Facucan M-19	100	WEND	1420
Galesburg J-18	100 100	WKBS	1310 1210	LOUISIANA			
Harrisburg L-19 Joliet I-19	100	WEBQ WCLS	1310	Monroe P-18	50	KMLB	1200
	100	WKRR	1310 1200	New Orleans R-19	100	WABZ	1200
La Salle J-19 Mooseheart I-19	100 20000	WJBC WJJD WMBD	1130	,	1000 100	WDSU	1250 1420
Peoria Heights J-19	500	WMBD	1440		30	WJBO WJBW WSMB	1200
Quincy K-18	500 500	WTAD KFLV	1440 1410		500	WSMB	1320
Rockford I-19 Rock Island I-18	100	WHBF	1210	Shreveport P-17	5000 50	WWL KRMD	850 1310
Springfield K-19	100	WCBS	1210	Sing Copert I	1000	KTBS	1450
Tuesda IZ 20	100 100	$f WTAX \ WDZ$	1210 1070		100 100	KTSL KWEA	1310 1210
Tuscola K-20 Urbana J-20	250	WILL	890		10000	KWKH	850
Zion I-20	5000	WCBD	1080	MAINE			
				Augusta F-28	100	WRDO	1370
TATIST AND				Bangor F-29	100 500	WABI WLBZ	1200 620
INDIANA	100	WITTOT	1210	Portland F-28	1000	WCSH	940
Anderson J-21 Connersville K-21	100 100	WHBU WKBV	1210 1500				
Culver I-20	500	WCMA	1400	MARYLAND			
Evansville L-20	500 100	WGBF WGL	630 1370	Baltimore J-26	10000	WBAL 7	
Fort Wayne J-21	10000	wowo	1160	· ·	250 100	WCAO WCBM	600 1370
Gary I-20	1000	WJKS WWAE	1360	l .	500	WFBR	1270
Hammond I-20 Indianapolis J-21	100 1000	WWAE WFBM	1200 1230	Cumberland J-25	100	WTBO	1420
	500	WKBF	1400	MASSACHUSET	TC		
Lafayette J-20 La Porte I-20	500	WBAA WRAF	1400 1200		1000	WDIC	1230
Marion I-21	100 50	WIAK	1310	Boston G-28	1000	WBIS WEEI	590
Marion J-21 Muncie J-21	50	WJAK WLBC	1310	l	1000	WHDH	830
South Bend 1-20	500	WSBT	1230	ı	100	WLOE	1500
Terre Haute K-20	100	WBOW	1310		1000 500	WNAC WSSH	1230 1410
				Fall River H-28	250	WSAR	1450
IOWA					100	WLEY	1370
Ames I-17	5000	WOI	640	Needham G-28 New Bedford H-28	500 100	WBSO WNBH	920 1310
Boone I-17	100	KFGO	1310	Springfield H-27	15000	WBZ-A	990
Cedar Rapids I-18	100 500	KWCŘ	1310 1380	Squantum G-28	500	WAAB	1410
Clarinda J-16 Council Bluffs J-16	1000	KSO KOIL	1260	Worcester G-28	100 100	WEPS WORC	1200 1200
Davenport I-18	5000	KOIL WOC	1000		250	WTAG	580
Decorah H-18	50 100	KGCA KWLC	1270 1270	MOTTICAN			
Des Moines I-17	5000	WHO	1000	MICHIGAN		******	
Fort Dodge I-16	100	KFJY	1310	Battle Creek I-21	50 500	WELL WBCM	1420 1410
Iowa City I-18 Marshalltown I-17	500 100	WSUI KFJB	880 1200	Bay City H-22 Berrien Springs I-20	1000	WKZO	590
Muscatine J-18	5000	KTNT	1170	Bay City H-22 Berrien Springs I-20 Calumet E-19	100	WHDF	1370
- ·							

				<del></del>			
Detroit H-22	50	WJBK WJR WMBC	1370	NEVADA	Watts		Kcys
	5000 100	WMBC	750 1420	Las Vegas L-5	100	KGIX	1420
	1000	WWJ WXYZ WKAR	920 1240	Reno I-3	500	KOH	1 <b>3</b> 80
East Lansing H-21	1000 1000	WX YZ WK AR	1240 1040	NEW HAMPSH	TDE		
Flint H-22	100	WFDF	1310			33777 A 37	1210
Grand Rapids H-21	500 500	WASH WOOD	1270	Laconia G-28	100	WKAV	1 <b>31</b> 0
Jackson I-21	100	WIBM	1270 1370	NEW JERSEY			
Lapeer H-22	100	WMPC	1500	Asbury Park I-27	500	WCAP	1280
Ludington H-20 Marquette F-19	50 100	WKBZ WBEO	1500 1310	Atlantic City J-27 Camden I-26	5000	WPG WCAM	1100
Royal Oak H-22	50	WEXL	1310	Camden I-26	500	WCAM	1280
				Hackensack I-27 Jersey City I-27	250 300	WBMS WAAT	1450 940
MINNESOTA				500005 0005 000	500	WHOM	1450
Fergus Falls F-15	100	KGDE	1200	Newark I-27	250 1000	WKBO WAAM	1450 1250
Minneapolis G-17	7500 1000	WCCO WDGY	810 1180	Newark 1-27	250	WGCP	1250
	500	$\mathbf{W}\mathbf{H}\mathbf{D}\mathbf{I}$	1180		250	WNJ	1450
Manufaced P 15	1000	WRHM	1250	Paterson I-27	5000 1000	WOR WODA	710 1250
Moorhead F-15 Northfield G-17	50 1000	KGFK KFMX	1500 1250	Red Bank I-27	100	WJBI WOAX	1210
	1000	WCAL	1250	Trenton I-26	500	WOAX	1280
St. Paul G-17	1000 10000	WLB KSTP	1250 1460	Zarephath I-27	250	WAWZ	1350
MISSISSIPPI	10000	KSII	1400	NEW MEXICO			
Greenville O-18	100	WRBO	1210	Albuquerque N-7	250	KGGM	1230
Gulfport O-19	100	WRBQ WGCM	1210	Raton M-11 State College P-9	50	KGFL	1370
Hattiesburg Q-19 Jackson P-19 Meridian P-20	10 1000	WRBJ	1370 1270	State College P-9	20000	KOB	1180
Meridian P-20	500	WJDX WCOC	880				
Tupelo N-20	100	WDIX	1500	NEW YORK			
Vicksburg P-18	300	WQBC	1360	Albany H-27	500 100	WOKO WMBO	1440
MISSOURI				Auburn H-25 Binghamton H-26	100	WNBF	1310 1500
Cp. Girardeau L-19	100	<b>KFVS</b>	1210	Brooklyn I-27	500	WBBC	1400
Columbia K-17	500	KFRU	630		1000 500	WBBR WCGU	1300 1400
Grant City J-16 Jefferson City L-17 Joplin M-16	50 500	KGIZ WOS	1500 630		500	WFOX	1400
Joplin M-16	100	WMBH	1420		500 100	WLTH WMBQ	1400 1500
Kansas City K-16	1000 100	KMBC KWKC	950 1370		100	WMIL	1500
	1000	WDAF	610	Buffalo H-24	1000	WBEN	900
	500 1000	WHB WOQ	860		100 1000	WEBR WGR	1310 550
St. Joseph K-16	2500	KFEO	1300 680		5000	WKBW	1480
-	100	KGBX	1310	ł	1000 50	WMAK WSVS	1040 1370
St. Louis L-18	500 100	KFUO KFWF	550 1200	Canton F-26	500	WSVS WCAD	1220
	50000	KMOX	1090	Freeport I-27	100	WGBB	1210
	500	KSD	550	Glens Falls G-27 Ithaca H-25	50 1000	WBGF WEAI	1370 1270
	1000 1000	KWK WEW	1350 760		50	WLCI	1210
	100	WIL	1200	Jamaica H-27 Jamestown H-24	100	WMRJ WOCL	1210
MONTANA				Long Island City I-22	50 7 100	WLBX	1210 1500
Billings F-9	1000	KGHL	950	Long Island City I-22 New York City I-27	5000	WABC	860
Butte F-7 Great Falls E-8	500 1000	KGIR KFBB	1360 1280	1	250 5000	WBNX WBOQ	1350 860
Kalispell D-7	100	KGEZ	1310		250	WCDA	1350
Missoula E-7	100	KGVO	1420		50000	WEAF	660
Wolf Point E-11	100	KGCX	1310		500 500	WEVD WGBS	1300 1180
NEBRASKA		TF3 62 5 5			1000	WHAP	1300
Clay Center J-14 Lincoln J-15	1000 5000	KMMJ KFAB	740 770		250 30000	WHN	1010
PHICOIRI J-10	100	KEOR	1210		5000	WJZ WLWL	760 1100
Na	500	WCAJ WJAG	590		500	WINCA	570
Norfolk I-15 North Platte J-1 <b>3</b>	. 1000 500	WJAG KGNF	1060 1430		250 500	WMSG WNYC	1350 570
Omaha J-15	500	WAAW	660		1000	wov	1130
	1000	wow	590	ľ	250	WPAP	1010
Ravenna I-14		V CEW	1210				
Ravenna J-14 Scottsbluff I-11 York J-15	100 100	KGFW KGKY	1310 1500		500 250	WPCH WQAO	810 1010

Patchogue I-27	100	WPOE	1370	Marshfield F-1	100	KOOS	1370
Rochester G-25	5000 500	WHAM WHEC	1150 1440	Medford G-2 Portland E-3	100 5000	KMED KEX	1310 1180
Saranac Lake F-26	50	WNBZ	1290	l orthana E-5	100	KBPS	1420
Schenectady G-27	50000	WGY	790	l	500	KFJR KGW	1300
Syracuse G-25	1000	WFBL	1360		1000 1000	KGW	620
	250 250	WMAC WSYR	570 570		500	KOIN KTBR	940 1300
Troy G-27	500	WHAZ	1300		500	KWJJ KXL	1060
Tupper Lake F-26	10	WHDL	1420	l	100	KXL	1420
Utica G-26 Woodside I-27	100 100	WIBX WWRL	1200 1500	PENNSYLVANI	Δ		
Yonkers I-27	100	WCOH	1210			WCDA	1440
10111010 1 27	100			Allentown I-26	250 250	WCBA WSAN	1440 1440
				Altoona I-25	100	WFBG	1310
NORTH CAROL	JINA		- 1	Carbondale H-26	10	WNBW	1200
Asheville M-23	1000	WWNC	570	Elkins Park I-26 Erie H-24	50	WIBG	930
Charlotte M-24	5000	WBT	1080	Grove City I-24	100 100	WEDH WSAJ	1420 1310
Gastonia M-24	100 500	WSOC	1210 1440	Harrisburg I-25	500	WBAK	1430
Greensboro M-24 Raleigh M-25	1000	WBIG	680	1	100	WCOD	1200
Wilmington N-26	100	WPTF WRBT	1370	l	500	WHP	1430
Winston-Salem M-24	100	WSJS	1310	Johnstown J-24	100	WJAC WGAL	1310
				Lancaster I-26	100 100	WKJC	1310 1200
NORTH DAKO	ΓΑ			Lewisburg I-26	100	wibu	1210
Bismarck F-13	1000	KFYR	550	Oil City I-24	500	WLBW	1260
Devils Lake E-14	100	KDLR	1210	Philadelphia I-26	10000	WCAU	1170
Fargo F-15	1000	WDAY	940 l	1	100 500	WELK WEAN	1370 610
Grand Forks E-15	100	KFJM KGCU	1370	l	500	WFI	560
Mandan F-13	100	KGCU	1200		100	WHAT	1310
Minot E-13	100	KLPM	1420		500	WIP	610
OHIO				1	500 100	WLIT WPEN	560 1500
	4000	W D.O	4222	ı	250	WRAX	1020
Akron I-23 Canton I-23	1000 10	WADC WHBC	1320 1200	-	100	WTEL KDKA	1310
Cincinnati K-22	100	WFBE	1200	Pittsburgh J-24	50000	KDKA	980
Chichmati It-22	1000	WKRC	550		500	KQV WCAE	1380
	50000	WLW	<i>7</i> 00	(	1000 1000	WJAS	1220 1290
C11 7 22	500 500	WSAI	1330		100	wwsw	1500
Cleveland I-23	1000	WGAR WHK	1450 1390	Reading I-26	100	WRAW	1310
	500	WJAY	610	Scranton H-26	250	WGBI	880
	50000	WJAY WTAM	1070	State College I-25	250 500	WQAN WPSC	880 1230
Columbus J-22	500	WAIU	640	Washington J-24	100	WNBO	1200
	500 750	WCAH WEAO	1430 570	Wilkes-Barre I-26	100	WBAX	1210
	100	WSEN	1210	Williamsport I-25	100	WBRE	1310
Dayton J-22	200	WSEN WSMK	1380	Williamsport 1-25	100	WRAK	1370
Mansfield J-22	100	WJW	1210	PORTO RICO			
Mount Orab K-22 Steubenville J-23	100 50	WHBD WIBR	1370 1420		F	*****	
Toledo I-22	500	WIBR WSPD	1340	San Juan W-34	500	WKAQ	890
Youngstown I-23	500	WKBN	5 <b>7</b> 0				
Zanesville J-23	100	WALR	1210	RHODE ISLAN	D		
			I	Newport H-28	100	<b>WMBA</b>	1500
OKLAHOMA				Pawtucket H-28	100	WPAW	1210
Chickasha N-14	250	KOCW	1400	Providence H-28	100	WDWF	1210
Elk City N-13	100	KGMP	1210		250 250	WEAN WJAR	780 890
Enid M-14	100	KCRC	1370		100	WLSI	1210
Norman N-15	500 5000	WNAD	1010				-213
Oklahoma N-15	100	KFJF KFXR	1480 1310	SOUTH CAROL	<b>LINA</b>		
	100	KGFG	1370	Charleston O-25	500	WCSC	1360
	1000	WKY	900	Columbia N-24	500	WIS	1010
Ponca City M-15	100	WBBZ	1200	Spartanburg N-23	100	WSPA	1420
S. Coffeyville M-15 Shawnee N-15	500 100	KGGF KGFF	1010	SOUTHIE DATE	D.4		
Tulsa M-15	5000	KVOO	1420 1140	SOUTH DAKO			
	0000	11,00	1140	Brookings H-15	500	KFDY	550
OREGON				Huron H-14	100	KGDY	1200
Astoria D-2	100	KFJI	1370	Mitchell H-14 Pierre G-13	100 200	KGDA KGFX	1370 580
Corvallis E-2	1000	KOAC	550	Rapid City H-12	100	WCAT	1200
Eugene F-2	100	KORE	1420	Sioux Falls H-15	2000	KSOO	1110
				I			

