

THE DECEMBER 1930

RADIO INDEX

The Magazine that Doubles the Pleasure of Radio



25^c

To _____

A Very Merry Christmas
and A Happy New Year

From _____

Give RADEX for Christmas

WE can't think of a thing that would give your friends so much pleasure for so little money as any one of the items listed below.

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Leatherette cover with RADEX or Map.

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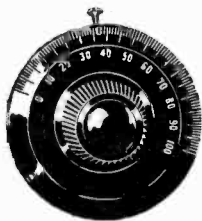
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Two subscriptions of 10 issues (or one subscrip-
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Use the subscription blank on Page 18.

*In the January issue: How to Add a Short Wave
Adaptor to Your Set*

THE DECEMBER 1930



RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER
Editor and Publisher



SEVENTH YEAR

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ADDING Your Own TONE CONTROL

ONE of the latest gadgets to put on your radio set, or have installed by a competent service man, is a tone control. Do not confuse this with a volume control, because it isn't such a thing, although it does reduce the volume of the higher tones. A tone control is just what its name implies, that is a control of the tone quality of a receiver. It would, however, be decidedly foolish to imagine that a tone control will improve reception to such a marked degree that one can make a good set out of a poor one. No such miracle is suggested. "Well," you ask, "what does a tone control do and is it a worthwhile improvement?" To be sure a tone control is desirable; it improves reception by taking the harsh edge off a raspy tenor, the shrillness from a loud soprano, it softens the blatant effect of a blary, brass band and changes the pitch of a speaker who has a decidedly irritating nasal quality of voice.

How It Works

The tone control consists of a fixed condenser, of from .001 to .1-mfd. capacity, and a variable resistor having a maximum resistance of 500,000 ohms, the latter being installed on the panel of the receiver so that it is always accessible. Usually the connections are as shown in Fig. 1. One side of the fixed condenser is connected to the G-terminal

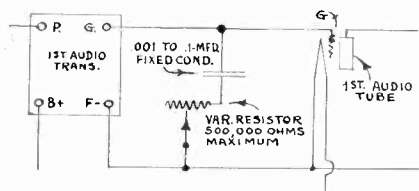


FIG. 1.

of the first audio transformer, that is the one following the detector stage. The other side of the condenser goes to the fixed side of the resistor, while the variable side of the resistor is connected to the F-terminal of the same audio transformer. Thus the condenser and resistor are connected in series while the whole arrangement is merely shunted across

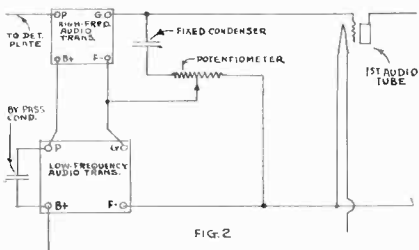
The Why and the How of It

the secondary winding of the first audio transformer. When the resistor is set so that all of its resistance is in the circuit, the reproduction is practically the same as it was before making the above-mentioned change in the wiring. But when the resistance is cut out by moving the resistor arm in the opposite direction, the higher frequencies passing through the secondary winding of the transformer and from there to the grid of the first audio tube, are partly bypassed through the fixed condenser so that a portion of their strength is absorbed.

In reality, a tone control merely suppresses the higher frequencies, these being more easily passed through the condenser than through the first audio tube when the resistance in the tone-control circuit is reduced to a point where it is less than that of the grid circuit of the first audio stage, and as you know, an electric current always follows the path of least resistance, as many of us do ourselves. A tone control will not actually deepen the bass notes nor lower the frequency range of the first audio transformer, but when the higher frequencies are suppressed, that is, reduced in volume, while the lower frequencies still retain their original values, the latter will seem comparatively louder than otherwise.

A Clever Arrangement

One radio manufacturer has incorporated a delightfully clever idea that really does permit the user to emphasize either the high or the low notes along any desired graduation. He uses two audio transformers for the first stage, one designed to pass the higher frequencies and the other the lower frequencies. The circuit is shown in Fig. 2. The tone-control unit or resistor, which in this case happens to be a potentiometer, is cut in the circuit in a somewhat similar manner as that already described. The transformers are



hooked up in series, that is, the primary of one is connected in series with the primary of the other, and the same is true of the secondaries. When the resistor arm is set halfway, a normal tone quality is obtained, both transformers being in action. Turning the resistor toward one side cuts down the higher tones and then most of the load is carried by the lower-frequency transformer, resulting in emphasis of the low tones. Turning the resistor in the opposite direction cuts the load off this transformer, transferring it to the one designed for higher frequencies with the result that high tones are emphasized.

It has been questioned whether a tone control is necessary or advisable in case where tone, as actually produced before the microphone, is already of a superior quality. Naturally it would be useless to attempt improvement of something that is already perfect, or nearly so. On such cases, one would immediately discourage the use of a tone control. But there are a few factors that must be taken into consideration, even when dealing with really good tone. In the first place radio engineers claim that in order to have perfect reproduction of tone at the receiving end, the volume should be exactly the same strength as the signal when picked up by the microphone at the studio. However, in the average home this is usually out of the question, Imagine having a 50-piece band playing full strength in a small 9 by 12 living room. For comfort then the volume must be greatly reduced. When this is done the low notes of the musical scale, to which the human ear is least sensitive, are lost, while the higher ones are retained, thereby throwing the tone quality entirely out of balance. This is true whether the music

being broadcast is perfect in respect to tone quality. Obviously, to restore the proper balance at the receiving end the higher tones should be reduced in volume in the same proportion as the low notes, which can be accomplished by the installation of a tone control. The distorted effect due to incorrect location of microphones can also be corrected to a great extent by using a tone control. Another reason why a tone control is a good gadget is that as long as radio broadcasting exists there will be screechy sopranos, squalling tenors and others
(Continued on page 16)



Salt and Peanuts of WLW. Frank Salt and "Peanuts" sing old songs, new songs, blue songs, love songs, trick songs, hick songs and all sorts of songs.

WAVE TRAP Increases SELECTIVITY

And Gives Greater Volume

HERE is a simple wave trap, which anyone, who likes to experiment a little, can readily make. The necessary parts for its construction are a .0005-mfd. variable condenser, a bakelite or cardboard tube four inches in diameter and three inches long, some No. 18 d. c. c. wire for the primary winding and some No. 22 d. c. c. wire for the secondary winding. A small snap switch and a piece of bakelite, large enough to hold the condenser, will also be found very handy. Wrap from 40 to 45 turns of No. 22 wire on the tube, this winding being the one which is connected at both ends to the variable condenser. On top of this winding, wrap 10 turns of No. 18 wire. The latter winding is connected between the antenna and the antenna post of the receiver. You will find it handy to connect a snap switch across this winding so that the wave trap may be shorted out when not in use. With a long antenna, fewer turns are used on the primary winding. On a 100-foot antenna only five turns of primary are needed. Mount the condenser and the switch on the bakelite panel and fasten the tube holding the coil to the frame of the condenser.

I am using a Crosley Gembox A. C. receiver. My antenna is located in the attic of a 1½-story house. It is about 35 feet in length and runs north and south, with the lead-in taken from the south end. My ground lead is about eight feet long and it is soldered directly to the city water mains. I find that my wave trap increases the signal strength from 75 to 100 per cent. I had often read the advertisements of certain manufacturers who claimed that the use of a wave trap increased signal strength, but this was rather difficult for me to believe. However, you can imagine my surprise, when after fixing up the wave trap described above, not only was interference cut down, but I actually found

that the wave trap increased the volume to a considerable extent.

Another Type

A slightly different wave trap, which I have also found highly satisfactory, makes use of low-loss form to hold the windings. The number of turns of the windings, and also the capacity of the variable condenser differ from the preceding wave trap. Get a bakelite tube four inches in diameter and 2½ inches in length. With a scribe carefully make a mark entirely around the tube about one-half inch from each end. Then lay off four sections about one-quarter inch wide running across the tube lengthwise. These sections should be equidistant. Then take a drill and make a hole which will enable you to insert a small metal-cutting blade of a scroll saw, and cut out the pieces between the sections laid off. The result will be a ring at each end connected by four one-quarter-inch cross-pieces. Keep the cutouts as they must be used when winding the coil, or else the wire will stretch directly from one cross-piece to another and the resulting coil will be square, which is, of course, not desired. Get a smaller coil that fits snugly inside of the four-inch coil, even if you have to build the diameter up by several layers of paper. After the smaller coil is put in place the cutout pieces are put back in their original positions and the wire is wound on the outside. Apply a liberal coating of collodion to the wire so that it will be practically self-supporting when dry, at which time the inner tube can be removed and also the cutouts.

In this case the secondary winding consisted of 30 turns of No. 18 d. c. c. wire. The primary winding, consisting of 10 turns of No. 14 d. c. c. wire, is then wound on a 3½-inch tube, and collodion is again applied. When dry, slip the winding off the tube and mount it inside of the secondary winding. Sometimes difficulty is experienced in removing a collodion-treated coil from a tube. One

(Continued on page 25)

MEET FREDDIE RICH



THIS is the story of a career and a personality, productive, gracious and surprising. To introduce so elaborately such an unassuming young man as Freddie Rich is incongruous, but imperative. Behind his smooth-shaven face, kindly eyes and smile is a determination intransigent. The will of a fighter who, not yet thirty, has established himself in this highly competitive world as a director extraordinary, a successful composer of popular music and a picturesque *bon vivant*.

He comes from the East Side and frankly admits it. His experiences recall those of the boy in "Haunch, Paunch and Jowl." He fraternized with peddlers, policemen and street musicians; felt the raw edges of poverty; battled with gangs. He stole away from school to swim in the East River, but nevertheless found time to practice daily at the piano. But unwillingly—unwillingly, that is, until one day his father, to punish him, stopped his lessons and locked up the instrument.

Then Freddie's need for forbidden music grew so urgent that he became a steadfast disciple and practiced faithfully hour after hour until he was proficient. Soon he was reaching out with the mysterious facility of the true artist into harmony and composition.

At twelve he had a job on Second

Avenue in an old-fashioned "nickel-odion." Tired fingers, poor ventilation, strain. Ten hours straight playing a day, with time off only to meet the requirements of the Board of Education, and \$13 a week for his services, \$12.50 going to his family and 50 cents for himself.

A hiatus here. A transitional period, with Freddie finally in the Damrosch Conservatory of Music, happy, and substantially laying the foundation for his future musical life.

The rest is a record of definite achievement. In 1922 at the Hotel Astor he was one of the first dance orchestra directors to conduct a program over the radio. In 1923 he was a recording artist and was composing numbers like "Animal Crackers." He was also gathering in dollars for his brilliant arrangement of the "Parade of the Wooden Soldiers."

Now as one of the principal conductors for the Columbia Broadcasting System, he does as many as sixteen different programs a week.

At rehearsals he is affable, winning, mild and resourceful.

"Come on, boys," he calls, and immediately his musicians respond with the best they have. He does not use a baton, but directs with hands and fingers superlatively plastic. He edits quickly: "Back eight measures as you'd actually play it," he orders. Then he stamps his feet, hard—so hard that they have to put felt on the stand to preserve it for other directors.

"Once more from the beginning," he shouts. "Give me the last eight bars that you are actually going to play. . . . 'Dum, dum, dum' alla breve. . . ." And finally, when the grueling hours of rehearsal are over, he dismisses his men with—"Thank you very much, boys."

How to Add a Short Wave
Adaptor Will be Found in
the January RADEX

Collecting RADIO VERIFICATIONS

A NUMBER of inquiries come to us regarding verification cards and asking for information as to securing them. It is necessary only to listen to a program long enough to ascertain the title of the feature and the time at which it was received. Send this in a letter to the station which you heard with a 2-cent stamp and they will advise you whether or not it agrees with their records. Stations as a rule will not give verifications on chain programs, as these are known to every one and do not constitute a proper basis for verification.

Station Stamps

New readers unfamiliar with DX stamps write to ask us what the asterisk means in the Index by Frequencies. This indicates that the station so marked has notified us that upon receipt of 10 cents and the correct report of a program received from their station, they will send as verification an adhesive stamp. Many listeners are making a collection of these stamps, as proof of the stations which they have received. Most of the stations furnish a stamp issued by the Ekko Company, although a few stations have put out an individual stamp of their own.

Recently collectors have begun to gather these radio stamps in the same way that philatelists have been collecting postage stamps for many years. This has given rise to a controversy which has been raging pro and con in the last several issues of this magazine.

Several readers have taken violent objection to the claims of DX reception published in our columns. Karl Halpern, 1435 Coney Island Ave., Brooklyn, N. Y., believes that some of these criticisms are aimed at him and therefore sends to us letters and cards he has received from foreign stations which indicate beyond a doubt that he heard their stations correctly. Two of these verifications were from JOBK, Japan, and EAJ19, Spain. Those of us who have never been able to tune in a single station from across the water do find it difficult to realize that one located in such a large city as

The Hobby of Many Readers

Brooklyn can bring in a number of them. But Mr. Halpern submits evidence proving that he has done so.

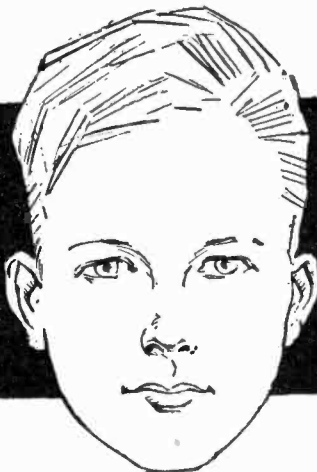
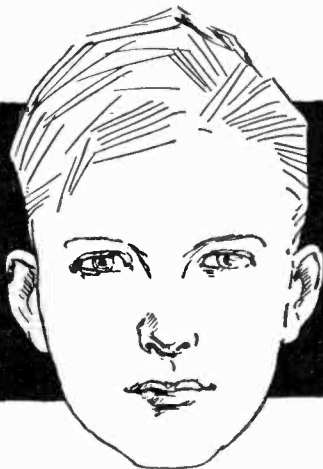
Another correspondent, Leon V. Garland, 216 West Franklin St., El Segundo, Calif., writes that he knows that his was the name referred to as heading the list of members of one of the stamp exchanges, but he says, "Although I have a number of Ekko stamps and have sold a number to parties wanting them, I have yet to find one person who is collecting them as proof of reception." Mr. Garland says that as proof of reception stamps are quite worthless, as he knows a number of stations that will send them just for the asking and 10 cents, and that he has known cases where proof cards from one station were sent to the stamp company with a request for a certain stamp of another station and the request was honored. Under such circumstances, of course, the possession of stamps constitutes in no way a proof of reception.

A second letter from Leonard L. Hoffman, 618 No. McBride St., Syracuse, N. Y., and a letter from J. W. Brauner, 17 E. Spring St., Williamsville, N. Y., seem to object more to the publicity given DXers than to their claims. As we have stated before if a person desires to claim unfounded reception he can do so without possessing a stamp. There are throughout the United States DXers who are making remarkable records in bringing in distant stations, including those across both the Atlantic and Pacific.

More Verifications

And Joseph Baskys, 1610 South Union Ave., Chicago, writes that his total of 978 stations were all verified by letter only and although he too sells stamps to collectors, he bases his count only on those verified by letter. He states further that he has shown all of his letters of foreign verification to Mr. Gilchrist,

(Continued on page 22)



One of these Boys Will Fail - IF

BOTH possess equal health and intelligence, both have qualities that make for success, but only one will succeed, for the other one stammers—he will fail. He is dominated by fear. He will dread to meet people, for he will lack the self-confidence so necessary to succeed in all walks of life, but especially in business; and the humiliation of his disability will result in an impairment of his nervous system—a condition often the beginning of ill health.

All stammerers are fully aware of their handicap; they know how it feels to be regarded as "different" from other people—and often laughed at. They know that their affliction sets them apart from all others who are normal. They know that stammering is a handicap which prevents their greatest success in business or their participation in social affairs. But all stammerers do not know that their handicap can be removed.

From childhood Benjamin Bogue was afflicted with a chronic case of stammering. For nearly twenty years he endured the experience common to all stammerers. But after long years of tireless effort, after endless nights of study and days of research he developed the method by which he cured himself.

STAMMERING ITS CAUSE AND CURE

In the book offered below, Mr. Bogue relates the story of his own experiences, and describes how he restored himself to perfect speech. As stammering is due to a lack of co-ordination between the speech muscles and the brain, he quotes in the book the eminent authorities that for years recognized the well-known fact that stammering cannot be "outgrown,"

but instead becomes "ingrown," and that in order to restore perfect speech it is necessary to establish proper functioning of the speech musculature.

Beginning on page 72 will be found an explanation of the causes of stammering. The results of stammering are also fully described, giving the basis of the conviction held by leading speech authorities that stammering should be removed before it becomes deeply rooted in the muscular and nervous system. The text beginning on page 196 is devoted to a description of the Bogue Unit Method, which is based on the principle of co-ordination between the mind and the speech organs. It has restored perfect speech to stammerers everywhere. No drugs or medicine are used, and the method is highly endorsed by physicians.

In this book will be found the reason for the world-wide reputation of the Bogue Unit Method and its international recognition as the standard method for the cure of stammering and stuttering. Hundreds of helpful facts are embodied in this valuable book entitled "Stammering, Its Cause and Cure," a copy of which will be sent on receipt of ten cents mailed with the coupon.

BENJAMIN N. BOGUE,
14051 Bogue Building,
1147 N. Illinois St., Indianapolis, Ind.

Enclosed is 10 cents for which please send me the book "Stammering—Its Cause and Cure"—and full information regarding the Bogue Unit Method for the cure of stammering and stuttering.

Name

Address

HERE'S What's Wrong with MY SET

Diagnosis by the Technical Editor

Are you able to give me definite information regarding the following: Is there a short-wave receiver manufactured that can be used by plugging into a Radiola superheterodyne set using UV 199 tubes? If so, please send me the name of the manufacturer or dealer so that I may get further information.

Short-wave adapters of the usual kind consist of a short-wave tuner, which is connected ahead of the detector tube, the r. f. stages of the receiver being entirely disconnected. Another method of adaption is to substitute short-wave coils for the regular coils used in the r. f. stages, both sets of coils being interchangeable. In the case of a superheterodyne, of which the intermediate-stage coils or transformers are not interchangeable, and the oscillator coil is especially designed for the broadcast waveband, the use of an adapter becomes more complicated and is not really satisfactory. About the only method that could be used is a short-wave adapter connected ahead of the second detector, the output of the intermediate stages being disconnected. Such a tuner would, of course, have no r. f. amplification, and consequently the range of the receiver would not be very great. If you are interested in such a tuner write to the Aero Products Co., Ravenswood and Wilson Avenues, Chicago, Ill., requesting them for their their short-wave catalogue. If you wish good short-wave reception, it is best to build a separate receiver especially designed for short-wave reception.

Reducing Hum

When I bought a Radiola No. 60 superheterodyne about two years ago, I found that it had a very decided hum, I reduced this about ninety per cent by shunting a 2500-mfd., 9-volt filter condenser across the rectifier of my Magnavox dynamic loudspeaker. Recently, while having the set overhauled for necessary minor adjust-

ments of the intermediate transformers, trimmer condensers, and regeneration control, I had the radiotrician change the wiring to permit the use of 245 tube in the audio stage. Since this was done I find the operation of the set very satisfactory in regard to tone, volume, distance and selectivity. However, the former bad hum is back again and the condenser across the rectifier apparently has no effect at all. I am sure it is not the fault of the condenser, because I had it tested and I also tried a new one of the same type. I find that the hum is now in the set instead of in the speaker, which I proved by disconnecting the speaker and using phones. I have called the same man who worked on it before but he does not seem to be able to find the cause of the hum. I would like to ask if you can suggest where to look for the trouble and the method of correcting it.

The power unit of your receiver is not designed to supply power to a 245 tube, which requires from 180 to 250 volts of plate potential. Besides a 2.5-volt filament voltage the C-bias requirements are also different, and the 245 tube passes more plate current than the 171A. When used in conjunction with a power unit not intended for it, there are possibilities of overloading the unit, which invariably results in a. c. hum. According to manufacturer's data, the 245 tube is not interchangeable with the 171A tube or any other power tube, and it can only be used with apparatus especially built for it. The difference in tone quality obtained by using a 245 tube instead of a 171A, is so slight that it does not pay to make the change, and when you have complications, such as the introduction of the a. c. hum, I would certainly change right back again to the use of a 171A tube, which was the original arrangement and operated satisfactorily. Let well enough alone.

Probably Tube Trouble

I have a Kolster 6D battery-operated receiver and have gotten excellent results until recently. At present I am unable to get any stations other than the locals.

I think that the fault lies in the tuning condensers, as I had to put a piece of metal next to one of them to get any volume even from locals. Kindly advise me how to remedy this fault.

It is impossible to completely diagnose your trouble merely from the fact that a piece of metal placed next to one of the tuning condensers increases the volume of your receiver. It is, however, evident from this fact that your r. f. tubes are not delivering their normal supply, and the pickup is poor. Get new tubes, inspect your aerial, insure a good ground, be certain that your batteries are up to their normal voltage, and you will have no more trouble.

Fitting Tubes to Set

I have a Franklin Consolette six-tube battery-operated set and would like to know what tubes would work best in it. I have three Rextrons, which have no numbers on them at all. I have a Radiotron UX201A, Cunningham CX301A, and one Airline GX200A, which is a detector tube and works better than any I have had. When I got the set it had a 200A Sonotron detector, but this wasn't good and I got a UX200A Radiotron and burned

it out the first time I put it into the socket. Can you give me any advice?

Use a UX200A tube in the detector stage and 201A tubes in all other stages unless the last audio stage is designed for the use of a power tube and in that case use a power tube in this stage, providing the correct plate voltage and grid-bias voltage. First try a 201A in the power stage and if this is not satisfactory use a 112A tube, increasing the C-bias to nine volts and using 135 volts of plate potential on the last stage only. If the maximum B-voltage on your set is 90, you may be reasonably certain that the last tube should be a 201A. If it is a resistance-coupled set you may have to supply 135 volts of plate potential on the audio tubes and still use the 201A type.

Voltage Control

I have a Silvertone seven-tube screen-grid receiver, that is a very good performer with the exception that it fades badly. I have noticed that your advice to readers having this same trouble is to use a voltage control between the source of house-lighting supply and the receiver. Believing that my trouble has been due to fluctuating house current, I have approached several radio

(Continued on page 20)

Norman Brokenshire, one of Radio's most popular masters-of-ceremonies, tunes in to a trio which introduced the new popular song, "Sing Something Simple" from the "Second Little Show." Left to right, Arline Judge, Ruth Tester and Fay Brady



Our Readers WRITE to the EDITOR

About Things They Learn

MANY letters of commendation have been received regarding the new RADEX Radio Map of North America. Our Canadian readers have been especially interested in securing a map showing the location of the U. S. stations as well as those in their own country. "It is indeed a splendid map and a worthy companion to RADEX," says Hedley Simmons, 22 Clyde St., Hamilton, Ont. "Certainly up to the high standard that you maintain for your publication," is the comment of Carroll C. Foltz, 303 Central Ave., No. Baltimore, Ohio. "I am very well pleased with the map. I put a circle around the cities I have heard and in this way I can see at a glance the ones I have and have not received," explains Jack Roberts, 211 Harvard Ave., Collingswood, N. J. "I have mounted the map on heavy cardboard and bound the edges with red tape. I use Moore map pins to mark the cities I have received. A blue-headed pin for those received but not verified and a red pin for those verified," is the method of use described by Thos. Van Buren, 32 Fourth Ave., Gloversville, N. Y.

"A word of praise for the RADEX radio map," says Tom Lovell, P. O. Box 209, Belton, Texas. "Anyone interested and caring to know what distance their radio is reaching out should have this map. For my own convenience, starting with my town as the center, I have made 100-mile circles covering the map. I can thus tell at a glance how far any broadcasting station is from me."

WCHI and KMAC

We still receive conflicting reports in regard to this Chicago station, but it seems to be pretty well agreed that it is now broadcasting over WORD, although D. E. Cosgrave, Hotel Strand, Chicago, believes they resumed broadcasting on Saturday, October 25th. Mr. Cosgrave says Chicago publications show WCHI

at 823 Tower Court, while WORD is at 2150 Lincoln Park West.

LeRoy House, P. O. Box 57, Plant City, Fla., a beginner in DXing, has now 56 stations verified and letters to 14 more outstanding. "WHAS writes me," says Mr. House, "that they have issued a set of five stamps for verification. WTIC, Hartford, uses their own station stamp as well as a nice letter in verifying my reception."

2LO Schedule

"A friend in England writes me," says George Lilley, 227 W. Bernard St., West Chester, Pa., "that 2LO broadcasts between 10 and 10:30 a.m. and 11:00 and 11:30 a.m., that is 5:00 to 5:30 and 6:00 to 6:30 EST. Tell your Eastern readers," adds Mr. Lilley, "to try for KGFJ, 100 watts, Los Angeles. They are on the air 24 hours a day. I received them quite a few times this fall around 5:00 a.m. Also logged KGAR, Tucson, Ariz., 100 watts, November 2nd, at 4:40 a.m., with a two-tube receiver."

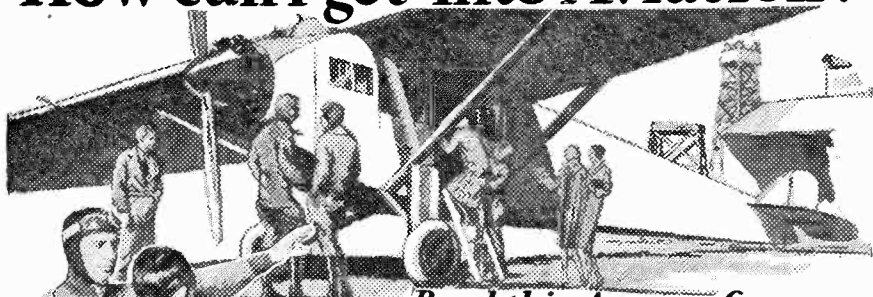
"Have logged from one to 36 stations from all the states except Maine and New Hampshire, so far I have never heard them," says O. C. Arnold, RFD 4, North Topeka, Kansas.

"Recently I purchased a Majestic 52, a wonderful little set, and in eight nights I have logged 65 stations on 50 channels, including CMC and CMK, Cuba, and KFI, KGO, and KNX, California," writes Everett N. Daniel, 3235 Hackberry St., Cincinnati, Ohio. "This is fairly good in view of the fact that I am located almost next door to a street car barn and I surely do know it when a car goes past or when they start a motor." Mr. Daniel complains that WKBU, the Cincinnati police station, supposed to be operated on 720 keys, spoils everything for him around 1370.

"I can't DX like some of the readers of RADEX," admits W. E. Evans, 2 Woodland Road, Sewickley, Pa., "but I get a great kick out of trying. Four weeks ago I bought a Kyletron and in that time I have logged 184 stations on

(Continued on page 12)

"How can I get into Aviation?"



Read this Answer from

A World Famous Trans-Atlantic Pilot

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 Aviation Institute of U. S. A., Inc.,
 1115 Connecticut Ave., Washington, D. C.
 Send at once my FREE copy of your book, "Wings of Opportunity."

Name _____
 Street _____ Age _____
 (Must be over 18)
 City _____ State _____



Please mention RADEX

Readers Write the Editor

(Continued from page 10)

every wave except 540, 880, 1030. I haven't enough stations to be classed a real DXer, but in any event I am not a radio liar and don't think that any of your readers who write you of their DX work are either."

"I have noticed some queer reception with Florida stations," says F. E. Wilkes, Ossining, N. Y. "For instance, I have had every Florida station except one, WJAX comes in as early as 6:00 p.m., and when WQAM was on 1240 they came in at 5:30 p.m., which is rather good reception, is it not? My set tunes down through the marine frequencies from 1500 to 1600 kcys., and through the experimental station frequencies down as far as the amateur band." Mr. Wilkes lists a number of the shortwave stations he has heard with his set.

The German Stations

The following interesting letter is from H. Walter Fricke, 560 30th St., No. Bergen, N. J.:

"In my June letter to you I stated that I was going to write to the German short-wave transmitter in Koenigs Wusterhausen requesting them to intersperse announcements in English. The reason for this was that one of your readers, Mr. P. J. Soper, 256 Burroughs Terrace, Union, N. J., had complained in your midsummer edition that the aforementioned German station never announces in English.

"Well, today I received a letter from the 'Program Committee of the German Broadcasting Companies' which, in translation, reads something like this:

"Your letter, addressed to the main transmitter, Koenigs Wusterhausen, has been referred to us. Your detailed information on broadcasting conditions in your country has had our fullest attention, and we wish to thank you for the interest you are showing in the German shortwave transmitters. We regret that, at this time, we are unable to comply with your wish that the programs of the German short wave transmitter be announced in English, the reason for this being that this transmitter does not

send out its own program but picks up its features only from the regular German broadcasters. We would like to mention, however, that those special features which are sent out only by the short-wave transmitter are announced in English, too. We hope that, in the meantime, you have acquired a short-wave receiver, and that you are having good reception. We would be grateful to you for reports on reception, and hoping to hear from you again, we are —."

"I noticed in the November RADEX that you have deleted KMAC," writes D. M. Patterson, 1502 No. Robinson St., Cleburne, Texas, "I am sending you a clipping from the Fort Worth paper which indicates that this station is still on the air." The clipping referred to describes the death of the radio technician of Station KMAC atop the Blue Bonnet Hotel during the broadcast of a program.

"KMAC should not have been deleted as they were on the air as late as October 10th, broadcasting from the Blue Bonnet Hotel in San Antonio," writes Donald Hill, Broken Bow, Neb. "I know this is so as I received them for several nights straight. As for WCHI, all the announcements I have heard were as follows: 'WORD broadcasting a program for the WCHI Broadcasting Corporation,' which I think explains that controversy. WBOQ has been on the air nearly every night for the past week or two, testing for several hours with WHK, Cleveland, on 860. I notice that you still list WGGF as being at Picher, Okla. They have been at Coffeyville, Kans., for sometime, operated by the Coffeyville Journal."

Those Time Schedules

We have given the idea of compiling the hours on the air for all stations much thought, but have not as yet found a plan that would give this information in convenient form without occupying too great a bulk. Raymond N. Flood, 9 Chase St., Brattleboro, Vermont, suggests that we add an eight-page section and make it a part of RADEX. Many have written in to say that they would gladly purchase this information at 10 cents a copy or even 25 or 50 cents. To arrange this information so that reading

downwards the stations on the air at any certain hour of the day or night would be indicated, while reading from left to right would show the hours that any particular station was on the air, would require a total of 126,000 hourly designations. As the most we have been able to figure to a page is 2720 such designations, this would require a book of 46 pages in order to convey this information in the most helpful way. This could, of course, be condensed if we were to make it read only one way, but the question is whether our readers would prefer to know what stations are on the air at any particular hour, or whether they would prefer to know the hours for any particular station. If any of our readers have any suggestion for the arrangement of this data we would be glad to hear from them.

Some Puzzling Stations

"I and others have been hearing a station giving the call letters WRDA on 560 kcys., but they do not give their location. I last heard this station on October 8th at 3 a.m." This is the report of Geo. H. Snyder, Jr., P. O. Box 202, Ridgewood, N. J. The only record we have of WRDA is that this call was given to the Buffalo Evening News and later changed to WBEN.

WNRC recently changed its call letters to WBAM, but several readers report hearing them give the call letters WBIG. Have they changed their call again?

A number of readers object to our deletion of WBOQ and state that they have recently heard this station testing after midnight with WHK, Cleveland. WHK has been carrying on experiments in synchronization with the key station of the Columbia System and evidently WABC has resurrected the old WBOQ call to be used while testing.

Martin Savitsky, 17 Liberty St., Shelton, Conn., asks for information about WRDS which was broadcasting police information; and Nicholas J. Hock, 20 Burnet St., Newark, N. J., wants data on WCF and WRBE. None of these stations is a broadcasting station, and no list is published so far as we know giving commercial calls alphabetically. As there are many thousands of

commercial stations it is out of the question to identify them without knowing their frequencies.

"WDBJ is listed in RADEX at 250 watts," says Jack Bachman, 204 No. 34th St., Philadelphia, Pa., "but the way they come in it hardly seems possible that they broadcast on such low power. I get them as loud and clear as some of the local thousand-watters."

"CNRL-CHNS broadcast on 910 kcys., but you always log them on 930," comments Geo. S. Buckman, Hillside and College Ave., So. Nyack, N. Y. These stations are listed correctly in accordance with data furnished us by the Dominion Government. But they may be testing a different frequency. Perhaps some of our Canadian readers can enlighten us.

"It seems since KMOX got its strong wave we will have trouble out this way," writes Chas. M. Konn, 4310 Seeboldt Ave., Detroit, Mich. "Sharp as my 12-tube set tunes I get a heterodyne from KMOX on WTAM's wave with lots of squealing, for which it seems that KMOX is to blame." We know of locations within a hundred miles of Cleveland in which KMOX now drowns out WTAM entirely. Both of these stations are on 50,000 watts experimental. Certainly the situation in this vicinity would be cleared by reducing KMOX to 25,000 watts, and it is possible that WTAM may interfere with KMOX in other sections.

We understand that the Federal Radio Commission has instituted legal proceedings against the so-called outlaw stations WGM and WOOP. Guy B. Welsh, Reynoldsville, Pa., reports hearing WGM nearly every day between noon and six o'clock. They state they are located in Jeanette, so he says, although a letter received from this station sometime ago gave their location as Adamsburg. In view of the fact that the Commission has at last taken action we are deleting these two unlicensed stations in this issue.

"You show WEAJ as having 50,000 watts and WJZ 30,000," says an unsigned letter from Fox Chase, Pa., "I get WJZ loud at any time, but WEAJ is hard to receive and never comes in clear. It cannot be the set as other people

around here have the same trouble." Reception is no indication of power, as sometimes, due to peculiarity of location, a small-powered station is received with greater clarity and even with more volume than one with much greater power no further away.

"I noticed a paragraph in which you tell of Iowa listeners who get interference between WBBM and KFAB. There is little or no interference between these two stations in the daytime here in Nebraska, but in the past few weeks WBBM has been getting louder and louder until there is a slight growl at almost any time of the day," comments Donald Hill, Broken Bow, Neb.

"Why doesn't the Federal Radio Commission do something about WBBM and KFAB on 770 keys?" asks Greer McCrory, 606 So. 2nd St., W., Cedar Rapids, Iowa. "Practically all of the time they are on the air simultaneously and sometimes WJBT comes on and adds to the chaos. Listening to a football game from WBBM I hear music and advertising all jumbled together with the game. Please do see if something can't be done. Cedar Rapids police, like the police in Chicago, have radio-equipped cars, so they can get orders from headquarters and whenever the police station KGOZ broadcasts I can hear it above all other stations any place between 1300 and 1500 keys. Why is this? I have been told that this station broadcasts on 120 meters and I don't see why I can hear it on 200 to 215 meters. It is possible to hear these police orders any time they are broadcast." It is possible that the police broadcasting station is manned by amateurs, or rather beginners, and has not yet developed a technique that permits them to keep on their proper wave. Or you may be hearing a harmonic. In either case, it would seem that a complaint to the police authorities would lead them to correct the situation, for undoubtedly they do not desire to have the public hear their orders to cruising cars.

"I wonder if anyone has a record like this," asks Guy B. Welsh, Reynoldsville, Pa. "At 6:30 p.m. on October 26th I was listening in on the 1370 channel. Between 6:30 and 6:31 I dialed three new sta-

tions, WBGF, Glens Falls, N. Y., WBTM, Danville, Va., and WJBK, Detroit, Mich. In the same minute I heard the announcements of WLVA, Lynchburg, Va., and WCBM, Baltimore, Md. This seems impossible, but I have my family and several friends to prove it. Early Monday morning, I brought in KXO, a 100-watt station in California, and KGMB, a 500-watter in Honolulu." Mr. Welsh adds that his set is not working as well as formerly, but from these records we cannot see how anything serious can be wrong with it.

Improving RADEX

Quite a number of readers have written in to commend us for publishing the month's changes by themselves and we will try to maintain this feature. It will not always be practical, however, for the reason that the body of the magazine goes to press first and the data is held until the last possible moment for the latest corrections. Ralph Caldwell, Route 1, Clarksville, Pa., would like to have us include the requests for more power and different wave lengths. Aside from the fact that there are hundreds of these every month, most of which come to naught, we feel that this information would merely be confusing, as a mere request means nothing.

In the November issue we asked our readers to decide for themselves what the improvement was we were making that month. Only a few discovered that we are now arranging the stations alphabetically under the weekly programs, something that has long been requested by our readers, but something which makes a vast amount of work for the editors.

"Why not insert a few Canadian programs?" asks T. Crawford, 9-205 Alexander Ave., Winnipeg, Man. "And make the best book still better." Lack of space prevents our publishing individual station programs. If there are now any Canadian chains regularly broadcasting over several stations, we would be glad to learn of them.