TENNESSEE Bristol L-23								
Watertown G-15	Vermillion I-15	500	KUSD	890	Petershurg I -26	100	WI BC	1200
TENNESSE   Bristoil L-33	Watertown G-15		KGCR	1210	Richmond K-26		WBBL	1210
TENNESSEE Bristol L-23	Yankton I-15		WNAX		1110110110110			1210
December   Color   C							WRVA	1110
Bristol L-23	TENNESSEE				Roanoke L-24		WDBJ	
Chattanooga N-21 1000 WDOD Knoxville M-22 1000 WNOX 500 WNOX 500 WNOX 500 WNOX 500 WNOX 500 WHER 500 WHER 500 WHER 500 WHER 500 WHER 500 WHER 500 WNOX 500 WHER 500 WHER 500 WNOX 500 WHER 500 WHER 500 WNOX 500 WHER 500 W		100	WOPI	1500	WA CLAND COROLL	250	WRBX	1410
Rinoxville M-22			WDOD	1280	WASHINGTON			*
Memphis N-19	Knoxville M-22	50	WFBC	1200		75	KXRO	1310
Memphis N-19					Bellingham C-3			1200
Nashville M-21	11 11 17 10							
Nashville M-21	Memphis N-19		WGBC	1430	Lacey D-3	1000	KGY	
Nashville M-21   5000   WLAC   1470   1000   KOMO   920			WILDO	780	Pullman E-5		KEOW	
Nashville M-21   5000   WLAC   1470   1000   KOMO   920			WNBR	1430	Seattle C-3		K IB W	
Nashville M-21   5000   WLAC   1470   1000   KOMO   920			WREC	600		1000	KOL.	1270
Springfield M-20	Nashville M-21		WLAC.		ľ	1000	KOMO	920
TEXAS Abilene P-13 Abilene P-13 Austin Q-14 Austin Q-14 Austin Q-14 Beaumont R-17 Soo KFP Brownsville U-15 Brownsvoid P-14 Corpus Christi S-14 Dallas P-15 Dullin P-14 El Paso P-9 100 KFP I100	•	5000	WSM	650			KPCB	650
TEXAS Abilene P-13 Abilene P-13 Austin Q-14 Austin Q-14 Austin Q-14 Beaumont R-17 Soo KFP Brownsville U-15 Brownsvoid P-14 Corpus Christi S-14 Dallas P-15 Dullin P-14 El Paso P-9 100 KFP I100		100	WSIX	1210		50	KRSC	1120
Abilene P-13 Abilene P-14 Doublin D-14 Doublin P-15 Doublin P-14 Doublin P-14 Doublin P-14 Doublin P-14 Doublin P-14 Doublin P-14 Doublin P-15 Doublin P-14 Doublin P-15 Doublin P-15 Doublin P-15 Doublin P-15 Doublin P-16 Doublin P-16 Doublin P-17 Doublin P-17 Doublin P-18 Doublin P-18 Doublin P-19 Doubl	Union City M-19	100	WOBT	1310			KTW	
Abilene P-13 Abilene P-13 Amarillo N-12 1000 KGRS 1410 Amarillo N-12 1000 KGRS 1410 1000 KGRS 1200 1000 KGRS 12						100	KVL	
Amarillo N-12 1000 KFY 0 1420 Amarillo N-12 1000 KPY 0 1440 Beatumont R-17 Bow Word College Sta. Q-15 Corpus Christi S-14 Dallas P-15 100 KGFI Dublin P-14 100 KFPL 1310 EI Paso P-9 100 KTSM 1310 Fort Worth P-15 100 KFPL 1310 Galveston R-16 100 KFIZ 1370 Galveston R-16 100 KFIZ 1370 Houston R-16 100 KFIX 1370 Galveston R-16 100 KGKL 1290 Houston R-16 100 KGKL 1370 KGKI	TEXAS				Spoleone D 5			
Austin O-14		100	KFYO		Spokane D-5			
Austin Q-14 Beaumont R-17 Beaumont R-17 Subscript Subscr	Amarillo N-12		KGRS	1410		5000	KGA	
Tacoma D-3	4 0.44		WDAG	1410			KHO	
Brownsville U-15					Tacoma D-3	500	KMŌ	860
Brownwood P-14			KFDM	1360		1000	KVI	760
College Sta. Q-15 Corpus Christi S-14 100 KGFI 1500 Dallas P-15 10000 KRLD 1040 WFAA 800 50000 WFAA 800 S500 WFA 1280 100 KFPL 1310 El Paso P-9 100 KTSM 1310 100 WDAH 1310 100 KTSM 1310 100 WBAH 1310 100 KTAT 10000 WBAP 800 1000 KTAT 10000 WBAP 800 1000 KTAT 1240 1000 KTL 1370 1000 KTL 1370 1000 KTL 1370 1000 KTRD 1310 1000 KTAT 1240 1000 KFPL 1290 1000 KTRD 1310 KGKL 1370 100 KTRD 1000 WACO 1240 Wichita Falls O-14 250 KGKO 570 KSL 1330 KSL 1	Brownsville U-15		KCKB	1500		100		
Corpus Christi S-14			WTAW		Wenatchee D-4	50		
Dallas P-15	Corpus Christi S-14		KĞFI		Yakima D-4	50	KIT	1310
Dublin P-14   100 WRR   1280   El Paso P-9   100 KTSM   1310   100 WDAH   1310   1000 WBAP   1280   1000 KFIZ   1370   1000 KTAP   1320   1000 KTAP   1320   1000 KTAP   1320   1000 KTAP   1420   1000 WTM   1320   1000 KTAP   1320   1000 KT	Dallas P-15	10000	KRLD		WEST VIDONI			
Dublin P-14		50000	WFAA	800				
El Paso P-9	D 111 D 11		WRR		Bluefield L-24	100		1410
The color of the						250		
Fort Worth P-15	El Paso P-9		KISM	1310	Fairmont J-24	250	WIMIMIN	
Galveston R-16	Fort Worth P-15		KEIZ.	1370	Wheeling I-24		WWVA	
Galveston R-16	Fort Worth F-13		KTAT	1240		3000	WWWA	1100
Galveston R-16			WBAP		WISCONSIN			`
Greenville O-15	Galveston R-16	100	KFLX	1370	Eau Claire G-18	1000	WTAO	1330
Schemble O-15	0 0.17		KFUL	1290			KFIZ	
Houston R-16	Greenville O-15	15	KFPM	1310	Green Bay G-19	100	WHBY	1200
Nadison H-19	Harlingen 1-14		KRGV	1260	I Janesville I-19	100	WCLO	
San Angelo Q-13	Houston K-16		KTIC		La Crosse H-18	1000	WKBH	1380
San Angelo Q-13			KTEH		Madison H-19	750		1200
San Angelo Q-13   100   KGKL   1370   100   KTAP   1420   1000   KTAP   1420   1000   KTAP   1420   1000   WTMJ   620   1200			KXYZ	1420	ſ	250		780
100   KONO   1370   1000   KTAP   1420   1000   KTAP   1420   1000   KTSA   1290   50000   WOAI   1190   MACO   1240   Wichita Falls O-14   250   KGKO   570   Wishboygan H-20   5000   WhBL   1410   Stevens Pt. G-19   2000   WLBL   900   Stevens Pt. G-19   2000   WLBL   900   Stevens Pt. G-19   2000   WLBL   900   WEBC   1290   WEBC	San Angelo Q-13	100	KGKL	1370	Manitowac H-20	100	WOMT	1210
100   KONO   1370   1000   KTAP   1420   1000   KTAP   1420   1000   KTSA   1290   50000   WOAI   1190   MACO   1240   Wichita Falls O-14   250   KGKO   570   Wishboygan H-20   5000   WhBL   1410   Stevens Pt. G-19   2000   WLBL   900   Stevens Pt. G-19   2000   WLBL   900   Stevens Pt. G-19   2000   WLBL   900   WEBC   1290   WEBC	San Antonio R-14	100	KMAC	1370				
Waco Q-15		100	KONO	1370	1	250	WISN	
Waco Q-15					ı	1000	WTMJ	
Waco Q-15 Wichita Falls O-14         1000 250         WACO KGKO         1240 570           UTAH Ogden I-7 Salt Lake City I-7         500 1000         KLO 1000         1400 1370         WYOMING Casper H-10         WYOMING           VERMONT Burlington F-27 St. Albans F-27 Springfield G-27         100 100         WCAX 1200 WSYB 1500         1200 KSL         ALBERTA           VIRGINIA Alexandria K-26 Panorylle L-25 Emory L-23         1000 1000         WJSV 1460 WSYB 1370         1460 1400 1400 1400 1400 1400 1400 1400			KISA	1290	Poynette H-19		WIBU	1210
VITAH	Wass O-15		WACO		Racine I-20		WRJN	1370
UTAH Ogden I-7 Salt Lake City I-7 Salt Lake City I-7 Solv KLO Solv KDYL Solv KDY Solv KDFN Solv CFAC Solv CFCN Sol	Wichita Falls O-14			570	Sheboygan H-20	500		1410
UTAH Ogden I-7 Salt Lake City I-7 Sult Lake City I-	Wichita Lang G-11	200	Koko	370	Stevens Pt. G-19			
Ogden I-7 Salt Lake City I-7         500 1000 5000         KLO KDYL KDYL 1290 KDYL 1130         1400 1290 KDYL 1130         WYOMING Casper H-10         1210           VERMONT Burlington F-27 St. Albans F-27         100 100         WCAX 1200 WSYB 1500 Springfield G-27         100 100         WODM 1370 WNBX         1200 1200           VIRGINIA         ALBERTA Calgary B-7         500 500 500 500 500 500 500 500 500 500	TITATI				Superior F-17	1000	WEBC	1290
VERMONT		=00	***		DIVOMINIC			
VERMONT Burlington F-27	Ogden 1-7		KLO	1400	1,			
VERMONT	Sait Lake City 1-7				Casper H-10	100	KDFN	1210
Burlington F-27 100 WCAX 1200 Rutland G-27 100 WSYB 1500 WSYB 1500 St. Albans F-27 100 WODM 1370 Springfield G-27 10 WNBX 1200 WNBX 1200 VIRGINIA  Alexandria K-26 1000 WJSV 1460 Arlington J-25 1000 NAA 690 Danville L-25 100 WBTM 1370 Edmonty L-23 500 WEHC 1350 Lynchburg L-25 100 WLVA 1370 Newport News L-26 100 WGH 1310 Norfolk L-26 500 WPOR 780 CHCT 840 Norfolk L-26 500 WGH 2300 CHCT 840 Norfolk L-26 500 WPOR 780 CHCT 840 Norfolk L-26 500 WCAX 1200 CANADA  ALBERTA  Calgary B-7 500 CFAC 690 500 CHCA 690 500 CHCA 690 500 CNRC 690 Edmonton A-8 500 CJCJ 930 CNRC 690 CNRC 690 CJCJ 930 CHCT 840 CHCT 840 Norfolk L-26 500 WPOR 780 1000 CKLC 840	VEDMONT	5000	KSL	1130				
Rutland G-27 100 WSYB 1500 St. Albans F-27 100 WODM 1370 Springfield G-27 10 WNBX 1200  VIRGINIA  Alexandria K-26 10000 WJSV 1460 Arlington J-25 1000 WBTM 1370 Bmory L-23 500 WEHC 1350 Lynchburg L-25 100 WLVA 1370 Newport News L-26 100 WGH 1310 Norfolk L-26 500 WGH 780  NSYB 1500 ALBERTA  Calgary B-7 500 CFAC 690 500 CFCN 690 500 CHCA 690 Edmonton A-8 500 CJCJ 690 Lethbridge C-8 500 CJCA 930 Lethbridge C-8 50 CJCC 1120 Red Deer A-8 1000 CHCT 840 Norfolk L-26 500 WPOR 780		100	7770 4 77	1000		A TD A		
St. Albans F-27         100         WODM 1370 by 1200         ALBERTA           Springfield G-27         10         WNBX         1200           VIRGINIA         500         CFAC 690 by 1200           Alexandria K-26         1000         WJSV 1460 by 1400         500 CHCA 690 by 1400 by	Burlington F-27	100	WCAX	1200	L CAN	ADA		
VIRGINIA         Ly160         WBX         1200         Calgary B-7         500         CFAC         690           Alexandria K-26         10000         WJSV         1460         500         CHCA         690           Arlington J-25         1000         NAA         690         500         CNRC         690           Danville L-25         100         WBTM         1370         Edmonton A-8         500         CJCA         930           Lynchburg L-25         100         WLVA         1370         Lethbridge C-8         50         CJCA         580           Lynchburg L-26         100         WGH         1310         Lethbridge C-8         50         CJCC         1120           Norfolk L-26         500         WPOR         780         1000         CKLC         840	St Albans F 27		MODM	1370	AT DEDTA			
VIRGINIA  Alexandria K-26 10000 WJSV 1460 Arlington J-25 1000 NAA 690 Danville L-25 100 WBTM 1370 Edmort L-23 500 WEHC 1350 Lynchburg L-25 100 WLVA 1370 Newport News L-26 100 WGH 1310 Norfolk L-26 500 WPOR 780  Calgary B-7 500 CFCN 690 500 CHCA 690 500 CHCA 690 Edmonton A-8 500 CJCA 930 Lethbridge C-8 500 CJCA 930 Lethbridge C-8 500 CJCA 120 Red Deer A-8 1000 CHCT 840			WNBY		ALBERIA			
VIRGINIA  Alexandria K-26 10000 WJSV 1460 Arlington J-25 1000 NAA 690 Danville L-25 100 WBTM 1370 Emory L-23 500 WEHC 1350 Lynchburg L-25 100 WLVA 1370 Newport News L-26 100 WGH 1310 Norfolk L-26 500 WPOR 780  South CFCN 690 500 CFCA 690 500 CNRC 690 Edmonton A-8 500 CJCA 930 Lethbridge C-8 50 CJCA 120 Red Deer A-8 1000 CHCT 840	opringheid G-27	10	WINDA	1200	Calgary B-7		CFAC	
Alexandria K-26 10000 WJSV 1460 Arlington J-25 1000 NAA 690 Danville L-25 100 WBTM 1370 Emory L-23 500 WEHC 1350 Lynchburg L-25 100 WLVA 1370 Newport News L-26 100 WGH 1310 Norfolk L-26 500 WPOR 780 Norfolk L-26 500 WPOR 780	VIRGINIA					500	CFCN	
Danville L-25   100 WBTM   1370   Edmonton A-8   500 CJCA   930   500 CMLA   580   580 CJCA		10000	WION	1460			CHCA	
Danville L-25   100 WBTM   1370   Edmonton A-8   500 CJCA   930   500 CMLA   580   580 CJCA	Arlington I 25		WJSV		l		CYBC	
Emory L-23 500 WEHC 1350 Lynchburg L-25 100 WLVA 1370 Rewport News L-26 100 WGH 1310 Norfolk L-26 500 WPOR 780 Lethbridge C-8 500 CKUA 580 Lethbridge C-8 1000 CHCT 840 Norfolk L-26 500 WPOR 780 1000 CKLC 840	Danville I -25		WRTM	1370	Edmonton A 8	500	CICA	
Lynchburg L-25     100 WLVA     1370   Lethbridge C-8     50 CJOC     1120       Newport News L-26     100 WGH     1310   Red Deer A-8     1000 CHCT     840       Norfolk L-26     500 WPOR     780   1000 CKLC     840	Emory L-23			1350	Editionion A-6	500	CKUA	
Newport News L-26 100 WGH 1310 Red Deer A-8 1000 CHCT 840 Norfolk L-26 500 WPOR 780 Red Deer A-8 1000 CKLC 840	Lynchburg L-25				Lethbridge C-8		CIOC	
Norfolk L-26 500 WPOR 780   1000 CKLC 840	Newport News L-26	100	WGH	1310		1000	CHCT	. 840
500 WTAR 780 1000 CNRD 840	Norfolk L-26	500	WPOR	<b>780</b>		1000	CKLC	840
		500	WTAR	<b>780</b>		1000		840

BRITISH	Watts	K ava	SASKATCHEWA	N	
COLUMBIA	vv alls	Kcys.			V 600
Chilliwack B-3	50 CHWK	665	Fleming C-13 Moose Jaw C-11	500 CJRN	4 600
Kamloops B-5	100 CFJC	1120	Regina C-12	500 CHW	C 960
Sea Island Vancouver B-3	50 CJOR 50 CHLS	1210 730	•	500 CJBR 500 CKCI	2 960 Z 960
Valicouvel B-0	50 CKCD	730	l	500 CNRI	₹ 960
	50 CKFC	730	Saskatoon B-11	500 CFQC 500 CNRS	S 910 S 910
	50 CKMO 100 CKWX	730 730	Yorkton B-13	500 CJG2	630
	500 CNRV	1030			
Victoria C-3	500 CFCT	630	HAITI		
MANITOBA			Port au Prince X-30	1000 HHK	920
Brandon D-14	500 CKX	540	MEXICO		
Winnipeg D-15	500 CKX 5000 CKY 5000 CNRW	780		250 YEO	005
	5000 CNRW	780	Aguascalientes W-10 Chihuahua, Chih. R-9	350 XFC 250 XFF	805 915
NEW BRUNSW	IICK		Guadalajara, Jal. X-10	) 101 XEA	1200
Fredericton D-29	500 CFNB	1210	Juarez P-9	101 XEJ 1000 XEQ	857 1015
Moncton D-30	500 CNRA	630	Laredo, N. L. S-13	101 XEF	980
St. John D-30	500 CFBO	890	<b>ll</b>	2500 XEP	1400
NEWFOUNDLA	ND		Merida, Yuc. X-19 Mexico City Y-13	105 XEY 1000 XEB	547 1030
St. Johns A-35	500 8WMC	682	Intelled City 1 10	250 XEFA	1250
NOVA SCOTTA				101 XEK 1000 XEN	990
NOVA SCOTIA	10000 VAS	685	1	1000 XEN 5000 XEO	711 940
Glace Bay C-32 Halifax E-31	500 CHNS	910		101 XER	674
	500 CNRH	910		500 XETA 100 XET	
Sydney C-32 Wolfville D-31	50 CJCB 50 CKIC	880 1010		2000 XET	
WONVING D-OI	30 CICIC	1010		500 XEX	1210
ONTARIO			1	5000 XEW 500 XEZ	780 588
Chatham H-22 Cobalt E-23	100 CFCO 15 CKMC	1210 1210	I.	2000 XFG	638
Hamilton H-24	10 CHCS	1120		1000 XFI 500 XFX	818 860
	50 CHML	880	Monterrey, N. L. U-13	5000 XEH	1080
Kingston G-25	50 CKOC 500 CFRC	1120 930	II .	500 XET	630
London H-23	5000 CJGC	910	Oaxaca, Oak, AA-14	101 XEI 105 XEE	1000 1132
North Bay	500 CNRL 50 CFCH	910 1200	Puebla Z-13	101 XEV	1034
Ottawa F-25	100 CKCO	890	Morelia, Mich. Y-12 Oaxaca, Oak. AA-14 Puebla Z-13 Reynosa, Tams. T-14 Saltillo, Coah. U-12	101 XEV 10000 XED 10 XEL	961 1091
	100 CKCO 500 CNRO	600	Tampico, Tams. W-14	500 XEM	730
Port Arthur E-19 Prescott F-25	50 CKPR 50 CFLC	890 1010	· ·	500 XES	890
Preston H-23	25 CKPC	1210	Toluca. Y-12 Veracruz, Ver. Z-14	50 XEC 500 XETI	1333 680
Toronto G-24	500 CFCA 500 CFCL	840 580		101 XEU	800
	5000 CFRB	960	CUBA		
	500 CKCL	580	Caibarien W-25	250 CMH	D 920
	5000 CKGW 500 CKNC	69 <b>0</b> 580	Cardenas W-24	30 CMG	E 1375
	500 CNRT	840	Camaguey W-26	10 CMJ 15 CMJ	
	5000 CNRX 5000 CPRY	960 690		5 CM II	3 8 <b>5</b> 6
Waterloo G-23	50 CKCR	1010	Ciego de Avila W-26	20 CMJ	3 1276
Wingham G-23	25 10-BP	1200	Cienfuegos W-25	200 CMH 40 CMH	A 1154 J 645
PRINCE EDWA	מוא זפו מש		Cifuentes	10 CMH	H 870
Charlottetown C-31	250 CFCY	960	Colon W-24	100 CMG	A 834
	100 CHCK	960	Guanajay W-23 Havana W-23	30 CMA 50 CMB	
Summerside C-31	100 CHGS	1120	220.0110 11-20	150 CMB	C 955
QUEBEC	•			150 CMB 150 CMB 7.5 CMB	D 955
Montreal E-26	1650 CFCF	1030		7.5 CMB 150 CMB	F 1345 G 1070
	5000 CHYC	730		30 CMB	I 1405
	5000 CKAC 5000 CNRM	730		15 CMB	J 1285
Quebec D-27	100 CHRC	730 645		15 CMB 15 CMB	K 1405 L 1500
	22 CKCI	880		15 CMB	M 1285
	50 CKCV 50 CNRQ	880 880		30 CMB 15 CMB	
	JU CINKQ	800		15 CIVID	. 1900
			<u> </u>		

CFAC 690		CKAC 730		CMBS 790		CMHJ 645	
Calgary, Alta.		Montreal, Que.		Havana, Cuba		Cienfuegos, Cuba	
CFBO 890		CKCD 730		CMBT 1070		CMJA 1332	
St. John, N. B. CFCA 840		Vancouver, B.C. CKCI 880		Havana, Cuba CMBW 1010		Camaguey, Cuba CMJB 1276	
Toronto, Ont.		Quebec, Que.	!	Havana, Cuba	- 1	Ciego de Avila	l
CFCF 1030		CKCK 960		CMBX 1405		CMJC 1321	
Montreal, Que.		Regina, Sask.		Havana, Cuba		Camaguey, Cuba	
CFCH 1200		CKCL 580		CMBY 1405		CM JE 856	,
North Bay, Ont.		Torento, Ont.		Havana, Cuba		Camaguey, Cuba CMK 730	
CFCL 580 Toronto, Ont.		CKCO 890 Ottawa, Ont.		CMBZ 1010 Havana, Cuba	- 1	Havana, Cuba	
CFCN 690		CKCR 1010		CMC 845		CMKA 1450	
Calgary, Alta.		Waterloo, Ont.		Havana, Cuba		Santiago, Cuba	
CFCO 1210		CKCV 880		CMCA 1225		CMKB 1200	
Chatham, Ont.		Quebec, Que.		Havana, Cuba		Santiago, Cuba	
CFCT 630		CKFC 730		CMCB 1070		CMKC 1034	
Victoria, B. C. CFCY 960		Vancouver, B.C. CKGW 690		Havana, Cuba CMCD 1345		Santiago, Cuba CMKD 1100	
Ch'lottet'n, P.E.I.		Toronto, Ont.		Havana, Cuba	- 1	Santiago, Cuba	
CFJC 1120		CKIC 1010		CMCF 890		CMKE 1249	
Kamloops, B. C.		Wolfville, N.S.		Havana, Cuba		Santiago, Cuba	
CFLC 1010		CKLC 840		CMCG 1285	- 1	CMKF 1363	
Prescott, Ont. CFNB 1210		Red Deer, Alta. CKMC 1210		Havana, Cuba CMCH 1285		Holguin, Cuba CMKG 1176	
CFNB 1210 Fredericton, N.B.	I	CKMC 1210 Cobalt, Ont.		Havana, Cuba	i i	Santiago, Cuba	
CFQC 910		CKMO 730		CMCJ 550		CMKH 1327	
Saskatoon, Sask.		Vancouver, B.C.		Havana, Cuba		Santiago, Cuba	
CFRB 960		CKNC 580		CMCM 1500		CM Q 1150	
Toronto, Ont.		Toronto, Ont.		Havana, Cuba		Havana, Cuba	
CFRC 930		CKOC 1120		CMCN 1225 Havana, Cuba		CMW 588 Havana, Cuba	
Kingston, Ont. CHCA 690		Hamilton, Ont. CKPC 1210		CMCO 660		CMX 890	
Calgary, Alta.		Preston, Ont.		Havana, Cuba		Havana, Cuba	
CHCK 960		CKPR 890		CMCQ 1150		CNRA 630	
Ch'lottet'n, P.E.I.		Port Arthur, Ont.		Havana, Cuba		Moncton, N.B. CNRC 690	
CHCS 1120		CKUA 580		CMCR 1285 Havana, Cuba	- (1	CNRC 690 Calgary, Alta.	Ļ
Hamilton, Ont. CHCT 840		Edmonton, Alta. CKWX 730		CMCT 1500		CNRD 840	
Red Deer, Alta.		Vancouver, B.C.		Havana, Cuba	11	Red Deer, Alta.	
CHGS 1120		CKX 540		CMCU 1345		CNRH 910	
Sum'rside, P.E.I.		Brandon, Man.		Havana, Cuba		Halifax, N. S.	
CHLS 730	l l	CKY 780		CMCX 1010		CNRL 910 London, Ont.	
Vancouver, B.C. CHML 880		Winnipeg, Man. CMAA 1090		Havana, Cuba CMCY 1345		CNRM 730	
Hamilton, Ont.		Guanajay, Cuba		Havana, Cuba	H	Montreal, Que.	
CHNS 910		I CMAB 1249		CMGA 834		CNRO 600	
Halifax, N.S.		Pinar del Rio, Cu. CMBA 1345		Colon, Cuba		Ottawa, Ont.	
CHRC 645		CMBA 1345		CMGB 1185	- 1	CNRQ 880 Quebec, Que.	
Quebec, Que. CHWC 960		Havana, Cuba CMBC 955		Matanzas, Cuba CMGC 1315		CNRR 960	
Regina, Sask.		Havana, Cuba		Matanzas, Cuba		Regina, Sask.	
CHWK 665		CMBD 955		CMGD 1140		CNRS 910	
Chilliwack, B.C.		Havana, Cuba		Matanzas, Cuba		Saskatoon, Sask.	
CHYC 730		CMBF 1345		CMGE 1375		CNRT 840	
Montreal, Que. CJBR 960		Havana, Cuba CMBG 1070		Cardenas, Cuba CMGF 977		Toronto, Ont. CNRV 1030	
CJBR 960 Regina, Sask.		CMBG 1070 Havana, Cuba		Matanzas, Cuba		Vancouver, B.C.	
CJCA 930		CMBI 1405		CMGH 1249		CNRW 780	
Edmonton, Alta.		Havana, Cuba		Matanzas, Cuba		Winnipeg, Man.	
CJCB 880		CMBJ 1285		CMGI 1094		CNRX 960	
Syndey, N.S.		Havana, Cuba		Matanzas, Cuba		Toronto, Ont. CPRY 690	
CJCJ 690		CMBK 1405 Havana, Cuba	1	CMHA 1154	- 1	CPRY 690 Toronto, Ont.	
Calgary, Alta. CJGC 910		CMBL 1500		Cienfuegos, Cuba _ CMHB 1500		HHK 920	
London, Ont.		Havana, Cuba		Sagua la Grande	l l	Port au Prince, H.	
CJGX 630		CMBM 1285		CMHC 790		KBPS 1420	
Yorkton, Sask.		Havana, Cuba		Tuinucu, Cuba		Portland, Ore.	
CJOC 1120		CMBN 1405		CMHD 920		KBTM 1200	
Lethbridge, Alta.		Havana, Cuba CMBP. 1500	I——	Caibarien, Cuba _ CMHE 1429		Paragould, Ark. KCRC 1370	
CJOR 1210 Sea Island, B.C.		Havana, Cuba		Santa, Clara Cu.	- 1	Enid, Okla.	
CJRM 600		CMBQ 1405		CMHH 870		KCRJ 1310	
Moose Jaw, Sask.		Havana, Cuba		Cifuentes, Cuba		Jerome, Ariz.	
CJRW 600		CMBR 1500		CMHI 1110		KDB 1500	
Fleming, Sask		Havana, Cuba		Santa Clara, Cu.		S. Barbara, Cal.	
				-			