"Would it be possible to include some of the powerful trans-Pacific stations in the regular index, as you do the Cuban

stations," asks Don Turner, Box 655, Taft, Calif. "We distance-hounds on the Pacific coast pick them up quite regularly. I have had JOFK, JOGK, JOCK, JOBK, JOIK, JOHK, JOAK, 2YA, and 2FC several times." These stations will now be found in the Index of World Stations which is arranged by frequencies with space for dial numbers, which we feel sure will answer the purpose.

Some Inquiries

From Joseph Cabus, R. F. D. 3, Poughkeepsie, N. Y. "I and others up here are troubled at times with fading, and I wondered if the ground you recently mentioned as having been tested by the U. S. Bureau of Standards would aid my reception and help to check the fading." If the fading is due to natural phenomena, we doubt if anything can check it, but sometimes the action of a poor ground, loose connections, faulty power supply, poor tubes, etc., are taken for fading. Certainly every set should have a good ground and we know of no line of experiment which it will better pay to follow than that of various grounds.

"Could you tell me if aerials are made gold-plated and if they are on the market. I understand they are used on ship work. Would they be better than lacquered aerials?" asks M. E. Williams, Box 121, Timmins, Ont. Aside from such aerials being very expensive, we doubt if they would have any greater value than the enameled aerial. An enameled aerial is very much better than a bare wire, as the copper is protected from the action of soot. Some devices must be extremely well protected at sea because of the action of the salt water and salt air, causing corrosion.

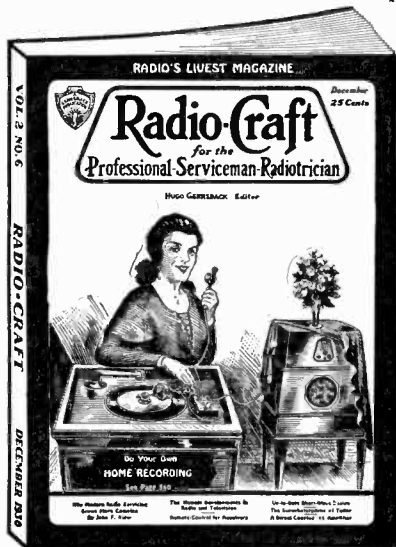
"I recently heard the announcer at Springfield, Mass., give the call letters WBZ, WBZA, and a third set which I could not catch," states a reader from Helena, Mont. "I don't know of any other station belonging to Westinghouse on that wave length. Do you know anything about this or was I hearing things?" We do not know what the third station could have been unless it was W1XAZ, the short-wave relay station of the Westinghouse.

RADIO

Set Servicing, Short Wave, Television, Sound Projection, Automobile Radio, Airplane Radio, Construction of Test Laboratories, Cause and Cure of Interference, Latest in Radio, Money-Saving Kinks—these and many other subjects are understandably described each month in RADIO-CRAFT. The magazine is edited by men outstanding in the radio profession.

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Contents of the December Issue

Modern Tone Control, Home Recording Devices, Modernizing Radio Sets, Public Address Systems, Radio Servicing, Latest Development in Short Waves, Television Systems, Power Amplifier Design, Short Wave Converters, Profit-Making Hints, New Developments in Radio and many other interesting articles.

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98 Park Place, New York, N. Y.		
Enclosed find \$1.00 for which enter my subscription to RADIO-CRAFT for the next eight months. (Canada and foreign, \$1.25.)		
Name	.....
Address	.....
City	.....	State

A question which has puzzled many is presented by Tom Lovell, previously quoted. "The frequencies measured in kilocycles are all the same distance apart, but the difference between meters is not the same. Stations on the higher frequencies from 1400 to 1500 are harder to separate on the dial than is the case in the lower frequencies. Is this because the difference between the meters is less?"

The fault is not with the meters, but with the condensers in the set. In order to accommodate the great number of stations on the air, the broadcasting band has been made wider than engineers have so far been able to devise condensers to cover. The average condenser will separate stations well only for about 75 of 100 points and these are usually in the center. To give perfect reception and separation of all stations with condensers as at present developed we ought to use broadcast frequencies of say 600 to 1400, but these 80 channels would not be sufficient for our American stations.

A New Chain

We have received publicity regarding the formation of a new chain on the Pacific coast, the United Broadcasting Company, whose first program was scheduled for November 1st. Headquarters of the chain are in Los Angeles. The nine stations which will comprise the new network are said to be the following: KXA, Seattle; KVOS, Bellingham; KMED, Medford; KXL, Portland; KORE, Eugene; KTAB, San Francisco, KFWB, Los Angeles; KTM, Los Angeles; KGB, San Diego.

"In the last issue someone reported hearing KMJ on the Columbia chain," says Richard Bogart, 1416 Linden St., Allentown, Pa. "I think I can solve this as KMJ carries KHJ's programs, almost every night, and KHJ is on the Columbia chain." This is verified by Leon V. Garland, El Segundo, Calif., who says, "KMJ is a member of the Don Lee System, and they are on the Columbia. Here are several other hundred-watters that are broadcasting chain programs, KFBK, KZM, KOH."

Station Information

"You will be interested to know that beginning Saturday, November 15th,

the NBC programs which have been heard over WGR will be transferred to WBEN," is reported by Valentine Sadowski, 188 Miller Ave., Buffalo, N. Y.," and the Columbia programs will be heard over WKBW and WGR. Radio station WMAK will broadcast local programs."

"If you haven't received notice already," writes Kenneth J. Loudon, P. O. Box 533, Orangeville, Ont., "CJGC, of London, Ont., is starting broadcasting this week with a new transmitter of 1000 watts power."

"I have not heard radio station WCLB listed in RADEX on 1500 keys. for the last ten months," says Gordon C. Hamilton, 142 E. 18th St., New York City, "although I frequently listen to other stations on that wave. Are you sure it has not been deleted?" It has not been deleted, but is it still on the air?

"How many of your readers have noticed that there are only two stations in Manitoba?" asks Richard W. Herzer, 338 Kingsway, Winnipeg, "and they are both owned by the Provincial Government. Manitoba as far as I know is the only place in North America where the broadcasting is entirely in the hands of the Government. How they can do this legally is more than I can see."

"In September, 1930, I received WJAX on 1260 keys. Their letterhead and RADEX both show them on 900 keys., but I heard them on 1260," says James L. Cavanagh, Jr., 101 No. Spring Ave., La Grange, Ill.

Adding Your Own Tone Control

(Continued from page 3)

who, unfortunately, cannot adjust their voice to the likes and dislikes of listeners and therefore it becomes a dire necessity for the listeners to either tune them out or use a tone control to sweeten them.

Anyone who can carefully trace the wiring of his receiver, can readily install the condenser and resistor constituting a tone control. These two parts are comparatively cheap and can be obtained at almost any radio shop. A radio service man will also be willing to make the necessary changes at a nominal figure.

A NEW PROBLEM for our PUZZLERS

A NUMBER of solutions to the October puzzle were received after the deadline date set for the 28th and consequently could not be considered. Readers should bear in mind that we are now mailing the new RADEX to subscribers on the 25th of each month and therefore they must mail their answers before the 23rd in order to have them count.

In the October puzzle there was one call, 9-33 vertical, which could be filled with either KGIW or KGIX and either of these solutions was considered as correct. "The puzzles surely are interesting to work and a person learns a lot about the different stations while working them," comments Paul W. Douds, R. D. 1, Toronto, Ohio. "I enjoy all the puzzles which do not require recourse to the ancient history of radio for solution," says L. S. Miller, 5909 32nd St., N. W., Washington, D. C. "I think this is the easiest puzzle you have had for some time," comments Billy McQuade, 6617 Leland Way, Hollywood, Calif., but the joke is on Billy for he had 14-40 vertical wrong. On the other hand, Walter Kolojaj, 5031 Northcote Ave., East Chicago, Ind., says he found this puzzle very hard but he got it right. "As soon as I get my RADEX," writes Walter, "I turn to the

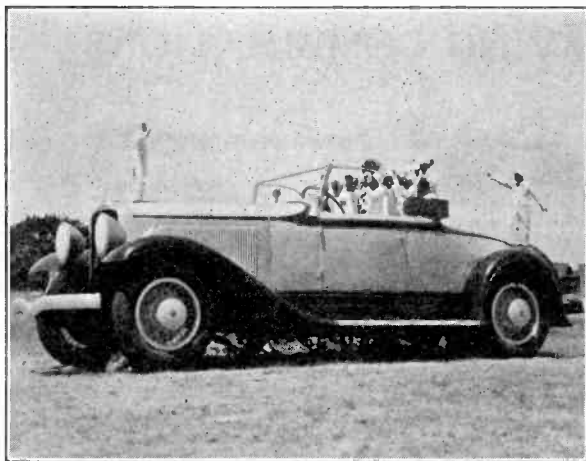
They Wanted a Hard One

puzzle page, for I find it very interesting. I enjoy not only the puzzles but all the articles written about radio. These articles are educational and useful and I would like to see more of them published. The arrangement of the Radio Index is the best I have ever seen."

"I presume the September edition was used in making up the October puzzle for the October issue has no frequency with thirty-one 100-watters," points out George W. Kuehne, 1469 York Street, Windsor, Ont. Readers should remember in working these puzzles, always to use the previous month's issue, for it is impossible to use the data of the edition in which the puzzle appears.

Those who sent in solutions in November and did not receive a copy of the December issue as a premium will undoubtedly find the reason why in this correct solution:

CKX WWL KJR
KMED C WGAL
YBMCRCWKJSD
CMW Y WLW
W W OAC W W
WGCMC KFKXO
J S WWG B C
WHB O WOW
KFSWDKYRBTk
WBAK O CMBZ
KGW WHO WOM



Here are Jean Goldkette's "Studebaker Champions" in a brand new President Roadster. But what's wrong with this picture? The car is a "prop" used in filming "Wild Flowers" a talking picture. It's 15 1/2 times bigger than the regular model

R A D E X I S T H E
W E B S T E R S
U N A B R I D G E D
O F R A D I O

"Each issue your puzzles become more and more easy," thinks Clayton Huff, Martinsville, Ind. "I wish that you would get some good hard puzzle." We think it is not so much that the puzzles are getting easier as it is that our puzzlers are getting better! A number have written in to ask, however, for harder puzzles, so we have, through much lucubration (that's a hard one, anyway), brought forth the following. If you find it too hard, don't blame us.

So sure are we that you will find this a hard nut to crack that we are going to send for correct solutions your choice of either the radio map or the January RADEX.

The puzzle is to fill in letters in the squares so that from beginning to end

we will have the calls for the following stations:

- In the capital of the Confederacy.
- The fishermen's station.
- A memorial to a great socialist. (Reverse.)
- Increased its power in October to 5000 watts.
- One of 32 100-watters on this wave.
- In U-13 on the new map.
- Independence Broadcasting. (Reverse.)
- Ought to belong to the BPOE.
- Named for a great Quaker
- On a canal whose east end is west of the west end.
- 850 miles south of Minneapolis on the new map.
- (Reverse.)
- On 1500. (This one is jumbled.)
- Last three letters initials of railroad owner.
- (Reverse.)
- In a state capital.
- Tune at noon.
- Purdue. (Reverse.)
- Columbia outlet municipally owned.
- First on the last.
- One of three 250 watters in its state. (Reverse.)
- Shares time with 20-kilowatter in another state.
- In Thomasville. (Reverse.)
- On the Mississippi.
- The Queen's University.
- On 1210. (Reverse.)
- In Ohio. (Jumbled.)
- On zero. (Reverse.)

HERE'S A LITTLE SLIP

that will bring pleasure to you or your radio friends
 Obeÿ that impulse and sign it now

MONEY-SAVING COMBINATIONS

The Radex Press,
 1367 East Sixth Street,
 Cleveland, Ohio.

Enclosed find \$..... for which send me postpaid my choice of your offers as checked below:

- One Radio Map of North America..... 25c
- One copy of the next RADEX..... 25c
- Trial subscription, next five issues of RADEX..... \$1.00
- One year's subscription to RADEX, 10 issues, and Radio Map free..... 1.75
- Two subscriptions to RADEX with one leatherette cover and Radio Map, both free..... 3.50
- Leatherette Cover..... .50
- One copy "Radio Trouble Shooting," by E. R. Haan..... 3.00

Write Name Plainly.....

Street and Number.....

City and State.....

December Changes

Power:

- KFYR 550—Bismarek, N. D. 1000 to 500.
 VAS 690—Louisburg, N. S. 500 to 10000.
 CMK 730—Havana, Cuba. 3000 to 2000.
 CJGC 910—London, Ont. 500 to 1000.
 CMCQ 950—Havana, Cuba. 500 to 1000.
 CMBZ 1010—Havana, Cuba. 100 to 150.
 WTAX 1210—Springfield, Ill. 50 to 100.
 KWSC 1220—Pullman, Wash. 500 to 1000.

Frequencies:

- CMW —Havana, Cuba. 600 to 588.
 XET —Monterrey, Mex. 620 to 630.
 VAS —Louisburg, N. S. 690 to 685.
 XEN —Mexico City. 731 to 720.
 XED —Reynosa, Mex. 770 to 960.
 XFX —Mexico City. 840 to 860.
 CMBC —Havana, Cuba. 1220 to 1130.
 CMQ —Havana, Cuba. 1220 to 1130.

Ownership

- WJZ 760—New York City. To National Broadcasting Co., Inc.
 WRC 950—Washington, D. C. To National Broadcasting Co., Inc.
 KGGF 1010—Coffeyville, Kans. To Coffeyville Journal.
 WRAX 1020—Philadelphia, Pa. To WRAX Broadcasting Co.
 WTAM 1070—Cleveland, Ohio. To National Broadcasting Co., Inc.
 WBNY 1350—New York City. To Pillar of Fire.
 WIBM 1370—Jackson, Mich. To WIBM, Inc.

Deleted:

- WGM 840—Adamsburg, Pa.
 WOOP 840—Jeannette, Pa.

Locations:

- KGGF 1010—Picher, Okla. To Coffeyville, Kansas.

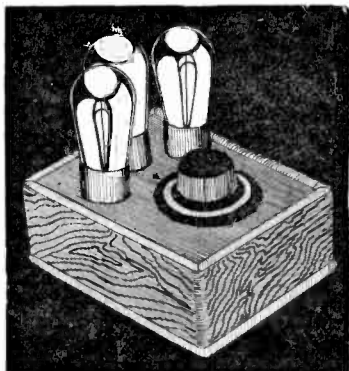
Reinstated:

- KMAC 1370—San Antonio, Texas.

New:

- Rutland, Vt., 100 watts—Seward & Weiss Music Co.

Short Waves FOR LESS \$5 THAN....



EXPLORE the fascinating short-wave bands at next to no expense for no end of fun! You can do this with a short-wave converter, which works in conjunction with your broadcast receiver. Parts cost less than \$5 yet this is a three-tube converter, using 227 tubes for AC or battery operation. Only one dial, so stations are not hard to find. You'll be surprised at the tremendous distances you can cover. Even European stations may be received.

Keep Posted!

RADIO WORLD, the first and only national radio weekly, which publishes a great amount of circuits for short-wave as well as broadcast reception, offers you an opportunity to find out all the particulars of the 3-tube converter circuit, with blueprint and list of few parts needed. Send \$1.00 for 8 weeks' subscription, one copy a week for eight weeks, beginning with the November 8th issue, and receive the blueprint free. The November 8th issue and subsequent issues you will receive tell the whole story of this marvelous converter.

RADIO WORLD, 145 W 45th St., New York City:

Enclosed please find \$1.00 for which send "Radio World" for 8 weeks, beginning with the November 8th issue, and send converter blueprint free.

Name

Address

City State

(R.X)

What's Wrong with My Set?

(Continued from page 9)

dealers in this city asking about voltage controls and they state that they have a device that will keep voltage from passing above 110 volts, but it will not build up the voltage in case the house-lighting current drops below that point. If there is a voltage control on the market that will keep voltage on an even basis as outlined in your section. I will appreciate very much your furnishing me with the trade name together with the manufacturer's name.

The Radial Co., 50 Franklin Street, New York City, claim that their automatic voltage regulator provides a constant 110-volt potential regardless of slight line fluctuations. Write to this concern for particulars. If your fading is very pronounced it may not be due to fluctuating line voltage. Have a local electrician test the house-lighting circuit under a load at night, to see whether or not the voltage falls below par. Severe fading is often caused by one or more defective screen-grid tubes. Check for this condition before purchasing a voltage regulator.

Substituting Tubes

I have a set equipped with 224 r. f. tubes. Could these be replaced with a. c. Pentodes? I noticed that the voltage is very similar in these two tubes.

Never substitute tubes of any other value than those that are supposed to be used in the receiver. The voltage of tubes is not the only factor in comparing them. There are many other factors, such as C-bias, plate voltage, plate current and filament current, etc. Unless tubes agree in all such factors it is decidedly unwise to substitute one kind for another.

Replacing Transformers

I have a Steinite No. 40C receiver, purchased last December and in it there are eight transformers, including those for the push-pull audio-frequency amplifier. There are no transformers of this type available here for use on the Steinite receiver. Will you recommend other transformers that can be substituted?

The most advisable thing to do in your case is to write to the manufacturers of your receiver, explaining the trouble to

them and they will be glad to send you the necessary transformers to replace the defective ones in your set, at the regular rates. The name and address of this concern is The Steinite Labs., Radio Building, Atchison, Kansas.

Burst of Noises

I am the owner of the Federal Model E 45-60 radio receiver, powered by a Raytheon power pack. When I have the set turned on and am receiving a fairly clear program, a burst of line noises and static comes in and cuts the volume down that the station can barely be heard. When it does this I pull the detector tube out of the socket and push it back again, after which the program is all right for some time. I have replaced the volume control, a three-point 50,000-ohm potentiometer, and I have also replaced several detectors and other tubes, all to no avail. Could you possibly tell me where I could locate the trouble?

Noises of the kind you have experienced are often traced to one or more of several causes, namely, (1) internal short circuits of the intermittent kind inside of the tubes. Usually only one tube is the offender, Replace the tubes one by one until the defective one has been found. (2) If you have already done so and the trouble still continues, try a new rectifier in your power pack. (3) A leaky grid condenser may have to be replaced. (4) Look over every socket prong and see that the tube tips make good electrical connection with the socket prongs. Corrosion at these points may be responsible. (5) Also examine the wiring for a poorly soldered or a loose connection. (6) If you are accustomed to turning the volume control over to nearly its maximum volume, your set may be breaking into oscillation. In this case adjust the power pack so that it will deliver slightly less B-voltage. This will permit the volume control to be turned to the extreme right-hand position without causing the set to break into oscillation.

Reception Varies

I have a five-tube Hammerlund-Roberts receiver and it worked all right for me last winter, but ever since I installed eliminators for A and B supply, it has not been

satisfactory. Sometimes it will pick up stations all right and other times I can't get anything outside of locals, which always come in when wanted. At one time stations of higher wave lengths come in much better than those of lower wave lengths. The length of my aerial is sixty feet, including the lead-in. I have tried a longer aerial but this does not seem to help. I am using a Knight B-eliminator and an Abox A-eliminator, both of which seem to be in good working condition. Can you kindly advise me where to look for trouble?

Variations in line voltage may be responsible for the varying degrees of efficiency you are experiencing with your receiver. This would be more pronounced in case your tubes are rather old. Therefore, it would be a good idea to have them tested and the old ones replaced. Another cause for your inability to get distant stations regularly is a purely natural one, being due to atmospheric

conditions. It is a well-known fact that weather conditions vary so much that greater distance is possible on one night than on another.

Balancing Condensers

Will you kindly tell me how to balance a Lyric radio receiver?

Balancing the variable condensers of a radio receiver is a task that requires some degree of skill and accuracy. If a radio service man is not available who can do this work for you, get a copy of the May, 1930, issue of RADEX, which gives complete instructions for balancing t. r. f.

Volume Control Trouble

I have a Kolster K-20 receiver which seems to operate satisfactorily on local stations, but when tuning in out-of-town stations it is necessary to turn the volume control as high as possible. I also find that the least reduction of volume cuts the stations out completely, which would seem to indicate that the volume control was

It's a pity but they're all a bit cuckoo as they're from the "Cuckoo Hour" of the NBC. From the well-known "left to right" we have Ambrosia Weems (Virginia Gardner); Mrs. Pennyfeather (Mrs. Adelina Thomson); Prof. Weems (Ray Knight); Fetlock Soames (Eustace Wyatt); Dolly Gray (Gladys Shaw Erskine); and sitting on the foreground, Ivan Firth and Arthur Campbell



completely bypassed. In other words, I have absolutely no volume control on out-of-town stations. New tubes do not remedy the fault. Please advise the probable causes of this trouble and the remedy.

It seems that the power-supply unit does not provide the maximum amount of voltage necessary for the operation of your set. This usually makes it necessary to turn the volume control up entirely as in your case. By increasing the plate voltage a trifle by adjusting the power pack this trouble can be overcome. If this does not help a new volume control of exactly the same resistance as the old one should be installed.

Street Railway Noises

I wonder if you would send me the necessary information how to reduce the interference caused by an electric railway. From the time a car approaches a point one-half mile from our house the trouble commences and it continues until it gets about the same distance beyond. Can you recommend anything to eliminate this noise?

Radio interference from external sources, which is picked up by the aerial of a receiver, cannot be eliminated at the receiver, but must be trapped at its source. Shielding the room containing your receiver will not prevent the aerial, which is outside, from picking up the undesired signals. Shielding the room containing the high-frequency apparatus which causes the trouble, is effective, provided, of course, the shield is grounded. Electric railways cause interference that is really beyond your control. The best method of minimizing your pickup of these interfering signals is to use an underground antenna such as the "Sub-antenna." Also use lead-sheathed cable for grounding your receiver instead of ordinary bare wire, which is usually used for the purpose. A wave trap could be used for trapping certain signals of a constant wave length, but in your case the signals are of all sorts of wave lengths and come in over the entire dial.

Attaching Phones

I have a Majestic Model No. 71 and it is not possible to use a pair of headphones with it in order to get distant

reception. Can a change be made in the wiring to accommodate a phone plug?

The installation of a jack to permit the use of headphones on a receiver not already wired for earphone reception, involves some rewiring and it is best to take the set to a reliable radio dealer or serviceman to have these changes made. The B-positive and plate leads of the second audio tubes are led to the jack, which should automatically cut out the rest of the audio amplifier when the plug is pushed in. There are several methods of making such an installation, but in any case it is best to let your local radio dealer take care of it for you. For fuller information in regard to this problem, see the article in No. 38 RADEX for April, 1930.

Collecting Verifications

(Continued from page 6)

Radio Editor of the Chicago Daily News DX Club. Mr. Baskys uses headphones only in making records and does not try to bring stations in with loudspeaker volume. Then too, he uses a loop and has often been able to tune in three different stations on the same frequency by turning the loop in their direction. He lists a number of foreign stations as having been received recently and offers to send his letters of verification from them. Among these are Auckland and Christchurch, New Zealand, Lima, Peru, and Manila, P. I.

To our controversy, Wm. James, 308 Pacific St., Brooklyn, N. Y., contributes the following: "It is no wonder that some folks have written in questioning various DX catches. Some of the yarns rank with the best fish stories. There must be a limit to what a radio set will do and I honestly believe some of these claims go too far. Don't think this is written by a sorehead who has no DX catches for I have plenty. But my log is nothing like some that have been printed. At the present writing my log is 484 verified catches but not one is off the North American continent. As to daylight reception, about the best I can do is Philadelphia and I have a good set. It may be that I have never been looking

for these extraordinary catches at just the right time."

"Here is a little ancient history." goes on Mr. James, "that may throw a little light on this subject. Last year the Newark News Radio Club arranged with CJOC at Lethbridge, Alberta, for that station to put on a late program so that the DXers would have a chance to get this station. Well, the great night came and CJOC got letters telling how good they came in. Verifications were asked for by persons that 'heard' their program and one bozo even went so far as to say he listened to them for a full hour and heard the whole program. Now comes the joke: On the night in question CJOC had broken down and *didn't* go on the air at all."

Thos. Van Buren, 32 Fourth Ave., Gloversville, N. Y., summarizes the situation by saying "Keep up the DX department in RADEX; don't stop it, rather enlarge it for I agree with you most of these DXers tell the truth and just because a certain reception seems impossible this does not make it so, for, under the same conditions, other things being equal, anybody may receive these stations your DXers state they receive. So keep up the good work, publish all letters received and let the readers decide for themselves the truth thereof."

Some Inquiries

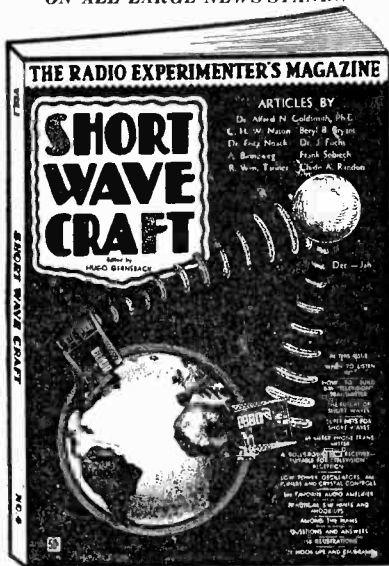
"I would like to know what distance to expect in the daytime," writes Richard W. Herzer, 338 Kingsway, Winnipeg, Man. "Here in Winnipeg the farthest we get with volume enough for programs, is Fargo, N. D., and Bismarck, 200 and 250 miles away, respectively. The farthest I have picked up with headphones is Yankton, S. D., 400 miles away. This distance seems to me to be very poor in comparison with other reports. About what distance is considered normal daytime reception?"

This is a pretty hard question to answer. Mr. Baskys, above quoted, states that two years ago he received KGU, Honolulu, at 4:30 p.m., while Mr. James stated that Brooklyn to Philadelphia was his best daylight reception. Daytime reception is very freaky and occasionally a distant station will be

The Radio Experimenter's MAGAZINE

SHORT WAVE CRAFT, Mr. Hugo Gernsback's latest radio magazine, has been called his greatest achievement in radio magazine publishing. SHORT WAVE CRAFT is the one and only real big magazine on short waves you have wished for so long. HERE IS PROOF!

ON ALL LARGE NEWS STANDS



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Among the contributors to SHORT WAVE CRAFT, we find Lee de Forest, F. H. Schnell, "Bob" Hertzberg, C. W. Palmer, H. W. Secor, Clyde Fitch, R. Wm. Tanner, Dr. Alfred N. Goldsmith, Beryl B. Bryant, C. W. H. Nason and others.

Regular Departments in SHORT WAVE CRAFT
 Photographic Section—Pictures of latest short wave sets and stations. Transmitters for Short Waves—How to Build Them. Short Wave Receivers—Construction data for all types and kinds. The Short Wave Experimenter. Television on Short Waves. Short Waves for the Broadcast Listener. Ultra Short Waves. How to Build Short Wave Aerials. The Short Wave Beginner. Aircraft Short Wave Sets. Short Wave Question Box.

Published on the 15th of Every Other Month

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Short Wave Craft, RI-12
 96-98 Park Place, New York, N. Y.

As per your special offer I enclose \$1.80, for which please enter my subscription for one year to SHORT WAVE CRAFT and send me also the first and second issues gratis. I understand that SHORT WAVE CRAFT is published on the 15th of every other month. (Regular yearly subscription—\$3.00.)

Name.....

Address.....

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brought in in daylight which constant tuning will never bring in thereafter. We believe that consistent daylight reception over 300 miles cannot be expected although we know some of our readers will not agree with this statement.

Miss "Anonymous," of Helena, Mont., who "has a horror of publicity so please don't use my name," writes: "On 1110 kcys. I have been getting a foreign station. We have a 1931 Radiola, nine tubes, and every bit of power has to be used to take that station in. I hear everything, even the station's call letters, but because I want to understand them so badly, I can't! They sound like KPI but, of course, that's not right—the only thing I feel sure about is the I. Spanish (I guess) is spoken and it sounds like it might be a Cuban station. Can you help me?" CMHI, Santa Clara, Cuba, is on 1110 and CMKD, Santiago, is on 1100, but it hardly seems possible it could be either of these as they are rated to use but 15 and 40 watts respectively. Has anyone else heard this station?

Cuban Stations

"Can you tell me the official wave of CMCH, Havana? Had them near 1200 kcys." writes Jack B. Schneider, Garwood, N. J. We have no record of CMCH; could it have been CMCA, 100 watts on 1225?

Several readers report hearing a station that announces in Spanish on 780 kcys. The nearest station of which we have any record which might be Spanish speaking is CMHC, Tuinucu, Cuba, which is supposed to use 791 kcys.

"I wonder if you know that the Cuban stations have made quite a general change in frequencies this month," asks Carroll C. Foltz, 303 Central Ave., No. Baltimore, Ohio. "About all of the larger stations seem to have increased power and changed waves. There is one on 780 which interferes with WMC and I believe it is CMC, although I am not sure."

Roger D. Causse, P.O. Box 6688, Lester, Pa., Radio Operator on SS. Thermo, from Puerto, Padre, Cuba, and sends us a list of Cuban stations which was furnished to him by Station CMCQ.

Karl Halpern, Brooklyn, N. Y., also sends a list of Cuban stations and the Department of Commerce at Washington has just completed a check of the Island stations. From these lists our Cuban data is being corrected in this month's issue.

"On October 26th I heard a station on 1180 kcys. speaking what I am sure was Spanish. I thought perhaps it was Cuba or Mexico, but there is no station listed on or near that frequency," writes O. W. Desmond, 407 E. John St., Maumee, Ohio. "The program was some sort of a convention in a large hall with lots of speaking. They shut down about 11:20 p.m. Can anyone identify this station?"

A very small station, CMGB, Mantanzas, Cuba, with only 7.5 watts is rated as using 1185 kcys. This seems to be the only Cuban possibility. Our latest Mexican data gives no station nearer than 1200 kcys., XEA, Guadalajara, with 100 watts. Mr. Desmond has one of the new nine-tube Graybar Superhets, on which he logged 106 stations in about three weeks.

Mexican Stations

"XET, Monterrey, Mexico, is on 630 kcys. and not 620," says Jack P. Schneider, "XEN, Mexico City, comes in on 720 kcys.," says Miss Anonymous, "interfering greatly with WGN. Occasionally CKWX, at Vancouver, takes the stage and CMK is only a squeal."

"A few corrections on the Mexican stations, XEN, which you have on 730 is on 720. It heterodynes squarely on top of WGN every night. It evidently changed waves to prevent interference with CMK," writes Wm. E. Kessel, 411 No. 8th St., Temple, Texas. "XEM, which you have on 840 is on 765. I receive it practically every night. XFX, which you have on 840 is on 860. I heard its call letters clearly there."

"I logged Station XEW, Mexico City, sometime ago," states D. M. Patterson, 1502 N. Robinson St., Cleburne, Texas, "and wrote them regarding the program. I received a very nice letter in reply. They said they would like to hear from listeners in the U. S. A. and would answer all letters received by them.

"Will you please take notice that our radio station XED, located in Reynosa, Mexico, is to be inaugurated on November 8, 1930," writes A. D. Martinez, Station Manager. "We will operate on a frequency of 960 keys. with a rating of 10,000 watts. We will appreciate your making corrections in your station list." The slogan of the new station is the "Voice of Two Republics," and the invitation to the opening gives as one of the motives of the new station the cementing more firmly the already amicable relations enjoyed between the United States and Mexico. RADEX takes this opportunity on behalf of its many thousands of readers of extending its congratulations to the new station and trusts that it will be heard frequently in many homes throughout the United States.

**THE SEALS
you buy TODAY...
WILL
SAVE A LIFE
TOMORROW**



YOUR health tomorrow may depend upon the constant and persistent fight against tuberculosis today.

BUY CHRISTMAS SEALS
and
FIGHT TUBERCULOSIS

Building a Wave Trap

(Continued from page 4)

method of overcoming this trouble is to wrap a layer of thin paper around the tube and then wind the wire over it. The tube can readily be slipped out of the paper wrapping as there is no adhesive holding these two together. Then the paper can carefully be peeled off. In this case the condenser used was originally one of .001-mfd. capacity, but I cut out some of the stator plates in order to broaden the distance between the stations on the lower end of the dial. After these alterations the capacity of the condenser is about .00075-mfd. I find that the above-described coil and condenser covers the entire broadcast range satisfactorily.

I have found it convenient to fasten the wave trap to the underside of the table which holds the radio set. Angle brackets are used for the purpose, being attached to the panel holding the condenser and also to the table.

Daylight Stations

A NUMBER of readers have written us that they have heard during the evening hours some of the stations which we list as daylight stations. There are certain stations which are limited entirely to the daylight hours; there are others which the Radio Commission terms "Limited Time Stations," which are regularly on daylight hours, but which under certain circumstances, as outlined in General Order No. 48 of the Commission, may operate during the evening.

General Order No. 48 reads as follows:

"A limited time broadcasting station is hereby defined as a station which, under its license from this Commission, is permitted to operate during hours allowed daytime broadcasting stations as specified in General Order No. 41, and in addition during certain time temporarily not used by the unrestricted station or stations on the same frequency. An example is the use of late evening hours by a limited time broadcasting station in the West after the

closing of an Eastern station on the same frequency.

"A limited time broadcasting station desiring to operate after sunset shall so notify the Commission, which will ascertain what hours the use of which is not desired by the unrestricted station or stations on the same frequency, and will thereafter authorize the operation of the limited time station accordingly, subject however, to the right of said unrestricted station or stations to reclaim the use of such hours upon reasonable notice to the Commission and to the limited time broadcasting station.

"A limited time broadcasting station

will not be permitted to operate at any time when its operation will cause heterodyne interference with other broadcasting stations assigned to the same frequency."

The Commission lists the following stations as having been granted the "Limited Time" privileges. We are indicating these stations by "Dn." KPCB, 650; WPTF, 680; KMPC, 710; KMMJ, 740; KVI, 760; WRUF, 830; KMO, 860; WCFL, 970; KFVD, 1000; WMAK, 1040; KFKB, 1050; WJAG, 1060; KWJJ, 1060; WCB, 1080; WMBI, 1080; KSOO, 1110; WJJD, 1130; KTNT, 1170; WDG, 1180; WHDI, 1180.

BROADCASTING RELAY STATIONS

A List of the Short Wave Transmitters

<i>Location of Transmitter</i>	<i>Call Signal</i>	<i>Frequency in Kilocycles (Meters in Parenthesis)</i>	<i>Power (Watts in Antenna)</i>	<i>Licensee and Address</i>
California				
Sacramento	W6XAF	2,938 (112.1), 5,870 (51.11)	500	State Dept. of Agriculture (Calif.)
Westminster (Near) ...	W6XAL	6,080 (49.34), 15,250 (19.672), 21,500 (13.953)	15,000	Pacific-Western Bdct. Federation
Colorado				
Denver	W9XA	830 (361)	12,500	General Electric Co.
Illinois				
Addison	W9XAQ	6,040 (49.67)	1,000	Chicago Daily News
Chicago	W9XAA	6,080 (49.34), 11,840 (25.34), 17,780 (16.873)	500	Chicago Fed. of Labor
Downers Grove	W9XF	6,020 (49.83), 11,800 (25.42), 21,500 (13.953)	5,000	Gt. Lakes Radio Bdct. Co., 72 W. Adams St., Chicago, Ill.
Iowa				
Council Bluffs	W9XU	6,060 (49.5)	500	Mona Motor Oil Co.
Massachusetts				
East Springfield	W1XAZ	9,570 (31.35), 2,398 (125.1)	10,000	West'g'e Elec & Mfg. Co.
New Jersey				
Bound Brook	W3XAL	6,100 (49.18)	20,000	Nat'l Broadcasting Co.
Coytesville	W2XAL	6,040 (49.67), 11,800 (25.42), 15,250 (19.672), 21,460 (13.979)	500	Aviation Radio Sta.
Kearny	W2XCX	6,080 (49.34)	500	L. Bamberger & Co.
New York				
Bellmore	W2XZ	610 (491.5)	50,000	Nat'l Broadcasting Co.
Cross Hassoek Bay	W2XE	11,840 (25.34), 15,280 (19.634)	20,000	Atlantic Bdct. Corp.
New York (Portable) ..	W2XBR	6,020 (49.83)	1,000	Baruchrome Corp.
South Schenectady	W2XAD	15,340 (19.557)	25,000	Gen. Electric Co.
South Schenectady	W2XAF	9,530 (31.48)	40,000	Gen. Electric Co.
South Schenectady	W2XAG	550 (545), 660 (455), 790 (380), 1,150 (260.9), 1,500 (200)	200,000	Gen. Electric Co.
Ohio				
Mason	W8XAL	6,060 (49.5)	250	Crosley Radio Corp., 1325 Arlington St., Cincinnati, Ohio
Pennsylvania				
East Pittsburgh	W8XX	6,140 (48.86), 9,570 (31.35), 11,880 (25.25), 15,210 (19.724), 17,780 (16.873), 21,540 (13.928)	40,000	Westinghouse Elec. & Mfg. Co.
Philadelphia	W3XAU	6,060 (49.5), 9,590 (31.28)	500	Universal Brdc. Co., 1940 Market St.
Canada				
Middlechurch, Man....	CJRX	11,720 (25.6)	2000	James Richardson & Sons, Ltd.

KEY TO CHAIN STATIONS

CFRB 960 C	KOL 1270 C	WBEN 900 N	WFAA 800 N	WJDX 1270 N	WOW 590 N
CKAC 730 C	KOMO 920 N	WBRC 930 C	WFAN 610 C	WJDD 1090 C	WOWO 1160 C
CKGW 690 N	KPO 680 N	WBT 1080 C	WFBL 1360 C	WJR 750 N	WPG 1100 C
KDKA 980 N	KPRC 920 N	WBZ 990 N	WFBM 1230 C	WJZ 760 N	WPTF 680 N
KDYL 1290 C	KRLD 1040 C	WBZA 990 N	WFI 560 N	WKBN 570 C	WQAM 560 C
KECA 1430 N	KSCJ 1330 C	WCAE 1220 N	WFIW 940 C	WKBW 1480 C	WRC 950 N
KFAB 770 N	KSD 550 N	WCAH 1430 C	WFJC 1450 N	WKRC 550 C	WREC 600 C
KFH 1300 C	KSL 1130 N	WCAO 600 C	WFLA 620 N	WKY 900 N	WREN 1220 N
KFI 640 N	KSTP 1460 N	WCAU 1170 C	WGN 720 N	WLAC 1470 C	WRH 1280 C
KFJF 1480 C	KTAR 620 N	WCCO 810 C	WGR 550 C	WLBW 1260 C	WRVA 1110 N
KFKX 1020 N	KTHS 1040 N	WCFL 970 N	WGST 890 C	WLBZ 620 C	WSAI 1330 N
KFPY 1340 C	KTRH 1120 C	WCKY 1490 N	WGY 790 N	WLII 720 N	WSB 740 N
KFRC 610 C	KTSA 1290 C	WCSH 940 N	WHAM 1150 N	WLIT 560 N	WSM 650 N
KFSD 600 N	KVI 760 C	WDAE 1220 C	WHAS 820 N	WLS 870 N	WSMB 1320 N
KGO 790 N	KVOO 1140 N	WDAF 610 N	WHEC 1440 C	WLW 700 N	WSPD 1340 C
KGW 620 N	KWK 1350 N	WDAY 940 C	WHK 1390 C	WMAK 900 C	WSUN 620 N
KHJ 900 C	KYW 1020 N	WDBJ 930 C	WHO 1000 N	WMAL 630 C	WTAG 580 N
KHQ 590 N	WABC 860 C	WDBO 1120 C	WHP 1430 C	WMAQ 670 C	WTAM 1070 N
KLRA 1390 C	WADC 1320 C	WDOD 1280 C	WIBO 560 N	WMC 780 N	WTAR 730 C
KLZ 560 C	WAFB 640 C	WDSU 1250 C	WIBW 580 C	WMT 600 C	WTIC 1060 N
KMBC 950 C	WAPI 1140 N	WEAF 660 N	WIOD 1300 N	WNAC 1230 C	WTMJ 620 N
KMOX 1090 C	WBAL 1060 N	WEAN 780 C	WISN 1120 C	WNAX 570 C	WTOC 1260 C
KOA 830 N	WBAP 800 N	WEC 1290 N	WJAR 890 N	WOAI 1190 N	WWJ 920 N
KOIL 1260 C	WBBM 770 C	WEEI 590 N	WJAS 1290 C	WOC 1000 N	WWNC 570 C
KOIN 940 C	WBCM 1410 C	WENR 870 N	WJAX 900 N	WORC 1200 C	WXYZ 1240 C

ENTER YOUR DIAL NUMBERS IN THESE SPACES

510	610	710	810	910	1010	1110	1210	1310	1410
520	620	720	820	920	1020	1120	1220	1320	1420
530	630	730	830	930	1030	1130	1230	1330	1430
540	640	740	840	940	1040	1140	1240	1340	1440
550	650	750	850	950	1050	1150	1250	1350	1450
560	660	760	860	960	1060	1160	1260	1360	1460
570	670	770	870	970	1070	1170	1270	1370	1470
580	680	780	880	980	1080	1180	1280	1380	1480
590	690	790	890	990	1090	1190	1290	1390	1490
600	700	800	900	1000	1100	1200	1300	1400	1500

WHAT'S ON THE AIR TONIGHT?

A WEEKLY CALENDAR

Leading Features of the Network Programs

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

Programs of the National Broadcasting Company begin with WEFW and WJZ; those of the Columbia Broadcasting System with WABC. Other stations are in alphabetical order.

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

Daily (Except Saturday and Sunday)

6:45-8:00 Tower Health Exercises
 WEFW CKGW WCAE WEEI WFI WBEN
 WGY WRC

8:15-8:30 Morning Devotions
 WEFW WAPI WCAE WCKY WCSH WFI
 WFLA WBEN WGY WHAS WIOD WJAR
 WJAX WJDX WLS WOW WPTF WRC
 WRVA WSUN WTAG WWJ

8:30-9:00 Cheerio
 WEFW CKGW KPRC KSTP WAPI WCAE
 WCKY WCSH WDAF WEEI WFI WFLA
 WBEN WGY WHAS WBO WIOD WJAR
 WJAX WJDX WMC WOAI WOW WPTF
 WRC WRVA WSB WSM WSUN WTAG
 WTAM WWJ

9:00-9:15 The Quaker Man
 KPRC KSD KSTP KTHS KVOO WAPI
 WDAF WNBC WFAA WHAS WHO WJDX
 WKY WLS WMC WOAI WOC WOW
 WSB WSM WSBM WTMJ

9:00-9:30 Something For Everyone
 WABC KDYL KFH KFJF KMBC KMOX
 KSCJ WADC WBCM WBRW WDBJ WDDO
 WHP WJAS WLAC WMAQ WMT WPG
 WREC WSPD WWNC WXYZ

9:00-10:00 Morning Melodies
 WEFW WAPI WGY WBEN WHAS WOW
 WRC WRVA WSM WTAM WWJ

11:15-11:30 Radio Household Institute
 WEFW KFJF KPRC KSD KSTP KTHS
 KVOO WAPI WCAE WCSH WNBC
 WBEN WGY WHAS WJAR WKY WLIT
 WMC WOAI WRC WSAI WSB WSM
 WSBM WTAG WTAM WTMJ WWJ

12:00-12:30 Manhattan Tower Orchestra
 WABC KDYL KFH KFJF KFPY KMBC
 KSCJ WADC WAIU WBCM WBRW WCAO
 WDAY WDDO WEAN WHP WIBW WISN
 WJAS WKRC WLAC WLWB WLZ WMAL
 WMT WORC WOWO WPG WREC WSPD
 WTAR WXYZ

12:30-1:00 Columbia Revue
 WABC KFJF KFPY KPRC KMBC KOL
 KSCJ KVI WADC WBRW WCAO WCAU
 WDAY WDBJ WDDO WHEC WHP WIBW
 WISN WJAS WKBN WLWB WLZ WMAL
 WMT WORC WOWO WPG WREC WSPD
 WTAR WWNC WXYZ WGR

12:30-1:30 National Farm and Home Hour
 WJZ KDKA KFAB KFJF KOA KPRC
 KSTP KTHS KVOO WAPI WBAL WBC
 WBZA WDAF WECB WFAA WFLA WHAM
 WHAS WHO WIOD WJAX WJDX WJR
 WKY WLW WMC WOAI WOC WOW
 WPTF WRC WREN WRVA WSB WSM
 WSBM WSUN

1:30-2:00 Harold Stern and Ambassador Orchestra
 WABC KFJF KFPY WADC WAIU WBCM
 WBRW WCAO WDBJ WDDO WEAN WFCM
 WGR WHEC WJAS WKRC WLAC WLZ
 WMAL WORC WOWO WSPD WTAR WWNC
 WXYZ

2:30-3:00 Columbia Educational Features
 WABC KDYL KFH KFJF KFPY KPRC
 KLZ KMBC KSCJ KVI WADC WAIU
 WBCM WBRW WCAO WCAU WCCO WDAY
 WDBJ WDDO WEAN WFBM WHK WHP
 WIBW WISN WJAS WKBN WKRC WLAC
 WLWB WMAL WMT WNAC WOWO WPG
 WREC WSPD WTAR WWNC WXYZ

3:00-3:30 Columbia Salon Orchestra
 WABC KFJF KFPY KLZ KMBC KOL
 KRLL KSCJ KVI WADC WAIU WBCM
 WBRW WCAO WCAU WDAY WDBJ WDDO
 WEAN WFBM WGR WHEC WHP WIBW
 WISN WKBN WKRC WLAC WLZ WMAL
 WMT WNAC WORC WPG WREC WSPD
 WTAR WWNC WXYZ

5:00-5:30 The Lady Next Door
 WEFW KSD WBEN WFAA WHAS WRC
 WSM WTAG

6:05-6:45 Black and Gold Room Orchestra
 WEFW WCAE WCSH WFAA WGY WHO
 WJAR WOC WRC WTAG WWJ

6:45-7:00 Uncle Abe and David
 WEFW KSD WAPI WCAE WCSH WDAF
 WHEC WEEI WENR WFI WFJF WGY
 WHAS WEO WJAR WJDX WMC WOC
 WOW WRC WSAI WSB WSM WSBM
 WTAG WTAM WTMJ WWJ

6:45-7:00 Literary Digest Topics
 WJZ KDKA WBAL WBZ WBZA WFLA
 WHAM WIOD WJAX WLW WPTF WRVA
 WSUN

7:00-7:15 Amos 'n' Andy
 WJZ CKGW KDKA WBZ WBZA WCKY
 WFLA WHAM WIOD WJAX WJR WLW
 WPTF WRC WRVA WSUN

7:30-7:45 Phil Cook, Quaker Man
 WJZ KDKA KECA KFSD KGO KGW
 KHQ KOA KOMO KSL KTAR KWK
 WBZ WBZA WECB WHAM WRC WREN

11:15-11:30 Columbia's Radio Column
 WABC KFH KFJF KFPY KLZ KMBC
 KOL KSCJ WBCM WBRW WCAO WCAU
 WCCO WDAY WDBJ WDDO WEAN WFBM
 WIBW WISN WLWB WLZ WMAL WMT
 WNAC WNAX WORC WPG WREC WTAR
 WWNC WXYZ

11:00-11:15 Amos 'n' Andy
 KFAB KOA KPRC KSTP KTHS KWK
 WBAP WDAF WECB WHAS WJDX WMAQ
 WMC WOAI WREN WSB WSM WSBM
 WTMJ

11:30-11:45 Amos 'n' Andy
 KECA KFSD KGO KGW KHQ KOMO
 KSL

Sunday

1:30-1:45 Echoes of the Orient
 WJZ CKGW KFAB WBAL WLW WRC
 WREN

1:30-2:00 Neapolitan Nights
 WEFW KGO KSD KSL WCAE WDAF
 WHAS WHO WIBO WOC WCAE WDAF
 WWJ

1:30-2:00 Conclave of Nations

WABC KFPY KLZ KMBC KMOX KSCJ
 KVI WAU WBCM WBRC WCAO WCAU
 WDAY WDBJ WDOD WGR WHEC WHP
 WBW WISN WKBN WLBZ WMAL WMT
 WORC WPG WREC WSPD WTAR WWNC
 WXYZ

2:00-3:00 Roxy Symphony Concert

WJZ CKGW KDKA KFAB KSTP KWK
 KYW WBAL WBZ WBOZ WABC WFAA
 WFLA WHAM WHAS W1AD WJAX WLW
 WPTF WRC WREN WRVA WSB WSUN

2:00-3:00 Cathedral Hour

WABC KDYL KFH KFPY KLZ KMBC
 KMOX KRLD KSCJ KVI WADC WBCM
 WBRC WCAO WCAU WCCO WDBJ WDOD
 WEAN WFBM WHEC WHP WIBW WISN
 WKBN WKRC WLAC WLWB WMT WNAC
 WORC WPG WSPD WTAR WWNC WXYZ

2:30-3:00 NBC Artists' Service Program

WEAF KSD KSL WDAF WGY WLS
 WOW WTAG WWJ

3:00-4:00 National Youth Conference

WJZ KDKA KFAB KFSD EGO KGW
 KOA KSL KTHS KVOO RWK WBAL
 WBZ WBZA WFAA WFLA WIOD WJAX
 WJDX WJR WLS WLW WOAI WPTF
 WREN WRVA WSB WSUN

3:00-5:00 New York Philharmonic Orchestra

WABC KDYL KFH KFJF KFPY KFRC
 KHJ KLZ KMBC KMOX KRLD KSCJ
 KVI WADC WAU WBCM WBRC WCAO
 WCAU WCCO WDAY WDBJ WDOD WEAN
 WFBM WHEC WHP WIBW WISN WJAS
 WKBN WKRC WLAC WLWB WMAQ
 WMT WNAC WORC WOW WREC WSPD
 WTAR WWNC WXYZ WGR

4:00-4:15 Florsheim's Sunday Feature

WJZ KDKA KFAB KWK KYW WBAL
 WBZ WBZA WHAM WJR WLW WREN

4:00-5:00 Dr. S. Parkes Cadman

WEAF KGO KGW KHQ KOA KOMO
 KPO KPRC KVOO WCAE WCSH WDAF
 WEBC WEEI WFAA WFG WFLA WBN
 WHAS WHO WBO WIOD WJAR WJAX
 WJDX WKY WMC WOAI WOC WOW
 WPTF WRC WRVA WSAI WSB WSUN
 WTAG WWJ

5:00-5:30 Rev. Donald Grey Barnhouse

WABC KMOX KOIL KRLD WADC WCAU
 WFBL WJAS WKBW WKRC WMAL WMAQ
 WNAC WOWO WXYZ

5:00-6:00 Davey Hour

WEAF CKCW KSD WCSH WGY WHO
 WJAR WOC WOW WRC WSAI WTAG

5:00-6:00 National Vespers

WJZ KFAB KGO KGW KHQ KOA
 KOMO KPRC KSTP KJAR KVOO KWK
 WBAL WBZ WBZA WABC WFLA WHAM
 WIOD WJAX WJDX WLW WMC WOAI
 WPTF WRC WREN WSB WSUN

5:30-6:00 The French Trio

KDYL KFH KFPY KLZ KMBC KSCJ
 KVI WADC WBRC WCCO WDAY WDBJ
 WDOD WEAN WFBM WHP WIBW WJAS
 WKBN WLWB WLWB WMAL WMT WNAC
 WORC WOWO WPG WREC WSPD WTAR
 WWNC WXYZ WGR

6:00-7:00 Catholic Hour

WEAF KECA KGO KGW KHQ KOA
 KOMO KPO KPRC KSD KSTP KJAR
 KVOO KYW WBAF WCAE WCSH WDAF
 WEBC WEEI WFG WFLA WGY WKY
 WHAS WHO WIOD WJAR WJAX WJDX
 WLIT WMC WOAI WOC WRC WRVA
 WSAI WSB WSM WSMB WSUN WTAG
 WTMJ WWJ

7:00-7:35 Iodent Big Brother Club

WEAF KSD WCAE WCSH WEBC WEEI
 WFJC WBN WHO WJAR WLIT WLS
 WOC WOW WRC WSAI WTAG WTMJ
 WWJ

7:30-8:00 Williams Oilomatics

WJZ KDKA KOA KSL KWK WBZ
 WBZA WGN WHAM WJR WLW WREN

7:35-8:30 Major Bowes' Family

WEAF KSD KSTP WCAE WCSH WDAF
 WFJC WFLA WGY WHAS WIOD WJAR
 WJDX WKY WLS WMC WOAI WRC
 WSAI WSB WSMB WSUN WTAG WWJ

8:00-8:15 The World's Business

WABC KDYL KFPY KFRC KHJ KLZ
 KMBC KOL KRLD KSCJ WADC WAU
 WCAO WDAY WDBJ WDOD WEAN WFBM
 WGR WHEC WHP WIBW WISN WJAS
 WKBN WLAC WLWB WLWB WMAL WMT
 WNAC WNAX WORC WREC WTAR WWNC
 WXYZ

8:00-8:15 Enna Jettick Melodies

WJZ KDKA KFAB KFI KFSD KGW
 KHQ KOA KOMO KPO KPRC KSL
 KSTP KJAR KTHS KVOO KWK KYW
 WAPI WBZ WBZA WCKY WEBC WFAA
 WFLA WHAM WHAS WIOD WJAX WJDX
 WJR WKY WMC WOAI WPTF WREN
 WRVA WSB WSM WSMB WSUN WTMJ

8:15-9:15 Collier's Radio Hour

WJZ KDKA KFI KGW KHQ KOA
 KOMO KPO KSL KWK KYW WBZ
 WBZA WHAM WJR WLW WREN

8:30-9:00 Chase & Sanborn Choral Orchestra

WEAF KPRC KSD KSTP KTHS KVOO
 WCAE WCSH WDAF WEBC WFJC WFLA
 WGY WHAS WHO WIBO WIOD WJAR
 WJDX WKY WLIT WMC WOAI WOC
 WOW WRC WSAI WSB WSB WSMB
 WSUN WTAM WTIC WTMJ WWJ
 WBN

9:00-9:15 Our Government, David Lawrence

WEAF KSD WCAE WCSH WEBC WEEI
 WFAA WFJC WFLA WGY WHAS WHO
 WIOD WJAR WJDX WKY WLIT WMC
 WOAI WOC WOW WPTF WRC WSAI
 WSB WSM WSMB WSUN WTAG WTIC
 WWJ

9:00-9:30 Majestic Theatre of the Air

WABC CFRB CKAC KDYL KFH KFJF
 KFPY KFRC KHJ KLRA KLZ KMBC
 KOIL KOIN KOL KRLD KTSA KVI
 WADC WBBM WBRC WBT WCAO WCAU
 WCCO WDBJ WDEL WDOD WDSU WEAN
 WFBL WFBM WHK WIBW WISN WJAS
 WKBW WKRC WLAC WLWB WLWB WMAL
 WNAC WOWO WPG WREC WSAZ WSPD
 WTAR WWNC WXYZ

9:15-10:15 Atwater Kent Hour

WEAF CKGW KFI KGW KHQ KOA
 KOMO KPO KSD KSL KSTP WAPI
 WCAE WDAF WEEI WFAA WFI WGN
 WBN WGY WHAS WHO WKY WMC
 WOAI WOC WOW WRC WSAI WSB
 WSM WSMB WTAM WWJ

9:30-10:00 Tone Pictures

WABC KFJF KFPY KLRA KLZ KMBC
 KMOX KOIL KOL KRLD KSCJ WADC
 WBCM WBRC WCAO WCCO WDAY WDBJ
 WDOD WEAN WFBL WHEC WIBW WISN
 WJAS WKBW WKRC WLAC WLWB WMAL
 WMT WNAC WNAX WORC WREC WSPD
 WTAR WWNC WXYZ

10:00-10:30 Toscha Seidel and Orchestra

WABC KFJF KFPY KLRA KLZ KMBC
 KMOX KOIL KSCJ WADC WBCM WBRC
 WCAO WCAU WDAY WDBJ WDOD WEAN
 WFBM WHEC WIBW WJAS WKBW WKRC
 WLAC WLWB WMAL WMT WNAC WNAX
 WORC WREC WSPD WTAR WXYZ

10:15-10:45 Studebaker Champions

WEAF KFI KGO KGW KHQ KOA
 KOMO KSTP WCAE WCSH WDAF WEBC
 WEEI WFI WGN WBN WGY WJAR
 WOW WRC WTAG WTAM WTIC WTMJ
 WWJ

10:30-11:00 Around the Samovar

WABC WADC WCAO WCAU WDBJ WEAN
 WHEC WHK WJAS WKBN WLWB WLWB

WMAL WNAC WORC WPG WSPD WTAR
 WXYZ
 10:30-11:00 **Lew White, Organist**
 WJZ CKGW KDKA KWK WBZ WBZA
 WHAM WJAX WJDX WJR WREN WRVA
 10:45-11:15 **Sunday at Seth Parker's**
 WEAF CKGW KFSD KGO KGW KHQ
 KOA KOMO KPRC KSTP KTRAR KYW
 WCAE WCSH WDAF WEBC WEEI WFI
 WFJC WBNB WGY WHAS WHO WIOD
 WJAX WJDX WKY WMC WOC WOW
 WRC WSB WSM WTAM WTMJ WWJ
 11:00-11:30 **Kaffee Hag Slumber Music**
 WJZ KDKA KWK WBZ WBZA WENR
 WHAM WJR WLW WREN
 11:00-12:00 **Back Home Hour**
 WABC KFH KFJF KFPY KHJ KMBC
 KMOX KRLD WCCO WDAY WDBJ WDOO
 WFBM WHEC WIBW WISN WKBN WKRC
 WMAL WMT WNAX WPG WREC WTAR
 WXYZ
 11:03-12:00 **Russian Cathedral Choir**
 WEAF CKGW KOA KSTP WBAP WNBC
 WFJC WBNB WGY WHAS WIOD WOW
 WRC WSB WTAM WWJ

Monday

3:00-3:30 **Phil Napoleon and His Band**
 WJZ KDKA KPRC KWK WBAL WBZ
 WBZA WHAM WREN WSB WSM
 3:30-4:00 **Sixteen Singers**
 WEAF CKGW KSD KSTP WBNB WFJC
 WHO WOC WRC WTAM
 4:00-4:30 **Hotel Cosmopolitan Orchestra**
 WJZ CKGW KGO KOA KOMO KSTP
 KYW WAPI WBAL WFAA WHAM WJAX
 WJR WLW WREN WSB WSM WTMJ
 4:00-4:30 **Ballad Hour**
 WABC KDYL KFJF KFPY KPRC KHJ
 KLZ KMBC KMOX KOL KRLD KSCJ
 KVI WADC WAUW WBCM WBRG WCAO
 WCAU WCCO WDAY WDBJ WDOO WEAU
 WGR WHEC WIBW WISN WKRC WLAC
 WLBZ WMAL WMT WNAC WORC WPG
 WREC WSPD WTAR WWNC WXYZ
 4:30-5:00 **Wardman Park Hotel Orchestra**
 WABC KDYL KFJF KFPY KPRC KLZ
 KMBC KMOX KOL KRLD KSCJ KVI
 WADC WAUW WBCM WBRG WCAO WCCO
 WDAY WDBJ WDOO WEAN WFAA WGR
 WHP WIBW WISN WLAC WLBZ WMAL
 WMT WNAC WORC WPG WREC WSPD
 WTAR WWNC WXYZ
 6:00-6:30 **Mormon Tabernacle Choir**
 WJZ CKGW KDKA KFAB KFSD KGO
 KGW KOA KOMO KPO KSL KSTP
 KTRAR KWK WAPI WBAL WHAS WLW
 WRC WSM
 6:00-6:30 **WSPD Commodores**
 WABC KFJF KFPY KPRC KLRA KLZ
 KOL KRLD WAUW WBBM WBCM WBRG
 WCCO WDAY WDBJ WDOO WFAA WFLB
 WHP WKBW WLBW WMAL WMT WREC
 WSPD WTAR WWNC
 7:00-7:15 **Current Events**
 WABC KFH KFJF KFPY KPRC KLZ
 KOL KSCJ KVI WBCM WCAU WDAY
 WDBJ WDOO WFBM WHEC WHP WIBW
 WISN WJAS WLBW WLBZ WMAL WMT
 WORC WREC WSPD WTAR WWNC WXYZ
 7:30-8:00 **Colonial Beaconsights**
 WEAF WBNB WCSH WEEI WGY WJAR
 WTAG
 7:45-8:00 **Anheuser-Busch Program**
 KFJF KLRA KMBC KMOX KOIL KRLD
 KTRH WAUW WDOO WDSU WFBM WHK
 WMAQ WMT WREC WSPD WXYZ
 7:45-8:30 **Roxy's Gang Program**
 WJZ CKGW KFAB KGO KGW KWK
 WBZ WBZA WHAM WIBO WSB WSM
 8:00-8:30 **Half Hour in Nation's Capital**
 WEAF KECA KFSD KGO KGW KOA
 KOMO KPRC KSD KVOO KYW WCAE
 WDAF WFJC WFLA WHAS WHO WIOD
 WJAR WJAX WJDX WRC WSAI WSMB WSN
 WTAG WTIC WWJ
 8:15-8:30 **Mardi Gras**
 WABC KDYL KFPY KPRC KMBC KRLD
 KSCJ WADC WBCM WCCO WDAY WDBJ
 WDOO WEAN WGR WIBW WISN WJAS
 WKRC WLAC WLBW WLBZ WMAL WMAQ
 WNAC WNAX WORC WTAR WWNC WXYZ
 8:30-9:00 **Ingram Shavers**
 WJZ CKGW KDKA KFAB KOA KPRC
 KTHS KVOO KWK KYW WBZ WBZA
 WEBC WFAA WFLA WHAS WIOD WJAX
 WJR WKY WLW WMC WOI WENR
 WRVA WSB WSM WSMB WSUN WTMJ
 8:30-9:00 **Arabesque**
 WABC KFJF KFPY KLRA KMOX KOIL
 KRLD WBCM WCCO WDAY WDBJ WDOO
 WEAN WFBL WGR WJAS WKRC WLBW
 WMAL WMAQ WMT WNAC WNAX WORC
 WREC WWNC WXYZ
 8:30-9:30 **A & P Gypsies**
 WEAF KSD WCAE WCSH WDAF WEEI
 WGN WBNB WGY WHO WJAR WLIT
 WOC WOW WRC WSAI WTAG WTAM
 WTIC WWJ
 9:00-9:30 **Maytag Orchestra**
 WJZ KDKA KECA KGO KGW KHQ
 KOA KOMO KPRC KSL KSTP KTHS
 KVOO KWK KYW WBZ WBZA WCKY
 WEBC WHAM WJDX WJR WKY WMC
 WOI WREN WSB WSM WSMB
 9:00-9:30 **Minneapolis-Honeywell Symphony Hour**
 WABC KMBC KMOX KOIL WADC WBBM
 WBT WCAO WCAU WCCO WEAN WFLB
 WHK WISN WJAS WKBW WKRC WLBW
 WMAL WNAC WOWO WPG WSPD WXYZ
 9:30-10:00 **Cheesbrough Real Folks**
 WJZ CKGW KDKA KWK KYW WBZ
 WBZA WHAM WJR WLW WREN
 9:30-10:00 **Bourjois—Evening in Paris**
 WABC KDYL KFJF KFPY KPRC KHJ
 KLZ KMBC KMOX KOIL KOIN KOL
 KRLD WADC WBBM WBT WCAO WCAU
 WCCO WDSU WEAN WFLB WGST WHK
 WJAS WKBW WKRC WLBW WMAL WNAC
 WOWO WPG WSPD WXYZ
 9:30-10:00 **General Motors Family Party**
 WEAF KECA KFI KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 WCAE WCSH WDAF WEEI WFAA WGN
 WBNB WGY WHAS WHO WJAR WJAX
 WKY WLIT WMC WOI WOC WOW
 WRC WSAI WSB WSM WTAG WTAM
 WTIC WTMJ WWJ
 10:00-10:30 **Robert Burns Panstela Program**
 WABC KDYL KFJF KFPY KPRC KHJ
 KLZ KMBC KMOX KOIL KOIN KOL
 KRLD KTRH KTSA KVI WADC WBT
 WCAO WCAU WCCO WEAN WFLB WFBM
 WHK WJAS WKBW WKRC WLBW WMAL
 WMAQ WNAC WOWO WPG WSPD WXYZ
 10:00-10:30 **Stromberg-Carlson Program**
 WJZ KDKA KFI KFSD KGO KGW
 KHQ KOA KOMO KPRC KTRAR KWK
 KYW WAPI WBZ WBOA WCKY WEBC
 WFLA WHAM WHAS WIOD WJAX WJDX
 WJR WKY WMC WOI WREN WRVA
 WSB WSM WSMB WSUN
 10:00-10:30 **Adventures of Sherlock Holmes**
 WEAF WCAE WCSH WEEI WGN WJAR
 WLIT WRC WSAI WTAG WTAM WWJ
 10:30-11:00 **Empire Builders**
 WJZ KDKA KECA KFSD KGO KGW
 KHQ KOA KOMO KPRC KSL KSTP
 KTRAR KWK KYW WBAP WBZ WBZA
 WEBC WHAM WJR WKY WLW WOI
 WREN WTMJ
 10:30-11:00 **American Maize Program**
 KDYL KFPY KPRC KHJ KLZ KNX
 KOIL KOL KSCJ WADC WBBM WCAH
 WCAU WDAY WHK WHP WISN WJAS
 WKBN WKRC WLBW WMT WNAX WSPD

10:30-11:00 **Symphonic Rhythm Makers**
 WFAF WCAE WCSH WDAF WEEI WJAR
 WJDX WMC WOW WRC WSB WTAG
 WTAM WWJ WBEN

11:00-11:15 **Will Osborne and His Orchestra**
 WABC KDYL KFH KFJF KFPY KLZ
 KMBC KOL KSCJ WBCM WBRC WCAO
 WCCO WDAY WDBJ WDOD WFBM WIBW
 WISN WLBW WLBZ WMAL WMT WNAX
 WORC WPG WREC WTAR WWNC WXYZ

11:00-11:30 **Hal Kemp's Orchestra**
 WFAF KSD KSTP WCAE WDAF WEBC
 WENR WGY WJDX WMC WOW WRC
 WSAI WSB WSMB WTMJ WWJ

11:30-12:00 **Bernie Cummins and His Orchestra**
 WFAF KSD KSTP WDAF WHO WOC
 WOW WRC WWJ

11:30-12:00 **Sammy Watkins and His Orchestra**
 WABC KDYL KFH KFJF KFPY KLZ
 KMBC KOL KSCJ WBCM WBRC WCAO
 WCCO WDAY WDBJ WDOD WFBM WHK
 WIBW WISN WKRC WLBZ WMAL WMT
 WNAX WORC WPG WREC WTAR WWNC
 WXYZ

12:00-1:00 **Phil Spitalny and His Orchestra**
 WFAF KSD KSTP KYW WDAF WFJC
 WHO WKY WOC WRC WSM WTAM
 WWJ

Tuesday

10:15-10:30 **Through the Looking Glass**
 WJZ CKGW KDKA KFAB KFKX KPRC
 KVOO KWK WBZ WBZA WHAM WJR
 WKY WLW WOAI WREN

3:30-4:00 **Golden Gems**
 WFAF KSD KSTP WEEI WFJC WFLA
 WJAX WOW WSUN WTAG WTAM WTIC

4:00-4:30 **Italian Idyll**
 WABC KDYL KFJF KFPY KFRC KLZ
 KMBC KMOX KRLL KSCJ KVI WADC
 WAU WBCM WBRC WCAO WCAU WCCO
 WDBJ WDOD WEAN WHK WIBW WISN
 WKRC WLAC WLBZ WMAL WMT WNAC
 WORC WOWO WPG WREC WTAR WWNC
 WXYZ WGR

4:00-5:00 **Pacific Vagabonds**
 WJZ KFAB KFSD KGO KOA KSTP
 WAPI WHAM WJAX WJR WLW WSM

5:00-5:15 **Rhythm Kings**
 WABC KDYL KFH KFJF KLZ KMBC
 KMOX KRLL KSCJ WAU WBCM WBRC
 WCAO WCCO WDOD WFBM WHP WISN
 WKBN WLBZ WMAL WMT WREC WTAR
 WWNC WXYZ WGR

7:15-7:45 **Musical Aviators Orchestra**
 KFH KFJF KFPY KFRC KLRA KLZ
 KOIL KRLL KSCJ WAU WBRC WCCO
 WDAY WDBJ WDOD WFBL WGR WHEC
 WHP WIBW WISN WJAS WKRC WLAC
 WLBW WMT WORC WREC WTAR WWNC
 WXYZ

7:30-8:00 **Soconyland Sketches**
 WFAF WBN WCSH WEEI WGY WJAR
 WTAG

8:00-8:15 **Troika Bells**
 WFAF WDAF WEEI WFI WRC WSAI
 WWJ

8:00-8:30 **Pure Oil Orchestra**
 WJZ KDKA KFAB KSTP KWK KYW
 WHAL WBCB WHAM WHAS WJAX WJDX
 WLW WMC WPTF WREN WRVA WSB
 WSM WTMJ

8:00-8:30 **Blackstone Program**
 WABC KMBC KMOX KOIL WADC WAU
 WBT WCAH WCAO WCAU WCCO WEAN
 WFBL WHEC WHK WHP WJAS WKBW
 WLBW WLBZ WMAL WMAQ WMT WNAC
 WORC WPG WSPD WXYZ

8:30-9:00 **Florsheim Frolic**
 WFAF KOA KFRC KSD KSL KSTP
 KTHS KVOO WBAP WCAE WCHS WDAF
 WEBC WFI WFLA WGN WBN WGY
 WHAS WHO WIOD WJAR WJAX WJDX
 WKY WMC WOAI WOC WOW WRC

WRVA WSAI WSB WSM WSMB WSUN
 WTAG WWJ

8:45-9:00 **Premier Salad Dressers**
 WABC KDYL KFPY KFRC KHJ KLZ
 KMBC KMOX KOIL KOIN KOL KTRH
 KVI WADC WBT WCAO WCAU WCCO
 WDAE WDBO WDSU WEAN WFBL WGST
 WHK WJAS WKBW WKRC WLAC WLBW
 WMAL WMAQ WNAC WOWO WPG WQAM
 WSPD WTOC WXYZ

9:00-9:30 **Tek Music**
 WJZ CKGW KDKA KWK KYW WBAL
 WBZ WBZA WCKY WHAM WREN

9:00-9:30 **Henry George**
 WABC KFH KMBC KMOX KOIL WADC
 WBBM WCAO WCAU WCCO WEAN WFBL
 WFBM WHK WHP WISN WJAS WKBW
 WKRC WLBW WMAL WNAC WOWO WSPD
 WXYZ WBEN

9:00-9:30 **Eveready Program**
 WFAF KGO KGW KHQ KOA KOMO
 KSD KSL WCAE WCSH WEBC WEEI
 WFI WFJC WGN WGY WHAS WHO
 WJAR WJDX WMC WOC WOW WRC
 WSAI WSB WSM WSMB WTAM WWJ

9:30-10:00 **Happy Wonder Bakers**
 WFAF KECA KGO KGW KHQ KOA
 KOMO KPRC KSD KSL KSTP KVOO
 WBAP WCAE WCSH WDAF WEBC WEEI
 WFI WFJC WBEN WGY WHAS WHO
 WIBO WJAR WJDX WKY WMC WOC
 WOW WRC WRVA WSAI WSB WSMB
 WTAG WTMJ WWJ

9:30-10:00 **Philco Symphony Concert**
 WABC CFRB KFH KFJF KMBC KMOX
 KOIL KRLL KTRH KTSA WADC WBRC
 WBT WCAO WCAU WCCO WDOD WDSU
 WEAN WFBL WFBM WGST WHEC WHK
 WISN WJAS WKBW WKRC WLAC WLBW
 WMAL WMAQ WMT WNAC WOWO WPG
 WREC WSPD WTAR WXYZ

10:00-10:15 **Enna Jettick Songbird**
 WFAF KSD WCAE WCSH WDAF WEEI
 WFI WFJC WBEN WGY WHO WIBO
 WJAR WOC WOW WRC WSAI WTAG
 WTAM WWJ

10:00-10:15 **Graybar's, Mr. and Mrs.**
 WABC KDYL KFH KFJF KFPY KFRC
 KHJ KLRA KLZ KMBC KMOX KOIL
 KOIN KOL KRLL KTRH KTSA KVI
 WADC WAU WBBM WBRC WBT WCAO
 WCAU WCCO WDBJ WDSU WEAN WFBL
 WFBM WGST WHEC WHK WISN WJAS
 WKBN WKBW WKRC WLAC WLBW WMAL
 WNAC WOWO WPG WREC WSPD WTAR
 WWNC WXYZ

10:00-10:30 **Westinghouse Salute**
 WJZ KDKA KECA KFSD KGO KGW
 KHQ KOMO KPRC KSL KSTP KTAR
 KWK KYW WAPI WBAL WBT WBZA
 WKY WEBC WFLA WHAM WHAS WIOD
 WJAX WJR WKY WMC WOAI WREN
 WRVA WSB WSM WSMB WSUN WTMJ
 WXYZ

10:15-11:00 **Paramount Public Radio Playhouse**
 WABC CFRB KDYL KFH KFJF KFPY
 KFRC KHJ KLRA KLZ KMX KMOX
 KOIL KOIN KOL KSCJ KTRH KTSA
 WADC WBBM WBCM WNRG WBT WCAO
 WCAU WCCO WDAE WDAY WDBJ WDBO
 WDOD WDSU WEAN WFBL WFBM WGST
 WHEC WHK WHP WIBW WISN WJAS
 WKBN WKBW WKRC WLAC WLBW WLBZ
 WMAL WMT WNAC WNAX WOWO WPG
 WQAM WREC WRR WSPD WTAR WTOC
 WWNC WXYZ