KDI'N				100	1110
KDFN 1210	KFPM 1310		KGDM 1100	KGW 620	
Casper, Wyo.	Greenville, Tex.		Stockton, Cal.	Portland, Ore.	
KDKA 980	KFPW 1340		KGDY 1200	KGY 1200 Lacey, Wash.	
Pittsburgh, Pas Land	Ft. Smith, Ark. KFPY 1340		Huron, S. D. KGEF 1300	- KHJ Wash.	
Devils Lake, N.D.	Spokane, Wash.		Los Angeles, Cal.	Los Angeles, Cal KHQ 590	
KDYL 1290	KFQD 1230		KGEK 1200	KHQ 590	
Salt Lake City	Anchorage, Alas.		Yuma, Colo. KGER 1360	Spokane, Wash. KICK 1420	
KECA 1430	Holy City, Cal.		II Long Beach, Cal.	Red Oak, Iowa.	
Los Angeles, Cal. KELW 780	Holy City, Cal. KFQW 1420	,	KGEW   1200	II KID 1320	
Burbank, Cal.	Seattle, Wash.		Ft.Morgan, Colo.	Idaho Falls, Ida. KIDO 1250	
KEX 1180	KFRC 610 San F'ncisco, Cal.		KGEZ 1310 Kalispell, Mont.	Boise, Idaho	
Portland, Ore. KFAB 770	-   KFRU 630	·   ——	KGFF 1420	KIT 1310  -	
Lincoln, Nebr.	Columbia, Mo.		Shawnee, Okia.	Yakima, Wash.	
KFBB 1280	II KFSD 600		KGFG 1370	KJBS 1070	
Great Fls., Mont.	San Diego, Cal.		Oklahoma City KGFI 1500	San F'ncisco, Cal KJR 970	
KFBK 1310	KFSG 1120 Los Angeles, Cal.		Corpus Ch'sti,Tex	Seattle Wash	
Sacramento, Cal KFBL 1370	- KFUL 1290		KGFJ 1200	II KLCN 1290	
Everett, Wash.	Galveston, Tex.		Los Angeles, Cal.	Blytheville, Ark.  _	
KFDM 560	KFUM 1270		KGFK 1500	KLO 1400	
Beaumont, Tex.	— Col. Spgs., Colo. <b>KFUO</b> 550		Moorhead, Minn KGFL 1370	Ogden, Utah KLPM 1420 _	
KFDY 550 Brookings, S.D.	St. Louis, Mo.		Raton, N. M.	Minot, N. Dak.	
KFEL 920	KFUP 1310		Raton, N. M. KGFW 1310	KLRA 1390	
Denver, Colo.	Denver, Colo.		Ravenna, Nebr.	Little Rock, Ark.	
KFEQ 680	II KFVD 1000		KGFX 580	KLS 1440	
St. Joseph, Mo. KFGQ 1310	Culver City, Cal. KFVS 1210		Pierre, S. D. KGGC 1420	Oakland, Cal. KLX 880	
Boone Iowa	Cape Gir'rd'u, Mo		San F'ncisco, Cal.	Oakland, Cal.	
KFH 1300	KFWB 950		KGGF 1010	KLZ 560	
Wichita, Kansas	Hollywood, Cal. KFWF 1200		Coffeyville, Okla.	Denver, Colo.	
KFI 640	KFWF 1200 St. Louis, Mo.		KGGM 1230	KMA 930 Shenandoah, Ia.	
Los Angeles, Cal KFIO 1120	- KFWI 930		Alb'q'rque, N.M KGHF 1320	KMAC 1370  -	
Spokane, Wash.	San F'ncisco, Cal.	.	Pueblo, Colo,	San Antonio, Tex.	
KFIU 1310	KFXD 1420		KGHI 1200	KMBC 950	
Juneau, Alaska	Nampa, Idaho	I	Little Rock, Ark KGHL 950	- Kan. City, Mo KMCS 1120	
KFIZ 1420 Fond du Lac, Wis	KFXF 920 Denver, Colo.		KGHL 950 Billings, Mont.	Inglewood, Cal	
KFJB 1200	KFXJ   1310		KGIR 1360	KMED 1310	
Marshalitown, Ia.	GrandJunc., Colo.	·	Butte, Mont. KGIW 1420	Medford, Ore	
KFJF 1480	KFXM 1210 San Ber'd'no,Cal.		KGIW 1420 Trinidad, Colo.	KMJ 1210 Fresno, Cal.	
Oklahoma City KFJI 1370	$-\parallel \mathbf{KFXR}  1310$	·	KGIX 1420	KMLB 1200  -	
Astoria, Ore.	Oklahoma City		Las Vegas, Nev.	Monroe La	
KFJM 1370	KFXY 1420			KMMJ 740	
Grd. Forks, N.D.	Flagstaff, Ariz.		Grant City, Mo	Clay Ctr., Nebr KMO 860	
KFJR 1300 Portland, Ore.	KFYO 1420 Abilene, Texas		Little Rock, Ark.	Tacoma, Wash.	
KFJY 1310	KFYR 550		KGKB 1500	KMOX 1090	
Fort Dodge, Ia.	Bismarck, N.D.		Brownwood, Tex.	St. Louis, Mo.	
KF1Z 1370	· II KGA 1470		KGKL 1370	KMPC 710	
Ft. Worth, Tex. KFKA 880	Spokane, Wash.		San Angelo, Tex KGKO 570	Los Angeles, Cal KMTR 570	
Greeley, Colo.	Tucson, Ariz.		Wichita Flls., Tex	Los Angeles, Cal.	
KFKB 1050	KGB 1330		KGKX 1420	KNX 1050	
Milford, Kansas	Ban Diego, Cal.		Sand Point, Ida. KGKY 1500	Los Angeles, Cal.   _ KOA 830   _	
KFKU 1220	KGBU 900 Ketchikan, Al'ka.		KGKY 1500 Scottsbluff, Nebr.	Denver, Colo.	
Lawrence, Kans KFKX 1020	KGBX 1310		Scottsbluff, Nebr KGMB 1320	KOAC 550	
Chicago, Ill.	St. Joseph, Mo.		Honolulu, T. H.	Corvallis, Ore.	
KFLV 1410	II KGBZ 930		KGMP 1210	KOB 1180	
Rockford, Ill.	York, Nebr. KGCA 1270		Elk City, Okla.  KGNF 1430	State Coll., N.M. KOCW 1400	<u> </u>
KFLX 1370 Galveston, Tex.	Decorah, Iowa		No. Platte, Neb.	Chickasha, Okla	
KFMX 1250	KGCR 1210		KGNO 1210	KOH 1380	
N'thfield, Minn.	Watertown, S.D.		Dodge City, Kans.	Reno, Nevada	
KFNF 890	KGCU 1200		KGO 790	KOIL 1260 Council Bluffs, Ia.	
Shenandoah, Ia.	Mandan, N.D.		San F'ncisco, Cal KGRS 1410	- KOIN 940	
KFOR 1210 Lincoln, Nebr.	Wolf P't, Mont.		Amarillo, Texas	Portland, Ore.	
KFOX 1250	KGDA 1370		KGU 940	KOL 1270  _	
Long Beach, Cal.	Mitchell, S. D.		Honolulu, Hawaii	Seattle, Wash.	
KFPL 1310	KGDE 1200		KGVO 1420	KOMO 920 Seattle, Wash.	
Dublin, Texas	Ferg's F'lls, Minn		Missoula, Mont.	- Beautie, Wash.	
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10110			WDAI
KONO 1370	KTLC 1310	WAAF 920	WBZ-A 990
San Antonio, Tex KOOS 1370	Houston, Texas KTM 780	Chicago, Ill. WAAM 1250	Springfield, Mass.
Marshfield, Ore. KORE 1420	Los Angeles, Cal.	Newark, N. J.	WCAC 600 Storrs, Conn.
KORE 1420	KTNT 1170	WAAT 940	WCAD 1220
Eugene, Ore. KOY 1390	Muscatine, Iowa KTRH 1120	Jersey City, N. J. WAAW 660	Canton, N. Y. WCAE 1220
Phoenix, Ariz.	Houston, Texas	Omaha, Nebr.	Pittsburgh, Pa.
KPCB 650	KTSA 1290	WABC 860	WCAH 1430
Seattle, Wash. KPJM 1500	San Antonio, Tex.  KTSL 1310	New York City WABI 1200	Columbus, Ohio WCAJ 590
Prescott, Ariz.	Shreveport, La. KTSM 1310	Bangor, Maine	Lincoln, Nebr.
KPO 680 San F'ncisco, Cal.	KTSM 1310	WABZ 1200	WCAL 1250
KPOF 880	El Paso, Texas KTW 1270	New Orleans, La. WACO 1240	Northfield, Minn WCAM 1280
Denver, Colo.	Seattle, Wash.	Waco, Texas	Camden, N. J.
KPPC 1210	Walla Wal., Wash.	WADC 1320	I WCAO 600
Pasadena, Cal. KPQ 1500	KUOA 1390	Akron, Ohio WAIU 640	Baltimore, Md. WCAP 1280
Wenatchee, Wash KPRC 920	Favetteville, Ark.	Columbus, Ohio	Asbury Pk., N. J. WCAT 1200
KPRC 920	KUSD 890		WCAT 1200
Houston, Texas KPSN 1360	Vermillion, S. D. KUT 1500	Zanesville, Ohio WAPI 1140	Rapid City, S. D. WCAU 1170
Pasadena, Cal.	Austin, Texas	Birmingham, Ala.	Philadelphia, Pa.
KQV 1380	II KVI 760	WASH 1270	WCAX 1200
Pittsburgh, Pa. KQW 1010	Tacoma, Wash. KVL 1370	Gr. Rapids, Mich WAWZ 1350	Burlington, Vt. WCAZ 1070
San Jose, Cal.	Seattle, Wash.	Zarephath, N. J.	Carthage, Ill.
KRE 1370	II KVOA 1260   i	WBAA 1400	WCBA 1440
Berkeley, Cal. KREG 1500	Tucson, Arizona KVOO 1140	Lafayette, Ind. WBAK 1430	Allentown, Pa. WCBD 1080
Santa Ana, Cal. KRGV 1260	Tulsa, Okla	Harrisburg, Pa. WBAL 760-1060	Zion, Ill.
KRGV 1260	KVOS 1200	WBAL 760-1060	WCBM 1370
Harlingen, Texas KRLD 1040	Bellingh'm, Wash. KWCR 1310	Baltimore, Md. WBAP 800	Baltimore, Md. WCBS 1210
Dallas, Texas	Gedar Kapids, 1a.	Fort Worth, Tex. WBAX 1210	Springfield, Ill. WCCO 810
KRMD 1310	KWEA 1210	WBAX 1210 Wilkes-Barre, Pa.	WCCO 810
Shreveport, La. KROW 930	Shreveport, La KWG 1200	WBBC 1400	Minneap., Minn. WCDA 1350
Oakland, Cal.	Stockton, Cal.	Brooklyn, N. Y.	New York City
KRSC 1120 Seattle, Wash.	RwJJ 1060	WBBL 1210 Richmond, Va. WBBM 770	WCFL 970
NSAC SAU	Portland, Ore KWK 1350	WBBM 770	Chicago, Ill. WCGU 1400
Manh'tt'n, Kans. KSCJ 1330	KWK 1350 St. Louis, Mo. KWKC 1370 Kansas City, Mo. KWKH 850 Shyarapart 1 2	I Chicago, Ill.	Brooklyn, N. Y.
Sioux City, Ia.	Kansas City, Mo.	WBBR 1300 Brooklyn, N. Y.	WCHI 1490
KSD and	KWKH 850	I WBBZ 1200 I I	Chicago, Ill. WCKY 1490
St. Louis, Mo. KSEI 900	Shreveport, La. KWLC 1270	Ponca City, Okla. WBCM 1410	Covington, Ky.
Pocatello, Idaho	Decorah Iowa	Bay City, Mich.	WCLO 1200 Janesville, Wis.
KSL 1130	KWSC 1220 Pullman, Wash. KWWG 1260		I WCLS 1310
Salt Lake City KSMR 1200	Pullman, Wash.	Buffalo, N. Y. WBEO 1310	Joliet, Ill. WCMA 1400
Santa Maria, Cal.	Brownsville, Tex.		Culver, Ind.
Santa Maria, Cal. KSO 1380	Brownsville, Tex.  KXA  570	Marquette, Mich. WBGF 1370 Glens Falls, N. Y.	WCOA 1340
Clarinda, Iowa	Beattle, Wash.	Glens Falls, N. Y.	Pensacola, Fla.
KSOO 1110 Sioux Falls, S.D.	KXL 1420 Portland, Ore.	WBIG 1440 Greensboro, N.C.	WCOC 880 Meridian, Miss.
KSTP 1460	KXO 1500	WBIS 1230	WCOD   1200
St. Paul, Minn. KTAB 560	El Centro, Cal. KXRO 1310	Boston, Mass. WBMS 1450	Harrisburg, Pa.
San F'ncisco, Cal.	Aberdeen, Wash	Hackensack, N.J.	WCOH 1210 Yonkers, N. Y.
KTAP 1420	K X Y Z 1420	WBNX 1350	I WCRW 1210
San Antonio, Tex.  KTAR 620	Houston, Texas KYA 1230	New York City	Chicago, Ill.
Phoenix, Ariz.	KYA 1230 San F'ncisco, Cal. KYW 1020	WBOQ 860 New York City	WCSC 1360 Charleston, S. C.
	KYW 1020	WBOW 1310	WCSH 940
Ft. Worth, Tex. KTBI 1300	Chicago, Ill. KZM 1370	Terre Haute, Ind WBRC 930	Portland, Maine
Los Angeles. Cal.	Hayward, Cal.	Birmingham, Ala.	WDAE 1220 Tampa, Fla.
Los Angeles, Cal KTBR 1300	NAA 690	WBRE 1310	WDAF 610
Portland, Ore. KTBS 1450	Arlington, Va. TIC 750	Wilkes-Barre, Pa WBSO 920	Kansas City, Mo.
Shreveport, La.	San Jose, C. R.	Needham Mass.	WDAG 1410 Amarillo, Texas
Shreveport, La. KTFI 1320	II VAS 685	MRT 1080	WDAH 1310 El Paso, Texas
Twin Falls, Ida. KTHS 1040	Glace Bay, N. S. WAAB 1410	Charlotte, N. C.	El Paso, Texas
Hot Spgs., Ark.	Squantum, Mass.	WBTM 1370 Danville, Va.	WDAY 940 Fargo, N. D.
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WDDJ			
WDBJ 930	WFDW 1420	WHDL 1420	WJBO 1420
Roanoke, Va.	Talladega, Ala	TupperLake, N.Y.	New Orleans, La. WJBT 770
WDBO 1120	WFI 560 Philadelphia, Pa.	WHEC 1440 Rochester, N. Y.	Chicago, Ill.
Orlando, Fla. WDEL 1120		WHFC 1420	WJBU 1210
Wilmington, Del.	Hopkinsville, Ky.	Cicero, Ill.	Lewisburg, Pa.
WDGY 1180	WFLA 620	WHIS 1410	WJBW 1200
Minneap., Minn.	Clearwater, Fla	Bluefield, W. Va. — WHK 1390	New Orleans, La WJBY 1210
WDIX 1500	WFOX 1400	WHK 1390 Cleveland, Ohio	Gadsden, Ala.
Tupelo, Miss. WDOD 1280	Brooklyn, N. Y. WGAL 1310	WHN 1010	WJDX 1270
Chattan'ga, Tenn	Lancaster, Pa.	New York City WHO 1000	Jackson, Miss.
WDRC 1330	WGAR 1450	WHO 1000	WJJD 1130
Hartford, Conn.	Cleveland, Ohio	Des Moines, Ia	Mooseheart, Ill.
WDSU 1250	WGBB 1210 Freeport, N. Y.	WHOM 1450	WJKS 1360 Gary, Ind.
New Orleans, La WDWF 1210	—     Freeport, N. 1.   —	Jersey City, N. J WHP 1430	WJŘ 750
WDWF 1210 Providence, R. I.	Memphis, Tenn.	Harrisburg, Pa. WIAS 1420	Detroit, Mich.
WDZ 1070	WCRF 630		WJSV 1460
Tuscola, Ill.	Evansville, Ind.	Ottumwa, Iowa	Alexandria, Va. WJW 1210
WEAF 660	11 WGBI 880 1	WIBA 1280	Mansfield, Ohio
New York City	Scranton, Pa. WGBS 1180	Madison, Wis. WIBG 930	Wiz 760
WEAI 1270	New York City	Elkins Park, Pa.	WJZ 760 New York City
Ithaca, N. Y. WEAN 780	New York City WGCM 1210	WIBM 1370	II WKAO 890
Providence, R. I WEAO 570	Gulfport, Miss	Jackson, Mich.	San Juan, P. R. WKAR 1040
WEAO 570		WIBO 560	WKAR 1040
Columbus, Ohio	Newark, N. J. WGES 1360	Chicago, Ill WIBR 1420	E. Lansing, Mich WKAV 1310
WEBC 1290 Superior, Wis.	Chicago, Ill.	Steubenville, O.	Laconia, N. H.
WEBQ 1210	WGH 1310	WIBU 1210	WKBB 1310
Harrisburg, Ill.	Newp't News, Va	Poynette, Wis.	Joliet, Ill.
	II WGL 1370	WIBW 580	WKBC 1310
Buffalo, N. Y. WEDC 1210	Ft. Wayne, Ind. 720	Topeka, Kansas WIBX 1200	Birmingham, Ala. WKBF 1400
Chicago, Ill.	Chicago, Ill	WIBX 1200 Utica, N. Y. WICC 600	Indianapolis, Ind.
WEDH 1420		WICC 600	WKBH 1380
Erie, Pa.	Buffalo, N. Y.	Bridgeport, Conn.	La Crosse, Wis.
WEEI 590	וו אומסד סמח וו	WIL 1200	WKBI 1420
Boston, Mass.	Atlanta, Ga. — WGY 790	St. Louis, Mo. ———————————————————————————————————	Chicago, Ill
WEHC 1350	Schenec'd'y N V	Urbana, Ill.	Youngstown, O.
Emory, Va. WEHS 1420	Schenec'd'y, N.Y. WHA 940	WILM 1420	U WKRO 1450
Cicero, III.	Madison, Wis.	Wilmington, Del	Jersey City, N. J. WKBS 1310
WELK 1370	WHAD 1120	WIOD 1300	Gelegburg III
Philadelphia, Pa.	Milwaukee, Wis.	Miami, Fla	Galesburg, Ill WKBV 1500
WELL 1420 BattleCreek,Mich	WHAM 1150 Rochester, N.Y. WHAP 1300	Philadelphia, Pa.	Connersville, Ind.
WENR 870	WHAP 1300	WIS 1010	WKBW 1480
Chicago, Ill.	New York City	Columbia, S. C.	Buffalo, N. Y. WKBZ 1500
WEPS 1200	WHAS 820	WISJ 780 Madison, Wis.	WKBZ 1500
Worcester, Mass WEVD 1300	Louisville, Ky. — WHAT 1310	WISN 1120	Ludington, Mich. WKJC 1200
New York City	Philadelphia, Pa	Milwaukee, Wis WJAC 1310	Lancaster, Pa.
New York City WEW 760	II WHAZ 1300	WJAC 1310	WKRC 550
St. Louis, Mo.	Troy, N. Y. WHB 860	Johnstown, Pa. WJAG 1060	Cincinnati, O. WKY 900
WEXL 1810	Kansas City, Mo.	Norfolk, Nebr.	Oklahoma City
Royal Oak, Mich.	- WHBC 1200 -	WJAK 1310	WKZO 590 Be'n Spgs., Mich. WLAC 1470
Dallas, Texas WFAN 610	Canton, Ohio	Marion, Ind.	Be'n Spgs., Mich
WFAN 610	WHBD 1370	WJAR 890	WLAC 1470 Nashville, Tenn.
Philadelphia, Pa.	Mt. Orab, O	Providence, R. I.	Nashville, Tenn.
WFBC 1200	WHBF 1210	WJAS 1290 Pittsburgh, Pa.	WLAP 1200 Louisville, Ky.
Knoxville, Tenn WFBE 1200	Rock Island, Ill. WHBL 1410	II WAAX 900 I	WLB 1250
Cincinnati, Ohio	Sheboygan, Wis.	Jackson ville, Fla	St. Paul, Minn.
WFBG 1310	Sheboygan, Wis. WHBQ 1370	WJAY 610	WLBC 1310
Altoona, Pa.	Memphis, Tenn.	Cleveland, Ohio	Muncie, Ind.
WFBL 1360	WHBU 1210	WJAZ 1490	WLBF   1420
Syracuse, N. Y.	Anderson, Ind.	Chicago, Ill. WJBC 1200	Kansas City, Ks WLBG 1200
WFBM 1230	Green Bay, Wis.	La Salle, Ill.	Ettrick, Va.
Indianapolis, Ind WFBR 1270	Green Bay, Wis	WJBI 1210	
Baltimore, Md.	Calumet, Mich.	Red Bank, N. J	Stevens Pt., Wis
WFDF 1310	WHDH 830	W.IRK   1376	WLBW   1260
Flint, Mich.	Boston, Mass.	Detroit, Mich.	Oil City, Pa.
WFDV 1370	WHD1    1180-	WJBL 1200 Decatur, Ill.	L.I.City, N.Y.
Rome, Ga.	Minneap., Minn	Decatur, III.	
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WLBZ 620		WNBO 1200		WPTF 680		WSIX 1210	
Bangor, Me. WLCI 1210		Washington, Pa. WNBR 1430		Raleigh, N. C. WQAM 560		Springfield, Tenn. WSJS 1310	
Ithaca, N. Y.		Memphis, Tenn.		Miami, Fla.		winstSal., N. C.	
WLEY 1370		I WNBW 1200		WQAN 880 Scranton, Pa.		WSM 650 Nashville, Tenn.	
Lexington, Mass		Carbondale, Pa. WNBX 1200		WQAO 1010		WSMB 1320	
Philadelphia, Pa.		Springfield, Vt.		New York City		New Orleans, La.	
WLOE 1500 Boston, Mass.		WNBZ 1290 SaranacL'ke,N.Y.		WQBC 1360 Vicksburg, Miss.		WSMK 1380 Dayton, Ohio	
WLS 870		WNJ 1450		I WODM 1370		WSOC 1210	
Chicago, Ill. WLSI 1210		Newark, N. J. WNOX 560		St. Albans, Vt. WQDX 1210	<u>-</u>	Gastonia, N. C.	
WLSI 1210 Providence, R. I.		Knoxville, Tenn.		Thomasville, Ga.		WSPA 1420 Spartanburg, S.C.	
WLTH 1400		WNYC 570		WRAF 1200		WSPD 1340	
Brooklyn, N. Y. WLVA 1370		New York City WOAI 1190		La Porte, Ind. WRAK 1370		Toledo, Ohio WSSH 1410	
Lynchburg, Va.		San Antonio, Tex.		Williamsport, Pa.		Boston, Mass.	
Lynchburg, Va. WLW 700		WOAX 1280		WRAW 1310		WSUI 880	
Cincinnati, Ohio LWLWL 1100		Trenton, N. J. WOBT 1310		Reading, Pa. WRAX 1020		Iowa City, Ia. WSUN 620	
New York City		Union City, Tenn.		Philadelphia, Pa.		St. Petersb'g, Fla.	
WMAC 570		I WOBU 580		WRBI 1310		WSVS 1370	
Syracuse, N. Y. WMAK 1040		Charlest'n, W.Va. WOC 1000		Tifton, Ga. WRBJ 1370		Buffalo, N. Y. WSYB 1500	
Buffalo, N. Y.		Davenport, Iowa		Hattiesburg, Miss WRBL 1200		Rutland, Vt.	
WMAL 630		WOCL 1210				WSYR 570	
Washington, D.C. WMAQ 670		Jamestown, N. Y. WODA 1250		Columbus, Ga. WRBQ 1210		Syracuse, N. Y. WTAD 1440	
Chicago, Ill.		Paterson, N. J.		Greenville, Miss.		Quincy, Ill.	
WMAZ 890 Macon, Ga.		WODX 1410 Mobile, Ala.		WRBT 1370 Wilmington, N.C.		WTAG 580 Worcester, Mass.	•
WMBA 1500		WOI 640		WRBX 1410		I WTAM 1070	
Newport, R. I.		Ames, Iowa		Roanoke, Va. WRC 950		Cleveland, Ohio	
WMBC 1420 Detroit, Mich.		WOKO 1440 Albany, N. Y.		WRC 950 Washington, D.C.		I WTAQ 1330	-
WMBD 1440		WOL 1310		WRDO 1370		Eau Claire, Wis. WTAR 780	
Peoria Hghts.,Ill. WMBG 1210		Washington, D.C. WOMT 1210		Augusta, Me. WRDW 1500		Norfolk Va. WTAW 1120	
Richmond, Va. WMBH 1420		Manitowoc, Wis. WOOD 1270		Augusta, Ga.		College Sta., Tex. WTAX 1210	
WMBH 1420		WOOD 1270		WREC 600 Memphis, Tenn.		WTAX 1210 Springfield, Ill.	
Joplin, Mo. WMBI 1080		Gr. Rapids, Mich. WOPI 1500		WREN 1220		WTBO 1420	
Chicago, Ill.		Bristol, Tenn.		Lawrence, Kans.		Cumberland, Md.	
WMBO 1310 Auburn, N. Y.	- 1	WOQ 1300 Kansas City, Mo.		WRHM 1250 Minneap., Minn.	- 1	WTEL 1310 Philadelphia, Pa.	
WMBQ 1500		WOR 710		I WRIN 1370		WTFI 1450	
Brooklyn, N. Y. WMBR 1370		Newark, N. J. WORC 1200		Racine, Wis. WRNY 1010		Toccoa, Ga. WTIC 660-1060	
Tampa, Fla.		Worcester, Mass.		New York City		Hartford, Conn.	
WMC 780		WOS 630 Jeff's'n City, Mo.		WROL 1310 Knoxville, Tenn.		WTMJ 620	
Memphis, Tenn. WMCA 570		WOV 1130		1 WKK 1280		Milwaukee, Wis. WTOC 1260	
New York City		New York City		Dallas, Texas		Savannah, Ga.	
WMIL 1500 Brooklyn N V		WOW 590 Omaha, Nebr.		WRUF 830 Gainesville, Fla.		WWAE 1200 Hammond, Ind.	
Brooklyn, N. Y. WMMN 890		WOWO 1160		WRVA 1110		WWJ 920	
Fairmont, W.Va.		Ft. Wayne, Ind. WPAD 1420		Richmond, Va. WSAI 1330		Detroit, Mich.	
WMPC 1500 Lapeer, Mich.		WPAD 1420 Paducah, Ky.		WSAI 1330 Cincinnati, Ohio		WWL 850 New Orleans, La.	
WMRJ 1210		WPAP   1010		I WSAJ 1310		WWNC 570	
Jamaica, N. Y. WMSG 1350		New York City WPAW 1210		Grove City, Pa. WSAN 1440		Asheville, N. C. WWRL 1500	
WMSG 1350 New York City	- 1	Pawtucket, R. I.		Allentown, Pa.		Woodside, N. Y.	
WMT 600		WPCC 560		WSAR 1450		I WWSW 1500	
Waterloo, Iowa WNAC 1230		Chicago, Ill. WPCH 810		Fall River, Mass. WSAZ 580		Pittsburgh, Pa. WWVA 1160	
Boston, Mass.		New York City		Hunt'gton, W.Va.		Wheeling, W. Va.	
WNAD 1010		WPEN 1500		WSB 740		WXYZ 1240	
Norman, Okla. WNAX 570		Philadelphia, Pa. WPG 1100		Atlanta, Ga. WSBC 1210		Detroit, Mich. XEA 1200	
Yankton, S. D.		Atl'ntic City, N.J.		Chicago, Ill.		Guad'l'jara, Mex.	
WNBF 1500 Bingh'mt'n, N.Y.		WPOE 1370 Patchogue, N. Y.		WSBT 1230 South Bend, Ind.		XEB 1030 Mexico City	
WNBH 1310		WPOR 780		WSEN 1210		XEC 1333	
New B'df'd, Mass.		Norfolk, Va. WPSC 1230		Columbus, Ohio		Toluca, Mex.	
		WPSC 1230 State College, Pa.		WSFA 1410 Montgomery, Ala.		XED 961 Reynosa, Mex.	
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XEE 1132 Oaxaco, Mex. XEFA 1250 Mexico City XEFE 980 Laredo, Mex. XEH 1080 Monterrey, Mex. XEI 1000 Morelia, Mex. XEJ 857 Juarez, Mex. XEK 990 Mexico City XEK 1091 Saltillo, Mex.	XEM 730 Tampico, Mex. XEN 711 Mexico City XEO 940 Mexico City XEP 1490 Laredo, Mex. XEQ 1015 Juarez, Mex. XER 674 Mexico City XES 890 Tampico, Mex. XET 630 Monterrey, Mex.		XETA 1140 Mexico City XETF 680 Veracruz, Mex. XETO 1485 Mexico City XETY 840 Mexico City XEU 800 Veracruz, Mex. XEV 1034 Puebla, Mex. XEW 780 Mexico City XEX 1210 Mexico City XEY 547 Merida, Mex.		XEZ 588 Mexico City XFC 805 Aguascal'ntes, M. XFF 915 Chihuahua, Mex. XFG 638 Mexico City XFI 818 Mexico City XFX 860 Mexico City SWMC 682 St. Johns, N.F. 10BP 1200 Wingham, Ont.	
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(Continued from page 55)

Havana W-23

#### SOME SHORT WAVE STATIONS

Following is a list of commercial stations having a frequency above the broadcast band and yet near enough to it to be picked up on some sets.

Call '	Kcys.	Location	Owner
KGJX	1712	Pasadena, Calif.	City of Pasadena
KGKM	1596	Beaumont, Texas	City of Beaumont
KGOY	1712	San Antonio, Texas	City of San Antonio, Police Department
$\mathbf{KGOZ}$	2470	Cedar Rapids, Iowa	City of Cedar Rapids, Police Department
KGPA	1596	Seattle, Wash.	City of Seattle, Fire and Police Departments
KGPB	2416	Minneapolis, Minn.	City of Minneapolis Police Department
$\mathbf{KGPD}$	1596	San Francisco, Cal.	City of San Francisco, Police and Fire Departments
$\mathbf{KGPE}$	2422	Kansas City, Mo.	Missouri Metropolitan Police Department
KGPP	2452	Portland, Ore.	City of Portland, Bureau of Police
$\mathbf{K}\mathbf{S}\mathbf{W}$	1712	Berkeley, Cal.	Berkeley Police Department
·KVP	1712	Dallas, Texas	City of Dallas, Police Department
$\mathbf{WCF}$	1596	New York, N. Y.	City of New York, Fire Department
$\mathbf{WCK}$	2410	Belle Isle, Mich.	City of Detroit
WEQ	1596	Baltimore, Md.	Board of Fire Commissioners
WEY	1596	Boston, Mass.	Boston Fire Department
$\mathbf{WKDT}$	1596	Detroit, Mich.	City of Detroit
WKDU	1712	Cincinnati, Ohio	City of Cincinnati, Police Department
WKDX	1684	New York, N. Y.	Department of Plants and Structures

WMIP 1662 Framingham, Mass. WNDA 2440 Miami, Fla. WPDA 2416 Tulare, Cal. WPDB 1712 Chicago, Ill. WPDF 2416 Louisville, Ky. WPDH 2416 Richmond, Ind. WPDI 2416 Columbus, Ohio WPDI 2416 Columbus, Ohio WPDJ 2416 Columbus, Ohio City of Richmond, Police Department Board of County Commissioners City of Passaic, Department of Public Safet City of Passaic, Department of Public Safet City of Passaic, Operatment of Public Safet City of Richmond, Police Department City of Flint, Poli	WNDA WPDA WPDB WPDE WPDF WPDH WPDI WPDJ WPDJ WPDN WPDN WPDR WPDR WRDR	VMDZ VMDZ VMO VMP VVDA VPDA VPDE VPDE VPDE VPDI VPDI VPDI VPDI VPDI VPDR VPDR VPDR VPDR VPDR VPDR VPDR VPDR	2440 2416 17712 2416 2440. 2416 2416 2416 2440 17712 2440 17712 2452 2410	Miami, Fla. Tulare, Cal. Chicago, Ill. Louisville, Ky. Flint, Mich. Richmond, Ind. Columbus, Ohio Passaic, N. J. Lansing, Mich. Auburn, N. Y. Philadelphia, Pa. Rochester, N. Y. Cleveland, Ohio Grosse Point, Mich.	City of Tulare, Police Department Chicago Police Department City of Louisville City of Flint, Police Department City of Richmond, Police Department Board of County Commissioners City of Passaic, Department of Public Safety City of Lansing City of Auburn City of Philadelphia, Bureau of Police City of Rochester, Department of Public Safe City of Cleveland, Police Department Township of Grosse Point	tty
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RELAY BROADCASTING, TELEVISION AND EXPERIMENTAL STATIONS

The class of stations is indicated by the symbols R, T and [E. Some of these stations have many frequencies. Only the lowest is given. T — Television Station.

R -- Relay Broadcasting.

E - Experimental Station.