10:15-11:00 **Lucky Strike Orchestra**
 WFAF KECA KFSD KGO KGW KHQ
 KOA KOMO KSD KTAR WCAE WCHS
 WDAF WEBC WEEI WFI WFJC WFLA
 WBN WHAS WHO WIBO WIOD WJAR
 WJAX WJDX WKY WMC WOAI WOC
 WKRC WRVA WSAI WSB WSM WSMB
 WSUN WTAG WTMJ WWJ

10:30-11:00 Cuckoo
WJZ KDKA WBZ WBZA WCKY WJR
WREN

11:00-11:30 Will Osborne and His Orchestra
WABC KFH KFJF KFPY KLRA KMBC
KOIL WBCM WCAO WDAY WDBJ WDOD
WFBL WGR WHEC WHP WIBW WISN
WLBW WMT WNAX WORC WREC WSPD
WTAR WWNC WXYZ

11:00-11:30 Duke Ellington and His Orchestra
WEAF KOA KSD KSTP WCAE WDAF
WFI WFJC WGY WHAS WDMC WMC
WOW WSAI WSB WSM WTMJ WWJ

11:30-12:00 Vincent Lopez and His Orchestra
WEAF CKGW KOA KSTP WFI WHO
WJDX WOC WOW WRC

Wednesday

11:30-12:00 The Recitalists
WJZ KFAB KOA KWK WBAL WHAM
WSM

12:00-12:15 Elgin Program
WEAF CKGW KOA KSD KTHS KVOO
KYW WAPI WCAE WCHS WDAF WECB
WEEI WFJC WFLA WHAS WHO WIOD
WJAR WJAX WJDX WKY WLW WMC
WOAI WOC WPTF WRC WRVA WSAI
WSB WSMB WSUN WTAG WWJ

3:00-3:30 Matinee Gems
WJZ KDKA KWK WBAL WBZ WBZA
WHAM WJAX WJDX WREN WRVA

3:30-4:00 Syncopated Silhouettes
WABC KDYL KFJF KFPY KLZ KMBC
KSCJ KVI WADC WAIU WBCM WBRC
WCAO WCAU WCCO WDAY WDBJ WDOD
WGR WHEC WHK WHP WIBW WISN
WKBW WKRC WLAC WLBB WMAL WMT
WORC WPG WREC WTAR WWNC WXYZ

3:30-4:00 Evening Stars
WEAF CKGW KGO KOA KPRC KSD
KSL KSTP KTHS KYW WAPI WBAP
WBEN WCAE WECB WEEI WFI WFJC
WFLA WGY WHAS WHO WIOD WJAX
WJDX WKY WMC WOAI WOC WPTF
WRC WRVA WSAI WSB WSM WSMB
WSUN WTAG WTAM WWJ

5:00-5:30 Asbury Park Casino Orchestra
WABC KFH KFJF KLRA KLZ KRLD
KSCJ WAIU WBCM WBRC WCAO WCCO
WDAY WDOD WFAN WFBL WGR WHP
WISN WLRW WMAL WMT WREC WSPD
WTAR WWNC WXYZ

6:15-6:25 Bernie Cummins and His Orchestra
WJZ KFAB KGO KGW KOA KSTP
KTAR WSM

7:00-7:15 Crockett Mountaineers
WABC KFJF KFPY KPRC KHJ KLZ
KOL KSCJ KVI WAIU WBCM WBRC
WCAU WDAY WDBJ WDOD WFBM WHEC
WIBW WISN WJAS WKRC WLBW WLBZ
WMAL WMT WNAX WORC WREC WSPD
WTAR WWNC

7:15-7:30 Rhythm Ramblers
KFJF KFPY KPRC KLRA KLZ KSCJ
WAIU WBCM WBRC WDBJ WDOD WFBM
WIBW WISN WJAS WKRB WLBW WMAL
WMT WNAC WORC WTAR WWNC WXYZ

7:30-7:45 Evangeline Adams, Astrologer
WABC CFRB KFJF KLRA KMBC KMOX
KOIL KTRH WADC WAIU WBRC WBT
WCAO WCAU WCCO WDBJ WDOD WDSU
WEAN WFBL WFBM WGST WHEC WHK
WISN WKBW WKRC WLAC WLBW WMAL
WMAQ WNAC WREC WRR WSPD WTAR
WWNC WXYZ

7:45-8:00 Back of the News in Washington
WEAF KECA KFSD KGO KGW KOA
KOMO KSD KSL WAPI WCAE WDAF
WFJC WGY WHO WIBO WKY WOC
WOW WRC WRVA WSAI WSM WTAG

7:45-8:00 Eskimo Pie Program
WABC CKAC KMBC KMOX KRLD WBRC
WBT WCAO WCAU WCCO WGST WHEC

WHK WJAS WKBW WKRC WLAP WMAL
WMAQ WNAC

7:45-8:00 Fifth Avenue Knights
WJZ KDKA KYW WBZ WBZA WHAM

8:00-8:30 East of Cairo
WEAF KGO KGW WCAE WDAF WEEI
WIOD WJAR WJDX WOW WRC WTAG
WWJ

8:00-8:30 Yeast Foamers
WJZ KDKA KFAB KSTP KWK KYW
WBZ WBZA WECB WHAM WJR WREN

8:15-8:30 Romany Patteran
WABC KFH KFJF KFPY KFRC KLRA
KMBC KMOX KRLD KSCJ WADC WBCM
WBRC WCCO WDAY WDBJ WDOD WEAN
WFBL WGR WIBW WISN WJAS WLAC
WMAL WMT WNAX WORC WREC WSPD
WTAR WWNC WXYZ

8:30-9:00 Burbig's Syncopated History
WABC KFH KFJF KFPY KFRC KLRA
KRLD KSCJ WADC WBCM WDAY WDBJ
WDOD WEAN WFBL WFBM WGR WHEC
WIBW WISN WJAS WLAC WMAL WMAQ
WMT WNAC WNAX WORC WPG WREC
WSPD WTAR WWNC WXYZ

8:30-9:00 Luden Balalaika Orchestra
WJZ CKGW KDKA KWK KYW WBZ
WBZA WHAM WREN

8:30-9:00 Mobiloil Concert
WEAF KOA KPRC KSD KSL KVOO
WCAE WCHS WDAF WECB WEEI WFAA
WFJC WGN WBN WGY WHO WJAR
WKY WLIT WOAI WOC WOW WRC
WSAI WTAG WTAM WTIC WWJ

9:00-9:30 Halsey, Stuart Program
WEAF CKGW KFI KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KVOO KYW WCAE WCHS WEEI WLIT
WGY WHAS WHO WJAR WJAX WRVA
WMC WOAI WOC WOW WRC WTMJ
WSAI WSB WSM WSMB WTAG

9:30-10:00 Gold Medal Fast Freight
WABC KDYL KFBK KFH KFJF KFPY
KPRC KHJ KLZ KMBC KMOX KOIL
KOL KRLD KRLD KSCJ WADC WBBM
WBT WCAO WCAU WCCO WDBJ WEAN
WFBL WFBM WHK WISN WJAS WKBW
WKRC WLAC WLAP WLBW WMAL WNAC
WOWO WPG WREC WSPD WTAR WXYZ

9:30-10:00 Camel Pleasure Hour
WJZ KDKA KWK KYW WBZ WBZA
WHAM WJR WLW WREN WRVA WSJS

9:30-10:00 Palmolive Hour
WEAF KECA KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP KVOO
WAPI WCAE WCHS WDAF WEEI WFAA
WGN WBN WGY WHAS WHO WJAR
WJAX WLIT WMC WOAI WOC WOW
WRC WSAI WSB WSM WSMB WTAG
WTIC WTMJ WWJ

10:00-10:30 La Palina Smoker
WABC KMBC KMOX KOIL WADC WBBM
WBT WCAO WCAU WCCO WEAN WFBL
WFK WISN WJAS WKBW WKRC WLBW
WMAL WNAC WOWO WPG WREC WSPD
WXYZ

10:30-11:00 Detroit Symphony Orchestra
WABC KFH KFJF KFPY KLRA KMBC
KOIL KSCJ WADC WBCM WBRC WCAO
WCAU WCCO WDAY WDBJ WDOD WEAN
WFBL WFBM WGR WHEC WIBW WISN
WJAS WKBW WKRC WLAC WMAL WMAQ
WMT WNAC WNAX WORC WPG WREC
WSPD WTAR WWNC WXYZ

10:30-11:00 Coca Cola Program
WEAF CKGW KECA KFSD KGO KGW
KHQ KOA KOMO KPRC KSD KSL
KSTP KTHS KVOO KYW WAPI WCAE
WCHS WDAF WECB WEEI WBN WGY
WHAS WHO WIOD WJAR WJAX WJDX
WKY WLIT WMC WOI WOC WOW
WRC WRVA WSAI WSB WSMB WTAG
WTAM WTIC WWJ

11:00-11:30 Vincent Lopez and His Orchestra
 WFAF KOA KSD KSTP WCAE WDAF
 WFJC WFLA WGY WHAS WHO WIOD
 WJDX WLIT WMC WOC WQW WRIC
 WSAI WSB WSM WSMB WSUN WTAM
 WWJ

11:30-12:00 California Melodies
 WABC KFH KFPY KHJ KMBC KSCJ
 WBCM WBRW WCAO WCCO WDBJ WDOJ
 WEAN WFBM WHEC WHK WJW WJUN
 WKBN WKRC WLWB WMAL WMT WNAC
 WNAX WORC WREC WTAR WWNC WXYZ

WKBW WKRC WLWB WMAL WNAC WOWO
 WSPD WXYZ

9:00-9:30 Van Heusen Program
 WABC KMBC KMOX KOIL KRLD WADC
 WBBM WBT WCAO WCAU WCCO WDSU
 WEAN WFBL WGST WHEC WHK WHP
 WJAS WKBW WKRC WLWB WMAL WNAC
 WOWO WPG WSPD WXYZ

9:00-9:30 Arco Birthday Party
 WFAF CKGW KECA KGO KGW KHQ
 KOA KOMO KSD KSL KSTP KYW
 WAPI WBAW WCAE WCHS WDAF WBBB
 WEEL WFI WFJC WBN WGY WHO
 WIOD WJAR WJAX WJDX WKY WMC
 WOAI WOC WQW WPTF WRC WRVA
 WSAI WSB WSM WSMB WTAG WTMJ

9:00-9:30 Knox-Dunlap Orchestra
 WJZ KDKA KWK WBAL WBZ
 WKY WHAM WIBO WIEN

9:30-10:00 Jack Frost's Melody Moments
 WFAF WCAE WCHS WFI WBN WGY
 WIBO WJAR WRC WSAI WTAG WTMJ

9:30-10:00 Maxwell House Ensemble
 WJZ KDKA KECA KGO KGW KHQ
 KOA KOMO KPRC KSL KSTP KWK
 KYW WAPI WBAL WBAW WBZ WZBA
 WBBB WHAM WHAS WIOD WJAX WJR
 WKY WLW WMC WOAI WPTF WREN
 WRVA WSB WSM WSMB WTMJ

9:30-10:00 Detective Story Magazine
 WABC KMBC KMOX KOIL WADC WBBM
 WCAO WCAU WEAN WFBL WHK WJAS
 WKBW WKRC WLWB WMAL WNAC WOWO
 WSPD WXYZ

10:00-10:30 Lutheran Laymen League Program
 WABC KDYL KFPY KPRC KJH KLZ
 KMOX KOIL KOIN KFLC KRLD WADC
 WBBM WCAO WCAU WCCO WDSU WEAN
 WFBL WHK WJAS WKBW WKRC WLWB
 WMAL WMT WNAC WOWO WSPD WXYZ

10:00-11:00 Victor Herbert Opera Series
 WJZ CKGW KDKA KWK WBAL WBZ
 WZBA WHAM WREN

10:00-11:00 RCA Hour
 WFAF CKGW KFI KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KTHS KYW WAPI WCAE WCHS WDAF
 WBBB WEEL WFAA WFI WFJC WFLA
 WBN WGY WHAS WIOD WJAR WJAX
 WJDX WMC WMC WOAI WQW WRC
 WRVA WSAI WSB WSM WSMB WSUN
 WTAG WTAM WTMJ WWJ

10:30-11:00 Paul Whiteman and His Orchestra
 WABC KFPY KLRA KMBC KMOX KOIL
 KSCJ WADC WBCM WBRW WCCO WDAY
 WDJW WDOJ WEAN WFBL WGR
 WHCC WHP WIBW WJUN WJAS WKRC
 WLAC WLWB WMAL WMT WNAC WNAX
 WORC WREC WSPD WTAR WWNC WXYZ

11:00-11:15 Palais d'Or Orchestra
 KSD KSTP WBN WCAE WFI WHO
 WJDX WOC WOW WRC WSAI WSM
 WSB WWJ

11:30-12:00 Ted Fiorito and His Orchestra
 WABC KFH KFPY KLRA KMBC KMOX
 KOIL KOL WBCM WBRW WCAO WCCO
 WDAY WDJW WDOJ WEAN WFBL WFBM
 WHEC WHP WIBW WJUN WKRC WLWB
 WMAL WMT WNAC WNAX WORC WPG
 WREC WSPD WTAR WWNC WXYZ

11:30-11:45 Duke Ellington and His Orchestra
 WFAF CKGW KSD KSTP WDAF WFI
 WFJC WJDX WOW WRC WWJ

Thursday

9:45-10:00 Our Daily Food
 WFAF CKGW KPRC KSD KVOO WAPI
 WBAW WBN WCAE WCHS WDAF WBBB
 WFLA WGY WHAS WHO WIOD WJAX
 WJDX WKY WLW WMC WOAI WOC
 WPTF WRC WRVA WSAI WSB WSM
 WSMB WSUN WTAG WTAM WTMJ WWJ

10:00-10:15 Ceresota Program
 WFAF KSTP KYW WBN WCAE WCHS
 WFI WGY WJAR WRC WRVA WSAI
 WTAG WTAM WWJ

10:45-11:00 The Manhattans
 WJZ KDKA KFAB KWK WHAM WIBO
 WLW WREN WSMB

4:30-5:00 Melody Magic
 WABC KDYL KFJF KFPY KPRC KLZ
 KMBC KMOX KOL KRLD KSCJ KVI
 WADC WAIU WBCM WBRW WCAO WCCO
 WDAY WDBJ WDOJ WEAN WFAN WHP
 WIBW WJUN WJAX WMAL WMT WNAC
 WORC WOWO WPG WREC WTAR WWNC
 WXYZ WGR

4:45-5:30 In the Spotlight
 WFAF KFSD KGO KOA KOMO KSD
 KTAR WCAE WBN WHAS WHO WJAR
 WGY WOC WRC WSAI WSM WSMB
 WTAG WTAM WTC

5:30-5:45 The Toddy Party
 WFAF CKGW KSD KYW WCAE WCHS
 WEEL WFJC WBN WGY WJAR WLIT
 WRC WSAI WTAG WTC WWJ

7:00-7:30 Mid-Week Federation Hymn Sing
 WFAF KOA WHAS WHO WIBO WJAR
 WMC WOC WWJ

7:30-8:00 Ward's Tip Top Club
 WABC KMOX WCAO WCAU WEAN WFBL
 WHK WJAS WKBN WNAC WXYZ

8:00-9:00 Fleischmann Hour—Rudy Vallee
 WFAF CKGW KECA KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KTAR KTHS KFLI WBAW WCAE WCHS
 WDAF WBBB WEEL WFI WFJC WGN
 WBN WGY WHAS WHO WIOD WJAR
 WJAX WJDX WKY WMC WOAI WQW
 WOW WPTF WRC WRVA WSAI WSB
 WSM WSMB WTAG WTAM WTMJ WWJ

8:00-9:00 Lucky Strike Orchestra
 WJZ KDKA KFAB KWK KYW WBAL
 WHAM WJR WREN

8:15-8:30 Voice of Columbia
 WABC KFH KFPY KLRA KMBC KMOX
 KSCJ WADC WBCM WBRW WCCO WDAY
 WDBJ WDOJ WFBL WFBM WGR WHEC
 WIBW WJUN WJAS WKRC WLAC WLWB
 WMAL WMT WNAX WORC WPG WREC
 WSPD WTAR WWNC WXYZ

8:30-8:45 Kaltenborn Edits the News
 WABC KMBC KMOX KOIL WADC WBT
 WCAO WCAU WCCO WEAN WFBL WJAS
 WKBW WKRC WLWB WMAL WMAQ WNAC
 WOWO WPG WSPD WXYZ

8:45-9:00 The Hamilton Watchman
 WABC KMBC KMOX KOIL WADC WCAO
 WCAU WEAN WFBL WHK WJAS WJJD

Friday

11:00-12:00 NBC Music Appreciation Hour
 WFAF WJZ CKGW KDKA KFAB KOA
 KPRC KSD KSL KSTP KVGO KWK
 KYW WAPI WBAL WBZ WBZA WCAE
 WCSH WDAF WECB WEEI WENR WFAA
 WFLA WGN WWJ WGY WHAM WHAS
 WHO WIBO WIOD WJAR WJAX WJDX
 WJR WKY WLIT WLW WMC WOAI
 WOC WOW WPTF WRC WREN WRVA
 WSAI WSB WSM WSMB WSUN WTAG
 WTAM WTMJ

1:00-2:00 Palais d'Or Orchestra
 WFAF KSD KYW WGY WHO WOC
 WRC WTAM WTMJ

7:15-7:30 Ozzie Nelson and His Orchestra
 KFIF KFPY KPRC KLRA KSCJ WBCM
 WBRC WCCO WDBJ WDOD WEAN WFBM
 WGR WHP WISN WJAS WLWB WMT
 WORC WSPD WTAR WWNC WXYZ

7:45-8:00 Brownbilt Footlites
 WJZ KDKA KFAB KOA KSL KWK
 WAPI WBZ WBZA WERC WFLA WHAS
 WIBO WIOD WJAX WJDX WMC WOAI
 WPTF WREN WRVA WSB WSM WSMB
 WSUN WTMJ

8:00-8:30 Nestle's Program
 WJZ KDKA KFAB KWK WBZ WBZA
 WHAM WIBO WJR WLW WREN

8:00-9:00 Cities Service Concert Orchestra
 WFAF CKGW KECA KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KYW WCAE WCSH WDAF WECB WEEI
 WFAA WBEN WHO WJAR WKY WLIT
 WOAI WOC WOW WRC WSAI WTAG
 WTAM WTIC WTMJ WWJ

8:15-8:30 Grand Opera Miniature
 WABC KDYL KFH KFJF KFPY KFRC
 KHJ KLZ KMBC KRLD KSCJ KVI
 WADC WAIU WBCM WDAY WDBJ WDOD
 WHEC WHP WIBW WISN WJAS WKRC
 WLAC WLWB WLWB WMAL WMAQ WMT
 WNAX WORC WREC WSPD WTAR WWNC
 WXYZ WGR

8:30-9:00 Weed Tire Chain Program
 WABC KFJF KMBC KMOX KOIL KRLD
 WADC WCAO WCAU WCCO WFEAN WFBL
 WJAS WKBW WKRC WLWB WMAL WMAQ
 WNAC WOWO WSPD WXYZ

8:45-9:00 Natural Bridge Revue
 WJZ KDKA KFAB KWK WBZ WBZA
 WFLA WHAM WIBO WIOD WJAX WLW
 WREN WRVA WSUN

9:00-9:30 Interwoven Pair
 WJZ CKGW KDKA KECA KFSD KGO
 KGW KHQ KOA KOMO KPRC KSL
 KSTP KJAR KWK KYW WAPI WBZ
 WBZA WCKY WECB WFAA WHAM WHAS
 WIOD WJAX WJR WKY WLW WMC
 WOAI WREN WRVA WSB WSM WSMB
 WTAM

9:00-9:30 Cliquot Club Eskimos
 WFAF KSD WCAE WCSH WDAF WEEI
 WBEN WGY WHO WIBO WJAR WLIT
 WOC WOW WRC WSAI WTAG WTIC
 WJZ

9:00-10:00 True Story Hour
 WABC KMBC KMOX KOIL WADC WCAO
 WCAU WEAN WFBL WHK WJAS WKBW
 WKRC WLWB WMAL WMAQ WNAC WOWO
 WSPD WXYZ

9:30-10:00 Del Lampe's Eversharp Orchestra
 WFAF KSD WCAE WCSH WDAF WEEI
 WFJC WGN WBEN WGY WHO WJAR
 WLIT WOC WOW WRC WSAI WTAG
 WTIC WWJ

9:30-10:00 Armour Program
 WJZ KDKA KFI KGO KGW KHQ
 KOA KOMO KSL KSTP KWK KYW
 WAPI WBZ WBZA WECB WFAA WHAM
 WHAS WIOD WJAX WJDX WJR WKY
 WLW WMC WOAI WPTF WREN WRVA
 WSB WSM WSMB WTMJ

10:00-10:30 Crime Prevention Program
 WFAF KSD WCAE WCSH WJAR WRC
 WTAG

10:00-10:30 Armstrong Quakers
 WJZ KDKA KFI KGO KGW KHQ
 KOA KOMO KPRC KSL KSTP KWK
 KYW WBAF WBZ WBZA WCKY WECB
 WHAM WHAS WJR WKY WMC WOAI
 WREN WSB WSMB WTMJ

10:00-10:30 Radio Fellies, Guy Lombardo
 WABC KDYL KFJF KFPY KFRC KHJ
 KLZ KMBC KMOX KOIL KOIN KOL
 KVI WADC WBT WCAO WAO WCCO
 WDSU WEAN WFBL WGST WHEC WHK
 WHP WJAS WKBW WKRC WMAL WMAQ
 WNAC WORC WOWO WPG WRR WSPD
 WTAR WXYZ

10:30-10:45 Wrigley Football Program
 WABC KMBC KMOX KOIL WADC WBBM
 WBT WCAO WCAU WEAN WFBL WHK
 WJAS WKBW WKRC WLWB WMAL WNAC
 WOWO WPG WSPD WXYZ

10:30-11:00 RKO Theatre of the Air
 WFAF KFI KFSD KGO KGW KHQ
 KOA KOMO KSD KSL KJAR KTHS
 WCAE WCSH WDAF WEEI WFJC WFLA
 WBEN WGY WHO WIBO WIOD WJAR
 WJAX WJDX WKY WLIT WLW WMC
 WOAI WOC WOW WRC WRVA WSAI
 WSB WSMB WSUN WTAG WTAM WWJ

10:45-11:00 Phoenix Hosiery Program
 WABC KDYL KFPY KFRC KLZ KMBC
 KMOX KMX KOIL KOIN KOL WBBM
 WCAO WCCO WDSU WEAN WGST WHK
 WJAS WKBW WKRC WLAC WNAC WRR
 WXYZ

11:00-11:30 Will Osborne and His Orchestra
 WABC KDYL KFH KFJF KFPY KLZ
 KMBC KOL WBCM WBRC WCAO WDAY
 WDBJ WDOD WIBW WISN WLWB WLBZ
 WMAL WMT WNAX WORC WREC WSPD
 WTAR WWNC WXYZ

11:00-12:00 Vincent Lopez and His Orchestra
 WFAF CKGW KOA KSD KSTP WCAE
 WDAF WFJC WGY WHAS WHO WJDX
 WLIT WMC WOC WOW WRC WSB
 WSM WSMB WTIC WWJ

11:30-12:00 Romanelli and His Orchestra
 WABC KDYL KFH KFJF KFPY KLZ
 KMBC KMOX KOL WBCM WBRC WCAO
 WDAY WDBJ WDOD WEAN WHK
 WBBW WISN WKRC WLWB WLBZ WMAL
 WMT WNAC WNAX WORC WREC WSPD
 WTAR WWNC WXYZ

Saturday

10:30-11:00 New World Salon Orchestra
 WABC KDYL KFJF KMBC KRLD KSCJ
 WADC WAIU WBCM WCAO WCAU WDAY
 WDBJ WDOD WEAN WFBM WHEC WHK
 WISN WJAS WKBW WLAC WLWB WMAL
 WMT WNAC WREC WNNC WXYZ

1:30-2:00 Savoy Plaza Orchestra
 WABC KLRA WADC WBCM WBRC WCAO
 WDBJ WDOD WEAN WFBL WGR WHP
 WJAS WKRC WLAC WMAL WSPD WTAR
 WWNC WXYZ

4:30-5:00 The Marionettes
WEAF KGO KOA KTAR WBEN WCAE
WGY WRC

5:00-5:45 Warwick Hotel Orchestra
WABC KFH KFPY KLRA KLZ KMBC
KMOX KSCJ WAIU WBCM WBRC WCAO
WCCO WDAY WDOD WFAN WFBL WGR
WHP WISN WJAS WLBW WMAL WMT
WPG WREC WSPD WTAR WWNC WXYZ

5:30-6:00 Blue Aces
WJZ KWK WHAM WHAS WMC WSB
WSMB

6:00-6:15 The Jameses
WEAF CKGW KGO KGW KOA KSD
KTAR WCAE WFI WGY WHAS WJAR
WMC WOV WRC WWJ

6:00-6:15 Tom, Dick and Harry
WABC KDYL KFH KFJF KFPY KLZ
KMOX KRLD KSCJ WADC WAIU WBCM
WBRC WCCO WDAY WDBJ WDOD WFAN
WHEC WHK WHP WIBW WISN WKBN
WLBW WMT WREC WTAR WWNC WGR

6:15-6:40 Smith Ballou and His Orchestra
WJZ KFAB KWK WBZ WBZA

7:05-7:30 Whyte's Orchestra
WEAF KGO KGW KOA KSD WFI
WGY WJAR WTIC WWJ

7:15-7:30 Tastyest Jesters
WJZ KDKA WBAL WBZ WBZA WCKY
WHAM WREN

7:30-8:00 Necco Surprise Party
WABC WEAN WFBL WHEC WKBW WLBZ
WNAC WORC

7:30-8:00 Silver Flute
WEAF CKGW KSD KSTP WCHS WDAF
WBC WEEL WFI WBEN WHO WJAR
WOC WOV WRC WSAI WTAG WWJ

7:45-8:00 Pickard Family
WJZ CKGW KDKA KFAB KWK KYW
WBZ WBZA WHAM WLW WREN

8:00-8:15 Dixies Circus
WJZ KDKA KPRC KSTP KVOO KYW
WBAL WBZ WBZA WHAM WKY WLW
WOAI

8:00-8:30 Salon Singers
WEAF KSD WCAE WCHS WDAF WEEI
WFI WBEN WGY WHO WIOD WJAR
WJAX WOC WOV WRC WSAI WSMB
WTAG WWJ

8:15-8:30 Rin-Tin-Tin Thriller
WJZ KDKA KFAB KWK KYW WBAL
WBZ WBZA WHAM WLW WREN

8:15-8:30 Dixie Echoes
WABC KDYL KFH KFJF KFPY KHJ
KMBC KSCJ WADC WBCM WCAO WDAY
WDBJ WDOD WFAN WHK WIBW WISN
WJAS WKBN WKRC WLAC WLBW
WMAL WMT WNAK WORC WOV WREC
WSPD WTAR WWNC WXYZ WGR

8:30-8:45 Dancing Yesterdays
WABC KFH KFJF KFPY KFRC KLRA
KMBC KOIL KSCJ WADC WBCM WCAO
WCAU WDBJ WDOD WEAN WFBL WGR
WIBW WISN WJAS WKRC WLAC WLBW
WMAL WMT WNAK WNAK WORC WPG
WSPD WTAR WWNC WXYZ

8:30-9:00 Fuller Man
WJZ CKGW KDKA KECA KFAB KGO
KGW KHQ KOA KOMO KPRC KWK
WBAL WBZ WBZA WHAM WIBO WJR
WKY WLW WREN

8:45-9:00 Wallace Silversmiths
WABC KMBC KMOX WBT WCAU WCCO

WDSU WJAS WMAL WMAQ WNAC WRR
WXYZ

9:00-9:30 Carborundum Hour
WABC KMOX WCAU WHK WKBW WMAQ
WNAC WXYZ

9:00-10:00 General Electric Hour
WEAF KFI KFSD KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR WAPI WBAP WCAE WCHS WDAF
WEBC WEEI WFI WBEN WHAS WHO
WIBO WJAR WJAX WKY WMC WOAI
WOC WOV WRC WKVA WSAI WSB
WSMB WTAG WTAM WTMJ WWJ

9:30-10:00 Dutch Masters Minstrels
WJZ KDKA KWK KYW WBAL WBZ
WBZA WHAM WJR WLW WREN

9:30-10:00 Columbia Educational Features
WABC KFH KFJF KFPY KHJ KLRA
KLZ KMBC KOIL KOL KSCJ WADC
WBCM WCAO WCAU WCCO WDBJ WDOD
WEAN WFBL WFBM WHP WIBW WISN
WJAS WKBW WKRC WLAC WLBW WMAL
WMAQ WMT WNAK WNAK WORC WSPD
WTAR WWNC WXYZ

10:00-11:00 Lucky Strike Orchestra
WEAF KFI KFSD KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR KVOO WAPI WCAE WCHS WDAF
WEBC WEEI WFAA WFI WFJC WFLA
WGN WBEN WGY WHAS WHO WIOD
WJAR WJAX WJDX WKY WMC WOAI
WOC WOV WRC WKVA WSAI WSB
WSMB WSUN WTAG WTMJ WWJ

10:00-11:00 Hank Simmons' Show Boat
WABC KDYL KFH KEJF KFPY KFRC
KHJ KLZ KMBC KMOX KOL KSCJ
WADC WBCM WCAO WCAU WCCO WDAY
WDBJ WDOD WEAN WHK WHP WIBW
WISN WJAS WKBN WKRC WLAC WLBW
WLBZ WMAL WMAQ WMT WNAK WNAK
WORC WOV WPG WREC WSPD WTAR
WWNC WXYZ

10:00-11:00 Chicago Civic Opera
WJZ KDKA WBAL WBZ WBZA WHAM

11:00-11:15 Troubadour of the Moon
WEAF KSTP WDAF WFI WHO WIOD
WJDX WOC WOV WRC WSAI WTAM
WWJ

11:00-11:30 Jack Denny and His Orchestra
WABC KDYL KFJF KFPY KFRC KLZ
KMBC KOL KRLD KSCJ WBCM WBRC
WCAO WDAY WDBJ WDOD WEAN WFAN
WFBM WHEC WHK WHP WIBW WISN
WLBW WLBZ WMAL WMT WNAK WNAK
WORC WPG WREC WSPD WTAR WWNC
WXYZ

11:15-12:00 Bernie Cummins and His Orchestra
WEAF CKGW KOA KSD KSTP WCAE
WDAF WFI WFJC WGY WHO WJDX
WMC WOC WOV WRC WSB WSMB
WTAM WTMJ WWJ

11:30-12:00 Guy Lombardo and His Orchestra
WABC KFJF KFPY KFRC KLZ KMBC
KMOX KOL KRLD KSCJ WBCM WBRC
WCAO WCAU WCCO WDAY WDBJ WDOD
WFBM WHEC WHK WHP WIBW WISN
WKRC WLBW WLBZ WMAL WMT WNAK
WNAK WORC WPG WREC WSPD WTAR
WWNC WXYZ

12:00-1:00 Rudy Vallee and his Orchestra
WEAF KOA KSD KSTP WDAF WFJC
WJDX WRC WSB WWJ

INDEX BY FREQUENCIES AND DIAL NUMBERS

NOTICE OF COPYRIGHT

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KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: * Verifies receptions 2c; sends station stamp 10c; † Verifies 2c; no stamp; ‡ 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; — means 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.

540 kilocycles 555.6 meters

CKX	†	500	---	Brandon, Manitoba
XFA	--	50	---	Mexico City

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Manitoba Telephone System
Sria. de Agricultura y Fomento

550 kilocycles 545.1 meters

KFDY	†	500	1+	Brookings, S. D.
KFUO	*	500	2+	St. Louis, Mo.
KFYR	§	500	1+	Bismarck, N. D.
KOAC	--	1000	---	Syracuse, Ore.
KSD	--	500	2N	St. Louis, Mo.
WGR	*	1000	C	Buffalo, N. Y.
WKRC	--	1000	C	Cincinnati, Ohio
XEY	--	105	547	Merida, Yucatan

W H		
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S. D. State College
Concordia Theological Seminary
Meyer Broadcasting Co.
State Agricultural College
Pulitzer Publishing Co.
Buffalo Broadcasting Co.
WKRC Incorporated
Partido Socialista del Sureste

560 kilocycles 535.4 meters

KFDM	--	500	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	--	500	1N	Philadelphia, Pa.
WNOX	--	1000	X+	Knoxville, Tenn.
WPC	--	500	3S	Chicago, Ill.
WQAM	*	1000	C	Miami, Fla.

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

W H		
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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.
Gurney Seed & Nursery Co.
Dept. of Plants and Structures
Clive B. Meredith
Citizens Broadcasting Co., Inc.

580 kilocycles 516.9 meters

CFCL	--	500	3S	Toronto, Ont.
CHMA	--	250	4	Edmonton, Alta.
CKLC	--	500	3	Toronto, Ont.
CKNC	*	500	3	Toronto, Ont.
CKUA	--	500	4	Edmonton, Alta.
KGFX	--	200	D	Pierre, S. D.
KSAC	--	500	2+	Manhattan, Kans.
WIBW	*	500	2+C	Topeka, Kansas
WOBW	--	250	1	Charleston, W. Va.
WSAZ	--	250	1	Huntington, W. Va.
WTAG	*	250	N	Worcester, Mass.

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Dominion Battery Co.
Christian and Missionary Alliance
The Dominion Battery Co.
Canadian National Carbon Co., Ltd.
University of Alberta
Dana McNeil
State Agricultural College
Topeka Broadcasting Assn., Inc.
WOBW, Inc.
WSAZ, Inc.
Telegram Publishing Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

CMW	--	1000	588	Havana, Cuba
KHQ	--	1000	+N	Spokane, Wash.
WCAJ	*	500	1	Lincoln, Nebr.
WEEL	†	1000	N	Boston, Mass.
WKZO	--	1000	D	Berrien Springs, Mich.
WOW	*	1000	1N	Omaha, Nebr.
XFI	--	1000	591	Mexico City
-----	--	500	CP	Lynchburg, Va.

Columbus Commercial & Radio Co. Louis Wasmer, Inc. Nebraska Wesleyan University Edison Elec. Illuminating Co. WKZO, Inc. Woodmen of the World Sria. de Industria, Comercio y Trabajo Abe Cohen		

KCYS.
670
MTRS.
447.5
DIAL

600 kilocycles 499.7 meters

CFCH	--	250	3	Iroquois Falls, Ont.
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.
WCAO	--	250	C	Baltimore, Md.
WGBS	--	250	2+	New York City
WMT	*	500	C	Waterloo, Iowa
WOAN	--	500	1	Lawrenceburg, Tenn.
WREC	--	500	1+C	Memphis, Tenn.

Abitibi Power & Paper Co. Jas. Richardson & Sons, Ltd. Jas. Richardson & Sons, Ltd. Canadian National Railways Airfan Radio Corp. Conn. Agricultural College Monumental Radio, Inc. General Broadcasting System, Inc. Waterloo Broadcasting Co. WREC, Inc. WREC, Inc.		

610 kilocycles 491.5 meters

KFRC	*	1000	C	San Francisco, Cal.
WDAF	--	1000	N	Kansas City, Mo.
WFAN	*	500	2C	Philadelphia, Pa.
WIP	*	500	2	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.
WLWB	--	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		

630 kilocycles 475.9 meters

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, Mexico
XFC	--	350	631	Jalapa, Ver.

Victoria Broadcasting Association Winnipeg Grain Exchange Canadian National Railways Stephens College Evansville on the Air, Inc. M. A. Leese State Marketing Bureau Mexico Music Co. Gobierno del Estado de Veracruz		

640 kilocycles 468.5 meters

KFI	--	5000	NX	Los Angeles, Cal.
WAIU	--	500	C	Columbus, Ohio
WOI	*	5000	D	Ames, Iowa
XFG	--	2000	638	Mexico City

Earle C. Anthony, Inc. American Insurance Union State College of Agriculture Secretaria de Guerra y Marina		

650 kilocycles 461.3 meters

KPCB	--	100	Dn	Seattle, Wash.
WSM	--	5000	N	Nashville, Tenn.

Wescoast Broadcasting Co. National Life & Accident Ins. Co.		

660 kilocycles 454.3 meters

WAAW	*	500	D	Omaha, Neb.
WEAF	†	50000	N	New York City

Omaha Grain Exchange National Broadcasting Co., Inc.		

670 kilocycles 447.5 meters

WMAQ	*	5000	C	Chicago, Ill.
XEB	†	1000	666	Mexico City

WMAQ, Inc. E. Buen Tono, S. A.		

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

680 kilocycles 440.9 meters

KFEQ	*	2500	D	St. Joseph, Mo.
KPO	†	5000	N	San Francisco, Cal.
WPTF	*	1000	N Dn	Raleigh, N. C.

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Scroggin & Co., Bank
Hale Bros. & The Chronicle
Durham Life Insurance Co.