	к-	- Relay Broadcasting.	1.	— Televisi	on Station.		E - Experimental Station.		
		First District			Call	Kcys.	Location		Power
		rust District			W2XB	560	New York, N. Y.	$_{\mathbf{T}}^{\mathbf{E}}$	5000
Call	Kcus.	Location		Power	W2XBA	2750	Newark, N. J.	$\mathbf{T}$	500
W1XA	8650	Wianno, Mass.	$\mathbf{E}$	500	W2XBB	1604	Brooklyn, N. Y.	Ē	1000
W1XAC	1604	Providence, R. I.	$\widetilde{\mathbf{E}}$	250	W2XBD	2306	Garden City, N. Y.	$\overline{\mathbf{E}}$	20
WIXAF	Var.	Boston, Mass.	Ē	Var.	W2XBE	Var	New York, N. Y.	$\widetilde{\mathbf{E}}$	50
WIXAI	1604	Medford, Mass.	Ē	1000	W2XBF	1604	Mt. Vernon, N. Y.	$\widetilde{\mathbf{E}}$	250
WIXAM	1604	S. Manchester, Conn.	Ē.	1000	W2XBG	1604	Garden City, N. Y.	E.	200
WIXAN	1608	Dartmouth, Mass.	뜌.	500	W2XBI	1604	Rocky Point, N. Y.	EEEEE	10000
WIXAV	2100	Boston, Mass.	쀼	500	W2XBJ	6740	Rocky Point, N. Y.	Ħ	80000
WIXAW	1604	Medford, Mass.	÷	500	W2XBK	0740	Weehawken, N. J.	Ē	10
WIXAY	2000	Lexington, Mass.	岩	5000	W2XBL	20700	Rocky Point, N. Y.	Ē	ĭ
WIXAZ	9570	E. Springfield, Mass.	ETETREE	10000	W2XBM	1604	Rocky Point, N. Y.	E	200
W1XB			뀨	500	WZADM			뜌	500
WIAD	1604	Somerville, Mass.	To	10000	W2XBN	3000	Schenectady, N. Y.	E E T	5000
W1XC W1XE	1604	Marion, Mass.	E	200	W2XBO	2000	Long Island City, N. Y.	Ė	10
WIAE	321	Boston, Mass.	받	200	W2XBP	1604	Rocky Point, N. Y.	Ē	250
W1XF	321	Hartford, Conn.	벁		W2XBQ	1608	Aircraft No. 4876	뒫	1000
W1XI	1604	Gloucester, Mass.	臣	500 500	W2XBR	6020	New York, N. Y.	K.	5000
W1XJ	1604	Cambridge, Mass.	E		W2XBS	2000	New York, N. Y.	R T T	100
WIXK	990	Millis, Mass.	E	1000 500	W2XBU	2000	Beacon, N. Y.	T.	500
WIXL	6425	Hartford, Conn.	E		W2XBW	1604	Garden City, N. Y.	퍈	500
W1XM	1604	Cambridge, Mass.	Ē	500	W2XBX	1608	Aircraft NC4616	E	450
W1XN	1604	Middletown, Conn.	护	500	W2XBY	1604	Jersey City, N. J.	E	
W1XO	1604	Cambridge, Mass.	E	500	W2XBZ	4795	New Brunswick, N. J.	E E	80000
W1XP	1604	S. Dartmouth, Mass.	EEEEEEEEEEE	1000	W2XC	5000	Babylon, N. Y.	E	500
W1XQ	50	Bradley, Me.	$\mathbf{E}$	25000	W2XCA	2302	Aircraft 767	$\mathbf{E}$	200
W1XR	50	Houlton, Me.	$\mathbf{E}$	1000	W2XCB	4795	Grasmere, N. Y.	$\mathbf{E}$	50
wixs	12850	Chestnut Hill, Mass.	E E E	500	W2XCC	4795	New Dorp, N. Y.	$\mathbf{E}$	50
W1XT	1604	Boston, Mass.	$\mathbf{E}$	500	W2XCD	1604	Passaic, N. J.	E E	5000
W1XV	1604	Dartmouth, Mass.	$\mathbf{E}$	500	W2XCE	1604	Brooklyn, N. Y.	${f E}$	20000
W1XY	2000	Lawrence, Mass.	Т	250	W2XCH	2302	Schenectady Airport	$\mathbf{E}$	300
W1XZ	1604	Worcester, Mass.	$\mathbf{E}$	1000	W2XCI	1604	New York, N. Y.	$\mathbf{E}$	250
					W2XCK	23100	Little Neck, N. Y.	$\mathbf{E}$	1000
		Second District			W2XCM		Sayville, N. Y.	$\overline{\mathbf{E}}$	5000
W2XA	45	Rocky Point, N. Y.	E	190000	W2XCN	240	S. Schenectady, N. Y.	$\mathbf{E}$	5000
W2XAA	1604	New York, N. Y.	Ĕ	1000	W2XCO	2100	New York, N. Y.	$\widetilde{\mathbf{T}}$	5000
W2XAD		S. Schenectady, N. Y.	Ŕ	25000	W2XCP	2000	Allwood, N. J.	Ť	2000
W2XAE	240	Calamata da M. V.	E	5000	W2XCQ	1604	Rocky Point, N. Y.	$\tilde{\mathbf{E}}$	100
		Schenectady, N. Y.	Ř	40000	W2XCR	2750	Jersey City, N. J.	Ŧ	5000
W2XAF W2XAG	9530 550	S. Schenectady, N. Y.	$^{ m R}$	200000	W2XCS	1608	Port Washington, N. Y.	Ē	200
	6425	S. Schenectady, N. Y.	E	50000	W2XCT	23000	New York, N. Y.	Ē	50000
W2XAI		Newark, N. J.	Ē	250	W2XCU	1604	Ampere, N. J.	Ŕ	20000
W2XAK	1604	S. Schenectady, N. Y.	표	20000	W2XCV	2326	Roosevelt Field, N. Y.	E	100
W2XAL	6100	Coytesville, N. J.	$_{ m E}^{ m R}$	10000	W2XCW	2100	Schenectady, N. Y.	$_{\mathbf{T}}^{\mathbf{E}}$	20000
W2XAM	1604	New Brunswick, N. J.	E		WZACW		Schenectady, N. 1.	Ŕ	500
W2XAN	860	Nassau Co., N. Y.	E	500	W2XCX	6080	Kearney, N. J.	Ē	1000
W2XAO	6950	New Brunswick, N. J.	E	80000	W2XCY		Linden, N. J.	Ē	10000
W2XAP	2750	Jersey City, N. J.	T	250	W2XD	1604	Tuckerton, N. J.		20000
W2XAQ	2506	Aircraft X118E	Ē	50	W2XE	11840	Cross Hassock Bay, N. Y.	$\frac{\mathbf{R}}{\mathbf{E}}$	5000
W2XAR	1604	Long Island City, N. Y.	$\mathbf{E}$	500	W2XG	1604	Ocean, N. J.	E	
W2XAS	1604	Rocky Point, N. Y.	E E E	80000	W2XI	790	Schenectady, N.Y	E	15000
W2XAT		S. S. Utica	$\mathbf{E}$	10	W2XJ	1604	Deal, N. J.	$\mathbf{E}$	15000
W2XAV	1556	Ocean, N. J.	$\mathbf{E}$	1000	W2XK	1604	S. Schenectady, N.Y	E	25000
W2XAW		S. Schenectady, N. Y.	$\mathbf{E}$	25000	W2XL	7130	Newark, N. J.	E	250
W2XAX	2500	New York, N. Y.	$\mathbf{E}$	20	W2XM	<b>1</b> 604	Holmdel, N. J	${f E}$	1000
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Call										
W2XW         2795         Long Island City, N. Y.         E         500         W3XW         6495         6akland, Call.         E         50000           W2XX         2000         New Jack Apport         E         250         W5XZ         23000         Seventh District           Third District           W3XAD         1604         Camden, N. J.         E         250         W7XAP         100         Seventh District           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         100         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         2000         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAJA         1600         Bound Brock, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAC         160         Byberry-Philadolphia, Pa.         E         500         W7XAF         101         E         160         80         160	Call			-	Power	Call	Kcys.	Location		Power
W2XW         2795         Long Island City, N. Y.         E         500         W3XW         6495         6akland, Call.         E         50000           W2XX         2000         New Jack Apport         E         250         W5XZ         23000         Seventh District           Third District           W3XAD         1604         Camden, N. J.         E         250         W7XAP         100         Seventh District           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         100         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         2000         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAJA         1600         Bound Brock, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAC         160         Byberry-Philadolphia, Pa.         E         500         W7XAF         101         E         160         80         160	W2XN		New York, N. Y		150	W6XI		Bolinas, Cal.	E	
W2XW         2795         Long Island City, N. Y.         E         500         W3XW         6495         6akland, Call.         E         50000           W2XX         2000         New Jack Apport         E         250         W5XZ         23000         Seventh District           Third District           W3XAD         1604         Camden, N. J.         E         250         W7XAP         100         Seventh District           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         100         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         2000         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAJA         1600         Bound Brock, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAC         160         Byberry-Philadolphia, Pa.         E         500         W7XAF         101         E         160         80         160	W2XU	1604	S. Schenectady, N. Y.	퍈	25000	W/GYT.		Alamada Cal	E	
W2XW         2795         Long Island City, N. Y.         E         500         W3XW         6495         6akland, Call.         E         50000           W2XX         2000         New Jack Apport         E         250         W5XZ         23000         Seventh District           Third District           W3XAD         1604         Camden, N. J.         E         250         W7XAP         100         Seventh District           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         100         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         2000         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAJA         1600         Bound Brock, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAC         160         Byberry-Philadolphia, Pa.         E         500         W7XAF         101         E         160         80         160	W2XP		New York N Y	븄		WOXL		Berkeley Cal.	Ŧ	1000
W2XW         2795         Long Island City, N. Y.         E         500         W3XW         6495         6akland, Call.         E         50000           W2XX         2000         New Jack Apport         E         250         W5XZ         23000         Seventh District           Third District           W3XAD         1604         Camden, N. J.         E         250         W7XAP         100         Seventh District           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         100         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         2000         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAJA         1600         Bound Brock, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAC         160         Byberry-Philadolphia, Pa.         E         500         W7XAF         101         E         160         80         160	W2XŘ	2100	Long Island City, N. Y.	Ť		W6XN		Oakland, Cal.	Ē	
W2XW         2795         Long Island City, N. Y.         E         500         W3XW         6495         6akland, Call.         E         50000           W2XX         2000         New Jack Apport         E         250         W5XZ         23000         Seventh District           Third District           W3XAD         1604         Camden, N. J.         E         250         W7XAP         100         Seventh District           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         100         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         2000         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAJA         1600         Bound Brock, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAC         160         Byberry-Philadolphia, Pa.         E         500         W7XAF         101         E         160         80         160	W2XS	1604	Rocky Point, N. Y.	Ê		W6XQ		Sixth District Portable	$\widetilde{\mathbf{E}}$	
W2XW         2795         Long Island City, N. Y.         E         500         W3XW         6495         6akland, Call.         E         50000           W2XX         2000         New Jack Apport         E         250         W5XZ         23000         Seventh District           Third District           W3XAD         1604         Camden, N. J.         E         250         W7XAP         100         Seventh District           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         100         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         2000         Seventh District         E         150           W3XAJA         1604         Camden, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAJA         1600         Bound Brock, N. J.         F         250         W7XAP         200         Seventh District         E         160           W3XAC         160         Byberry-Philadolphia, Pa.         E         500         W7XAF         101         E         160         80         160	W2XT	1604	Rocky Point, N. Y.	${f E}$	80000	W6XR	283	Salt Lake City, Utah	ъ	500
W3XA   1604   Camden, N. J.   F   500   W7XA   1604   S. R. Kiska   E   50   W7XA   1604   S. R. Kiska   E   160   W7XA   1604   W7X	W2XU	2750	New York, N. Y.	$\mathbf{E}$	250	W6XV	99	Palo Alto, Cal.	$\mathbf{E}$	
W3XA   1604   Camden, N. J.   F   500   W7XA   1604   S. R. Kiska   E   50   W7XA   1604   S. R. Kiska   E   160   W7XA   1604   W7X	W2XV	4795	Long Island City, N. Y.	$\mathbf{E}$		W6XW	6425	Oakland, Cal.	$\mathbf{E}$	10000
W3XA   1604   Camden, N. J.   F   500   W7XA   1604   S. R. Kiska   E   50   W7XA   1604   S. R. Kiska   E   160   W7XA   1604   W7X	W2XW	1604	New York, N. Y.	E	250	W6XZ	23000	San Francisco, Cal.	Е	50000
W3XA   1604   Camden, N. J.   F   500   W7XA   1604   S. R. Kiska   E   50   W7XA   1604   S. R. Kiska   E   160   W7XA   1604   W7X	WOXX		Ossining, N. Y.	T	100			Samonth District		
WAXAB   1604   Ganden, N. J.   E   250   W7XA   2750   Portland, Ore.   E   1000   W3XAJ   1804   Ganden, N. J.   E   250   W7XA   2750   Portland, Ore.   T   100   W3XAJ   1804   Ganden, N. J.   E   250   W7XAJ   2000   Seventh District Portable   E   100   W3XAJ   1804   Ganden, N. J.   E   250   W7XAJ   2000   Seventh District Portable   E   100   W3XAJ   1804   Ganden, N. J.   E   250   W7XAJ   2000   Seventh District Portable   E   100   W3XAJ   1804   Ganden, N. J.   E   250   W7XAJ   2000   Seventh District Portable   E   100   W3XAJ   1804   Seventh District   W5XAJ   1804   Seventh District   Seventh District   Seventh District   Seventh District   Sevent	WZAI	1610	Rollmore N V	E D	50000					
W3XAL   1604   Camden, N. J.	WZAL	1010	Deimore, N. 1.	11	00000	K7XD	1540	Libbyville, Alaska	Ē	
W3XAB 1604         Canden, N. J.         E         250         W7XAD 2550         Carden, C. J.         T         500           W3XAJ 1604         Canden, N. J.         T         500         W7XAP 2000         Seventh District Portable         E         100           W3XAJ 1604         Canden, N. J.         T         500         W7XAP 2000         Seventh District Portable         E         100           W3XAJ 1600         Bound Brock, N. J.         T         500         W7XAP 101         Wenatchee, Wash.         E         100           W3XAJ 1600         Byberry, Philadelphia, Pa         B         500         W7XB 1604         Boernan, Mont.         E         100           W3XE 1539         Predericksburg, Va.         E         500         W7XB 1604         Seattle, Wash.         E         100           W3XI 1604         Baltimore, M.         E         500         W3XA 1606         Maken Mont.         E         500           W3XI 1604         Baltimore, M.         E         2000         W3XA 1606         Maken Mont.         E         500           W3XI 1604         Boond Fock, N. J.         E         2000         W3XA 1606         Maken Mont.         E         500           W3XX 1604         B			Third District			K7XF	1604	S. S. Kiska	臣	1000
W3XAJ         2850         Canden, N. J.         T         5 500         W7XAQ         2000         Seventh District Portable         E         10           W3XAK         2000         Bound Brook, N. J.         T         5 500         W7XAQ         2000         Seventh District Portable         E         10           W3XAK         2000         Bound Brook, N. J.         T         5 500         W7XAX         101         Wentchee, Wash.         E         700           W3XC         1504         Bould Brook, N. J.         E         500         W7XAX         101         Wentchee, Wash.         E         100           W3XC         1503         Alexandria, E.         E         500         W7XAX         104         Seattle, Wash.         E         100           W3XE         1503         Alexandria, V.a.         E         500         WXXAC         1604         Seattle, Wash.         E         500           W3XE         1503         Fredericksburg, V.a.         E         500         WXXAC         1604         Rockster, N. Y.         E         50           W3XE         1504         Bull were Springs, Md.         T         5000         WXXAC         1604         Rockster, N. Y.         E	Waryb	1604		TE:	250	WZXA	2750	Portland, Ore.	쓔	
W3XLU   1000	W3XAD	2850	Camden, N. J.	Ť	500	WIXAU	2000	Seventh Dietriet Portable	नं	100
W3XLU   1000	3172 V A T	1604	Camden, N. J.		250	W7XAO	2000	Seventh District Portable		10
W3XLU   1000	W3XAK		Bound Brook, N. J.	T	5000	W7XAS			$\widetilde{\mathbf{E}}$	7000
Wax   1539   Richmond Va   E   500   Wax   1604   Rating From   Rating	W3XAL	6100	Bound Brook, N. J.	Ř		W7XAT	101	E. Wenatchee, Wash.	$\mathbf{E}$	10000
Wax   1539   Richmond Va   E   500   Wax   1604   Rating From   Rating	W3XAU	6060	Byberry, Philadelphia, Pa	$\mathbf{R}$		W7XB	1604	Bozeman Mont.	${f E}$	100
Wax   1539   Richmond Va   E   500   Wax   1604   Rating From   Rating	$\mathbf{W}3\mathbf{X}\mathbf{C}$		Byberry, Philadelphia, Pa.			W7XC		Seattle, Wash.		1000
Wax   1539   Richmond Va   E   500   Wax   1604   Rating From   Rating	W3XD	1539	Alexandria, Va.	Ę		W7XE	1604	Seattle, Wash.	E	100
Wax   1539   Richmond Va   E   500   Wax   1604   Rating From   Rating	WSXE	1504	Baltimore, Md.	臣		W7XP	1596	Seattle, Wash.	E	500
WAXL   1.059   Helmford, Va.   E   500   WAXL   2000   W	WOAL	1520	Fredericksburg, va.		500			Dialith Diatains		
WSX.M         1094 bound proofs, N. J.         E         20000 WSXAW         EXAVE 2000 WSXAW         1604 Move Jersey Portable         T         20000 WSXB         1608 Utica, Mich         T         20000 WSXB         1608 Utica, Mich         E         200           W3XO         640 New Jersey Portable         E         550         WSXB         1608 Utica, Mich         E         550           W3XX         1604 Mountain Lakes, N. J.         E         550         WSXB         1604 Cleveland, Ohio         E         550           W3XX         1604 Mountain Lakes, N. J.         E         550         WSXE         1604 Cleveland, Ohio         E         550           W3XX         1604 Mainington, D. C.         E         50000 WSXF         1604 Ohio Portable         E         500           W3XX         2475         Washington, D. C.         E         250         WSXI         23060 Buffalo, N. Y.         E         5000           W4XX         5438 San Juan, P. R.         E         250         WSXI         1604 West Dover, Ohio         E         500           W4XX         5425 San Juan, P. R.         E         250         WSXI         1604 Dayton, Ohio         E         500           W4XX         5624 Miami, Fla.         E	WaxH	1539	Richmond Va							
WSX.M         1094 bound proofs, N. J.         E         20000 WSXAW         EXAVE 2000 WSXAW         1604 Move Jersey Portable         T         20000 WSXB         1608 Utica, Mich         T         20000 WSXB         1608 Utica, Mich         E         200           W3XO         640 New Jersey Portable         E         550 WSXB         1608 Utica, Mich         E         550           W3XX         1604 Mountain Lakes, N. J.         E         550 WSXB         1604 Cleveland, Ohio         E         550           W3XX         1604 Mountain Lakes, N. J.         E         550 WSXB         1604 Cleveland, Ohio         E         550           W3XX         1604 Manington, D. C.         E         50000 WSXB         1604 Ohio Portable         E         500           W3XX         256 Washington, D. C.         E         250 WSXB         23060 WSXB         1604 Ohio Portable         E         200           W3XX         2475 Washington, D. C.         E         250 WSXB         1604 WSXB         1604 West Dover, Ohio         E         500           K4XC         6425 San Juan, P. R.         E         220 WSXB         1604 WSXB         1604 WSXB         1604 Dayton, Ohio         E           W3XA         36010 Minni, Fla.         E         200 WSXB	W3XI	1604	Baltimore, Md.	$\mathbf{E}$	200	W8XAC	1604	Rochester, N. Y.	E	50
WSX.M         1094 bound proofs, N. J.         E         20000 WSXAW         EXAVE 2000 WSXAW         1604 Move Jersey Portable         T         20000 WSXB         1608 Utica, Mich         T         20000 WSXB         1608 Utica, Mich         E         200           W3XO         640 New Jersey Portable         E         550 WSXB         1608 Utica, Mich         E         550           W3XX         1604 Mountain Lakes, N. J.         E         550 WSXB         1604 Cleveland, Ohio         E         550           W3XX         1604 Mountain Lakes, N. J.         E         550 WSXB         1604 Cleveland, Ohio         E         550           W3XX         1604 Manington, D. C.         E         50000 WSXB         1604 Ohio Portable         E         500           W3XX         256 Washington, D. C.         E         250 WSXB         23060 WSXB         1604 Ohio Portable         E         200           W3XX         2475 Washington, D. C.         E         250 WSXB         1604 WSXB         1604 West Dover, Ohio         E         500           K4XC         6425 San Juan, P. R.         E         220 WSXB         1604 WSXB         1604 WSXB         1604 Dayton, Ohio         E           W3XA         36010 Minni, Fla.         E         200 WSXB	W3XK		Silver Springs, Md.	$\overline{\mathbf{T}}$		W8XAG	8650	Dayton, Ohio		50
W3XR         19/5         Mountain Lakes, N. J.         E         200         W3XD         1604         Cleveland, Ohio         E         500           W3XX         1604         Mendaman, N. J.         E         500         W3XE         1604         State College, Pa.         E         500           W3XX         326         Boonton, N. J.         E         500         W3XH         1200         Cleveland, Ohio         Deviated           Fourth District         W3XI         3000         W3XI         3000         Walk I         3000         West Dover, Ohio         E         2000           K4XC         6425         San Juan, P. R.         E         260         W3XI         1604         Destron, Ohio         E         2000           K4XC         6425         San Juan, P. R.         E         260         W3XI         1604         Dest Dove, Ohio         E         200           W4XB         6425         Minni, Fla.         E         200         W3XI         1604         Dest Dove, Ohio         E         500           W4XB         6425         Minni, Fla.         E         200         W3XI         400         Dest Dov           W4XB         1604 <td>W3XL</td> <td>1604</td> <td>Bound Brook, N. J.</td> <td></td> <td></td> <td>WSXAL</td> <td>6060</td> <td>Mason, Unio</td> <td>ĸ</td> <td>200</td>	W3XL	1604	Bound Brook, N. J.			WSXAL	6060	Mason, Unio	ĸ	200
W3XR         19/5         Mountain Lakes, N. J.         E         200         W3XD         1604         Cleveland, Ohio         E         500           W3XX         1604         Mendaman, N. J.         E         500         W3XE         1604         State College, Pa.         E         500           W3XX         326         Boonton, N. J.         E         500         W3XH         1200         Cleveland, Ohio         Deviated           Fourth District         W3XI         3000         W3XI         3000         Walk I         3000         West Dover, Ohio         E         2000           K4XC         6425         San Juan, P. R.         E         260         W3XI         1604         Destron, Ohio         E         2000           K4XC         6425         San Juan, P. R.         E         260         W3XI         1604         Dest Dove, Ohio         E         200           W4XB         6425         Minni, Fla.         E         200         W3XI         1604         Dest Dove, Ohio         E         500           W4XB         6425         Minni, Fla.         E         200         W3XI         400         Dest Dov           W4XB         1604 <td>W3XM</td> <td>6425</td> <td>Philadelphia, Pa.</td> <td></td> <td></td> <td>WOLLY</td> <td>1604</td> <td>Morgantown W Va</td> <td>Ê</td> <td></td>	W3XM	6425	Philadelphia, Pa.			WOLLY	1604	Morgantown W Va	Ê	
W3XR         19/5         Mountain Lakes, N. J.         E         200         W3XD         1604         Cleveland, Ohio         E         500           W3XX         1604         Mendaman, N. J.         E         500         W3XE         1604         State College, Pa.         E         500           W3XX         326         Boonton, N. J.         E         500         W3XH         1200         Cleveland, Ohio         Deviated           Fourth District         W3XI         3000         W3XI         3000         Walk I         3000         West Dover, Ohio         E         2000           K4XC         6425         San Juan, P. R.         E         260         W3XI         1604         Destron, Ohio         E         2000           K4XC         6425         San Juan, P. R.         E         260         W3XI         1604         Dest Dove, Ohio         E         200           W4XB         6425         Minni, Fla.         E         200         W3XI         1604         Dest Dove, Ohio         E         500           W4XB         6425         Minni, Fla.         E         200         W3XI         400         Dest Dov           W4XB         1604 <td>W3XN</td> <td></td> <td>Whippany, N. J.</td> <td></td> <td></td> <td>WXXR</td> <td>1608</td> <td>Utica Mich</td> <td>Ē</td> <td></td>	W3XN		Whippany, N. J.			WXXR	1608	Utica Mich	Ē	
W3XU   1094   Washington, D. C.   E   5000   W3XF   1712   Cleveland, Ohio   E   200   W3XZ   3258   Boonton, N. J.   E   500   W3XD   4064   Ohio Portable   E   200   E   20	W3XO	1075	New Jersey Portable	E	250	W8XC		Aircraft X-7654	Ē	
W3XU   1094   Washington, D. C.   E   5000   W3XF   1712   Cleveland, Ohio   E   200   W3XZ   3258   Boonton, N. J.   E   500   W3XD   4064   Ohio Portable   E   200   E   20	WOAQ	1970	Mondham N I			W8XD	1604	Cleveland, Ohio	$\overline{\mathbf{E}}$	
W3XW   3256   Boonton, N. J.   E   50   W3XH   31000   E   Pitisburgh, Pa.   E   2000   W3XI   31000   E   Pitisburgh, Pa.   E   2000   W3XI   31000   E   Pitisburgh, Pa.   E   2000   W3XI   31000   E   Pitisburgh, Pa.   R   40000   W4XX   31000   Maini, Fla.   E   250   W3XI   31000   E   Pitisburgh, Pa.   R   40000   W4XX   31000   Maini, Fla.   E   250   W3XI   31000   Maini, Fla.   E   250   W3XI   31000   E   Pitisburgh, Pa.   E   5500   W4XX   30100   Maini, Fla.   E   200   W3XX   1604   E   Pitisburgh, Pa.   E   5500   W4XX   1604   Maini, Fla.   E   200   W3XX   1604   E   Pitisburgh, Pa.   E   5500   W4XX   1604   Maini Beach, Fla.   E   500   W3XX   1604   E   Pitisburgh, Pa.   E   5500   W4XX   1604   Minni Beach, Fla.   E   500   W3XX   4800   Maini Beach, Fla.   E   500   W3XX   4800   Chicago, Ill.   R   500   Maini Beach, Fla.   E   1000   W3XA   4800   Chicago, Ill.   R   500   K6XX   1604   Maini Beach, Fla.   E   1000   W3XA   4900   Chicago, Ill.   E   500   K6XX   1604   Maini Beach, Fla.   E   1000   W3XAM   4795   Elgin, Ill.   E   500   K6XX   1604   Maini Beach   M	Waxs	1604	Philadelphia Pa			W8XE	1604	State College, Pa.	${f E}$	500