690 kilocycles 434.5 meters

CFAC	--	500	1	Calgary, Alta.
CFCN	--	500	1	Calgary, Alta.
CHCA	--	500	1	Calgary, Alta.
CJ CJ	--	500	1	Calgary, Alta.
CJSC	--	5000	4	Calgary, Alta.
CKGW	--	5000	2N	Toronto, Ont.
CNRC	--	500	1	Toronto, Ont.
CPRY	--	5000	2N	Calgary, Alta.
NAA	--	1000		Toronto, Ont.
VAS	--	10000	685	Arlington, Va. Louisburg, N. S.

<i>WJA</i>		
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The Calgary Herald
Western Broadcasting Co.
The Western Farmer
Albertan Publishing Co., Ltd.
The Evening Telegram
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
XEZ	--	500	697	Mexico City, Mex.

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Crosley Radio Corp.
Joaquin Zamacona

710 kilocycles 422.3 meters

KMPC	--	500	Dn	Los Angeles, Cal.
WOR	--	5000	---	Newark, N. J.

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R. S. MacMillan
Bamberger Broadcasting Service, Inc.

720 kilocycles 416.4 meters

WGN	--	25000	N	Chicago, Ill.
XEN	†	1000	---	Mexico City
8WMC	--	500	722	St. Johns, N. F.

<i>2074</i>		
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Chicago Tribune
Compania Civil de Inversiones Urbanas
Wesley United Church

730 kilocycles 410.7 meters

CHLS	--	50	1	Vancouver, B. C.
CHYC	--	5000	2	Montreal, Que.
CKAK	--	5000	2C	Montreal, Que.
CKCD	--	50	1	Vancouver, B. C.
CKFC	--	50	1	Vancouver, B. C.
CKMO	--	50	1	Vancouver, B. C.
CKWX	†	100	1	Vancouver, B. C.
CMK	--	2000	---	Havana, Cuba
CNRM	--	5000	2	Montreal, Que.

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W. G. Hassell
Northern Electric Co., Ltd.
La Presse Publishing Co., Ltd.
Vancouver Daily Province
United Church of Canada
Spratt-Shaw Radio Co.
A. Hulstead & Wm. Hanlon
Cuban Broadcasting Co., Hotel Plaza
Canadian National Railways

740 kilocycles 405.2 meters

KMMJ	--	1000	Dn	Clay Center, Neb.
WSB	--	5000	N	Atlanta, Ga.

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The M. M. Johnson Co.
Atlanta Journal Co.

750 kilocycles 399.8 meters

TXR	--	50		San Jose, Costa Rica
WJR	†	5000	N	Detroit, Mich.

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WJR, The Goodwill Station, Inc.

760 kilocycles 394.5 meters

KVI	--	1000	C Dn	Tacoma, Wash.
WEW	--	1000	D	St. Louis, Mo.
WIZ	†	30000	N	New York City
XEM	--	500	765	Tampico, Mexico

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Puget Sound Broadcasting Co., Inc.
St. Louis University
National Broadcasting Co., Inc.
Herbert A. Denny y Cia.

770 kilocycles 389.4 meters

CMI	--	500	775	Havana, Cuba
KFAB	*	5000	1N	Lincoln, Nebr.
WBBM	*	25000	1C	Chicago, Ill.
WJBT	--	25000	1S	Chicago, Ill.

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Instituto Provincial
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.

<i>WJBT</i>		
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Manitoba Telephone System
Canadian National Railways
Union Bank & Trust Co.

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KTM	*	500	2+	Los Angeles, Cal.
WEAN	--	250	+C	Providence, R. I.
WISJ	--	250	+	Madison, Wis.
WMC	--	500	+N	Memphis, Tenn.
WPOR	--	500	1	Norfolk, Va.
WTAR	*	500	1C	Norfolk, Va.
XEW	--	5000	---	Mexico City

Pickwick Broadcasting Corp.
Shepard Broadcasting Service, Inc.
Wisconsin State Journal Bdcsg. Co.
Memphis Commercial-Appeal
WTAR Radio Corp.
WTAR Radio Corp.
Mexico Music Co.

790 kilocycles 379.5 meters

CMHC	--	500	791	Tuinucu, Cuba
KGO	+	7500	N	San Francisco, Cal.
WGY	+	50000	N	Schenectady, N. Y.

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Frank H. Jones
National Broadcasting Co., Inc.
General Electric Co.

800 kilocycles 374.8 meters

WBAP	*	10000	1XN	Fort Worth, Texas
WFAA	--	50000	1N	Dallas, Texas
XEU	--	101	---	Veracruz, Mex.

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Carter Publications, Inc.
News & Journal
Natalio Ulibarri

810 kilocycles 370.2 meters

WCCO	--	7500	C	Minneapolis, Minn.
WPCH	--	500	D	New York City

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Northwestern Broadcasting, Inc.
Eastern Broadcasters, Inc.

820 kilocycles 365.6 meters

WHAS	+	10000	N	Louisville, Ky.
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Courier-Journal & Times

830 kilocycles 361.2 meters

CMGA	--	300	834	Colon, Cuba
KOA	+	12500	N	Denver, Colo.
WHDH	--	1000	D	Boston, Mass.
WRUF	*	5000	Dn	Gainesville, Fla.

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Leopoldo V. Figueroa
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	---	Havana, Cuba
CNRD	--	1000	2	Red Deer, Alta.
CNRT	--	500	1	Toronto, Ont.

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Star Publishing & Ptg. Co.
G. F. Tull & Ardern, Ltd.
Alberta Pacific Grain Co., Ltd.
Cuban Telephone Co.
Canadian National Railways
Canadian National Railways

850 kilocycles 352.7 meters

KWKH	*	10000	1	Shreveport, La.
NBA	--	750	846	Balboa, Canal Zone
WWL	*	5000	1	New Orleans, La.

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Hello World Broadcasting Corp.
United States Navy
Loyola University

860 kilocycles 348.6 meters

KMO	--	500	+ Dn	Tacoma, Wash.
WABC	--	5000	XC	New York City
WHB	*	500	D	Kansas City, Mo.
XET	--	101	857	C. Juarez, Chih.
XFX	--	500	---	Mexico City, Mex.

<i>W 77</i>		
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KMO, Inc.
Atlantic Broadcasting Corp.
WHB Broadcasting Co.
Juan G. Buttner
Secretaria de Educacion Publica

870 kilocycles 344.6 meters

WENR	--	50000	1N	Chicago, Ill.
WLS	--	5000	1XN	Chicago, Ill.

<i>W 77</i>		
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Great Lakes Broadcasting Co.
Agricultural Broadcasting Co.

880 kilocycles 340.7 meters

CHCS	--	10	4	Hamilton, Ont.
CHML	--	50	4	Hamilton, Ont.
CHRC	--	100	3	Quebec, Que.
CJCB	--	50	---	Sydney, N. S.
CKCI	+	22.5	3	Quebec, Que.
CKCV	+	50	3	Quebec, Que.
CKOK	--	50	4	Hamilton, Ont.
CNRQ	+	50	3	Quebec, Que.
KFKA	+	500	2+	Greeley, Colo.
KLX	--	500	---	Oakland, Cal.

<i>W 77</i>		
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The Hamilton Spectator
Maple Leaf Radio Co., Ltd.
E. Fontaine
N. Nathanson
Le "Soleil," Ltd.
G. A. Vandry
Wentworth Radio & Auto Sply. Co., Ltd
Canadian National Railways
Midwestern Radio Corp.
Tribune Publishing Co.

KCYS.
880
MTRS.
340.7
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

KPOF	--	500	2	Denver, Colo.
WCOC	--	500	+	Meridian, Miss.
WGBI	*	250	1	Scranton, Pa.
WQAN	*	250	1	Scranton, Pa.
WSUI	*	500	---	Iowa City, Iowa

Pillar of Fire, Inc.
Mississippi Broadcasting Co., Inc.
Scranton Broadcasters, Inc.
Scranton Times
University of Iowa

890 kilocycles 336.9 meters

CFBO	*	50	---	St. John, N. B.
CKCO	--	100	---	Ottawa, Ont.
KFNF	--	500	2+	Sherandoah, Iowa
KGJF	*	250	---	Little Rock, Ark.
KUSD	*	500	2+	Vermillion, S. D.
WGST	--	250	1+C	Atlanta, Ga.
WILL	*	250	2+	Urbana, Ill.
WJAR	*	250	+N	Providence, R. I.
WKAQ	--	500	---	San Juan, P. R.
WMAZ	†	250	1+	Macon, Ga.
WMMN	*	250	+	Fairmount, W. Va.
XES	†	500	---	Tampico, Mexico

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C. A. Munro, Ltd.
Dr. G. M. Geldert
Henry Field Co.
Church of the Nazarene
University of South Dakota
Georgia School of Technology
University of Illinois
The Outlet Co.
Radio Corp. of Porto Rico
Junior Chamber of Commerce
Holt-Rowe Novelty Co.
Difusora Portena XES

900 kilocycles 333.1 meters

CMX	*	250	---	Havana, Cuba
KGBU	†	500	---	Ketchikan, Alaska
KHJ	*	1000	C	Los Angeles, Cal.
KSEI	*	250	---	Pocatello, Idaho
WBEN	--	1000	---	Buffalo, N. Y.
WJAX	*	1000	N	Jacksonville, Fla.
WKY	*	1000	N	Oklahoma City
WLBL	*	2000	D	Stevens Point, Wis.

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Francisco Lavin
Alaska Radio & Service Co.
Don Lee, Inc.
KSEI Broadcasting Association, Inc.
Buffalo Evening News
City of Jacksonville
WKY Radiophone Co.
Wisconsin Dept. of Markets

910 kilocycles 329.6 meters

CFQC	--	500	1	Saskatoon, Sask.
CJGC	*	1000	2	London, Ont.
CNRL	*	500	2	London, Ont.
CNRS	--	500	1	Saskatoon, Sask.

The Electric Shop, Ltd.
Free Press Printing Co., Ltd.
Canadian National Railways
Canadian National Railways

920 kilocycles 325.9 meters

CMHD	--	250	---	Caibarien, Cuba
HHK	--	1000	---	Port au Prince, Haiti
KFEL	†	500	1	Denver, Colo.
KXFJ	*	500	1	Denver, Colo.
KOMO	†	1000	N	Seattle, Wash.
KPRC	--	1000	+N	Houston, Texas
WAAF	--	500	D	Chicago, Ill.
WBSO	--	500	D	Wellesley Hills, Mass.
WWJ	†	1000	N	Detroit, Mich.
XEX	--	500	923	Mexico City, Mex.
XFE	--	250	923	Villa Hermosa, Tab.

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Manuel A. Alvarez
Republic of Haiti
Eugene P. O'Fallon, Inc.
Colorado Radio Corp.
Fisher's Blend Station, Inc.
Houston Printing Co.
Drovers Printing Co.
Babson Journal Publishing Co.
The Detroit, News
Excelsior Cia Editorial S. A.
Gobierno Del Estado d Tabasco

930 kilocycles 322.4 meters

CJCA	*	500	4	Edmonton, Alta.
CFRC	--	500	'	Kingston, Ont.
CHNS	*	500	---	Halifax, N. S.
CKIC	--	50	---	Wolfville, N. S.
CKPR	--	50	3	Midland, Ont.
CNRE	--	500	4	Edmonton, Alta.
CNRH	--	500	---	Halifax, N. S.
KFWI	--	500	1	San Francisco, Cal.
KGBZ	--	500	2+	York, Nebr.
KMA	*	500	2+	Sherandoah, Iowa
KROW	--	500	1+X	Oakland, Cal.
WBRC	--	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WIBG	--	50	D	Elkins Park, Pa.

The Edmonton Journal, Ltd.
Queen's University
Halifax Herald, Ltd.
Acadia Academy
Midland Broadcasting Corp.
Canadian National Railways
Canadian National Railways
Radio Entertainments, Inc.
Dr. George R. Miller
May Seed & Nursery Co.
Educational Broadcasting Corp.
Birmingham Broadcasting Co., Inc.
Richardson-Wayland Elec. Corp.
St. Pauls P. E. Church

940 kilocycles 319.0 meters

KGU	†	1000	---	Honolulu, Hawaii
KOIN	--	1000	C	Portland, Ore.
WAAT	--	300	D	Jersey City, N. J.
WCSH	*	1000	N	Portland, Maine
WDAY	*	1000	C	Fargo, N. D.
WFIW	--	1000	C	Hopkinsville, Ky.
WHA	--	750	D	Madison, Wis.

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Marion A. Mulrony
KOIN, Inc.
Bremer Broadcasting Corp.
Congress Square Hotel Co.
WDAY, Inc.
WFIW, Inc.
University of Wisconsin

INDEX BY FREQUENCIES AND DIAL NUMBERS

950 kilocycles 315.6 meters

CMCQ	--	1000	955	Havana Cuba
KFWB	*	1000	---	Hollywood, Cal.
KGHL	--	1000	---	Billings, Mont.
KMBC	*	1000	C	Kansas City, Mo.
WRC	†	500	N	Washington, D. C.

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Andres Martinez
Warner Bros. Broadcasting Corp.
Northwestern Auto Supply Co., Inc.
Midland Broadcasting Co., Inc.
National Broadcasting Co., Inc.

960 kilocycles 312.3 meters

CFCY	*	250	1	Charlottetown, P. E. I.
CFRB	--	4000	2C	Toronto, Ont.
CHCK	--	30	1	Charlottetown, P. E. I.
CHWC	--	500	3	Pilot Butte, Sask.
CJBR	--	500	3	Regina, Sask.
CKCK	†	500	3	Regina, Sask.
CNRR	--	500	3	Regina, Sask.
CNRR	--	4000	2	Toronto, Ont.
XED	--	10000	---	Reynosa, Mexico

15	W4	
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The Island Radio Co.
Rogers-Majestic Corp., Ltd.
W. E. Burke
R. H. Williams & Sons. Ltd.
Cooperative Wheat Producers, Ltd.
Leader Publishing Co., Ltd.
Canadian National Railways
Canadian National Railways
International Broadcasting Co., Inc.

970 kilocycles 309.1 meters

KJR	*	5000	---	Seattle, Wash.
XEH	--	101	964	Monterrey, N. L.
WCFL	--	1500	N Dn	Chicago, Ill.

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Northwest Broadcasting System, Inc.
Ing. Constantino de Tarnava
Chicago Federation of Labor

KCY5.
1040
MTRS.
288.3
DIAL

980 kilocycles 305.9 meters

KDKA	--	5000	N	Pittsburgh, Pa.
XEO	--	101	983	Mexico City

30		
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Westinghouse Elec. & Mfg. Co.
F. Armida y Cia.

990 kilocycles 302.8 meters

WBZ	*	15000	1NY	Springfield, Mass.
WBZA	*	500	1NY	Boston, Mass.

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Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.

1000 kilocycles 299.8 meters

KFVD	--	250	Dn	Culver City, Cal.
WHO	--	5000	1N	Des Moines, Iowa
WOC	--	5000	1N	Davenport, Iowa
XEI	--	101	999	Morelia, Mexico

27		
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Los Angeles Broadcasting Co.
Central Broadcasting Co.
Central Broadcasting Co.
Carlos Gutierrez M.

1010 kilocycles 296.8 meters

CFLC	--	50	3	Prescott, Ont.
CKCR	--	50	3	Waterloo, Ont.
CMBZ	--	150	---	Havana, Cuba
CMCF	--	250	---	Havana, Cuba
KGGF	--	500	2	Coffeyville, Kans.
KQW	*	500	---	San Jose, Cal.
WHN	--	250	1	New York City
WIS	--	500	C+	Columbia, S. C.
WNAD	--	500	2	Norman, Okla.
WPAP	--	250	1	New York City
WQAO	--	250	1	New York City
WRNY	--	250	1	New York City

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Radio Association
John Patterson
Manuel y G. Salas
Raul Karmen
Coffeyville Journal
Pacific Agricultural Foundation, Ltd.
Marcus Loew Booking Agency
George T. Barnes, Inc.
University of Oklahoma
Calvary Baptist Church
Calvary Baptist Church
Aviation Radio Station, Inc.

1020 kilocycles 293.9 meters

KFKX	--	10000	1N	Chicago, Ill.
KYW	--	10000	1N	Chicago, Ill.
WRAX	--	250	D	Philadelphia, Pa.

27	W4	
----	----	--

Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.
WRAX Broadcasting Co.

1030 kilocycles 291.1 meters

CFCF	--	500	---	Montreal, Que.
CNRV	--	500	---	Vancouver, B. C.

--	--	--

Canadian Marconi Co.
Canadian National Railways

1040 kilocycles 288.3 meters

KRLD	*	10000	1C	Dallas, Texas
KTHS	‡	10000	1N	Hot Springs, Ark.
WKAR	--	1000	D	East Lansing, Mich.
WMAK	---	1000	C Dn	Buffalo, N. Y.

W4		
----	--	--

KRLD Radio Corp.
Chamber of Commerce
Michigan Agricultural College
Buffalo Broadcasting Corp.

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1050 kilocycles 285.5 meters

KFKB	--	5000	Dn	Milford, Kansas
KNX	*	5000	X	Hollywood, Cal.

--	--	--

KFKB Broadcasting Assn., Inc.
Western Broadcast Co.

1060 kilocycles 282.8 meters

KWJJ	--	500	Dn	Portland, Ore.
WBAL	*	10000	1N	Baltimore, Md.
WJAG	*	1000	Dn	Norfolk, Nebr.
WTIC	†	50000	1N	Hartford, Conn.

<i>WJH</i>		
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KWJJ Broadcast Co., Inc.
Consolidated Gas Elec. & Pwr. Co.
Norfolk Daily News
Travelers Broadcasting Service Corp.

1070 kilocycles 280.2 meters

KJBS	*	100	D	San Francisco, Cal.
WCAZ	--	50	D	Carthage, Ill.
WDZ	--	100	D	Tuscola, Ill.
WTAM	*	50000	N	Cleveland, Ohio
XER	--	101	1071	Mexico City

<i>WJH</i>		
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Julius Brunton & Sons Co.
Superior Broadcasting Service
James L. Bush
National Broadcasting Co., Inc.
F. Armida y Cia

1080 kilocycles 277.6 meters

WBT	*	5000	C	Charlotte, N. C.
WCBD	*	5000	1 Dn	Zion, Ill.
WMBI	--	5000	1 Dn	Chicago, Ill.

--	--	--

Station WBT, Inc.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

KMOX	*	50000	1CX	St. Louis, Mo.
XEL	--	10	---	Salttillo, Coah.

<i>WJH</i>		
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Voice of St. Louis, Inc.
Antonio Garza Castro

1100 kilocycles 272.6 meters

KGDM	*	250	DX	Stockton, Cal.
WLWL	*	5000	1	New York City
WPG	--	5000	1C	Atlantic City, N. J.

--	--	--

E. F. Peffer
Missionary Society of St. Paul
WPG Broadcasting Corp.

1110 kilocycles 270.1 meters

KSOO	*	2000	Dn	Sioux Falls, S. D.
WRVA	*	5000	N	Richmond, Va.

<i>22</i>		
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Sioux Falls Broadcasting Assn., Inc.
Larus & Bros. Co., Inc.

1120 kilocycles 267.7 meters

CFJC	--	15	---	Kamloops, B. C.
CHGS	*	100	---	Summerside, P. E. I.
CJOC	--	50	---	Lethbridge, Alta.
KFIO	†	100	D	Spokane, Wash.
KFSG	*	500	3	Los Angeles, Cal.
KMIC	*	500	3Y	Inglewood, Cal.
KRSC	†	50	D	Seattle, Wash.
KTRH	*	500	2C	Houston, Texas
WDBO	*	500	+C	Orlando, Fla.
WDEL	†	250	+X	Wilmington, Del.
WHAD	†	250	1	Milwaukee, Wis.
WISN	--	250	1C	Milwaukee, Wis.
WTAW	--	500	2	College Station, Texas
-----	--	150	CP	Rayne, La.
-----	--	10	CPD	Haynesville, La.

<i>22</i>		
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N. S. Dalgleish & Sons
R. T. Holman, Ltd.
Harold R. Carson
Spokane Broadcasting Corp.
Echo Park Evang. Assn.
Dalton's, Inc.
Radio Sales Corp.
Radio Sales Corp.
Rice Hotel
Orlando Broadcasting Co., Inc.
WDEL, Inc.
Marquette University
Evening Wisconsin Co.
Agricultural & Mech. College
Ber, Killmer & Bailey
C. C. Crawford

1130 kilocycles 265.3 meters

CMBC	--	150	---	Havana, Cuba
CMQ	--	150	---	Havana, Cuba
KSL	--	5000	N	Salt Lake City
WJJD	--	20000	C Dn	Mooseheart, Ill.
WVV	--	1000	D	New York City
XEF	--	105	1131	Oaxaca, Oax.

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Domingo Fernandez Cruz
Jose Fernandez
Radio Service Corp. of Utah
Loyal Order of Moose
International Broadcasting Corp.
Frederico Zorrila

1140 kilocycles 263.0 meters

KVOO	*	5000	1N	Tulsa, Okla.
WAPI	--	5000	1N	Birmingham, Ala.

<i>WJH</i>		
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Southwestern Sales Corp.
Alabama Polytechnic Institute

1150 kilocycles 260.7 meters

CMHA	--	200	1154	Cienfuegos, Cuba
WHAM	*	5000	N	Rochester, N. Y.

<i>WJH</i>		
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Jose Gandux
Stromberg-Carlson Tel. Mfg. Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

20	WVA	
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WOWO * 10000 1C
 WWSA * 5000 1Y

Ft. Wayne, Ind.
 Wheeling, W. Va.

Main Auto Supply Co.
 West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

19	WCAU	
----	------	--

KTNT -- 5000 Dn
 WCAU * 10000 C

Muscatine, Iowa
 Philadelphia, Pa.

Norman Baker
 Universal Broadcasting Co

1180 kilocycles 254.1 meters

--	--	--

KEX -- 5000 2
 KOB -- 20000 2
 WDGY * 1000 1 Dn
 WHDI -- 500 1 Dn

Portland, Ore.
 State College, N. M.
 Minneapolis, Minn.
 Minneapolis, Minn.

Western Broadcasting Co.
 College of Agriculture & Mech. Arts
 Dr. George W. Young
 Wm. Hood Dunwoody Industrial Inst.

1190 kilocycles 252.0 meters

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WICC * 500 D
 WOAI * 50000 N

Bridgeport, Conn.
 San Antonio, Texas

Bridgeport Broadcasting Station, Inc.
 Southern Equipment Co.

1200 kilocycles 249.9 meters

--	--	--

KBTH -- 100 D
 KFHA -- 50 --
 KFJB -- 100 +
 KFWF -- 100 5
 KGCU -- 100 --
 KGDE -- 100 +
 KGDY -- 100 --
 KGEK -- 50 9
 KGEW † 100 9
 KGJF -- 100 --
 KGHI -- 100 --
 KGY -- 10 +
 KMLB -- 50 DCP
 KSMR -- 100 --
 KVOS -- 100 --
 KWG * 100 --
 WABI † 100 --
 WABZ -- 100 1
 WBBZ -- 100 --
 WCAT -- 100 --
 WCAX * 100 2
 WCLO † 100 --
 WCOD † 100 3
 WEHC * 100 +X
 WEPS -- 100 --
 WFBC -- 50 --
 WFBE -- 100 +
 WHBC -- 10 4S
 WHBY -- 100 --
 WIBX -- 100 +
 WIL -- 100 5+
 WJBC * 100 6
 WJBL -- 100 6
 WJBW -- 100 1
 WKJC -- 100 3
 WLAP † 100 +
 WLBG § 100 +
 WMAY -- 100 5+
 WNBO * 100 4
 WNBW † 10 --
 WNBX -- 10 2
 WORC -- 100 CX
 WPDF * 100 8
 WRAF * 100 8
 WRBL -- 50 --
 WWAE -- 100 8
 XEA -- 101 --
 10-BP -- 25 --

Paragould, Ark.
 Gunnison, Colo.
 Marshalltown, Iowa
 St. Louis, Mo.
 Mandan, N. D.
 Fergus Falls, Minn.
 Huron, S. D.
 Yuma, Colo.
 Fort Morgan, Colo.
 Los Angeles, Cal.
 Little Rock, Ark.
 Lacey, Wash.
 Monroe, La.
 Santa Maria, Cal.
 Bellingham, Wash.
 Stockton, Cal.
 Bangor, Maine
 New Orleans, La.
 Ponca City, Okla.
 Rapid City, S. D.
 Burlington, Vt.
 Janesville, Wis.
 Harrisburg, Pa.
 Emory, Va.
 Worcester, Mass.
 Knoxville, Tenn.
 Cincinnati, Ohio
 Canton, Ohio
 Green Bay, Wis.
 Utica, N. Y.
 St. Louis, Mo.
 La Salle, Ill.
 Decatur, Ill.
 New Orleans, La.
 Lancaster, Pa.
 Louisville, Ky.
 Petersburg, Va.
 St. Louis, Mo.
 Washington, Pa.
 Carbondale, Pa.
 Springfield, Vt.
 Worcester, Mass.
 Flint, Mich.
 La Porte, Ind.
 Columbus, Ga.
 Hammond, Ind.
 Guadalajara, Jal.
 Wingham, Ont.

W. J. Beard's Temple of Music
 The Hawkins-Craig Syndicate
 Marshall Electric Co., Inc.
 St. Louis Truth Center, Inc.
 Mandan Radio Association
 Jaren Drug Co.
 J. Albert Loesch and George W. Wright
 Beehler Elec. Equipment Co.
 City of Fort Morgan
 Ben S. McGlashan
 Berean Bible Class
 St. Martin's College
 G. C. Liner
 Santa Maria Valley R. R. Co.
 KVOS, Inc.
 Portable Wireless Tel. Co., Inc.
 Pine Tree Broadcasting Corp.
 Coliseum Place Baptist Church
 C. L. Carrell
 State School of Mines
 University of Vermont
 WCLO Radio Corp.
 Norman R. Hoffman
 Emory & Henry College
 Alfred Frank Kleindienst
 First Baptist Church
 WFBE, Inc.
 St. John's Catholic Church
 St. Norbert's College
 WIBX, Inc.
 Missouri Broadcasting Corp.
 Kaskaskia Broadcasting Co.
 Commodore Broadcasting, Inc.
 Charles C. Carlson, Jr.
 Kirk, Johnson & Co.
 American Broadcasting Corp. of Ky.
 Robert Allen Gamble
 Kingshighway Presbyterian Church
 John Brownlee Spriggs
 Home Cut Glass & China Co.
 First Congregational Church
 Alfred Frank Kleindienst
 City of Flint
 Chas. Middleton
 David Parmer
 Hammond-Calumet Broad. Corp.
 Alberto Palos Souza
 Radio & Electric Shop

KCY.S.
 1200
 MTRS.
 249.9
 DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

CFCO	--	100	---	Chatham, Ont.
CFNB	--	50	---	Frederickton, N. B.
CHWK	†	5	---	Chilliwack, B. C.
CJOR	*	50	---	Sea Island, B. C.
CKMC	--	15	---	Cobalt, Ont.
CKPC	†	25	---	Preston, Ont.
KDFN	†	100	---	Casper, Wyo.
KDLR	--	100	---	Devils Lake, N. D.
KFOR	--	100	+	Lincoln, Nebr.
KFVS	--	100	6	Cape Girardeau, Mo.
KFXM	--	100	9	San Bernardino, Cal.
KGCR	--	100	---	Watertown, S. D.
KGMP	\$	100	---	Elk City, Okla.
KGNO	--	100	---	Dodge City, Kans.
KMJ	*	100	---	Fresno, Cal.
KPPC	\$	50	9	Pasadena, Cal.
KWEA	*	100	---	Shreveport, La.
WALR	*	100	---	Zanesville, Ohio
WBAX	--	100	1	Wilkes-Barre, Pa.
WBBL	†	100	7S	Richmond, Va.
WCBS	\$	100	2	Springfield, Ill.
WCOH	*†	100	3	Yonkers, N. Y.
WCRW	*	100	4	Chicago, Ill.
WDWF	--	100	5	Providence, R. I.
WEBQ	--	100	6	Harrisburg, Ill.
WEDC	--	100	4	Chicago, Ill.
WGBB	*	100	3	Freeport, N. Y.
WGCM	--	100	---	Gulfport, Miss.
WHBF	--	100	---	Rock Island, Ill.
WHBU	†	100	---	Anderson, Ind.
WJBI	--	100	3	Red Bank, N. J.
WJBU	--	100	1	Lewisburg, Pa.
WJBY	--	50	---	Gadsden, Ala.
WJW	*	100	---	Mansfield, Ohio
WLCI	*	50	---	Ithaca, N. Y.
WLSI	--	100	5	Providence, R. I.
WMBG	--	100	7	Richmond, Va.
WMRJ	*	100	3	Jamaica, N. Y.
WOCL	*	25	---	Jamestown, N. Y.
WOMT	--	100	---	Manitowoc, Wis.
WPAW	*	100	5	Pawtucket, R. I.
WQDX	--	50	---	Thomasville, Ga.
WRBO	†	100	X+	Greenville, Miss.
WRBO	*	100	---	Gastonia, N. C.
WSBC	*	100	4	Chicago, Ill.
WSEN	†	100	---	Columbus, Ohio
WSIX	--	100	---	Springfield, Tenn.
WTAX	--	100	2	Springfield, Ill.

207H		
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Western Ontario "Better Radio" Club
 James S. Neill & Sons, Ltd.
 Chilliwack Broadcasting Co., Ltd.
 G. C. Chandler
 R. L. MacAdam
 Metal Shingle & Siding Co.
 Donald Lewis Hathaway
 KDLR, Inc.
 Howard A. Shuman
 Hirsch Battery & Radio Co.
 J. C. & E. W. Lee
 Cutler's Radio Brdstg. Service, Inc.
 Bryant Radio & Electric Co.
 Dodge City Broadcasting Co.
 James McClatchy Co.
 Pasadena Presbyterian Church
 Hello World Broadcasting Corp.
 Roy. W. Waller
 John H. Stenger, Jr.
 Grace Covenant Presbyterian Church
 H. L. Dewing & Chas. Messter
 Westchester Broadcasting Corp.
 Clinton R. White
 Dutee W. Flint
 First Trust & Savings Bank
 Emil Denemark, Inc.
 Harry H. Carman
 Great Southern Land Co., Inc.
 Beardsley Specialty Co.
 Citizens Bank
 Monmouth Broadcasting Co.
 Bucknell University
 Gadsden Broadcasting Co., Inc.
 Mansfield Broadcasting Assn.
 Lutheran Assn. of Ithaca
 The Lincoln Studios, Inc.
 Havens & Martin, Inc.
 Peter J. Prinz
 A. E. Newton
 Francis M. Kadow
 Shartenburg & Robinson Co.
 Stevens Luke
 J. Pat. Scully
 A. J. Kirby Music Co.
 World Battery Co., Inc.
 Columbus Broadcasting Co.
 638 Tire & Vulcanizing Co.
 WTAX, Inc.

1220 kilocycles 245.8 meters

KFKU	--	1000	1	Lawrence, Kans.
KWSC	--	1000	+	Pullman, Wash.
WCAD	*	500	D	Canton, N. Y.
WCAE	*	1000	N	Pittsburgh, Pa.
WDAE	*	1000	C	Tampa, Fla.
WREN	*	1000	IN	Lawrence, Kans.

15		
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University of Kansas
 State College of Washington
 St. Lawrence University
 Gimbel Bros.
 Tampa Publishing Co.
 Jenny Wren Co.

1230 kilocycles 243.8 meters

KFOD	--	100	---	Anchorage, Alaska
KGGM	--	250	+	Albuquerque, N. Mex.
KYA	--	1000	---	San Francisco, Cal.
KBIS	--	1000	2	Boston, Mass.
WBFB	*	1000	1C	Indianapolis, Ind.
WNAC	*	1000	2C	Boston, Mass.
WPSC	--	500	D	State College, Pa.
WSBT	*	500	1	South Bend, Ind.

207A		
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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

1240 kilocycles 241.8 meters

KTAT	--	1000	1	Ft. Worth, Texas
WACO	†	1000	1	Waco, Texas
WXYZ	†	1000	C	Detroit, Mich.

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S. A. T. Broadcast Co.
 Central Texas Broadcasting Co., Inc.
 Kunsky-Trendle Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1250 kilocycles 239.9 meters

15		
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KFMX	--	1000	2
KFOX	*	1000	---
KIDO	---	1000	---
WAAM	*	1000	1+
WCAL	---	1000	2
WDSU	---	1000	C
WGCP	---	250	1
WGMS	---	1000	2
WLB	---	1000	2
WODA	---	1000	1
WRHM	*	1000	2
---	---	500	CP

Northfield, Minn.
Long Beach, Cal.
Boise, Idaho
Newark, N. J.
Northfield, Minn.
New Orleans, La.
Newark, N. J.
St. Paul, Minn.
St. Paul, Minn.
Paterson, N. J.
Minneapolis, Minn.
Little Rock, Ark.

Carleton College
Nichols & Warinner, Inc.
Boise Broadcasting Station
WAAM, Inc.
St. Olaf College
Jos. H. Uhalt
May Radio Broadcast Corp.
Northwestern Broadcasting Inc.
University of Minnesota
Richard E. O'Dea
Minnesota Broadcasting Corp.
Joseph E. Phelps

1260 kilocycles 238.0 meters

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KOIL	*	1000	C
KRGV	*	500	1
KVOA	---	500	D
KWWG	---	500	1
WLBW	---	500	C+
WTOC	*	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 kilocycles 236.1 meters

WTA		
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KFUM	---	1000	---
KGCA	---	50	2D
KOL	†	1000	3C
KTW	---	1000	3
KWLC	*	100	2D
WASH	---	500	1
WEAI	---	1000	D
WFBR	---	250	---
WJDX	---	500	+N
WOOD	---	500	1

Colorado Springs, Colo.
Decorah, Iowa
Seattle, Wash.
Seattle, Wash.
Decorah, Iowa
Grand Rapids, Mich.
Ithaca, N. Y.
Baltimore, Md.
Jackson, Miss.
Grand Rapids, Mich.

W. D. Corley
Charles W. Greenley
Seattle Broadcasting Co., Inc.
First Presbyterian Church
Luther College
WASH Broadcasting Corp.
Cornell University
Baltimore Radio Show, Inc.
Lamar Life Insurance Co.
Walter B. Stiles, Inc.

1280 kilocycles 234.2 meters

13	WTA	
----	-----	--

CMCE	---	100	1285
KFBB	---	1000	+C
WCAM	---	500	1
WCAP	*	500	1
WDOD	*	1000	+C
WIBA	---	500	---
WOAX	---	500	1
WRR	---	500	C

Havana, Cuba
Great Falls, Mont.
Camden, N. J.
Asbury Park, N. J.
Chattanooga, Tenn.
Madison, Wis.
Trenton, N. J.
Dallas, Texas

Julio E. Power
Bretney Broadcast, Inc.
City of Camden
Radio Industries Broadcast Co.
WDOD Broadcasting Corp.
Capital Times Co.
WOAX, Inc.
City of Dallas

1290 kilocycles 232.4 meters

WTL		
-----	--	--

KDYL	*	1000	C
KFUL	---	500	1
KLNC	*	50	D
KTSA	†	1000	1+C
WEBC	---	1000	+N
WJAS	*	1000	C
WNBZ	---	50	D

Salt Lake City
Galveston, Texas
Blytheville, Ark.
San Antonio, Texas
Superior, Wis.
Pittsburgh, Pa.
Saranac Lake, N. Y.