W3XW   3256   Boonton, N. J.   E   50   W3XH   31000   E   Pitisburgh, Pa.   E   2000   W3XI   31000   E   Pitisburgh, Pa.   E   2000   W3XI   31000   E   Pitisburgh, Pa.   E   2000   W3XI   31000   E   Pitisburgh, Pa.   R   40000   W4XX   31000   Maini, Fla.   E   250   W3XI   31000   E   Pitisburgh, Pa.   R   40000   W4XX   31000   Maini, Fla.   E   250   W3XI   31000   Maini, Fla.   E   250   W3XI   31000   E   Pitisburgh, Pa.   E   5500   W4XX   30100   Maini, Fla.   E   200   W3XX   1604   E   Pitisburgh, Pa.   E   5500   W4XX   1604   Maini, Fla.   E   200   W3XX   1604   E   Pitisburgh, Pa.   E   5500   W4XX   1604   Maini Beach, Fla.   E   500   W3XX   1604   E   Pitisburgh, Pa.   E   5500   W4XX   1604   Minni Beach, Fla.   E   500   W3XX   4800   Maini Beach, Fla.   E   500   W3XX   4800   Chicago, Ill.   R   500   Maini Beach, Fla.   E   1000   W3XA   4800   Chicago, Ill.   R   500   K6XX   1604   Maini Beach, Fla.   E   1000   W3XA   4900   Chicago, Ill.   E   500   K6XX   1604   Maini Beach, Fla.   E   1000   W3XAM   4795   Elgin, Ill.   E   500   K6XX   1604   Maini Beach   M	W3XU		Washington, D. C.			W8XF	1712	Cleveland, Ohio	Ē	
Washington, D. C.   E   200   Wash   31000   E. Pittsburgh, Pa.   E   20000	W3XW	3256	Boonton, N. J.	Ē	50	W8XG	1604	Ohio Portable	E	200
Wax	W3XZ	4795	Washington, D. C.	$\mathbf{E}$	250	W8XH	23060	Buffalo, N. Y.		
Wax						WOYI	1600	West Doyer Obio	분	20000
W4XA   S485   S481   Juan, F. R.   E   100   W8XD   1604   E. Pittsburgh, Pa.   E   500   W4XG   1604   Hilaeh, Fla.   E   1000   W8XZ   1604   E. Pittsburgh, Pa.   E   500   W4XG   E. Pittsburgh, Pa.   E   500   E. Pittsburgh, Pa.   E   E. Pittsburgh, Pa.   E   500   E. Pittsburgh			Fourth District			WXXK	6140	E Pittsburgh Pa	R.	40000
W4XA   S485   S481   Juan, F. R.   E   100   W8XD   1604   E. Pittsburgh, Pa.   E   500   W4XG   1604   Hilaeh, Fla.   E   1000   W8XZ   1604   E. Pittsburgh, Pa.   E   500   W4XG   E. Pittsburgh, Pa.   E   500   E. Pittsburgh, Pa.   E   E. Pittsburgh, Pa.   E   500   E. Pittsburgh	K4XC	6425	San Juan, P. R.	$\mathbf{E}$	200	WXXL		Dayton, Ohio	$\tilde{\mathbf{E}}$	
W5XH   1604   New Orleans, La.   E   1000   W9XA   830   Denver, Colo.   R   12500   W9XAK   1604   Honolulu, T. H.   E   1000   W9XAK   1400   Chicago, Ill.   T   1000   K6XAK   1604   Kawaihae, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kawaihae, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Honolulu, T. H.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   K6XS   1604   Honolulu, T. H.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   K6XX   1604   Lahaira, T. H.   E   5000   W9XAK   2750   Chicago, Ill.   T   1000   K6XX   1604   Lahaira, T. H.   E   5000   W9XAK   2750   Chicago, Ill.   T   1000   K6XA   2390   San Francisco, Cal.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   W6XAK   2938   Sacramento, Cal.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   W6XAH   1604   Beverly Hills, Cal.   E   1000   W9XAK   2000   W9XAK   2750   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   2750   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XB   1604   Chicago, Ill.   E   1000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   R   5000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   1000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   500   W6XBK   300   San Francisco, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   500   W6XBK   1604   Chicago, Ill.   E   500   W9XB   1604   Chicago, Ill.   E   5000   W6XBK   160	K4XK	5483	San Juan, P. R.			W8XO	Var.	Cleveland, Ohio	ъ.	500
W5XH   1604   New Orleans, La.   E   1000   W9XA   830   Denver, Colo.   R   12500   W9XAK   1604   Honolulu, T. H.   E   1000   W9XAK   1400   Chicago, Ill.   T   1000   K6XAK   1604   Kawaihae, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kawaihae, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Honolulu, T. H.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   K6XS   1604   Honolulu, T. H.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   K6XX   1604   Lahaira, T. H.   E   5000   W9XAK   2750   Chicago, Ill.   T   1000   K6XX   1604   Lahaira, T. H.   E   5000   W9XAK   2750   Chicago, Ill.   T   1000   K6XA   2390   San Francisco, Cal.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   W6XAK   2938   Sacramento, Cal.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   W6XAH   1604   Beverly Hills, Cal.   E   1000   W9XAK   2000   W9XAK   2750   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   2750   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XB   1604   Chicago, Ill.   E   1000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   R   5000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   1000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   500   W6XBK   300   San Francisco, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   500   W6XBK   1604   Chicago, Ill.   E   500   W9XB   1604   Chicago, Ill.   E   5000   W6XBK   160	W4XA	30100	Miami, Fla.	E	100	W8XP	1604	E. Pittsburgh, Pa.	$\mathbf{E}$	
W5XH   1604   New Orleans, La.   E   1000   W9XA   830   Denver, Colo.   R   12500   W9XAK   1604   Honolulu, T. H.   E   1000   W9XAK   1400   Chicago, Ill.   T   1000   K6XAK   1604   Kawaihae, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kawaihae, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Honolulu, T. H.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   K6XS   1604   Honolulu, T. H.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   K6XX   1604   Lahaira, T. H.   E   5000   W9XAK   2750   Chicago, Ill.   T   1000   K6XX   1604   Lahaira, T. H.   E   5000   W9XAK   2750   Chicago, Ill.   T   1000   K6XA   2390   San Francisco, Cal.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   W6XAK   2938   Sacramento, Cal.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   W6XAH   1604   Beverly Hills, Cal.   E   1000   W9XAK   2000   W9XAK   2750   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   2750   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XB   1604   Chicago, Ill.   E   1000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   R   5000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   1000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   500   W6XBK   300   San Francisco, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   500   W6XBK   1604   Chicago, Ill.   E   500   W9XB   1604   Chicago, Ill.   E   5000   W6XBK   160	WAXB	1604	Miami, Fla.			W8XS		E. Pittsburgh, Pa.	E	
W5XH   1604   New Orleans, La.   E   1000   W9XA   830   Denver, Colo.   R   12500   W9XAK   1604   Honolulu, T. H.   E   1000   W9XAK   1400   Chicago, Ill.   T   1000   K6XAK   1604   Kawaihae, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kawaihae, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Kahuku, T. H.   E   1000   W9XAK   1712   Chicago, Ill.   E   500   K6XB   1604   Honolulu, T. H.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   K6XS   1604   Honolulu, T. H.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   K6XX   1604   Lahaira, T. H.   E   5000   W9XAK   2750   Chicago, Ill.   T   1000   K6XX   1604   Lahaira, T. H.   E   5000   W9XAK   2750   Chicago, Ill.   T   1000   K6XA   2390   San Francisco, Cal.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   W6XAK   2938   Sacramento, Cal.   E   1000   W9XAK   2750   Chicago, Ill.   T   500   W6XAH   1604   Beverly Hills, Cal.   E   1000   W9XAK   2000   W9XAK   2750   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   2750   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XAK   1604   Chicago, Ill.   E   1000   W6XAL   1604   Chicago, Ill.   E   1000   W9XB   1604   Chicago, Ill.   E   1000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   R   5000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   1000   W6XAK   2727   Oakland, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   500   W6XBK   300   San Francisco, Cal.   E   500   W9XB   1604   Chicago, Ill.   E   500   W6XBK   1604   Chicago, Ill.   E   500   W9XB   1604   Chicago, Ill.   E   5000   W6XBK   160	WAXO	1604	Miami Reach Fla	뷴	1000	W8XT	660	E. Pittsburgh, Pa.		
Sixth District	W TYP	1004	wiami beach, Fia.	15	1000	W&AZ	var.	Detroit, Mich.	Е	• • • • • • •
Sixth District			Fifth District					Ninth District		
Sixth District	W5XH	1604		TF:	1000	WOT I	202		n	10500
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XE         1604         Golden, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         1000	1102111	1001	Trom Officials, Das		1000	WOXA	830		ĸ	
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XE         1604         Golden, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         1000			Sixth District			WOYAG	2000	Chicago, III.	ዥ	
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XE         1604         Golden, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         1000	KEXAK	1604	Honolulu T H	Te?	100	WOXAH	1490	Chicago, Ill.	Ē	
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XF         6020         Downers Grove, Ill.         R         5000           W6XAY         2727         Oakland, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Grand Forks, N. D.         E         500	K6XB	1604	Kawaihae, T. H.	$\tilde{\mathbf{E}}$	500	W9XAK	1712	Chicago, Ill.	$\widetilde{\mathbf{E}}$	500
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XF         6020         Downers Grove, Ill.         R         5000           W6XAY         2727         Oakland, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Grand Forks, N. D.         E         500	K6XBZ	1604	Honolulu, T. H.	$\mathbf{E}$	100	W9XAL	1608	Addison, Ill.	$\mathbf{E}$	500
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XF         6020         Downers Grove, Ill.         R         5000           W6XAY         2727         Oakland, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Grand Forks, N. D.         E         500	K6XO	1604	Kahuku, T. H.	Ē	10000	W9XAM	4795	Elgin, Ill.	$\mathbf{E}$	
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XF         6020         Downers Grove, Ill.         R         5000           W6XAY         2727         Oakland, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Grand Forks, N. D.         E         500	K6XP	1604	Honolulu, T. H.	E	1000	W9XAO	2000	Chicago, Ill.	T	500
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XF         6020         Downers Grove, Ill.         R         5000           W6XAY         2727         Oakland, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Grand Forks, N. D.         E         500	KOAS		Honolulu, T. H.		1000	WOXAP	2750	Unicago, III.	T	
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XF         6020         Downers Grove, Ill.         R         5000           W6XAY         2727         Oakland, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Grand Forks, N. D.         E         500	Wexy	33000	Solt Loko City IItoh	臣	50000	WOYAS	278	Lake Wie	E	7.5
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XF         6020         Downers Grove, Ill.         R         5000           W6XAY         2727         Oakland, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Grand Forks, N. D.         E         500	WAXAD	2308	San Francisco Cal	臣		WOXAW	1604	Houghton Mich	Ē	250
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XF         6020         Downers Grove, Ill.         R         5000           W6XAY         2727         Oakland, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Grand Forks, N. D.         E         500	W6XAF	2938	Sacramento, Cal.	Ŕ.		W9XAZ	2000	Iowa City. Iowa	$\tilde{\mathbf{T}}$	500
W6XAJ         1604         Los Angeles, Cal.         E         1000         W9XC         2140         Chicago, Ill.         E         1000           W6XAN         23100         Los Angeles, Cal.         E         1000         W9XD         1604         Gunnison, Colo.         E         5           W6XAP         1804         Los Angeles, Cal.         E         500         W9XF         6020         Downers Grove, Ill.         R         5000           W6XAY         2727         Oakland, Cal.         E         10000         W9XG         2000         W. Lafayette, Ind.         T         1500           W6XAY         2727         Oakland, Cal.         E         50         W9XH         1604         Madison, Wis.         E         500           W6XAY         1604         Palo Alto, Cal.         E         250         W9XH         1604         Madison, Wis.         E         500           W6XBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         1604         San Francisco, Cal.         E         500         W9XL         1604         Grand Forks, N. D.         E         500	W6XAH	1604	Beverly Hills, Cal.	Е		W9XB	1604	Culver, Ind.	$\bar{\mathbf{E}}$	1000
W6XAX         27/27         Oakfand, Cal.         E         50         W9XH         1604         Madison, Wiss.         E         500           W6XXBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         300         San Francisco, Cal.         E         500         W9XL         3256         Rantoul, III.         E         1000           W6XBL         150         Berkeley, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         500           W6XBL         150         Berkeley, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         500           W6XBB         1200         Los Angeles, Cal.         E         500         W9XD         1604         Chicago, III.         E         500           W6XBR         1604         Los Angeles, Cal.         E         100         W9XP         23100         Chicago, III.         E         100           W6XBX         1604         Galt, Cal.         E         75         W9XR         2850         Downers Grove, III.         T         500	WAYAT	1604	Los Angeles, Cal.	E	1000	W9XC	2140	Chicago, Ill.	${f E}$	
W6XAX         27/27         Oakfand, Cal.         E         50         W9XH         1604         Madison, Wiss.         E         500           W6XXBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         300         San Francisco, Cal.         E         500         W9XL         3256         Rantoul, III.         E         1000           W6XBL         150         Berkeley, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         500           W6XBL         150         Berkeley, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         500           W6XBB         1200         Los Angeles, Cal.         E         500         W9XD         1604         Chicago, III.         E         500           W6XBR         1604         Los Angeles, Cal.         E         100         W9XP         23100         Chicago, III.         E         100           W6XBX         1604         Galt, Cal.         E         75         W9XR         2850         Downers Grove, III.         T         500	W6XAL	6080	Westminster, Cal.	$\mathbf{R}$		W9XD		Gunnison, Colo.	$\mathbf{E}$	
W6XAX         27/27         Oakfand, Cal.         E         50         W9XH         1604         Madison, Wiss.         E         500           W6XXBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         300         San Francisco, Cal.         E         500         W9XL         3256         Rantoul, III.         E         1000           W6XBL         150         Berkeley, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         500           W6XBL         150         Berkeley, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         500           W6XBB         1200         Los Angeles, Cal.         E         500         W9XD         1604         Chicago, III.         E         500           W6XBR         1604         Los Angeles, Cal.         E         100         W9XP         23100         Chicago, III.         E         100           W6XBX         1604         Galt, Cal.         E         75         W9XR         2850         Downers Grove, III.         T         500	W6XAN	23100	Los Angeles, Cal.	Ē	1000	W9XE	1604	Golden, Colo.	E	5
W6XAX         27/27         Oakfand, Cal.         E         50         W9XH         1604         Madison, Wiss.         E         500           W6XXBA         3256         S. S. Metha Nelson         E         100         W9XJ         1604         Grand Forks, N. D.         E         500           W6XBB         300         San Francisco, Cal.         E         500         W9XL         3256         Rantoul, III.         E         1000           W6XBL         150         Berkeley, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         500           W6XBL         150         Berkeley, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         500           W6XBB         1200         Los Angeles, Cal.         E         500         W9XD         1604         Chicago, III.         E         500           W6XBR         1604         Los Angeles, Cal.         E         100         W9XP         23100         Chicago, III.         E         100           W6XBX         1604         Galt, Cal.         E         75         W9XR         2850         Downers Grove, III.         T         500	W6XAP	1604	Los Angeles, Cal.	E		W9XF	6020	Downers Grove, III.	ĸ	
W6XBA 1         1004         Failo Alto, Cal.         E         250         W9XL         1004         Milliaghts, Milli.         E         500           W6XBB 3256         S. S. Metha Nelson         E         100         W9XL         1604         Grand Forks, N. D.         E         500           W6XBB 300         San Francisco, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         1000           W6XBL 150         Berkeley, Cal.         E         1000         W9XM         23000         Chicago, Ill.         E         500           W6XBD 1200         Los Angeles, Cal.         E         500         W9XD         1604         Chicago, Ill.         E         750           W6XBR 1604         Los Angeles, Cal.         E         75         W9XR         23100         Chicago, Ill.         E         1000           W6XBZ 1608         Galt, Cal.         E         75         W9XR         2350         Downers Grove, Ill.         T         5000           W6XE         1604         California Portable         E         500         W9XV         1604         Carterville, Mo.         E         100           W6XG         790         Oakland, Cal.         E <td>WOAAQ</td> <td>0707</td> <td>Caldand Cal</td> <td>E</td> <td></td> <td>WOVE</td> <td>1604</td> <td></td> <td>÷</td> <td>1900</td>	WOAAQ	0707	Caldand Cal	E		WOVE	1604		÷	1900
W6XBB         1604         San Francisco, Cal.         E         500         W9XK         3256         Rantoul, Ill.         E         1000           W6XBL         300         San Francisco, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         1000           W6XBL         150         Berkeley, Cal.         E         1000         W9XM         23000         Chicago, Ill.         E         500           W6XBR         1604         Los Angeles, Cal.         E         500         W9XO         1604         Chicago, Ill.         E         750           W6XBR         1608         Galt, Cal.         E         75         W9XR         2850         Downers Grove, Ill.         T         5000           W6XE         1604         Cange, Cal.         E         500         W9XU         6060         Council Bluffs, Iowa         R         500           W6XF         1604         California Portable         E         500         W9XV         1604         Carterville, Mo.         E         1000           W6XG         790         Oakland, Cal.         E         10000         W9XW         300         Hastings, Nebr         E         1000	WAXAX	1604	Palo Alto Cal	E		WOXI	1604	Minneanolis Minn		
W6XBB         1604         San Francisco, Cal.         E         500         W9XK         3256         Rantoul, Ill.         E         1000           W6XBL         300         San Francisco, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         1000           W6XBL         150         Berkeley, Cal.         E         1000         W9XM         23000         Chicago, Ill.         E         500           W6XBR         1604         Los Angeles, Cal.         E         500         W9XO         1604         Chicago, Ill.         E         750           W6XBR         1608         Galt, Cal.         E         75         W9XR         2850         Downers Grove, Ill.         T         5000           W6XE         1604         Cange, Cal.         E         500         W9XU         6060         Council Bluffs, Iowa         R         500           W6XF         1604         California Portable         E         500         W9XV         1604         Carterville, Mo.         E         1000           W6XG         790         Oakland, Cal.         E         10000         W9XW         300         Hastings, Nebr         E         1000	W6XB4		S. S. Metha Nelson	Ē		WOXI		Grand Forks, N. D.	Ē	500
W6XBK         300         San Francisco, Cal.         E         500         W9XL         1604         Anoka, Minn.         E         1000           W6XBL         150         Berkeley, Cal.         E         1000         W9XM         23000         Chicago, Ill.         E         5000           W6XBR         1604         Los Angeles, Cal.         E         500         W9XO         1604         Chicago, Ill.         E         750           W6XBR         1608         Galt, Cal.         E         75         W9XR         2850         Downers Grove, Ill.         T         5000           W6XE         1604         Cange, Cal.         E         500         W9XU         6060         Council Bluffs, Iowa         R         500           W6XF         1604         Caliand, Cal.         E         1000         W9XV         1604         Carterville, Mo.         E         100	W6XBB	1604	San Francisco. Cal.	$\mathbf{E}$		W9XK	3256	Rantoul, Ill.	$\mathbf{E}$	1000
W6XBL         150         Berkeley, Cal.         E         1000         W9XM         23000         Chicago, Ill.         E         5000           W6XBR         1604         Los Angeles, Cal.         E         500         W9XO         1604         Chicago, Ill.         E         750           W6XBX         1604         Los Angeles, Cal.         E         100         W9XP         23100         Chicago, Ill.         E         1000           W6XBX         1608         Galt, Cal.         E         75         W9XR         2850         Downers Grove, Ill.         T         5000           W6XE         1604         California Portable         E         500         W9XV         1604         Carterville, Mo.         E         100           W6XG         790         Oakland, Cal.         E         10000         W9XW         300         Hastings, Nebr         E         1000	W6XBK	300	San Francisco, Cal.	E	500	W9XL	1604	Anoka, Minn.	$\mathbf{E}$	1000
W6XBX       1604       Orange, Cal.       E       75       W9XR       2850       Downers Grove, III.       T       5000         W6XE       1604       Orange, Cal.       E       500       W9XV       6060       Council Bluffs, Iowa       R       500         W6XF       1604       California Portable       E       500       W9XV       1604       Carterville, Mo.       E       100         W6XG       790       Oakland, Cal.       E       10000       W9XW       300       Hastings, Nebr       E       10000	W6XBL	150	Berkeley, Cal.	$\mathbf{E}$	1000	W9XM	23000	Chicago, Ill.	$\mathbf{E}$	5000
W6XBX       1604       Orange, Cal.       E       75       W9XR       2850       Downers Grove, III.       T       5000         W6XE       1604       Orange, Cal.       E       500       W9XV       6060       Council Bluffs, Iowa       R       500         W6XF       1604       California Portable       E       500       W9XV       1604       Carterville, Mo.       E       100         W6XG       790       Oakland, Cal.       E       10000       W9XW       300       Hastings, Nebr       E       10000	W6XBO		Los Angeles, Cal.	Ē	500	W9XO	1604	Chicago, Ill.	E	
W6XBX       1604       Orange, Cal.       E       75       W9XR       2850       Downers Grove, III.       T       5000         W6XE       1604       Orange, Cal.       E       500       W9XV       6060       Council Bluffs, Iowa       R       500         W6XF       1604       California Portable       E       500       W9XV       1604       Carterville, Mo.       E       100         W6XG       790       Oakland, Cal.       E       10000       W9XW       300       Hastings, Nebr       E       10000	W6XBR	1604	Los Angeles, Cal.	E	100	W9XP	23100	Cnicago, III.	臣	
W6XF         1604         California Portable         E         500         W9XV         1604         Carterville, Mo.         E         1000           W6XG         790         Oakland, Cal.         E         1000         W9XW         300         Hastings, Nebr         E         1000           W6XH         1604         Stanford University         E         1000         W9XY         1604         Chicago, Ill         E         25000	WGXBX		Cranto Col	臣		WYXK		Downers Grove, III.	D.	
W6XG 790 Oakland, Cal. E 10000 W9XW 300 Hastings, Nebr E 10000 W6XH 1604 Stanford University E 1000 W9XY 1604 Chicago, Ill E 25000	WOXE	1604	California Portable	E		WOXV	1604	Carterville Mo	E	
W6XH 1604 Stanford University E 1000 W9XY 1604 Chicago Ill E 25000	Wexc		Oakland Cal	E.		WOXW		Hastings, Nebr	É	10000
	WAYH		Stanford University	Ē		WOXY		Chicago .Ill	$\widetilde{\mathbf{E}}$	25000