Intermountain Broadcasting Corp.
Will H. Ford
C. L. Lintzenich
Lone Star Broadcast Co.
Head of Lake Broadcasting Co.
Pittsburgh Radio Supply House
Smith & Mace

1300 kilocycles 230.6 meters

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KFH	---	1000	2C
KFJR	---	500	3
KGEF	*	1000	4
KTBI	*	1000	4
KTBR	---	500	3
WBRR	---	1000	1
WEVD	*	500	1
WHAP	*	1000	1
WHAZ	*	500	1
WIOD	*	1000	N
WOQ	*	1000	2

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 Beach, 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 kilocycles 228.9 meters

WTA		
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KCRJ	†	100	---
KFBK	---	100	---
KFGQ	---	100	7
KFIU	---	10	---
KFJY	§	100	7

Jerome, Ariz.
Sacramento, Cal.
Boone, Iowa
TunEAU, Alaska
Ft. Dodge, Iowa

Chas. C. Robinson
Jas. McClatchy Co.
Boone Biblical College
Alaska Electric Light & Power Co.
C. S. Tunwall

KCYS.
1310
MTRS.
228.9
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

KFPL	--	100	---	Dublin, Texas	C. C. Baxter
KFPF	*	15	---	Greenville, Texas	The New Furniture Co.
KFUP	--	100	8	Denver, Colo.	Fitzsimmons General Hospital
KFXJ	--	50	8XY	Edgewater, Colo.	Western Slope Broadcasting Co.
KFXR	--	100	+	Oklahoma City	Exchange Ave. Baptist Church
KGBX	*	100	---	St. Joseph, Mo.	KGBX Inc.
KGCX	--	100	+	Wolf Point, Mont.	First State Bank of Vida
KGEZ	†	100	C	Kalispell, Mont.	Chamber of Commerce
KGFW	--	100	---	Ravenna, Neb.	O. F. Sothman and R. H. McConnell
KIT	--	50	---	Yakima, Wash.	Carl E. Haymond
KMED	--	50	---	Medford, Ore.	Mrs. W. J. Virgin
KRMD	--	50	9	Shreveport, La.	Robert M. Dean
KTLC	--	100	X	Houston, Tex.	Houston Broadcasting Co.
KTSL	--	100	9	Shreveport, La.	G. A. Houseman
KTSM	--	100	2	El Paso, Texas	W. S. Bledsoe & W. T. Blackwell
KWCR	--	100	7	Cedar Rapids, Iowa	Harry F. Paar
KXRO	†	75	---	Aberdeen, Wash.	KXRO, Inc.
WBOW	*	100	---	Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE	--	100	---	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	*	100	1	Joliet, Ill.	WCLS, Inc.
WDAH	--	100	2	El Paso, Texas	Eagle Broadcasting Co.
WBR	--	100	+	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WEXL	†	50	---	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBC	--	100	3	Altoona, Pa.	Wm. F. Gable Co.
WFDF	--	100	---	Flint, Mich.	Frank D. Fallain
WFKD	--	50	4X	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
WGAL	*	100	5	Lancaster, Pa.	WGAL, Inc.
WGH	*†	100	C	Newport News, Va.	Hampton Roads Broadcasting Corp.
WHAT	--	100	4X	Philadelphia, Pa.	Independence Broadcasting Co.
WIBU	--	100	---	Poynette, Wis.	William C. Forrest
WJAC	--	100	3	Johnstown, Pa.	Johnstown Automobile Co.
WJAK	*	50	6	Marion, Ind.	Marion Broadcasting Co.
WKAV	*	100	---	Laconia, N. H.	Laconia Radio Club
WKBB	--	100	1	Joliet, Ill.	Sanders Bros. Radio Station
WKBC	--	100	---	Birmingham, Ala.	R. B. Broyles Furniture Co.
WKBS	--	100	---	Galesburg, Ill.	Permil N. Nelson
WLBC	†	50	6	Muncie, Ind.	Donald A. Burton
WMBO	†	100	---	Auburn, N. Y.	Radio Service Laboratories
WNBH	*	100	---	New Bedford, Mass.	New Bedford Broadcasting Co.
WOBT	--	100	+	Union City, Tenn.	Tittsworth's Radio & Music Shop
WOL	*†	100	---	Washington, D. C.	American Broadcasting Co.
WRAW	*	50	5XZ	Reading, Pa.	Reading Broadcasting Co.
WROL	--	100	---	Knoxville, Tenn.	Stewart Broadcasting Co.
WSAJ	*	100	---	Grove City, Pa.	Grove City College
WSJS	--	100	---	Winston-Salem, N. C.	Winston-Salem Journal Co.

1320 kilocycles 227.1 meters

KGFH	--	250	X+	Pueblo, Colo.	
KGIO	--	250	1+	Twin Falls, Idaho	C. P. Ritchie & J. E. Finch
KGMB	†	500	---	Honolulu, Hawaii	Radio Broadcasting Corp.
KID	--	500	1+	Idaho Falls, Idaho	Honolulu Broadcasting Co., Ltd.
WADC	†	1000	C	Akron, Ohio	KID Broadcasting Co.
WSMB	*	500	N	New Orleans, La.	Allen T. Simmons
					Seanger Theatre & Maison Blanche Co.



1330 kilocycles 225.4 meters

KGB	*	250	X	San Diego, Cal.	Pickwick Broadcasting Corp.
KSCJ	--	1000	1+C	Sioux City, Iowa	Perkins Bros. Co.
WDRC	--	500	---	New Haven, Conn.	Doolittle Radio Corp.
WSAI	*	500	N	Cincinnati, Ohio	Crosley Radio Corp., Lessee
WTAQ	*†	1000	1	Eau Claire, Wis.	Gillette Rubber Co.
XEC	--	50	1333	Toluca, Mex.	Jesus R. Benavides



1340 kilocycles 223.7 meters

KFPW	--	50	D	Fort Smith, Ark.	
KFPY	--	1000	C	Spokane, Wash.	John Brown Schools
WCOA	--	500	---	Pensacola, Fla.	Symons Broadcasting Co.
WSPD	*	500	C+	Toledo, Ohio	City of Pensacola
					Toledo Broadcasting Co.



1350 kilocycles 222.1 meters

KWK	*	1000	N	St. Louis, Mo.	Greater St. Louis Broadcasting Corp.
WBNY	*	250	1	New York City	Pillar of Fire
WCDA	--	250	1	New York City	Italian Educ. Broadcasting Co., Inc.
WKBQ	--	250	1	New York City	Standard Cahill Co., Inc.
WMSC	--	250	1	New York City	Madison Sq. Garden Brdcastg. Corp.



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1360 kilocycles 220.4 meters

CMKC	*	150	1364	Santiago de Cuba
KGGR	*	1000	4	Long Beach, Cal.
KGIR	--	500	--	Butte, Mont.
KPSN	--	1000	4	Pasadena, Cal.
WCSC	--	500	--	Charleston, S. C.
WFBL	*	1000	C+	Syracuse, N. Y.
WGES	--	500	1+	Chicago, Ill.
WJKS	*	1000	1+	Gary, Ind.
WQBC	--	300	CP	Vicksburg, Miss.

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M. P. Martinez
 C. Merwin Dobyns
 KGIR, Inc.
 Pasadena Star-News
 Jordan & Burk
 Onondaga Radio Broadcasting Corp.
 Oak Leaves Broadcasting Station, Inc.
 Johnson-Kennedy Radio Corp.
 Delta Broadcasting Co., Inc.

1370 kilocycles 218.7 meters

KCRC	†	100	2+	Enid, Okla.
KFBL	--	50	3	Everett, Wash.
KFJI	--	100	--	Astoria, Ore.
KFJM	†	100	--	Grand Forks, N. D.
KFJZ	--	100	X	Ft. Worth, Texas
KFLX	--	100	--	Galveston, Texas
KGAR	*	100	+	Tucson, Ariz.
KGDA	†	100	--	Mitchell, S. D.
KGFG	--	100	2	Oklahoma City
KGFL	--	50	--	Raton, N. M.
KGKL	†	100	--	San Angelo, Texas
KMAC	--	100	5	San Antonio, Tex.
KONO	†	100	--	San Antonio, Texas
KOOS	--	100	--	Marshfield, Ore.
KRE	--	100	6	Berkeley, Cal.
KVL	--	100	3	Seattle, Wash.
KWKC	--	100	--	Kansas City, Mo.
KZM	--	100	6	Hayward, Cal.
WBGF	†	50	--	Glens Falls, N. Y.
WBTM	†	100	7	Danville, Va.
WCBM	--	100	+Z	Baltimore, Md.
WELK	--	100	+	Philadelphia, Pa.
WFDV	--	100	--	Rome, Ga.
WGL	*	100	C	Fort Wayne, Ind.
WHBD	*	100	--	Mount Orab, Ohio
WHBQ	--	100	--	Memphis, Tenn.
WHDF	--	100	--	Calumet, Mich.
WIBF	--	100	1	Jackson, Mich.
WIBM	--	50	1	Detroit, Mich.
WJBK	--	100	+	Lexington, Mass.
WLEY	✓	100	1	Lynchburg, Va.
WLVA	✓	100	7	Tampa, Fla.
WMBR	✓	100	--	Patchogue, N. Y.
WPOE	†	100	--	St. Albans, Vt.
WQDM	*	5	D	Williamsport, Pa.
WRAK	--	5	--	Hattiesburg, Miss.
WRBJ	--	10	--	Wilmington, N. C.
WRBT	--	100	--	Racine, Wis.
WRJN	--	100	--	Buffalo, N. Y.
WSVS	--	50	--	Augusta, Me.
WRDO	§	100	CP	

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Champlin Refining Co.
 Leese Bros.
 KFJI Broadcasters, Inc.
 University of North Dakota
 Estate of H. C. Meachem
 George Roy Clough
 Tucson Motor Service Co.
 Mitchell Broadcasting Corp.
 Oklahoma Broadcasting Co., Inc.
 W. E. Whitmore
 KGKL, Inc., Opr. by Ragsdale Auto
 W. W. McAllister
 Mission Broadcasting Co.
 H. H. Hanseth, Inc.
 First Congregational Church
 KVL, Inc.
 Wilson Duncan Broadcasting Co.
 Leon P. Tenney
 W. N. Parker and H. H. Metcalfe
 Clarke Electric Co.
 Baltimore Broadcasting Corp.
 WELK Broadcasting Station, Inc.
 Dolies Goings
 Fred C. Zieg
 F. P. Moler
 Broadcasting Station WHBQ, Inc.
 Uppr Michigan Broadcasting Co.
 WIBM, Inc.
 James F. Hopkins, Inc.
 Lexington Air Stations
 Lynchburg Broadcasting Corp.
 F. J. Reynolds
 Nassau Broadcasting Corp.
 A. J. St. Antoine
 C. R. Cummins
 Woodruff Furniture Co., Inc.
 Wilmington Radio Association
 Racine Broadcasting Corp.
 Seneca Vocational School
 Albert S. Woodson

1380 kilocycles 217.3 meters

KOH	†	500	--	Reno, Nevada
KQV	†	500	2	Pittsбург, Pa.
KSO	*	500	1	Clarinda, Iowa
WKBH	*	1000	1	La Crosse, Wis.
WSMK	--	200	2	Dayton, Ohio

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Jay Peters
 Doubleday-Hill Electric Co.
 Berry Seed Co.
 WKBH, Inc.
 Stanley M. Krohn, Jr.

KCY5.

1390

MTRS.

215.7

DIAL

1390 kilocycles 215.7 meters

KLRA	--	1000	1C	Little Rock, Ark.
KOY	*	500	--	Phoenix, Ariz.
KUOA	--	1000	1	Fayetteville, Ark.
WHK	*	1000	C	Cleveland, Ohio

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Arkansas Broadcasting Co.
 Nielson Radio & Sporting Goods Co.
 University of Arkansas
 Radio Air Service Corp.

CUT OUT ON
DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1400 kilocycles 214.2 meters

CMBY	--	200	1405	Havana, Cuba
KLO	*	500	X	Ogden, Utah
KOCW	*	250	+	Chickasha, Okla.
WBAA	--	500	1+	Lafayette, Ind.
WBBC	--	500	2	Brooklyn, N. Y.
WCGU	--	500	2	Brooklyn, N. Y.
WCM/	--	500	1	Culver, Ind.
WKBF	*	500	1	Indianapolis, Ind.
WLTH	*	500	2	Brooklyn, N. Y.
WSDA	--	500	2	Brooklyn, N. Y.
WSGH	--	500	2	Brooklyn, N. Y.

CO		
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Lino E. Coscolluela
Peery Building Co.
College for Women
Purdue University
Brooklyn Broadcasting Corp.
U. S. Broadcasting Corp.
General Broadcasting Corp.
Indianapolis Broadcasting, Inc.
The Voice of Brooklyn, Inc.
Paramount Broadcasting Co.
Paramount Broadcasting Co.

1410 kilocycles 212.6 meters

KFLV	†	500	4	Rockford, Ill.
KGRS	--	1000	1	Amarillo, Texas
WBBC	*	500	C	Bay City, Mich.
WDAG	--	250	1X	Amarillo, Texas
WHBL	*	500	4	Sheboygan, Wis.
WLEX	--	500	2	Lexington, Mass.
WMAF	--	500	2	S. Dartmouth, Mass.
WODX	--	500	3	Mobile, Ala.
WRBX	*	250	--	Roanoke, Va.
WSFA	†	500	3	Montgomery, Ala.
WSSH	†	500	2	Boston, Mass.

CO		
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Rockford Broadcasters, Inc.
Gish Radio Service
James E. Davidson
National Radio & Broadcasting Corp.
Press Pub. Co.
Lexington Air Stations
Round Hills Radio Corp.
Mobile Broadcasting Corp.
Richmond Development Corp.
Montgomery Broadcasting Co., Inc.
Tremont Temple Baptist Church

1420 kilocycles 211.1 meters

KBPS	--	100	4	Portland, Ore.
KFIZ	--	100	--	Fond du Lac, Wis.
KFQU	*	100	5X	Holy City, Cal.
KFQW	--	100	--	Seattle, Wash.
KFXD	--	100	XY	Nampa, Idaho
KFX Y	--	100	--	Flagstaff, Ariz.
KFY O	--	100	+	Abilene, Texas
KGFF	--	100	--	Alva, Okla.
KGOC	--	100	5	San Francisco, Cal.
KGIW	--	100	--	Trinidad, Colo.
KGIX	--	100	--	Las Vegas, Nevada
KGKX	--	100	--	Sand Point, Idaho
KICK	*	100	--	Red Oak, Iowa
KLPM	†	100	--	Minot, North Dakota
KORE	--	100	--	Eugene, Ore.
KTAP	\$	100	--	San Antonio, Texas
KXL	--	100	4	Portland, Ore.
KXYZ	--	100	X	Houston, Texas
WEDH	*	30	X	Erie, Pa.
WEHS	--	100	2	Evanston, Ill.
WELL	--	50	X	Battle Creek, Mich.
WFDW	*	100	--	Talladega, Ala.
WHDL	\$	10	D	Tupper Lake, N. Y.
WHFC	--	100	2	Cicero, Ill.
WHIS	†	100	--	Bluefield, W. Va.
WIAS	--	100	--	Ottumwa, Iowa
WIBR	--	50	--	Steubenville, Ohio
WILM	--	100	--	Wilmington, Del.
WJBO	\$	100	--	New Orleans, La.
WKBI	*	100	2	Chicago, Ill.
WLBF	--	100	--	Kansas City, Kas.
WMBC	--	100	X+	Detroit, Mich.
WMBH	--	100	+	Joplin, Mo.
WPAD	†	100	--	Paducah, Ky.
WSPA	*	100	+	Spartanburg, S. C.
WTBO	*	100	--	Cumberland, Md.

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Benson Polytechnic Institute
Reporter Printing Co.
W. E. Riker
KFQW, Inc.
Service Radio Co.
Mary M. Costigan
T. E. Kirksey
KGFF Broadcasting Co.
Golden Gate Broadcasting Co.
Leonard E. Wilson
Las Vegas, Nevada, Radio Corp.
C. E. Twiss and F. H. McCann
Red Oak Radio Corp.
John B. Cooley
Eugene Broadcasting Station
Alamo Broadcasting Co.
KXL Broadcasters, Inc.
Harris County Broadcast Co.
Erie Dispatch-Herald
WEHS, Inc.
Enquirer-News Co.
Raymond G. Hammett
Tupper Lake Broadcasting Co., Inc.
Triangle Broadcasters
Daily Telegraph
Poling Electric Co.
George W. Robinson
Delaware Broadcasting Co., Inc.
Valdemar Jensen
Fred L. Schoenwolf
WLBF Broadcasting Co.
Michigan Broadcasting Co., Inc.
Edwin Dudley Aber
Paducah Broadcasting Co.
Voice of South Carolina
Associated Broadcasting Corp.

1430 kilocycles 209.7 meters

KECA	†	1000	N	Los Angeles, Cal.
KGNF	†	500	D	North Platte, Neb.
WBAC	†	500	1X+	Harrisburg, Pa.
WCAH	†	500	1C	Columbus, Ohio
WGBC	*	500	2	Memphis, Tenn.
WHP	*	500	1CX	Harrisburg, Pa.
WNBR	*	500	2	Memphis, Tenn.

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Pacific Development Radio Co.
Great Plains Broadcasting Co.
Penna. State Police
Commercial Radio Service Co.
Memphis Broadcasting Co.
Pennsylvania Broadcasting Co.
Memphis Broadcasting Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1440 kilocycles 208.2 meters

KLS	*	250	D	Oakland, Cal.
WBAM	*	500	---	Greensboro, N. C.
WBCA	--	250	1	Allentown, Pa.
WHEC	*	500	2C	Rochester, N. Y.
WMBD	--	500	3+	Peoria Heights, Ill.
WOKO	--	500	2	Poughkeepsie, N. Y.
WSAN	--	250	1	Allentown, Pa.
WTAD	--	500	3	Quincy, Ill.

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Warner Bros.
North Carolina Broadcasting Co.
B. B. Musselman
Hickson Electric & Radio Corp.
Peoria Heights Radio Laboratory
Hudson Valley Broadcasting Co.
Allentown Call Publishing Co., Inc.
Ills. Stock Medicine Broadcasting Co.

1450 kilocycles 206.8 meters

KTBS	*	1000	---	Shreveport, La.
WBMS	*	250	---	Hackensack, N. J.
WCOS	*	500	2Y	Springfield, Ohio
WFJC	*	500	2NY	Akron, Ohio
WGAR	--	500	CP	Cleveland, Ohio
WHOM	--	250	1	Jersey City, N. J.
WKBO	*	250	1	Jersey City, N. J.
WNJ	§	250	1	Newark, N. J.
WSAR	--	250	---	Fall River, Mass.
WTFI	--	500	---	Toccoa, Ga.

20	207A	
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Tri-State Broadcasting System, Inc.
WBMS Broadcasting Corp.
WGAR Broadcasting Co.
WGAR Broadcasting Co.
WGAR Broadcasting Co.
New Jersey Broadcasting Corp.
Carnith Corp.
Radio Investment Co.
Doughty & Welch Electric Co., Inc.
Toccoa Falls Institute

1460 kilocycles 205.4 meters

KSTP	*	10000	NX	St. Paul, Minn.
WJSV	*	10000	---	Alexandria, Va.

207A		
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National Battery Broadcasting Co.
Independent Publishing Co.

1470 kilocycles 204.0 meters

KGA	†	5000	---	Spokane, Wash.
WLAC	--	5000	1C	Nashville, Tenn.
WTNT	--	5000	1C	Nashville, Tenn.

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Northwest Broadcasting System, Inc.
Life & Casualty Insurance Co.
Tennessee Publishing Co.

1480 kilocycles 202.6 meters

KFJF	--	5000	C	Oklahoma City
WKBW	*	5000	C	Buffalo, N. Y.

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National Radio Mfg. Co.
Buffalo Broadcasting Co., Lessees

1490 kilocycles 201.2 meters

WCKY	*	5000	1N	Covington, Ky.
WJAZ	--	5000	1	Chicago, Ill.
WORD	--	5000	1	Chicago, Ill.

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L. B. Wilson, Inc.
Zenith Radio Corp.
People's Pulpit Association

1500 kilocycles 199.9 meters

KDB	*	100	---	Santa Barbara, Cal.
KGFI	--	100	+	Corpus Christi, Texas
KGFK	†	50	---	Moorhead, Minn.
KGIZ	--	50	---	Grant City, Mo.
KGKB	--	100	---	Brownwood, Texas
KGKY	--	100	---	Scottsbluff, Nebr.
KPJM	*	100	---	Prescott, Ariz.
KPO	†	50	---	Wenatchee, Wash.
KREG	†	100	---	Santa Ana, Cal.
KUJ	--	100	3Y	Longview, Wash.
KUT	--	100	---	Austin, Texas
KXO	--	100	---	El Centro, Cal.
WCLB	--	100	1	Long Beach, N. Y.
WDIX	--	100	---	Tupelo, Miss.
WKBV	--	100	+	Connersville, Ind.
WBZ	†	50	---	Ludington, Mich.
WLBX	--	100	1	Long Island City, N. Y.
WLQE	*	100	2+	Boston, Mass.
WMBA	--	100	---	Newport, R. I.
WMBJ	†	100	---	Pittsburgh, Pa.
WMBQ	--	100	1	Brooklyn, N. Y.
WMPC	†	100	---	Lapeer, Mich.
WNBf	*	100	---	Binghamton, N. Y.
WOPI	--	100	---	Bristol, Tenn.
WPEN	*	100	+	Philadelphia, Pa.
WRDW	*	100	CP	Augusta, Ga.
WRRL	--	100	1	Woodside, N. Y.
---	---	100	---	Rutland, Vt.

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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
Paul R. Heitmeyer
Rice Hotel
E. R. Irey and F. M. Bowles
Arthur Faske
Blair & Anderson
Knox Battery & Electric Co.
K. L. Ashbacher
John N. Brahy
Boston Broadcasting Co.
LeRoy Joseph Beebe
Rev. J. W. Sproul
Paul J. Gollhofer
First M. P. Church
Hewitt-Wood Radio Co., Inc.
Radiophone Brcdstg. Station, Inc.
Wm. Penn Broadcasting Co.
Warren C. Davenport's Musicove, Inc.
Long Island Broadcasting Corp.
Seward & Weiss Music Co.

KCY.S.
1500
MTRS.
199.9
DIAL

INDEX BY LOCATIONS WITH MAP KEY

ALABAMA		Watts	Keys.			500	KOW	1010
Birmingham O-21	5000	WAPI	1140	San Jose J-1	500	KREG	1500	
	500	WBRC	930	Santa Ana M-3	100	KDB	1500	
	100	WKBC	1310	Santa Barbara M-2	100	KSMR	1200	
Gadsden O-21	50	WJBY	1210	Santa Maria L-2	100	KGDM	1100	
Mobile O-20	500	WODX	1410	Stockton J-2	250	KWG	1200	
Montgomery P-21	500	WSFA	1410		100			
Talladega O-21	100	WFDW	1420					
CANAL ZONE								
				Balboa FF-26	750	NBA	850	
ALASKA								
Anchorage	100	KFQD	1230	COLORADO				
Juneau	10	KFTU	1310	Colorado Springs K-11	1000	KFUM	1270	
Ketchikan	500	KGBU	900	Denver K-11	500	KFEL	920	
ARIZONA								
Flagstaff M-7	100	KFX Y	1420		100	KFUP	1310	
Jerome M-6	100	KCRJ	1310		500	KFXF	920	
Phoenix N-6	500	KOY	1390		1000	KLZ	560	
	500	KTAR	620		12500	KOA	830	
Prescott M-6	100	KPJM	1500	Edgewater K-10	500	KPOF	880	
	100	KGAR	1370	Fort Morgan J-11	50	KFXJ	1310	
Tucson O-7	500	KVOA	1260	Greeley J-11	100	KGEW	1200	
				Gunnison K-9	500	KFKA	880	
				Pueblo L-11	50	KFHA	1200	
				Trinidad L-11	250	KGHF	1320	
				Yuma J-12	100	KGIW	1420	
					50	KGEK	1200	
ARKANSAS								
Blytheville M-19	50	KLCN	1290	CONNECTICUT				
Fayetteville M-16	1000	KUOA	1390	Bridgeport H-27	500	WICC	1190	
Fort Smith N-16	50	KFPW	1340	Hartford H-27	5000	WTC	1060	
Hot Springs N-17	1000	KTHS	1040	New Haven H-27	500	WDRG	1330	
Little Rock N-17	100	KGHI	1200	Storrs H-28	250	WCAC	600	
	250	KGJF	890					
	1000	KLRA	1390					
	500		1250					
Paragould M-18	100	KBTM	1200					
CALIFORNIA								
Berkeley J-2	100	KRE	1370	DELAWARE				
Burbank M-3	500	KELW	780	Wilmington J-26	250	WDEL	1120	
Culver City M-3	250	KFVD	1000		100	WILM	1420	
El Centro N-4	100	KXO	1500	DISTRICT OF COLUMBIA				
Fresno K-2	100	KMJ	1210	Washington J-26	250	WMAL	630	
Hayward J-1	100	KZM	1370		500	WRC	950	
Hollywood M-3	1000	KFWB	950		100	WOL	1310	
	5000	KNX	1050	FLORIDA				
Holy City M-3	100	KFOU	1420	Clearwater R-24	1000	WFLA	620	
Inglewood M-3	500	KMIC	1120	Gainesville Q-24	5000	WRUF	830	
Long Beach M-3	1000	KFOX	1250	Jacksonville Q-24	1000	WJAX	900	
	1000	KGER	1360	Miami T-25	1000	WQAM	560	
Los Angeles M-3	1000	KECA	1430	Miami Beach T-25	1000	WIOD	1300	
	5000	KFI	640	Orlando R-24	500	WDBO	1120	
	500	KFSG	1120	Pensacola Q-21	500	WCOA	1340	
	1000	KGEF	1300	St. Petersburg S-24	1000	WSUN	620	
	100	KGJF	1200	Tampa R-24	1000	WDAE	1220	
	1000	KHJ	900		100	WMBR	1370	
	500	KMPC	710	GEORGIA				
	500	KMTR	570	Atlanta O-22	250	WGST	890	
	500	KTM	780		5000	WSB	740	
	1000	KTBI	1300	Augusta O-23	100	WRDW	1500	
Oakland J-1	250	KLS	1440	Columbus O-22	50	WRBL	1200	
	500	KLX	880	Macon O-23	250	WMAZ	890	
	500	KROW	930	Rome N-22	100	WFDW	1370	
Pasadena M-3	50	KPPC	1210	Savannah O-24	500	WTOC	1260	
	1000	KPSN	1360	Thomasville Q-22	50	WQDX	1210	
Sacramento J-2	100	KFBK	1310	Toccoa N-23	500	WTFI	1450	
San Bernardino M-3	100	KFXM	1210	HAWAII				
San Diego N-3	500	KFSB	600	Honolulu	500	KGMB	1320	
	250	KGJ	1330		1000	KGU	940	
San Francisco J-1	1000	KRFK	610	IDAHO				
	500	KFWI	930	Boise G-5	1000	KIDO	1250	
	100	KGGC	1420	Idaho Falls G-7	500	KID	1320	
	7500	KGO	790	Nampa G-5	50	KFXD	1420	
	100	KJBS	1070	Pocatello H-7	250	KSEI	900	
	5000	KPO	680	Sand Point D-6	100	KGKX	1420	
	1000	KTAB	560	Twin Falls H-6	250	KGIQ	1320	
	1000	KYA	1230					

INDEX BY LOCATIONS WITH MAP KEY

ILLINOIS		Watts	Keys.				
Carthage J-18	50	WCAZ	1070	Ottumwa J-17	100	WIAS	1420
Chicago I-20	10000	KFKX	1020	Red Oak J-16	100	KICK	1420
	10000	KYW	1020	Shenandoah J-16	500	KFNF	890
	500	WAAF	920		500	KMA	930
	25000	WBBM	770	Sioux City I-15	1000	KSCJ	1330
	1000	WCFL	970	Waterloo I-17	500	WMT	600
	100	WCRW	1210	KANSAS			
	100	WEDC	1210	Coffeyville M-16	500	KGGF	1010
	50000	WENR	870	Dodge City L-13	100	KGNO	1210
	500	WGES	1360	Kansas City K-16	100	WLBK	1420
	25000	WGN	720	Lawrence K-16	1000	KFKU	1220
	1000	WIBO	560		1000	WREN	1220
	5000	WJAZ	1490	Manhattan K-15	500	KSAC	580
	25000	WJBT	770	Milford K-14	5000	KFKB	1050
	100	WKBI	1420	Topeka K-16	500	WIBW	580
	5000	WLS	870	Wichita L-15	1000	KFH	1300
	5000	WMAQ	670	KENTUCKY			
	5000	WMBI	1080	Covington K-22	5000	WCKY	1490
	5000	WORD	1490	Hopkinsville M-20	1000	WFW	940
	500	WPCC	560	Louisville L-21	10000	WHAS	820
	100	WIBC	1210		100	WLAP	1200
Cicero I-20	100	WHFC	1420	Paducah M-19	100	WPAD	1420
Decatur K-19	100	WJBL	1200	LOUISIANA			
Evanston I-20	100	WEHS	1420	Haynesville P-17	10		1120
Galesburg J-18	100	WKBS	1310	Monroe P-18	50	KMLB	1200
Harrisburg L-19	100	WEBQ	1210	New Orleans R-19	100	WABZ	1200
Joliet I-19	100	WCLS	1310		1000	WDSU	1250
	100	WKBB	1310		100	WJBO	1420
La Salle J-19	100	WJBC	1200		100	WJBW	1200
Mooseheart I-19	20000	WJJD	1130		500	WSMB	1320
Peoria Heights J-19	500	WMBD	1440		5000	WWL	850
Quincy K-18	500	WTAD	1440	Rayne Q-18	150		1120
Rockford I-19	500	KFLV	1410	Shreveport P-17	50	KRMD	1310
Rock Island I-18	100	WHBF	1210		1000	KTBS	1450
Springfield K-19	100	WCBS	1210		100	KTSL	1310
	100	WTAX	1210		100	KWEA	1210
Tuscola K-20	100	WDZ	1070		10000	KWKH	850
Urbana J-20	250	WILL	890	MAINE			
Zion I-20	5000	WCBD	1080	Augusta F-28	100	WRDO	1370
				Bangor F-29	100	WABI	1200
					500	WLBZ	620
				Portland F-28	1000	WCSH	940
INDIANA				MARYLAND			
Anderson J-21	100	WHBU	1210	Baltimore J-26	10000	WBAL	1060
Connerville K-21	100	WKBV	1500		250	WCAO	600
Culver I-20	500	WCMA	1400		100	WCBM	1370
Evansville L-20	500	WGBF	630		250	WFBR	1270
Fort Wayne J-21	100	WGL	1370	Cumberland J-25	100	WTBO	1420
	10000	WOWO	1160	MASSACHUSETTS			
Gary I-20	1000	WJKS	1360	Boston G-28	1000	WBIS	1230
Hammond I-20	100	WVAE	1200		500	WBZA	990
Indianapolis J-21	1000	WFBM	1230		1000	WEET	590
	500	WKBF	1400		1000	WHDH	830
Lafayette J-20	500	WBAA	1400		100	WLOE	1500
La Porte I-20	100	WRAF	1200		1000	WNAC	1230
Marion J-21	50	WJAK	1310		500	WSSF	1410
Muncie J-21	50	WLBC	1310	Fall River H-28	250	WSAR	1450
South Bend I-20	500	WSBT	1230	Lexington G-28	500	WLEX	1410
Terre Haute K-20	100	WBOW	1310		100	WLEY	1370
					100	WNBH	1310
				New Bedford H-28	100	WNAF	1410
				S. Dartmouth H-28	500	WMAF	990
				Springfield H-27	15000	WBZ	990
				Wellesley Hills G-28	500	WBSO	920
				Worcester G-28	100	WEPS	1200
					100	WORC	1200
					250	WTAG	580

INDEX BY LOCATIONS WITH MAP KEY

MICHIGAN				NEBRASKA			
	Watts		Keys.		Watts		Keys.
Battle Creek I-21	50	WELL	1420	Clay Center	1000	KMMJ	740
Bay City H-22	500	WBCM	1410	Lincoln J-15	5000	KFAB	770
Berrien Springs I-20	1000	WKZO	590		100	KFOR	1210
Calumet E-19	100	WHDF	1370	Norfolk I-15	500	WCAJ	590
Detroit H-22	50	WJBK	1370	North Platte J-13	1000	WJAG	1060
	5000	WJR	750	Omaha J-15	500	KGNF	1430
	100	WMBC	1420		500	WAAW	660
	1000	WWJ	920	Ravenna J-14	1000	WOW	590
East Lansing H-21	1000	WXYZ	1240	Scottsbluff I-11	100	KGFW	1310
Flint H-22	1000	WKAR	1040	York J-15	100	KGKY	1500
	100	WFDL	1310		500	KGBZ	930
	100	WPDL	1200				
Grand Rapids H-21	500	WASH	1270				
	500	WOOD	1270				
Jackson I-21	100	WIBM	1370				
Lapeer H-22	100	WMPC	1500				
Ludington H-20	50	WKBZ	1500				
Royal Oak H-22	50	WEXL	1310				
MINNESOTA				NEVADA			
Fergus Falls F-15	100	KGDE	1200	Las Vegas L-5	100	KGIX	1420
Minneapolis G-17	7500	WCCO	810	Reno I-3	500	KOH	1380
	1000	WDGY	1180				
	500	WHDI	1180				
	1000	WRHM	1250				
Moorhead F-15	50	KGFK	1500				
Northfield G-17	1000	KFMX	1250				
	1000	WCAL	1250				
St. Paul G-17	1000	WGMS	1250				
	1000	WLB	1250				
	10000	KSTP	1460				
MISSISSIPPI				NEW HAMPSHIRE			
Greenville O-19	100	WRBQ	1210	Laconia G-28	100	WKAV	1310
Gulfport Q-19	100	WGCM	1210				
Hattiesburg Q-19	10	WRBJ	1370				
Jackson P-19	500	WJDX	1270				
Meridian P-20	500	WCOC	880				
Tupelo N-20	100	WDIX	1500				
Vicksburg P-18	300	WQBC	1360				
MISSOURI				NEW JERSEY			
Cp. Girardeau L-19	100	KFVS	1210	Asbury Park I-27	500	WCAP	1280
Columbia K-17	500	KFRU	630	Atlantic City J-27	5000	WPG	1100
Grant City J-16	50	KGIZ	1500	Camden I-26	500	WCAM	1280
Jefferson City L-17	500	WOS	630	Hackensack I-27	250	WBMS	1450
Joplin M-16	100	WMBH	1420	Jersey City I-27	300	WAAT	940
Kansas City K-16	1000	KMBC	950		250	WHOM	1450
	100	KWKC	1370		250	WKBO	1450
	1000	WDAF	610	Newark I-27	1000	WAAM	1250
	500	WHB	860		250	WGCP	1250
	1000	WOQ	1300		250	WNJ	1450
St. Joseph K-16	2500	KFEQ	680		5000	WOR	710
	100	KGBX	1310	Paterson I-27	1000	WODA	1250
St. Louis L-18	500	KFUO	550	Red Bank I-27	100	WBI	1210
	100	KFWF	1200	Trenton I-26	500	WOAX	1280
	50000	KMOX	1090				
	500	KSD	550				
	1000	KWK	1350				
	1000	WEW	760				
	100	WIL	1200				
	100	WMAY	1200				
MONTANA				NEW MEXICO			
Billings F-9	1000	KGHL	950	Albuquerque N-7	250	KGGM	1230
Butte F-7	500	KGIR	1360	Raton M-11	50	KGFL	1370
Great Falls E-8	1000	KFBB	1280	State College P-9	20000	KOB	1180
Kalispell D-7	100	KGEZ	1310				
Wolf Point E-11	100	KGCX	1310				
				NEW YORK			
				Auburn H-25	100	WMBO	1310
				Binghamton H-26	100	WNFB	1500
				Brooklyn I-27	500	WBBC	1400
					1000	WBRR	1300
					500	WCGU	1400
					500	WLTH	1400
					100	WMBQ	1500
					500	WSDA	1400
					500	WSGH	1400
				Buffalo H-24	1000	WBEN	900
					100	WEBR	1310
					1000	WGR	550
					5000	WKBW	1480
					1000	WMAK	1040
					50	WSVS	1370
					500	WCAD	1220
					100	WGBB	1210
					50	WGBT	1370
					1000	WBEI	1270
					50	WLCI	1210
					100	WMRJ	1210
					25	WOCL	1210
					100	WLBX	1500
					100	WCLB	1500

INDEX BY LOCATIONS WITH MAP KEY

New York City I-27	5000	WABC	860	OKLAHOMA	Watts		Kcys.
	250	WBNY	1350	Alva M-14	100	KGFF	1420
	250	WCDA	1350	Chickasha N-14	250	KOCW	1400
	50000	WEAF	660	Elk City N-13	100	KGMP	1210
	500	WEVD	1300	Erid M-15	100	KCRC	1370
	250	WGBS	600	Norman N-15	500	WNAD	1010
	1000	WHAP	1300	Oklahoma N-15	5000	KFJF	1480
	250	WHN	1010		100	KFXR	1310
	30000	WJZ	760		100	KGFG	1370
	250	WKBQ	1350	Ponca City M-15	1000	WKY	900
	5000	WLWL	1100	Tulsa M-16	100	WBBZ	1200
	500	WMCA	570		5000	KVOO	1140
	250	WMSG	1350	OREGON			
	500	WNYC	570	Astoria D-2	100	KFJI	1370
	1000	WOV	1130	Corvallis E-2	1000	KOAC	550
	250	WPAP	1010	Eugene F-2	100	KORE	1420
	500	WPCH	810	Marshfield F-1	100	KOOS	1370
	250	WQAO	1010	Medford G-2	50	KMED	1310
	250	WRNY	1010	Portland E-3	5000	KEX	1180
Patchogue I-27	100	WPOE	1370		100	KBPS	1420
Poughkeepsie H-27	500	WOKO	1440		500	KFJR	1300
Rochester G-25	5000	WHAM	1150		1000	KGW	620
	500	WHEC	1440		1000	KOIN	940
Saranac Lake F-26	50	WNBZ	1290		500	KTBR	1300
Schenectady G-27	50000	WGY	790		500	KWJJ	1060
Syracuse G-25	1000	WFBL	1360		100	KXL	1420
	250	WMAC	570	PENNSYLVANIA			
	250	WSYR	570	Allentown I-26	250	WCBA	1440
Troy G-27	500	WHAZ	1300		250	WSAN	1440
Tupper Lake F-26	10	WHDL	1420	Altoona I-25	100	WFBC	1310
Utica G-26	100	WIBX	1200	Carbondale H-26	10	WNBW	1200
Woodside I-27	100	WWRL	1500	Elkins Park I-26	50	WIBG	930
Yonkers I-27	100	WCOH	1210	Erie H-24	30	WEDH	1420
				Grove City I-26	100	WSAJ	1310
NORTH CAROLINA				Harrisburg I-25	500	WBAK	1430
Asheville M-23	1000	WWNC	570		100	WCOD	1200
Charlotte M-24	5000	WBT	1080	Johnstown J-24	500	WHP	1430
Gastonia M-24	100	WRBU	1210	Lancaster I-25	100	WIAC	1310
Greensboro M-24	500	WBAM	1440		100	WGAL	1310
Raleigh M-25	1000	WPTF	680		100	WKJC	1200
Wilmington N-26	100	WRBT	1370	Lewisburg I-26	100	WJBU	1210
Winston-Salem M-24	100	WSJS	1310	Oil City I-24	500	WLBW	1260
				Philadelphia I-26	10000	WCAU	1170
NORTH DAKOTA					100	WELK	1370
Bismarck F-13	500	KFYR	550		500	WFAN	610
Devils Lake E-14	100	KDLR	1210		500	WFI	560
Fargo F-15	1000	WDAY	940		50	WFKD	1310
Grand Forks E-15	100	KFJM	1370		100	WHAT	1310
Mandan F-13	100	KGCU	1200		500	WIP	610
Minot E-13	100	KLPM	1420		500	WLIT	560
					100	WPEN	1500
OHIO					250	WRAX	1020
Akron I-23	1000	WADC	1320	Pittsburgh J-24	50000	KDKA	980
	500	WFJC	1450		500	KOV	1380
Canton I-23	10	WHBC	1200		1000	WCAE	1220
Cincinnati K-22	100	WFBE	1200		1000	WJAS	1290
	1000	WKRC	550	Reading I-26	100	WMBJ	1500
	50000	WLW	700	Scranton H-26	50	WRAW	1310
	500	WSAI	1330		250	WGBI	880
Cleveland I-23	500	WGAR	1450		250	WQAN	880
	1000	WHK	1390	State College I-25	500	WPSG	1230
	500	WJAY	610	Washington J-24	100	WNBO	1200
	50000	WTAM	1070	Wilkes-Barre I-26	100	WBAX	1210
	500	WAIU	640		100	WBRE	1310
Columbus J-22	500	WCAH	1430	Williamsport I-25	50	WRAC	1370
	750	WEOA	570				
	100	WSEN	1210	PORTO RICO			
	200	WSMK	1380	San Juan W-34	500	WKAQ	890
Dayton J-22	100	WJW	1210				
Mansfield J-22	100	WHBD	1370	RHODE ISLAND			
Mount Orab K-22	100	WCOS	1450	Newport H-28	100	WMBA	1500
Springfield J-22	500	WIBR	1420	Pawtucket H-28	100	WPAW	1210
Steubenville J-23	50	WSPD	1340				
Toledo I-22	500	WQBN	570				
Youngstown I-23	500	WALR	1210				
Zanesville J-23	100						

INDEX BY LOCATIONS WITH MAP KEY

Providence H-28	100	WDWF	1210
	250	WEAN	780
	250	WJAR	890
	100	WLSI	1210

SOUTH CAROLINA

Charleston O-25	500	WCSC	1360
Columbia N-24	500	WIS	1010
Spartanburg N-23	100	WSPA	1420

SOUTH DAKOTA

Brookings H-15	500	KFDY	550
Huron H-14	100	KGDY	1200
Mitchell H-14	50	KGDA	1370
Pierre G-13	200	KGFX	580
Rapid City H-12	100	WCAT	1200
Sioux Falls I-15	2000	KSOX	1110
Vermillion I-15	500	KUSD	890
Watertown G-15	100	KGCR	1210
Yankton I-15	1000	WNAX	570

TENNESSEE

Bristol L-23	100	WOPI	1500
Chattanooga N-21	1000	WDOD	1280
Knoxville M-22	50	WFBC	1200
	1000	WNOX	560
	100	WROL	1310
	500	WOAN	600
	500	WGBC	1430
	100	WHBQ	1370
	500	WMC	780
	500	WNBR	1430
	500	WREC	600
	5000	WLAC	1470
	5000	WSM	650
	5000	WTNT	1470
	100	WSIX	1210
	100	WOBT	1310

Lawrenceburg N-20	500	WLAN	1430
Memphis M-19	100	WZLW	1210

Nashville M-20	5000	WLAC	1470
	5000	WSM	650
	5000	WTNT	1470

Springfield M-20	100	WSIX	1210
Union City M-19	100	WOBT	1310

TEXAS

Abilene P-13	100	KFYO	1420
Amarillo N-12	1000	KGRS	1410
	250	WDAG	1410
	100	KUT	1500
Beaumont R-17	500	KFDM	560
Brownsville U-15	500	KWWG	1260
Brownwood P-14	100	KGKB	1500
College Sta. Q-15	500	WTAW	1120
Corpus Christi S-14	100	KGFI	1500
Dallas P-15	10000	KRLD	1040
	50000	WFAA	800
	500	WRR	1280
	100	KFPL	1310
	100	KTSM	1310
	100	WDAH	1310
	100	KFJZ	1370
	1000	KTAT	1240
	10000	WBAP	800
	100	KFLX	1370
	500	KFUL	1290
	15	KFPM	1310
	500	KRGV	1260
	1000	KPRC	920
	500	KTRH	1120
	100	KXYZ	1420
	100	KTLC	1310
	100	KGKL	1370
	100	KMAC	1370
	100	KONO	1370
	100	KTAP	1420
	1000	KTSA	1290
	50000	WOAI	1190
	1000	WACO	1240
	250	KGKO	570

Dublin P-14	100	KFPL	1310
El Paso P-9	100	KTSM	1310
	100	WDAH	1310

Fort Worth P-15	100	KFJZ	1370
	1000	KTAT	1240
	10000	WBAP	800

Galveston R-16	100	KFLX	1370
	500	KFUL	1290

Greenville O-15	15	KFPM	1310
Harlingen T-14	500	KRGV	1260
Houston R-16	1000	KPRC	920
	500	KTRH	1120
	100	KXYZ	1420
	100	KTLC	1310
	100	KGKL	1370
	100	KMAC	1370
	100	KONO	1370
	100	KTAP	1420
	1000	KTSA	1290
	50000	WOAI	1190
	1000	WACO	1240
	250	KGKO	570

San Angelo Q-13	100	KGKL	1370
San Antonio R-14	100	KMAC	1370
	100	KONO	1370
	100	KTAP	1420
	1000	KTSA	1290
	50000	WOAI	1190
	1000	WACO	1240
	250	KGKO	570

Waco Q-15	1000	WACO	1240
Wichita Falls O-14	250	KGKO	570

UTAH

Ogden I-7	500	KLO	1400
Salt Lake City I-7	1000	KDYL	1290
	5000	KSL	1130

VERMONT

	Watts		Kcys.
Burlington F-27	100	WCAX	1200
Rutland G-27	100		1500
St. Albans F-27	5	WQDM	1370
Springfield G-27	10	WNBX	1200

VIRGINIA

Alexandria J-26	10000	WJSV	1460
Arlington J-25	1000	NAA	690
Danville L-25	100	WBTM	1370
Emory L-23	100	WEHC	1200
Lynchburg L-25	100	WLVA	1370
	500		590
Newport News L-26	100	WGH	1310
Norfolk L-26	500	WPOR	780
	500	WTAR	780
Petersburg L-26	100	WLBG	1200
Richmond K-26	100	WBBL	1210
	100	WMBG	1210
	5000	WRVA	1110
	250	WDBJ	930
	250	WRBX	1410

Roanoke L-24	250	WDBJ	930
	250	WRBX	1410

WASHINGTON

Aberdeen D-2	75	KXRO	1310
Bellingham C-3	100	KVOS	1200
Everett C-3	50	KFBL	1370
Lacey D-3	10	KGY	1200
Longview D-3	100	KUJ	1500
Pullman E-5	1000	KWSC	1220
Seattle C-3	100	KFQW	1420
	5000	KJR	970
	1000	KOL	1270
	1000	KOMO	920
	100	KPCB	650
	50	KRSC	1120
	1000	KTW	1270
	100	KVL	1370
	500	KXA	570
	100	KFIO	1120
	1000	KFGY	1340
	5000	KGA	1470
	1000	KHQ	596
	500	KMO	860
	1000	KVI	700
	50	KPQ	1500
	50	KIT	1310

Spokane D-5	100	KFIO	1120
	1000	KFGY	1340
	5000	KGA	1470
	1000	KHQ	596
	500	KMO	860
	1000	KVI	700
	50	KPQ	1500
	50	KIT	1310

Tacoma D-3	500	KMO	860
	1000	KVI	700
	50	KPQ	1500
	50	KIT	1310

Wenatchee D-4	50	KPQ	1500
Yakima D-4	50	KIT	1310

WEST VIRGINIA

Bluefield L-24	100	WHIS	1420
Charleston K-23	250	WOBU	580
Fairmont J-24	250	WMMM	890
Huntington K-23	250	WSAZ	580
Wheeling J-24	5000	WVA	1160

WISCONSIN

Eau Claire G-18	1000	WTAQ	1330
Fond du Lac H-19	100	KFIZ	1420
Green Bay G-19	100	WHBY	1200
Janesville I-19	100	WCLO	1200
La Crosse H-18	1000	WKBH	1380
Madison H-19	750	WHA	940
	500	WIBA	1280
	250	WISJ	780
	100	WOMT	1210
	250	WHAD	1120
	250	WISN	1120
	1000	WTMJ	620
	100	WIBU	1310
	100	WRJN	1370
	500	WHBL	1410
	2000	WLBL	900
	1000	WEBC	1290

WYOMING

Casper H-10	100	KDFN	1210
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INDEX BY LOCATIONS WITH MAP KEY

CANADA			PRINCE EDWARD ISLAND		
	Watts	Keys.		Watts	Keys.
ALBERTA			Charlottetown C-31 250 CFCY 960		
Calgary B-7	500	CFAC 690		30	CHCK 960
	500	CFCN 690	Summerside C-31	100	CHGS 1120
	500	CHCA 690	QUEBEC		
	500	CJ CJ 690	Montreal E-26		
Edmonton A-8	250	CNRC 690		500	CFCF 1030
	500	CHMA 580		5000	CHYC 730
	500	CJCA 930		5000	CKAC 730
	500	CKUA 580		5000	CNRM 730
	500	CNRE 930	Quebec D-27	100	CHRC 880
Lethbridge C-8	50	CJOC 1120		22	CKCI 880
Red Deer A-8	1000	CHCT 840		50	CKCV 880
	1000	CKLC 840		50	CNRQ 880
	1000	CNRD 840	SASKATCHEWAN		
BRITISH COLUMBIA			Fleming C-13 500 CJRW 600		
Chilliwack B-3	5	CHWK 1210	Moose Jaw C-11 500 CJRM 600		
Kamloops B-5	15	CFJC 1120	Pilot Butte 500 CHWC 960		
Sea Island	50	CJOR 1210	Regina C-12 500 CJBR 960		
Vancouver B-3	50	CHLS 730	Saskatoon B-11 500 CKCK 960		
	50	CKCD 730	500 CNRR 960		
	50	CKFC 730	500 CFQC 910		
	50	CKMO 730	500 CNRS 910		
	100	CKWX 730	500 CJGX 630		
	500	CNRV 1030	HAITI		
Victoria C-3	500	CFCT 630	Port au Prince X-30 1000 HHK 920		
MANITOBA			MEXICO		
Brandon D-14	500	CKX 540	Chihuahua, Chih. R-9 250 XFF 920		
Winnipeg D-15	5000	CKY 780	Guadalajara, Jal. X-10 101 XEA 1200		
	5000	CNRW 780	Jalapa, Ver. Y-14 350 XFC 630		
			Juarez, Chih. 101 XEJ 860		
NEW BRUNSWICK			Merida, Yuc. X-19 105 XEY 550		
Fredericton D-29	50	CFNB 1210	Mexico City Y-13 1000 XEB 670		
Moncton D-30	500	CNRA 630	1000 XEN 720		
St. John D-30	50	CFBO 890	101 XEO 980		
			101 XER 1070		
NEWFOUNDLAND			5000 XEW 780		
St. Johns A-35	500	8WMC 720	500 XEX 920		
			500 XEZ 700		
NOVA SCOTIA			60 XFA 540		
Halifax E-31	500	CHNS 930	2000 XFG 640		
	500	CN RH 930	1000 XFI 590		
Louisburg C-32	10000	VAS 690	500 XFX 860		
Sydney C-32	50	CJCB 880	101 XEH 960		
Wolfville D-31	50	CKIC 930	500 XET 630		
ONTARIO			Morelia, Mich. Y-12 101 XEI 1000		
Chatham H-22	100	CFCO 1210	Oaxaca, Oax. AA-14 105 XEF 1130		
Cobalt E-23	15	CKMC 1210	Reynosa, Tams. 10000 XED 960		
Hamilton H-24	10	CHCS 880	Saltillo, Coah. 10 XEL 1090		
	50	CHML 880	Tampico, Tams. 501 XEM 765		
	50	CKOC 880	500 XES 890		
Iroquois Falls F-26	250	CFCF 600	Toluca, Mex. 50 XEC 1330		
Kingston G-25	500	CFRC 930	Veracruz, Ver. 101 XEU 800		
London H-23	1000	CJCG 910	Villahermosa, Tab. 250 XFE 920		
	500	CNRL 910	CUBA		
Midland G-23	50	CKPR 930	Caibarien W-25 250 CMHD 920		
Ottawa F-25	100	CKCO 890	Cienfuegos W-25 200 CMHA 1150		
	500	CNRO 600	Colon W-24 300 CMGA 830		
	50	CFLC 1010	Havana W-23 150 CMCB 1130		
Prescott F-25	25	CKPC 1210	200 CMBY 1405		
Preston G-23	500	CFCA 840	150 CMBZ 1010		
Toronto G-24	500	CFCL 580	500 CMC 840		
	4000	CFRB 960	100 CMCE 1280		
	5000	CJSC 690	250 CMCF 1010		
	500	CKCL 580	1000 CMCQ 950		
	5000	CKGW 690	500 CMI 770		
	500	CKNC 580	2000 CMK 730		
	500	CNRT 840	150 CMO 1130		
	4000	CNRX 960	1000 CMW 588		
	5000	CPR Y 690	250 CMX 900		
Waterloo G-23	50	CKCR 1010	Santiago X-28 150 CMKC 1360		
Wingham G-23	25	10-BP 1200	Tuinucu 500 CMHC 790		
			COSTA RICA		
			San Jose FF-23 50 TIX 750		

CFAC 690	CJRW 600	CMKC 1360	KFDM 560
Calgary, Alta.	Fleming, Sask.	Santiago, Cuba	Beaumont, Tex.
CFBO 890	CJSC 690	CMQ 1130	KFDY 550
St. John, N. B.	Toronto, Ont.	Havana, Cuba	Brookings, S.D.
CFCA 840	CKAC 730	CMW 590	KFEL 920
Toronto, Ont.	Montreal, Que.	Havana, Cuba	Denver, Colo.
CFCF 1030	CKCD 730	CMX 900	KFEQ 680
Montreal, Que.	Vancouver, B.C.	Havana, Cuba	St. Joseph, Mo.
CFCH 600	CKCI 880	CNRA 630	KFGQ 1310
Iroq's Falls, Ont.	Quebec, Que.	Moncton, N. B.	Boone, Iowa
CFCL 580	CKCK 960	CNRC 690	KFH 1300
Toronto, Ont.	Regina, Sask.	Calgary, Alta.	Wichita, Kansas
CFCN 690	CKCL 580	CNRD 840	KFHA 1200
Calgary, Alta.	Toronto, Ont.	Red Deer, Alta.	Gunnison, Colo.
CFCO 1210	CKCO 890	CNRE 930	KFI 640
Chatham, Ont.	Ottawa, Ont.	Edmonton, Alta.	Los Angeles, Cal.
CFCT 630	CKCR 1010	CNRH 930	KFIO 1120
Victoria, B. C.	Waterloo, Ont.	Halifax, N. S.	Spokane, Wash.
CFCY 960	KCKV 880	CNRL 910	KFIU 1310
Ch'lottet'n, P.E.I.	Quebec, Que.	London, Ont.	Juneau, Alaska
CFJC 1120	CKFK 730	CNRM 730	KFIZ 1420
Kamloops, B. C.	Vancouver, B.C.	Montreal, Que.	Fond du Lac, Wis.
CFLC 1010	CKGW 690	CNRO 600	KFJB 1200
Prescott, Ont.	Toronto, Ont.	Ottawa, Ont.	Marshalltown, Ia.
CFNB 1210	CKIK 930	CNRQ 880	KFJF 1480
Fredericton, N.B.	Wolfville, N.S.	Quebec, Que.	Oklahoma City
CFQC 910	CKKL 840	CNRR 960	KFJI 1370
Saskatoon, Sask.	Red Deer, Alta.	Regina, Sask.	Astoria, Ore.
CFRB 960	CKMC 1210	CNRS 910	KFJM 1370
Toronto, Ont.	Cobalt, Ont.	Saskatoon, Sask.	Grd. Forks, N.D.
CFRC 930	CKMO 730	CNRT 840	KFJR 1300
Kingston, Ont.	Vancouver, B.C.	Toronto, Ont.	Portland, Ore.
CHCA 690	CKNC 580	CNRV 1030	KFJY 1310
Calgary, Alta.	Toronto, Ont.	Vancouver, B.C.	Fort Dodge, Ia.
CHCK 960	CKOC 880	CNRW 780	KFJZ 1370
Ch'lottet'n, P.E.I.	Hamilton, Ont.	Winnipeg, Man.	Ft. Worth, Tex.
CHCS 880	CKPC 1210	CNXX 960	KFKA 880
Hamilton, Ont.	Preston, Ont.	Toronto, Ont.	Greeley, Colo.
CHCT 840	CKPR 930	CPRY 690	KFKB 1050
Red Deer, Alta.	Midland, Ont.	Toronto, Ont.	Milford, Kansas
CHGS 1120	KKUA 580	HHK 920	KFKU 1220
Sum'rside, P.E.I.	Edmonton, Alta.	Port au Prince, H.	Lawrence, Kans.
CHLS 730	CKWX 730	KBPS 1420	KFKX 1020
Vancouver, B.C.	Vancouver, B.C.	Portland, Ore.	Chicago, Ill.
CHMA 580	CKX 540	KBTM 1200	KFLV 1410
Edmonton, Alta.	Brandon, Man.	Paragould, Ark.	Rockford, Ill.
CHML 880	CKY 780	KCRC 1370	KFLX 1370
Hamilton, Ont.	Winnipeg, Man.	Enid, Okla.	Galveston, Tex.
CHNS 930	CMBC 1130	KCRJ 1310	KFMX 1250
Halifax, N.S.	Havana, Cuba	Jerome, Ariz.	N'thfield, Minn.
CHRC 880	CMBY 1400	KDB 1500	KFNC 890
Quebec, Que.	Havana, Cuba	S. Barbara, Cal.	Shenandoah, Ia.
CHWC 960	CMBZ 1010	KDFN 1210	KFOR 1210
Pilot Butte, Sask.	Havana, Cuba	Casper, Wyo.	Lincoln, Nebr.
CHWK 1210	CMC 840	KDKA 980	KFOX 1250
Chilliwack, B. C.	Havana, Cuba	KDKA 980	Long Beach, Cal.
CHYC 730	CMCE 1280	KDLR 1210	KFPL 1310
Montreal, Que.	Havana, Cuba	Devils Lake, N.D.	Dublin, Texas
CJBR 960	CMCF 1010	KDYL 1290	KFPM 1310
Regina, Sask.	Havana, Cuba	Salt Lake City	Greenville, Tex.
CJCA 930	CMCQ 950	KECA 1430	KFPV 1340
Edmonton, Alta.	Havana, Cuba	Los Angeles, Cal.	Ft. Smith, Ark.
CJCB 880	CMGA 830	KELW 780	KFPY 1340
Sydney, N.S.	Colon, Cuba	Burbank, Cal.	Spokane, Wash.
CJJC 690	CMHA 1150	KEX 1180	KFQD 1230
Calgary, Alta.	Cienfuegos, Cuba	Portland, Ore.	Anchorage, Alas.
CJJC 910	CMHC 790	KFAB 770	KFQU 1420
London, Ont.	Tuimuc, Cuba	Lincoln, Nebr.	Holy City, Cal.
CJGX 630	CMHD 920	KFBB 1280	KFW 1420
Yorkton, Sask.	Caibarien, Cuba	Great Fls., Mont.	KFW 1420
CJOC 1120	CMJ 770	KFBK 1310	Seattle, Wash.
Lethbridge, Alta.	Havana, Cuba	Sacramento, Cal.	KFR 610
CJOR 1210	CMK 730	KFBL 1370	San F'nisco, Cal.
Sea Island, B.C.	Havana, Cuba	Everett, Wash.	KFRU 630
CJRM 600			Columbia, Mo.
Moose Jaw, Sask.			

KFSD 600 San Diego, Cal.	KGFF 1420 Alva, Okla.	KIDO 1250 Boise, Idaho	KPKM 1500 Prescott, Ariz.
KFSG 1120 Los Angeles, Cal.	KGFG 1370 Oklahoma City	KIT 1310 Yakima, Wash.	KPO 680 San F'nisco, Cal.
KFUL 1290 Galveston, Tex.	KGFI 1500 Corpus Ch'sti, Tex	KJBS 1070 San F'nisco, Cal.	KPOF 880 Denver, Colo.
KFUM 1270 Col. Spgs., Colo.	KGFJ 1200 Los Angeles, Cal.	KJR 970 Seattle, Wash.	KPPC 1210 Pasadena, Cal.
KFUO 550 St. Louis, Mo.	KGFK 1500 Moorhead, Minn.	KLCN 1290 Blytheville, Ark.	KPQ 1500 Wenatchee, Wash
KFUP 1310 Denver, Colo.	KGFL 1370 Raton, N. M.	KLO 1400 Ogden, Utah	KPRC 920 Houston, Texas
KFDW 1000 Culver City, Cal.	KGFW 1310 Ravenna, Nebr.	KLPM 1420 Minot, N. Dak.	KPSN 1360 Pasadena, Cal.
KFWS 1210 Cape Gir'rd'u, Mo	KGFX 580 Pierre, S. D.	KLRA 1390 Little Rock, Ark.	KQV 1380 Pittsburgh, Pa.
KFWB 950 Hollywood, Cal.	KGGC 1420 San F'nisco, Cal.	KLS 1440 Oakland, Cal.	KQW 1010 San Jose, Cal.
KFWF 1200 St. Louis, Mo.	KGGF 1010 Coffeyville, Kans.	KLX 880 Oakland, Cal.	KRE 1370 Berkeley, Cal.
KFWI 930 San F'nisco, Cal.	KGGM 1230 Alb'gr'que, N.M.	KLZ 560 Denver, Colo.	KREG 1500 Santa Ana, Cal.
KFXD 1420 Nampa, Idaho	KGHF 1320 Pueblo, Colo.	KMA 930 Shenandoah, Ia.	KRGV 1260 Harlingen, Texas
KFXF 920 Denver, Colo.	KGHI 1200 Little Rock, Ark.	KMAC 1370 San Antonio, Tex.	KRLD 1040 Dallas, Texas
KFXJ 1310 Edgewater, Colo.	KGHL 950 Billings, Mont.	KMBC 950 Kan. City, Mo.	KRMD 1310 Shreveport, La.
KFXM 1210 San Ber'd'no, Cal.	KGIO 1320 Twin Falls, Ida.	KMED 1310 Medford, Ore.	KROW 930 Oakland, Cal.
KFXR 1310 Oklahoma City	KGIR 1360 Butte, Mont.	KMIC 1120 Inglewood, Cal.	KRSC 1120 Seattle, Wash.
KFXY 1420 Flagstaff, Ariz.	KGIW 1420 Trinidad, Colo.	KMJJ 1210 Fresno, Cal.	KSAC 580 Manh'tt'n, Kans.
KFYO 1420 Abilene, Texas	KGIX 1420 Las Vegas, Nev.	KMLB 1200 Monroe, La.	KSCJ 1330 Sioux City, Ia.
KFYR 550 Bismarck, N.D.	KGIZ 1500 Grant City, Mo.	KMMJ 740 Clay Ctr., Nebr.	KSD 550 St. Louis, Mo.
KGA 1470 Spokane, Wash.	KGJF 890 Little Rock, Ark.	KMO 860 Tacoma, Wash.	KSEI 900 Pocatello, Idaho
KGAR 1370 Tucson, Ariz.	KGKB 1500 Brownwood, Tex.	KMOX 1090 St. Louis, Mo.	KSL 1130 Salt Lake City
KGB 1330 San Diego, Cal.	KGKL 1370 San Angelo, Tex.	KMPC 710 Los Angeles, Cal.	KSMR 1200 Santa Maria, Cal.
KGBU 900 Ketchikan, Al'ka.	KGKO 570 Wichita Flls., Tex	KMTR 570 Los Angeles, Cal.	KSO 1380 Clarinda, Iowa
KGBX 1310 St. Joseph, Mo.	KGKX 1420 Sand Point, Ida.	KNX 1050 Los Angeles, Cal.	KSOO 1110 Sioux Falls, S.D.
KGBZ 930 York, Nebr.	KGKY 1500 Scottsbluff, Nebr.	KOA 830 Denver, Colo.	KSTP 1460 St. Paul, Minn.
KGCA 1270 Decorah, Iowa	KGMB 1320 Honolulu, T. H.	KOAC 550 Corvallis, Ore.	KTAB 560 San F'nisco, Cal.
KGCR 1210 Watertown, S.D.	KGMP 1210 Elk City, Okla.	KOB 1180 State Coll., N.M.	KTAP 1420 San Antonio, Tex.
KGCU 1200 Mandan, N.D.	KGNF 1430 No. Platte, Neb.	KOCW 1400 Chickasha, Okla.	KTAR 620 Phoenix, Ariz.
KGCX 1310 Wolf P't, Mont.	KGNO 1210 Dodge City, Kans.	KOH 1380 Reno, Nevada	KTAT 1240 Ft. Worth, Tex.
KGDA 1370 Mitchell, S. D.	KGO 790 San F'nisco, Cal.	KOIL 1260 Council Bluffs, Ia.	KTBI 1300 Los Angeles, Cal.
KGDE 1200 Ferg's F'lls, Minn	KGRS 1410 Amarillo, Texas	KOIN 940 Portland, Ore.	KTBR 1300 Portland, Ore.
KGDM 1100 Stockton, Cal.	KGU 940 Honolulu, Hawaii	KOL 1270 Seattle, Wash.	KTBBS 1450 Shreveport, La.
KGDY 1200 Huron, S. D.	KGW 620 Portland, Ore.	KOMO 920 Seattle, Wash.	KTHS 1040 Hot Spgs., Ark.
KGFF 1300 Los Angeles, Cal.	KGY 1200 Lacey, Wash.	KONO 1370 San Antonio, Tex	KTLC 1310 Houston, Texas
KGFB 1200 Yuma, Colo.	KHJ 900 Los Angeles, Cal.	KOOS 1370 Marshfield, Ore.	KTM 780 Los Angeles, Cal.
KGFR 1360 Long Beach, Cal.	KHQ 590 Spokane, Wash.	KORE 1420 Eugene, Ore.	KTNT 1170 Muscatine, Iowa
KGFW 1200 Ft. Morgan, Colo.	KICK 1420 Red Oak, Iowa.	KOY 1390 Phoenix, Ariz.	KTRH 1120 Houston, Texas
KGFE 1310 Kalispell, Mont.	KID 1320 Idaho Falls, Ida.	KPCB 650 Seattle, Wash.	KTSA 1290 San Antonio, Tex.

KTSL 1310	Shreveport, La.	WABC 860	New York City	WCAH 1430	Columbus, Ohio	WDEL 1120	Wilmington, Del.
KTSM 1310	El Paso, Texas	WABI 1200	Bangor, Maine	WCAJ 590	Lincoln, Nebr.	WDGY 1180	Minneapolis, Minn.
KTW 1270	Seattle, Wash.	WABZ 1200	New Orleans, La.	WCAL 1250	Northfield, Minn.	WDIX 1500	Tupelo, Miss.
KUJ 1500	Longview, Wash.	WACO 1240	Waco, Texas	WCAM 1280	Camden, N. J.	WDOO 1280	Chattanooga, Tenn.
KUOA 1390	Fayetteville, Ark.	WADC 1320	Akron, Ohio	WCAO 600	Baltimore, Md.	WDRG 1330	N. Haven, Conn.
KUSD 890	Vermillion, S. D.	WAU 640	Columbus, Ohio	WCAP 1280	Asbury Pk., N. J.	WDSU 1250	New Orleans, La.
KUT 1500	Austin, Texas	WALR 1210	Zanesville, Ohio	WCAT 1200	Rapid City, S. D.	WDWF 1210	Providence, R. I.
KVI 760	Tacoma, Wash.	WAPI 1140	Birmingham, Ala.	WCAU 1170	Philadelphia, Pa.	WDZ 1070	Tuscola, Ill.
KVL 1370	Seattle, Wash.	WASH 1270	Gr. Rapids, Mich.	WCAX 1200	Burlington, Vt.	WEAF 660	New York City
KVOA 1260	Tucson, Arizona	WBAA 1400	Lafayette, Ind.	WCAY 1070	Carthage, Ill.	WEAI 1270	Ithaca, N. Y.
KVOO 1140	Tulsa, Okla.	WBAK 1430	Harrisburg, Pa.	WCBH 1440	Allentown, Pa.	WEAN 780	Providence, R. I.
KVOS 1200	Bellingham, Wash.	WBAL 1060	Baltimore, Md.	WCHD 1080	Zion, Ill.	WEAO 570	Columbus, Ohio
KWCR 1310	Cedar Rapids, Ia.	WBAM 1440	Greensboro, N. C.	WCHM 1370	Baltimore, Md.	WEBC 1290	Superior, Wis.
KWEA 1210	Shreveport, La.	WBAP 800	Fort Worth, Tex.	WCHS 1210	Springfield, Ill.	WEBQ 1210	Harrisburg, Ill.
KWG 1200	Stockton, Cal.	WBAX 1210	Wilkes-Barre, Pa.	WCCO 810	Minneapolis, Minn.	WEBR 1310	Buffalo, N. Y.
KWJJ 1060	Portland, Ore.	WBBC 1400	Brooklyn, N. Y.	WCDA 1350	New York City	WEDC 1210	Chicago, Ill.
KWK 1350	St. Louis, Mo.	WBBL 1210	Richmond, Va.	WCFL 970	Chicago, Ill.	WEDH 1420	Erie, Pa.
KWKC 1370	Kansas City, Mo.	WBBM 770	Chicago, Ill.	WCGU 1400	Brooklyn, N. Y.	WEEI 590	Boston, Mass.
KWKH 850	Shreveport, La.	WBBR 1300	Brooklyn, N. Y.	WCCKY 1490	Covington, Ky.	WEHC 1200	Emory, Va.
KWLC 1270	Decorah, Iowa	WBZ 1200	Ponca City, Okla.	WCLB 1500	Long Beach, N. Y.	WEHS 1420	Evanston, Ill.
KWSC 1220	Pullman, Wash.	WBCM 1410	Bay City, Mich.	WCLO 1200	Janesville, Wis.	WELK 1370	Philadelphia, Pa.
KWVG 1260	Brownsville, Tex.	WBEN 900	Buffalo, N. Y.	WCLS 1310	Joliet, Ill.	WELL 1420	Battle Creek, Mich.
KXA 570	Seattle, Wash.	WBGF 1370	Glens Falls, N. Y.	WCMA 1400	Culver, Ind.	WENR 870	Chicago, Ill.
KXL 1420	Portland, Ore.	WBIS 1230	Boston, Mass.	WCOA 1340	Pensacola, Fla.	WEPS 1200	Worcester, Mass.
KXO 1500	El Centro, Cal.	WBMS 1450	Hackensack, N. J.	WCOC 880	Meridian, Miss.	WEVD 1300	New York City
KXRF 1310	Aberdeen, Wash.	WBNY 1350	New York City	WCOB 1200	Harrisburg, Pa.	WEW 760	St. Louis, Mo.
KXYZ 1420	Houston, Texas	WBOW 1310	Terre Haute, Ind.	WCOH 1210	Yonkers, N. Y.	WEXL 1310	Royal Oak, Mich.
KYA 1230	San Francisco, Cal.	WBRC 930	Birmingham, Ala.	WCRW 1210	Chicago, Ill.	WFAA 800	Dallas, Texas
KYW 1020	Chicago, Ill.	WBRE 1310	Wilkes-Barre, Pa.	WCSC 1360	Charleston, S. C.	WFAN 610	Philadelphia, Pa.
KZM 1370	Hayward, Cal.	WBSO 920	Well'Ty'H's, Mass	WCFB 940	Portland, Maine	WFBC 1200	Knoxville, Tenn.
NAA 690	Arlington, Va.	WBT 1080	Charlotte, N. C.	WCSD 1450	Springfield, Ohio	WFBE 1200	Cincinnati, Ohio
NBA 850	Balboa, C. Z.	WBTM 1370	Danville, Va.	WDAE 1220	Tampa, Fla.	WFBG 1310	Altoona, Pa.
TIX 750	San Jose, C. R.	WBZ 990	Springfield, Mass.	WDAF 610	Kansas City, Mo.	WFBL 1360	Syracuse, N. Y.
VAS 690	Louisburg, N. S.	WBZA 990	Boston, Mass.	WDAG 1410	Amerillo, Texas	WFBM 1230	Indianapolis, Ind.
WAAF 920	Chicago, Ill.	WCAC 600	Storrs, Conn.	WDAH 1310	El Paso, Texas	WFBN 1270	Baltimore, Md.
WAAM 1250	Newark, N. J.	WCAD 1220	Canton, N. Y.	WDAY 940	Fargo, N. D.	WDFD 1310	Flint, Mich.
WAAT 940	Jersey City, N. J.	WCAE 1220	Pittsburgh, Pa.	WDBJ 930	Roanoke, Va.	WFDV 1370	Rome, Ga.
WAAW 660	Omaha, Nebr.			WDBO 1120	Orlando, Fla.		

WFDW 1420
Talladega, Ala.
WFI 560
Philadelphia, Pa.
WFIW 940
Hopkinsville, Ky.
WFJC 1450
Akron, Ohio
WFKD 1310
Philadelphia, Pa.
WFLA 620
Clearwater, Fla.
WGAL 1310
Lancaster, Pa.
WGAR 1450
Cleveland, Ohio
WGBB 1210
Freeport, N. Y.
WGBC 1430
Memphis, Tenn.
WGBF 630
Evansville, Ind.
WGBI 880
Scranton, Pa.
WGBS 600
New York City
WGCM 1210
Gulfport, Miss.
WGCP 1250
Newark, N. J.
WGSB 1360
Chicago, Ill.
WGH 1310
Newsp't News, Va.
WGO 1370
Ft. Wayne, Ind.
WGMS 1250
St. Paul, Minn.
WGN 720
Chicago, Ill.
WGR 550
Buffalo, N. Y.
WGST 890
Atlanta, Ga.
WGY 790
Schenec'd'y, N.Y.
WHA 940
Madison, Wis.
WHAD 1120
Milwaukee, Wis.
WHAM 1150
Rochester, N.Y.
WHAP 1300
New York City
WHAS 820
Louisville, Ky.
WHAT 1310
Philadelphia, Pa.
WHAZ 1300
Troy, N. Y.
WHB 860
Kansas City, Mo.
WHBC 1200
Canton, Ohio
WHBD 1370
Mt. Orab, O.
WHBF 1210
Rock Island, Ill.
WHBL 1410
Sheboygan, Wis.
WHBQ 1370
Memphis, Tenn.
WHBU 1210
Anderson, Ind.