# **FAVORITE PROGRAMS**

Time Station Dials Feature	Time Station Dials Feature
DAILY	WEDNESDAY
SUNDAY	THURSDAY
SUNDAI	THURSDAT
,	
MONDAY	FRIDAY
TUESDAY	SATURDAY
	<u> </u>

## HOW TO TUNE A SET CORRECTLY

### Read This Page Carefully and You Can Set Your Dials Accurately for Any Station in America

INDEX BY FREQUENCIES AND DIAL NUMBER

 $\mathbf{A}^{\mathrm{LL}}$  stations in America are listed in RADEX in three tables:

1st by Frequencies. 2nd by Call Letters

3rd by States and Cities. The Index by Frequencies is the one to be used, the other two are merely

610 kilocycles

630 kilocycles

KFI WAIU

620 kilocycles 483.6 meters

5000 Los Angeles, Calif. 5000 Columbus, Ohio

650 kilocycles 461.3 meters

660 kilocycles 454.3 meters

670 kilocycles 447.5 meters

680 kilocycles 440.9 meters

Anno Chicago, III.

KPO 5000 San Francisco, Cal.

WAAW 500 Omaha, Nebr.

supplementary.

Let us assume you have just bought your first RADEX. Proceed as follows:

Tune in some stationany station that comes in. Tune it sharply, turning down your rheostats (Volume control) until we find the marks on your dials at which it comes in most clearly and with greatest volume.

Let us assume that the station we are hearing is WEAF in New York. First we must ascertain the frequency for this station. Look it up under WEAF in the Index by Call Letters or under New York in the Index by States and Cities. either of these indexes we find that the frequency of WEAF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEAF is one of the two stations which have been assigned the 660 kcys. frequency by the Federal Radio Commission. We also Commission. find that it has a power of 50,000 watts, that it is located in New York City and is owned by the National Broadcasting Co., Inc.

In the blanks for dial numbers opposite 660 kilo-cycles (which is the wave length of 454.3 meters) enter the dial readings of your set. It is immaterial whether your set has one, two or three dials. Use as many of three spaces provided as you need. The set used in the illustration had two dials. In this case we entered the dial readings for 660 kilocycles as 69-67.

Let us now tune in some other station. We repeat the same procedure in tuning and find that we are the same procedure in tuning and und that we are hearing, let us say, WOS at Jefferson City. Pro-ceed as before in ascertaining the frequency of WOS. This we find to be 630 kcys. We turn to 630 in the Index by Frequencies and enter our dial readings for this band which on the set we are using was 72-70.

We now have found that the dial numbers for 630 keys, are 72-70 and the dial numbers for 660 keys. are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 650 keys. We listen carefully and if they are on the air and within range of our set we will tune in WSM of Nashville at this point. We then enter the dial readings for WSM opposite 650 keys. Now it is

clear that if we reset our dials at 71-69 our set will be tuned to 640 kcys. and at that point KFI of Los Angeles will be heard, always assuming, of course, that it is on the air and within range of our particular set.

Now we tune in some other station, proceeding as before until after an

590 kilocycles 508.2 meters /asmer, Inc. ks Wesleyan University Elec, Hiuminating Co. aco of the World Co. Missionary College 600 kilocycles 499.7 meters r & Paper Co. Thomas Corp I Radio Co., Inc. ol of Music 491.5 meters Inc. of Christianity 475.9 meters ria Broadcasting Ass'n. dipeg Grain Exchange dian National Railways dian National and In Liamas in Liamas college in College wille on the Air, Inc. Leese Co. Marketing Bureau 640 kilocycles 468.5 meters 70 | 68 67 66

65

evening or two, we have blanks filled on every page. We are now able to set our dials for any frequency we desire and consequently any station we may want whether we have ever received it before or not.

Our index now becomes of great value to us in identifying programs. Let us say that we hear music at 67-65 on our dials. We refer to our Index by Frequencies and Dial Numbers and we find that we are in tune to 680 kilocycles. On this wave there are two stations: KPO at San Francisco and WPTF at Raleigh, N. C. Both of these stations have 5000 watts But knowing in power. which is the closer to our set, we can tell almost invariably which station we are hearing. The Radio Commission has had to give the same frequency in most cases to several stations but they have distributed them geographically so thev interfere. should not When two stations in the same locality have the same frequency, they are required to divide the

time. In this case, of course, it is not possible to tell which one of the two stations is broadcasting at the particular moment we hear it, but we do know it is one or the other of them.

The second column in the Index by Frequencies. as we have seen, gives the power of the station as measured in watts. This power also aids us in identifying stations as we will not ordinarily hear those stations with 500 watts or less unless they are close to our home city.

The Index by Call Letters also has spaces providing for logging dial numbers, but these are provided merely for the convenience of those who want to be able to turn instantly to some favorite station. They may or may not be used as you desire. Remember that it is the Index by Frequencies that we must use to get the most value and pleasure out of our radios.

The Index by Frequencies is now printed with marginal tabs. If you will fill in under the word "dial" your reading for this particular frequency, you can then turn instantly to any frequency desired. Take a pair of shears and cut along the dotted line, as shown.



If all the Radio sets I'vs "fooled" with in my time wore piled on top of each other, they'd reach about half way to Mars. The trouble with ms was that I thought I knew so much about Radio that I really didn't know the first thing. I thought Radio was a plaything - that was all I could see in it

# IThought Radio Was a Plaything

#### But Now My Eyes are Opened, and I'm Making Over \$100 a Week!

\$50 a week! Man alive, just one year ago a salary that big would have been the height of my ambition.

Twelve months ago I was skimping along on starvation wages, just barely making both ends meet. It was the same old story — a little job, a salary just as small as the job.

If you d told me a year ago that in twelve months' time I would be making \$100 and more every week in the Radio business—whew! I know I'd have thought you were crazy. But that's the sort of money I'm pulling down right now—and in the future I expect even more. why, only today -

But I am getting ahead of my story. I was hard up a year ago because I was kidding myself, that's all—not because I had to be.

When broadcasting first became the rage, I first began dabbling with Radio. There's a fascination — something that grabs hold of a fellow — about twirling a little knob and suddenly listening to a voice speaking a thousand miles away!

Up to a year ago, I was just a dabbler — I thought Radio was a plaything. I never realized what an enormous, fastgrowing industry Radio had come to be — employing thousands and thousands of trained men. I usually stayed home in the evenings after work, because I didn't

Make enough money to go out very much.

And as for the idea that a splendid Radio job might be mine, if I made a little effort to prepare for it — such an idea never entered my mind. When a friend suggested

it to me one year ago I laughed at him.
"You're kidding me," I said.
"I'm not," he replied. "Take a look at this ad."

He pointed to a page ad in a magazine I'd seen many times but just passed up. This time I read the ad carefully. It told of many big opportunities for trained men to succeed in the great new Radio field. With the advertisement was a coupon I sent the coupon in, and in a few days received a handsome 64-page book, telling about the opportunities in the Radio field and how a man can prepare quickly and easily at home to take advantage of these opportunities. Well, it was a revelation to me. I read the book carefully, and when I finished it I made my decision.

What's happened in the twelve months since that day, seems almost like a dream to me now. For ten of those twelve months, I've had a Radio business of my own. At first, of course, I started it as a little proposition on the side, under the guidance of the National Radio Insti-tute. It wasn't long before I was getting so much to do that I quit my measly little clerical job, and devoted my full time to my Radio business.

Since that time I've gone right on up. They would have given me just as much help, too, if I had wanted to follow some other line of Radio besides building my

own retail business - such as broadcasting, manufacturing, experimenting, sea operating, or any one of the score of lines they prepare for you. And to think that until that day I sent for their eye-opening book I'd been waiting "I never had a chance."

Now I'm making, as I told you before, over \$100 a week. And I know the future holds even more, for Radie is one of the most progressive, fastest-growing businesses in the world today. And it's work that I like — work a

man can get interested in.

You may not be as bad off as I was. But think it over - are you satisfied? Are you making enough money, at work that you like? Would you sign a contract to stay where you are now for the next ten years — making the same money? If not, you'd better be doing something

This new Radio game is a live-wire field of golden rewards. The work is fascinating, absorbing, well paid. The National Radio Institute — oldest and largest Radio home-study school in the world — will train you inexpensively in your own home to know Radio from A to Z.

Take another tip - No matter what your plans are, no matter how much or how little you know about Radio — clip the coupon below and look their free book over. It is filled with interesting facts, figures, and photos, and is hised with interesting racts, insures, and process the information it will give you is worth a few minutes of anybody's time. You will place yourself under no obligation—the book is free, and is gladly sent to anyono who wants to know about Radio. Just address J. E. Smith, President, National Radio Institute, Dept. 1EO, Washington, D. C.

J. E. SMITH, President, National Radio Institute, Dept. 1EO, Washington, D. C.

Dear Mr. Smith: - Please send me your 64-page free book giving all information about the opportunities in Radio and how I can learn quickly and easily at home to take advantage of them. I understand this request places me under no obligation, and that no salesman will call on me.

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