WHBY 1200
Green Bay, Wis.
WHDF 1370
Calumet, Mich.
WHDH 830
Boston, Mass.
WHDI 1180
Minneapolis, Minn.
WHDL 1420
Tupper Lake, N.Y.
WHEC 1440
Rochester, N. Y.
WHFC 1420
Cicero, Ill.
WHIS 1420
Bluefield, W. Va.
WHK 1390
Cleveland, Ohio
WHN 1010
New York City
WHO 1000
Des Moines, Ia.
WHOM 1450
Jersey City, N. J.
WHP 1430
Harrisburg, Pa.
WIAS 1420
Ottumwa, Iowa
WIBA 1280
Madison, Wis.
WIBG 930
Elkins Park, Pa.
WIBM 1370
Jackson, Mich.
WIBO 560
Chicago, Ill.
WIBR 1420
Steubenville, O.
WIBU 1310
Poynette, Wis.
WIBV 580
Topeka, Kansas
WIBX 1200
Utica, N. Y.
WICC 1190
Bridgeport, Conn.
WIL 1200
St. Louis, Mo.
WILL 890
Urbana, Ill.
WILM 1420
Wilmington, Del.
WIOD 1300
Miami Beh., Fla.
WIP 610
Philadelphia, Pa.
WIS 1010
Columbia, S. C.
WISJ 780
Madison, Wis.
WISN 1120
Milwaukee, Wis.
WJAC 1310
Johnstown, Pa.
WJAG 1060
Norfolk, Nebr.
WJAK 1310
Marion, Ind.
WJAR 890
Providence, R. I.
WJAS 1290
Pittsburgh, Pa.
WJAX 900
Jacksonville, Fla.
WJAY 610
Cleveland, Ohio

WJAZ 1490
Chicago, Ill.
WJBC 1200
La Salle, Ill.
WJBI 1210
Red Bank, N. J.
WJBK 1370
Detroit, Mich.
WJBL 1200
Decatur, Ill.
WJBO 1420
New Orleans, La.
WJBT 770
Chicago, Ill.
WJBU 1210
Lewisburg, Pa.
WJBW 1200
New Orleans, La.
WJBV 1210
Gadsden, Ala.
WJDX 1270
Jackson, Miss.
WJDD 1130
Mooseheart, Ill.
WJKS 1360
Gary, Ind.
WJR 750
Detroit, Mich.
WJSV 1460
Alexandria, Va.
WJW 1210
Mansfield, Ohio
WJZ 760
New York City
WKAQ 890
San Juan, P. R.
WKAR 1040
E. Lansing, Mich.
WKAU 1310
Laconia, N. H.
WKBB 1310
Joliet, Ill.
WKBC 1310
Birmingham, Ala.
WKBF 1400
Indianapolis, Ind.
WKBH 1380
La Crosse, Wis.
WKBI 1420
Chicago, Ill.
WKBN 570
Youngstown, O.
WKBO 1450
Jersey City, N. J.
WKBQ 1350
New York City
WKBS 1310
Galesburg, Ill.
WKBV 1500
Connersville, Ind.
WKBW 1480
Buffalo, N. Y.
WKBZ 1500
Ludington, Mich.
WKJC 1200
Lancaster, Pa.
WKRC 550
Cincinnati, O.
WKY 900
Oklahoma City
WKZO 590
Be'n Spgs., Mich.
WLAC 1470
Nashville, Tenn.
WLAP 1200
Louisville, Ky.

WLB 1250
St. Paul, Minn.
WLBC 1310
Muncie, Ind.
WLBF 1420
Kansas City, Mo.
WLBG 1200
Ettrick, Va.
WLBL 900
Stevens Pt., Wis.
WLBW 1260
Oil City, Pa.
WLRX 1500
L.I. City, N. Y.
WLBZ 620
Bangor, Me.
WLCI 1210
Ithaca, N. Y.
WLEX 1410
Lexington, Mass.
WLEY 1370
Lexington, Mass.
WLIT 560
Philadelphia, Pa.
WLOE 1500
Boston, Mass.
WLS 870
Chicago, Ill.
WLSI 1210
Providence, R. I.
WLTH 1400
Brooklyn, N. Y.
WLVA 1370
Lynchburg, Va.
WLW 700
Cincinnati, Ohio
WLWL 1100
New York City
WMAC 570
Syracuse, N. Y.
WMAF 1410
S. D'rtm'th, Mass.
WMAK 1040
Buffalo, N. Y.
WMAL 630
Washington, D. C.
WMAQ 670
Chicago, Ill.
WMAZ 1200
St. Louis, Mo.
WMAZ 890
Macon, Ga.
WMB 1500
Newport, R. I.
WMBB 1420
Detroit, Mich.
WMBD 1440
Peoria Hghts., Ill.
WMBG 1210
Richmond, Va.
WMBH 1420
Joplin, Mo.
WMBI 1080
Chicago, Ill.
WMBJ 1500
Pittsburgh, Pa.
WMBK 1310
Auburn, N. Y.
WMBQ 1500
Brooklyn, N. Y.
WMBR 1370
Tampa, Fla.
WMC 780
Memphis, Tenn.
WMCA 570
New York City

WMMN 890	WOV 1130	WROL 1310	WTNT 1470
Fairmont, W.Va.	New York City	Knoxville, Tenn.	Nashville, Tenn.
WMPG 1500	WOW 590	WRR 1280	WTOC 1260
Lapeer, Mich.	Omaha, Nebr.	Dallas, Texas	Savannah, Ga.
WMRJ 1210	WOWO 1160	WRUF 830	WVAE 1200
Jamaica, N. Y.	Ft. Wayne, Ind.	Gainesville, Fla.	Hammond, Ind.
WMSG 1350	WPAD 1420	WKVA 1110	WWJ 920
New York City	Paducah, Ky.	Richmond, Va.	Detroit, Mich.
WMT 600	WPAP 1010	WSAI 1330	WWL 850
Waterloo, Iowa	New York City	Cincinnati, Ohio	New Orleans, La.
WNAC 1230	WPAW 1210	WSAJ 1310	WWNC 570
Boston, Mass.	Pawtucket, R. I.	Grove City, Pa.	Asheville, N. C.
WNAD 1010	WPCG 560	WSAN 1440	WWRL 1500
Norman, Okla.	Chicago, Ill.	Allentown, Pa.	Woodside, N. Y.
WNAX 570	WPGH 810	WSAR 1450	WWVA 1160
Yankton, S. D.	New York City	Fall River, Mass.	Wheeling, W. Va.
WNBF 1500	WPDF 1200	WSAZ 580	WXYZ 1240
Bingh'm't'n, N. Y.	Flint, Mich.	Hunt'gton, W. Va.	Detroit, Mich.
WNBH 1310	WPEN 1500	WSB 740	XEA 1200
New B'd'f'd, Mass.	Philadelphia, Pa.	Atlanta, Ga.	Guadalajara, Jal.
WNBO 1200	WPG 1100	WSBC 1210	XEB 670
Washington, Pa.	Atl'ntic City, N. J.	Chicago, Ill.	Mexico City
WNBR 1430	WPOE 1370	WSBT 1230	XEC 1330
Memphis, Tenn.	Patchogue, N. Y.	South Bend, Ind.	Toluca, Mex.
WNBW 1200	WPOR 780	WSDA 1400	XED 960
Carbondale, Pa.	Norfolk, Va.	Brooklyn, N. Y.	Reynosa, Tams.
WNBX 1200	WPSG 1230	WSEN 1210	XEF 1130
Springfield, Vt.	State College, Pa.	Columbus, Ohio	Oaxaca, Oax.
WNBZ 1290	WPTF 680	WSFA 1410	XEH 960
Saranac'ke, N. Y.	Raleigh, N. C.	Montgomery, Ala.	Monterrey, N. L.
WNJ 1450	WQAM 560	WSGJ 1400	XEI 1000
Newark, N. J.	Miami, Fla.	Brooklyn, N. Y.	Morelia, Mich.
WNOX 560	WQAN 880	WSIX 1210	XEJ 860
Knoxville, Tenn.	Scranton, Pa.	Springfield, Tenn.	Juarez, Chih.
WNYC 570	WQAO 1010	WSJS 1310	XEL 1090
New York City	New York City	Winst.-Sal., N. C.	Saltito, Coah.
WOAT 1190	WQDM 1370	WSM 650	XEM 765
San Antonio, Tex.	St. Albans, Vt.	Nashville, Tenn.	Tampico, Tams.
WOAN 600	WQDV 1500	WSMB 1320	XEN 720
Law'nceb'g, Tenn.	Tupelo, Miss.	New Orleans, La.	Mexico City
WOAX 1280	WQDX 1210	WSMK 1380	XEO 980
Trenton, N. J.	Thomasville, Ga.	Dayton, Ohio	Mexico City
WOBT 1310	WRAF 1200	WSPA 1420	XER 1070
Union City, Tenn.	La Porte, Ind.	Spartanburg, S. C.	Mexico City
WOBU 580	WRAK 1370	WSPD 1340	XES 890
Charlest'n, W. Va.	Williamsport, Pa.	Toledo, Ohio	Tampico, Tamp.
WOC 1000	WRAW 1310	WSSH 1410	XET 630
Davenport, Iowa	Reading, Pa.	Boston, Mass.	Monterrey, N. L.
WOCL 1210	WRAK 1020	WSUI 880	XEU 800
Jamestown, N. Y.	Philadelphia, Pa.	Iowa City, Ia.	Veracruz, Ver.
WODA 1250	WRBJ 1370	WSUN 620	XEW 780
Paterson, N. J.	Hattiesburg, Miss.	St. Peters'g, Fla.	Mexico City
WODX 1410	WRBL 1200	WSVS 1370	XEX 920
Mobile, Ala.	Columbus, Ga.	Buffalo, N. Y.	Mexico City
WOI 640	WRBG 1210	WSYR 570	XEY 550
Ames, Iowa	Greenville, Miss.	Syracuse, N. Y.	Merida, Yuc.
WOKO 1440	WRBT 1370	WTAD 1440	XEZ 700
P'ghkeepsie, N. Y.	Wilmington, N. C.	Quincy, Ill.	Mexico City
WOL 1310	WRBU 1210	WTAG 580	XFA 540
Washington, D. C.	Gastonia, N. C.	Worcester, Mass.	Mexico City
WOMT 1210	WRBX 1410	WTAM 1070	XFC 630
Manitowoc, Wis.	Roanoke, Va.	Cleveland, Ohio	Jalapa, Ver.
WOOD 1270	WRC 950	WTAQ 1330	XFE 920
Gr. Rapids, Mich.	Washington, D. C.	Eau Claire, Wis.	Villahermosa, Tab.
WOPI 1500	WRDO 1370	WTAR 780	XFF 920
Bristol, Tenn.	Augusta, Me.	Norfolk Va.	XFG 640
WOQ 1300	WRDW 1500	WTAW 1120	Mexico City
Kansas City, Mo.	Augusta, Ga.	College Sta., Tex.	XFI 590
WOR 710	WREC 600	WTAX 1210	Mexico City
Newark, N. J.	Memphis, Tenn.	Springfield, Ill.	XFJ 860
WORC 1200	WREN 1220	WTBO 1420	Mexico City
Worcester, Mass.	Lawrence, Kans.	Cumberland, Md.	8WMC 720
WORD 1490	WRHM 1250	WTFI 1450	St. Johns, N. F.
Chicago, Ill.	Minneap., Minn.	Toccoa, Ga.	10BP 1200
WOS 630	WRJN 1370	WTFI 1060	Wingham, Ont.
Jeff'n City, Mo.	Racine, Wis.	Hartford, Conn.	
	WRNY 1010	WTMJ 620	
	New York City	Milwaukee, Wis.	

Principal Broadcasting Stations of the World

Fill in your dial numbers and you will then know where these foreign stations should be received on your set

Kcys.	Call	Watts	City	Country	Kcys.	Call	Watts	City	Country
119			Berlin	Germany	550				
155	RYK	7000	Kovno	Lithuania	[] [] [] [] []				
160	PH9	6200	Huizen	Netherlands	553	SBD	600	Sundsvall	Sweden
162	TNU		Carthage	Tunisia	563		4000	Munich	Germany
166		40000	Lahti	Finland	571	RA30	1000	Dneipropetrovsk	Russia
167		1000	Norddeisch	Germany	571	YLZ	10000	Riga	Latvia
174		13500	Paris	France	580	RA38	1000	Krasnodar	Russia
176	RA43	4000	Kharkov	Russia	580	7ZL	600	Hobart	Australia
187		5000	Angora	Turkey	581		15000	Vienna	Austria
193	SXX	25000	Daventry	Un. Kingdom	590	ON4RB	3600	Brussels	Belgium
202.5		12000	Warsaw	Poland	599	IMI	7000	Milan	Italy
207	RA1	40000	Moscow	Russia	600				
207.5	FL	15000	Paris	France	[] [] [] [] []				
222	SBG	30000	Motala	Sweden	600	CWOW		Montevideo	Uruguay
231	AFT	10000	Berlin	Germany	606	XGZ	500	Nanking	China
240	TUA	500	Tunis	Tunisia	608	LKO	60000	Oslo	Norway
250		100	Tallinn	Estonia	616	OKP	5000	Prague	Czechoslovakia
250		6000	Osmanie	Turkey	620	3AR	1000	Melbourne	Australia
250	SBE	600	Boden	Sweden	625	COTN	500	Tientsin	China
260		7500	Kalundborg	Denmark	625	CMAB	1000	Santiago	Chile
269	RA33	4000	Novorossiask	Russia	625	RA17	1500	Vladivostok	Russia
272	RA57	500	Irkutsk	Russia	626	5GB	25000	Daventry	Un. Kingdom
278	RA67	1200	Malchik	Russia	631	RA43	4000	Kharkov	Russia
279	PCF	1500	Scheveningen	Netherlands	633	EAJ8	1000	San Sebastian	Spain
280	PFB1	7000	Hilversum	Netherlands	635		8000	Langenburg	Germany
285	RA15	500	Sverdllovak	Russia	644	YN	3000	Lyon	France
285	RA49	1200	Erivan	Russia	648	4YA	500	Dunedin	New Zealand
300	RA42	10000	Leningrad	Russia	653		630	Zurich	Switzerland
307	RA40	1200	Odessa	Russia	662	IBZ	200	Bolzano	Italy
316	RA12	1200	Voronezh	Russia	662		500	Klagenfurt	Austria
325	RA39	1200	Gomel	Russia	662	SCT	150	Uppsala	Sweden
333	RA22	1200	Samara	Russia	662	LKP	700	Porsbrund	Norway
343	RA41	1200	Vologda	Russia	662		700	Aix la Chapelle	Germany
345	RA11	4000	Tiflis	Russia	662	EAJ22		Salamanca	Spain
349	RA18	1200	Minsk	Russia	664	RJ5	500	Salvador	Salvador
357	RA13	1800	Nizhni-Novgorod	Russia	665	2FC	2500	Sydney	Australia
366	RA14	4000	Rostov-on-Don	Russia	666	ZTJ	15000	Johannesburg	South Africa
375	RA7	180	Ivanovo Vosnesensk	Russia	667	RA4	300	Moscow	Russia
375	RA9	250	Sevastopol	Russia	667	RA2	500	Moscow	Russia
375		1750	Colombo	Ceylon	671	FPTT	1000	Paris	France
380	RA56	1200	Artemovsk	Russia	671	LKR		Rjukan	Norway
389	SBF	600	Ostersund	Sweden	671	LKA	350	Aalesund	Norway
393	RA46	2000	Petrozovodsk	Russia	674	COHB	1000	Harbin	China
395		250	Geneva	Switzerland	680	IRO	3000	Rome	Italy
397	RA5	1200	Kiev	Russia	685	LT2	1000	LaPlata	Argentina
400	RA8	700	Bogorodsk	Russia	688	SBA	1000	Stockholm	Sweden
400	RA45	4000	Baku	Russia	689	PTB	500	Danzig	Danzig
411	RA77	1200	Stalino	Russia	689	CAB	1000	Canton	China
417	RA47	200	Armavir	Russia	689	CAN	250	Malmberget	Sweden
420	RA27	2000	Tashkent	Russia	689	SCN	1000	Perth	Australia
429	RA26	1000	Astrakhan	Russia	695		2500	Belgrade	Yugoslavia
435	RA44	1200	Tver	Russia	698	JODK	1000	Keijo	Japan
442		600	Lausanne	Switzerland	700				
462	RA16	1200	Vel Ustjuk	Russia	[] [] [] [] []				
469	RA25	1000	Orenburg	Russia	700	CWOA	1000	Montevideo	Uruguay
500					706	LSI	5000	Buenos Aires	Argentina
[] [] [] [] []					706			Sorocaba	Brazil
521	RA34	1000	Kourak	Russia	706	HJN	550	Bogota	Colombia
522		3000	Ljubljana	Yugoslavia	707.6	EAJ7	1500	Madrid	Spain
526	LKH	700	Hamar	Norway	708	JOJK	3000	Kanazawa	Japan
527		1500	Freiburg	Germany	714	RA32	200	Saratov	Russia
535		700	Augsburg	Germany	714	COMK	2000	Mukden	China
535		750	Hanover	Germany	714	JODK	1000	Heijo (Seoul)	Chosen (Korea)
545	RA20	1200	Stavropol	Russia	[] [] [] [] []				
545		20000	Budapest	Hungary	[] [] [] [] []				
545		12000	Bucharest	Rumania	[] [] [] [] []				

Kcys.	Call	Watts	City	Country	Kcys.	Call	Watts	City	Country
717		4000	Berlin	Germany	923		4000	Breslau	Germany
718	2YA	5000	Wellington	New Zealand	930	4RK	2000	Rockhampton	Australia
724		2500	Rabat	Morocco	931	SBB	10000	Goteborg	Sweden
725		750	Dresden	Germany	937	PRAB	500	Rio de Janerio	Brazil
730	5CL	2500	Adelaide	Australia	937	COPK	1000	Peking	China
734		10000	Katowice	Poland	940	2RN	1500	Dublin	Irish Free St.
735		2200	Tartu	Estonia	941		250	Basle	Switzerland
743		1000	Berne	Switzerland	942	CTIAA	1000	Lisbon	Portugal
750	LR7	1250	Buenos Aires	Argentina	949	LR3	1000	Buenos Aires	Argentina
750	PRAA	1000	Rio de Janerio	Brazil	950	2GB	600	Sydney	Australia
750		250	Nairobi	Kenya	950		500	Marseilles	France
750	7LO	2000	Nairobi	Kenya	950		700	Bremen	Germany
750	JOBK	10000	Osaka	Japan	956	K4	250	Tucuman	Argentina
750	EAJ2	750	Madrid	Spain	959		1500	Krakow	Poland
752	SSC	1000	Glasgow	Un. Kingdom	960	5DN	100	Adelaide	Australia
759	JQAK	5000	Dairen	Kwangtung	963.1	F2BD	480	Agen	France
760	LT4	500	Mendoza	Argentina	967.8		2000	Paris	France
760	4QG	2500	Brisbane	Australia	967	PRAP	300	Pernambuco	Brazil
769	JOHK	10000	Sendai	Japan	968	SWA	1000	Cardiff	Un. Kingdom
769		1500	Franfort on Main	Germany	973		700	Zagreb	Yugoslavia
777.2		500	Rheims	France	980	3YA	500	Christchurch	New Zealand
779		500	Wilna	Poland	983.6	PIAA	500	Lisbon	Portugal
779	LKF	700	Fredrikstad	Norway	986		1500	Bordeaux	France
779		8000	Toulouse	France	990	LR4	2000	Buenos Aires	Argentina
788	IGE	1200	Genoa	Italy	995	2BD	1000	Aberdeen	Un. Kingdom
789	ZTD	1000	Durban	South Africa					
789	JOGK	10000	Kumamoto	Japan					
789	LR1	500	Buenos Aires	Argentina					
789	PRAJ	200	Juiz de Fora	Brazil					
789	OAX	1500	Lima	Peru					
789	CWOS	500	Montevideo	Uruguay					
797	2ZY	1000	Manchester	Un. Kingdom					

800

800	ZTC	1000	Cape Town	South Africa	1000	RAZ1	150	Tomsk	Russia
800	3LO	2500	Melbourne	Australia	1000	OPX	1000	LaPaz	Bolivia
804	CMAC	1000	Santiago	Chile	1004	PBFI	7000	Hilversum	Netherlands
806		4000	Hamburg	Germany	1004	SCC	500	Jalun	Sweden
810	JOCK	10000	Nagoya	Japan	1009		200	Jyvaskyla	Finland
810	VUC	3000	Calcutta	India	1010	6ML	300	Perth	Australia
815			Seville	Spain	1013		10000	Tallinn	Estonia
824		2400	Algiers	Algeria	1016	CMAO	250	Santiago	Chile
824	LKB	1000	Bergen	Norway	1022		500	Limoges	France
825	F8GC	1500	Paris	France	1023	OKK	2500	Kosice	Czechoslovakia
825.3	8DB	100	Algiers	Algeria	1025	2UE	50	Sydney	Australia
828	LR5	2000	Buenos Aires	Argentina	1029.9	YR	500	Lyon	France
831	JOIK	10000	Sapporo	Japan	1030		750	Vipuri	Finland
833		4000	Stuttgart	Germany	1030	LR9	2000	Buenos Aires	Argentina
833	PRAE	1000	Sao Paulo	Brazil	1031	ITO	7000	Turin	Italy
840	G5	250	Venado Tuerto	Argentina	1034	CMAJ	100	Valparaiso	Chile
840	VUB	3000	Bombay	India	1040	6BM	1000	Bournemouth	Un. Kingdom
842	2LO	30000	London	Un. Kingdom	1040	6LV	130	Liverpool	Un. Kingdom
849	JOFK	10000	Hiroshima	Japan	1040	2DE	130	Dundee	Un. Kingdom
851		7000	Graz	Austria	1040	2EH	350	Edinburgh	Un. Kingdom
855	2BL	2500	Sydney	Australia	1040	6KH	130	Hull	Un. Kingdom
857	ZBW	1500	Victoria Peak	Hong Kong	1040	SPY	130	Plymouth	Un. Kingdom
857	PRAD	500	Rio de Janerio	Brazil	1040	2LS	130	Leeds & Bradford	Un. Kingdom
857	CWOR	500	Montevideo	Uruguay	1040	6FL	130	Sheffield	Un. Kingdom
860	EAJ1	7500	Barcelona	Spain	1040	6ST	130	Stoke on Trent	Un. Kingdom
869			Cairo	Egypt	1040	5SX	130	Swansea	Un. Kingdom
869	JOAK	10000	Tokyo	Japan	1049	2ZF	150	Palmerston	New Zealand
870	LR2	3000	Buenos Aires	Argentina	1049		200	Montpellier	France
877	OKB	2500	Brunn	Czechoslovakia	1050	D5		Bahia Blanca	Argentina
882	E4	350	Azul	Argentina	1058		500	Innsbruck	Austria
887	KRC	250	Shanghai	China	1059		2000	Berlin	Germany
887	ON4GT	100	Brussels	Belgium	1059			Magdeburg	Germany
895	XGY	250	Hangchow	China	1059		750	Stettin	Germany
896		1500	Poznan	Poland	1059	SCU	300	Varberg	Sweden
					1067		1000	Copenhagen	Denmark
					1070	EAR5	500	Las Palmas	Canary Isl's
					1071	PRAR	500	Sao Paulo	Brazil
					1071	CRC	500	Tientsin	China
					1075	OKR	12500	Bratislava	Czechoslovakia
					1076	L55	1000	Buenos Aires	Argentina
					1080		200	Caen	France
					1086		4000	Konigsberg	Germany
					1090	LT3	1500	Rosario	Argentina
					1091		250	Angers	France

900

900	1YA	500	Auckland	New Zealand
900	JFAK	1000	Taihoku	Japan
905.2	INA	1500	Naples	Italy
905.2		500	Paris	France
909	LR6	1000	Buenos Aires	Argentina
909			Cairo	Egypt
914.1		1500	Grenoble	France

1100

1103		1500	Rennes	France
1110		4000	Kaiserslautern	Germany
1110	SCF	150	Hudiksvall	Sweden

Kcys.	Call	Watts	City	Country
1110	SCO	250	Norrkoping	Sweden
1112	LS4	1000	Buenos Aires	Argentina
1121	EAJ13	10000	Barcelona	Spain
1125	2UW	100	Sydney	Australia
1129	SCQ	250	Trollhattan	Sweden
1130	.....	500	Lille	France
1147	ZZM	160	Gisborne	New Zealand
1148	SNO	1000	Newcastle	Un. Kingdom
1149	LR8	1500	Buenos Aires	Argentina
1150	2LO	30000	London	Un. Kingdom
1153	PRAC	500	Rio de Janerio	Brazil
1155	2MK	50	Bathurst	Australia
1157	.....	3000	Gleiwitz	Germany
1167	SBH	10000	Horby	Sweden
1169	CWON	200	Montevideo	Uruguay
1175	MRD	1500	Toulouse	France
1180	3DB	100	Melbourne	Australia
1184	.....	4000	Leipzig	Germany
1188	1ZQ	.....	Auckland	New Zealand
1190	LS2	1000	Buenos Aires	Argentina
1193	EAJ18	200	Almeria	Spain
1199	3ZC	250	Christchurch	New Zealand
1199.5	5000	Bordeaux	France
1199	PRAG	500	Porto Alegre	Brazil

1200

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1200	500	Toulon	France
1200	SKA	200	Adelaide	Australia
1211	SCI	200	Kalmas	Sweden
1219	.....	250	Juan les Pins	France
1219	ON4RW	200	Liege	Belgium
1219	ON4RG	400	Ghent	Belgium
1219	.....	750	Kassel	Germany
1219	.....	.....	Abo	Finland
1219	.....	1500	Bjorenborg (Por)	Finland
1219	.....	750	Jakobstad	Finland
1219	SCL	200	Kiruna	Sweden
1220	SCB	200	Eskestuna	Sweden
1220	SCP	400	Saffle	Sweden
1220	.....	500	Linz	Austria
1224	CMAQ	100	Santiago	Chile
1229	.....	1000	Trondhjem	Norway
1238	2BE	1000	Belfast	Un. Kingdom
1245	2NC	2000	Newcastle	Australia
1254	.....	1000	Nuremberg	Germany
1256	.....	500	Nimes	France
1260.4	.....	5000	Bordeaux	France
1265	SCV	200	Orebro	Sweden
1270	LS3	1000	Buenos Aires	Argentina
1287	G4	560	Rafaela	Argentina
1292	700	Kiel	Germany

1300

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1301	SCB	600	Malmo	Sweden
1301	SCG	200	Helsingborg	Sweden
1301	SCS	200	Umea	Sweden
1304	.....	.....	Schaerbeck	Germany
1309	SCA	150	Boras	Sweden
1313	.....	250	Biarritz	France
1319	.....	1500	Muenster	Germany
1319	.....	4000	Cologne	Germany
1330	PRAO	1000	Sao Paulo	Brazil
1330	J2	400	Concordia	Argentina
1337	6CK	1000	Cork	Irish Free St.
1344	LOAA	10000	Luxemburg	Luxemburg
1351	LS7	1000	Buenos Aires	Argentina
1357	.....	10000	Helsingfors	Finland
1363.6	.....	250	St. Etienne	France
1364.3	.....	1500	Beziers	France
1373	SCW	200	Ormskoeldsvik	Sweden
1373	.....	500	Flensburg	Germany
1375	SCK	250	Karlstad	Sweden
1388	ON4CE	200	Chatelaineau	Belgium
1390	SCE	200	Halmstad	Sweden

Kcys.	Call	Watts	City	Country
1400				
1410	D4	100	Mar del Plata	Argentina
1428	LS6	1000	Buenos Aires	Argentina
1470	SCD	200	Gavle	Sweden
1471	1500	Ludwigshaven	Germany
1481	SCM	250	Kristinehamn	Sweden
1484	SCH	250	Jonkoping	Sweden

1500

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1500	2LS	130	Leeds & Bradford	Un. Kingdom
1530	SCJ	250	Karlskrona	Sweden
1560	G2SH	Akureyri	Iceland
1635	AFT	10000	Berlin	Germany
2000	RA51	350	Leningrad	Russia
2000	RA72	800	Smolensk	Russia
2142	.....	500	Surabaya	Netherland
2998	.....	1500	Manaos	Brazil
3088	.....	2000	Sono	Denmark
3446	.....	2500	Haiphong	French Indo
3529.4	H9XD	.....	Zurich	Switzerland
3750	F8AV	.....	Nogent-sur-Seine	France
3998	PKIAA	500	Batabia	Netherland
4262.3	F8GC	1500	Paris	France
4434	.....	.....	Doberitz	Germany
5169	OK1MPI	5000	Prague	Czecho-
5170	IBR	1000	Bandoeng	slovakia
5290	AGJ	.....	Nauen	Netherland
5552	AFT	10000	Berlin	East Indies
5879	AIN	.....	Casablanca	Germany
5996	PK2AF	500	Djokjakarta	Morocco
5996	3ZC	250	Christchurch	Netherland
6005	HRB	2300	Tegucigalpa	East Indies
6057	.....	500	Lynghy	New Zealand
6662	PH3CH	250	Surabaya	Honduras
6666	7IRAX	.....	Rome	Denmark
6877	.....	2500	Rabat	Netherland
7005	8KR	.....	Constantine	Italy
7055	V53AB	.....	Johore	Morocco
7260	V5IAB	.....	Singapore	Tunisia
7313	PK6KZ	500	Makassar	Brit. Malaya
7317.1	.....	2000	Paris	Brit. Malaya
7462.7	YR	500	Lyon	Netherland
7590	JFAB	.....	Taipeh	East Indies
7963	.....	.....	Doberitz	France
7995	JHBB	.....	Hirasio	France
8818	.....	.....	Para	Japan
8995	.....	500	Reykjavik	Germany
9225	2BL	1000	Sydney	Japan
9369	ZTJ	15000	Johannesburg	Brazil
9369	3LO	1000	Melbourne	Iceland
9375	.....	1000	Berne	Australia
9375	H9XD	.....	Zurich	South Africa
9375	FL	15000	Paris	Australia
9488	.....	500	Lynghy	Switzerland
9640	7LO	1000	Nairobi	France
9761	F2BD	480	Agen	Denmark
9772	EAM	.....	Madrid	Kenya
9994	LGN	.....	Bergen	France
10520	2FC	1000	Sydney	Spain
10520	2ME	.....	Sydney	Norway
11760	SAS	.....	Karlsborg	Australia
12490	SQBE	.....	Bahia	Sweden
15300	.....	500	Lynghy	Brazil
17430	AGC	.....	Nauen	Denmark
17640	PLF	.....	Malabar	Germany
17778	PHI	40000	Huizen	Netherland
19355	.....	.....	Nancy	East Indies
59964	PK4PA	240	Palembang	Netherland

HOW TO TUNE A SET CORRECTLY

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

ALL 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 supplementary.

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

Tune in some station—any 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. In 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 keys. Frequency by the Federal Radio Commission. We also 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 kilocycles (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 hearing, let us say, WOS at Jefferson City. Proceed as before in ascertaining the frequency of WOS. This we find to be 630 keys. 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 keys, 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 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 in power. But knowing 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 they should not interfere.

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.

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

KJJO	1000	Spokane, Wash.	76	74
WEJL	500	Lincoln, Neb.		
WELI	500	Boston, Mass.		
WEMC	1000	Berrien Springs, Mich.		

600 kilocycles 497.2 meters

EGGH	250	Fresquito Falls, Ont.	75	73
KFOU	500	Laramie, Wyo.		
KEFD	500	San Diego, Calif.		
WCAO	250	Baltimore, Md.		
WVIR	250	Yonkers, N.Y.		
WLAN	500	Lynchburg, Tenn.		
WVTV	250	Norfolk, Va.		
WVIC	250	Hartford, Conn.		

610 kilocycles 491.5 meters

EFRC	1000	San Francisco, Calif.	74	72
WDFP	1000	Kansas City, Mo.		
WFLAN	250	Philadelphia, Pa.		
WFR	500	Philadelphia, Pa.		
WFO	1000	Kansas City, Mo.		

620 kilocycles 483.6 meters

RFAD	500	Phoenix, Ariz.	73	71
WCVW	1000	Portland, Ore.		
WHPF	1000	Tampa, Fla.		
WJUP	1000	Indianapolis, Ind.		
WTMJ	1000	Milwaukee, Wis.		

630 kilocycles 475.9 meters

EGCT	250	Victoria, B. C.	72	70
EGCX	500	Yorkton, Sask.		
CHSA	500	Moncton, N. B.		
CYS	250	Massillon, Miss.		
KEBU	500	Beaumont, Miss.		
WGRF	500	Evansville, Ind.		
WMAE	250	Washington, D. C.		
WOS	500	Jefferson City, Mo.		

640 kilocycles 468.5 meters

KFI	5000	Los Angeles, Calif.		
WALU	5000	Columbus, Ohio		

650 kilocycles 461.3 meters

WSM	5000	Nashville, Tenn.	70	68
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660 kilocycles 454.3 meters

WAW	500	Omaha, Neb.	69	67
WEAF	50000	New York City		

670 kilocycles 447.5 meters

WMAO	5000	Chicago, Ill.	68	66
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680 kilocycles 440.9 meters

KFO	5000	San Francisco, Cal.	67	65
WPTF	5000	Raleigh, N. C.		

76 74

Louis Warner, Inc.
Nebraska Wesleyan University
Kilgus Elec. Illuminating Co.
Woodmen of the World
Edgewood Normal College

75 73

Arnold Paper & Paper Co.
Bishop N. S. Pomeroy
Alford College
Ministerial Radio Co., Inc.
Irish College
Vaughan School of Music
W&L, Inc.
Travlers Insurance Co.

74 72

Don Lee, Inc.
Kansas City Star Co.
Espey Broadcasting Co., Inc.
Global Film, Inc.
Unity School of Christianity

73 71

Electrical Equipment Co.
Orion Printing Co.
Thompson Publishing Co.
Butler College, Inc.
Thomas E. Courtney
Star-Week Journal

72 70

Victoria Broadcasting Ass'n.
Ministerial Union Exchange
Canadian National Railway
Eastern James
St. James College
Evangelical Air, Inc.
M. A. Lerer Co.
State Marketing Bureau

Earle G. Anthony, Inc.
American Insurance Union

70 68

National Life & Accident Ins. Co.

69 67

Omaha Grain Exchange
National Broadcasting Co., Inc.

68 66

Chicago Daily News, Inc.

67 65

Miles from A. The Chronicle
Burham Life Insurance Co.

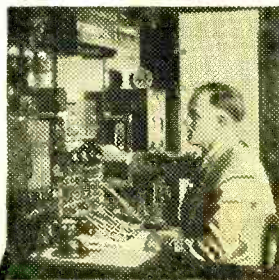
I Will Train You at Home

to fill a

BIG PAY



Radio Job!



I will give you my new 8 OUTFITS of RADIO PARTS for a home Experimental Laboratory

Here's Proof

\$100 a week
 "Only earnings in Radio are many times greater than I ever expected they would be when I enrolled. They seldom fall under \$100 a week."
E. F. WINSTONE,
 1414 W. 45th St.,
 Norfolk, Va.

Jumped from \$35 to \$100 a week
 "Before I enrolled Radio I was making \$35 a week. Last week I earned \$110 repairing and selling Radios, one my success to N. R. I."
J. A. VAUGHN
 8715 S. Kingshighway,
 St. Louis, Mo.

\$500 extra in 6 months
 "I had I made \$500 from January to May in my spare time. My best week brought me \$100. I should have taken it long ago."
HOYT MOORE
 P. O. 3, Box 819,
 Indianapolis, Ind.

If you are earning a penny less than \$50 a week, send for my book of information on the opportunities in Radio. It is free. Clip the coupon NOW. Why be satisfied with \$25, \$30 or \$40 a week for longer than the short time it takes to get ready for Radio.

Radio's growth opening hundreds of \$50, \$75, \$100 a week jobs every year

In about ten years Radio has grown from a \$2,000,000 to a \$1,000,000,000 industry. Over 600,000 jobs have been created. Hundreds more are being opened every year by its continued growth. Men and young men with the right training—the kind of training I give you—are needed continually.

You have many jobs to choose from

Broadcasting stations use engineers, operators, station managers and pay \$1,500 to \$5,000 a year. Manufacturers continually need testers, inspectors, foremen, engineers, service men, buyers, for jobs paying up to \$15,000 a year. Shipping companies use hundreds of Radio operators, give them world wide travel at practically no expense and a salary of \$85 to \$200 a month. Dealers and jobbers employ service men, salesmen, buyers, managers, and pay \$50 to \$100 a week. There are many other opportunities too.

So many opportunities many N. R. I. men make \$5 to \$25 a week extra while learning

The day you enroll with me I'll show you how to do 10 jobs, common in most every neighborhood, for spare time money. Throughout your course I send you information on serviceable popular makes of sets; I give you the plans and ideas that are making \$200 to \$1,000 for hundreds of N. R. I. students in their spare time while studying.

Talking Movies, Television, Wired Radio are also included

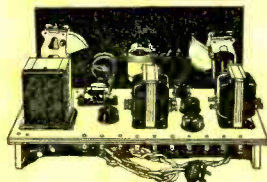
Radio principles as used in Talking Movies, Television and home Television experiments, Wired Radio, Radio's use in Aviation, are all given. I am so sure that I can train you satisfactorily that I will agree in writing to refund every penny of your tuition if you are not satisfied with my Lessons and Instruction Service upon completing.

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J. E. SMITH, President
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 Washington, D. C.

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 Back view of 8 tube Screen Grid A. C. tuned Radio frequency set—one of many circuits you can build with my outfits.



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