

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 _____

No. 44

HOW TO ADD A TONE CONTROL

N. S. E.

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.

The December RADEX will have a Christmas and New Year greeting right on the front cover—just fill in your own and your friend's names and there is the finest kind of a holiday card and one that will give pleasure for months.



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The Christmas number of RADEX, or
The Radio Map of North America.

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A leatherette cover for RADEX or Map.

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The next five issues of RADEX.

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Next five issues of RADEX, Map and Cover, or
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For \$3.50:

Two subscriptions of 10 issues (or one subscrip-
tion of 20 issues) with Cover and two Maps.

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 IN DEX

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

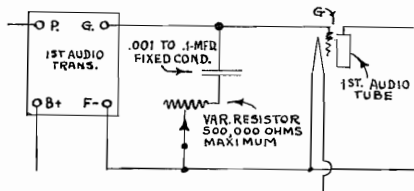


FIG. 1.

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

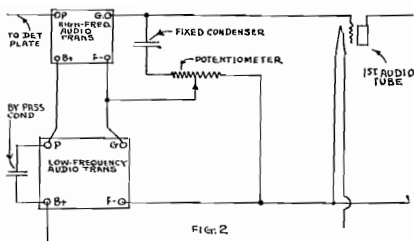
The Why and the How of It

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, squalking 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 scriber 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.

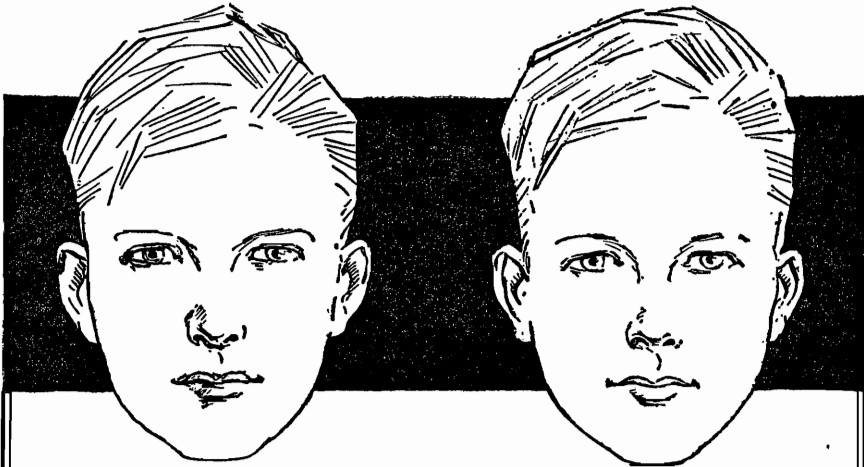
Another correspondent, Leon V. Garland, 216 West Franklin St., El Segundo, Calif., writes that he knows that his was the name referred to as heading the list of members of one of the stamp exchanges, but he says, "Although I have a number of Ekko stamps and have sold a number to parties wanting them, 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, and 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 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 radiotician 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 Console 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."

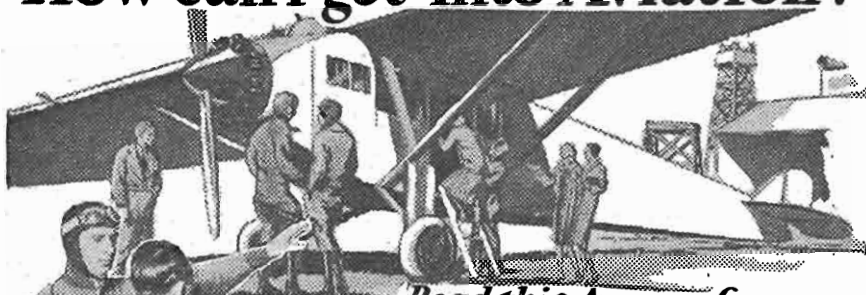
"Have logged from one to 36 stations from all the states except Maine and New Hampshire, so far I have never heard them," says O. C. Arnold, RFD 4, North Topeka, Kansas.

"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 kcys. 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 Kyelectron 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

TO succeed in Aviation—to make BIG MONEY—it is not necessary to be a pilot. There will have to be thousands of pilots, of course. But for every plane that flies, there's an immediate need for forty trained men to fill important jobs right on the ground. There have to be construction, motor and instrument experts—managers, service foremen, salesmen—and skilled craftsmen of almost every kind. All of these jobs pay big money—all of them are stepping stones to still bigger money. Aviation offers more opportunity for good starting salaries and rapid advancement than any other field. It's the world's fastest-growing industry. And NOW, while there are plenty of places on the "ground floor"—is the time to get into it.

Walter Hinton

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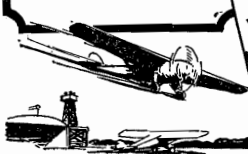
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Aviation Institute of U. S. A., Inc.,
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Send at once my FREE copy of your book, "Wings of Opportunity."

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



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 keys., 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 station 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 WEFW 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 WEFW 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 kcys.?" 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 kcys. 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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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 kcys. 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 kcys. Their letterhead and RADEX both show them on 900 kcys., 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 Kolojay, 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

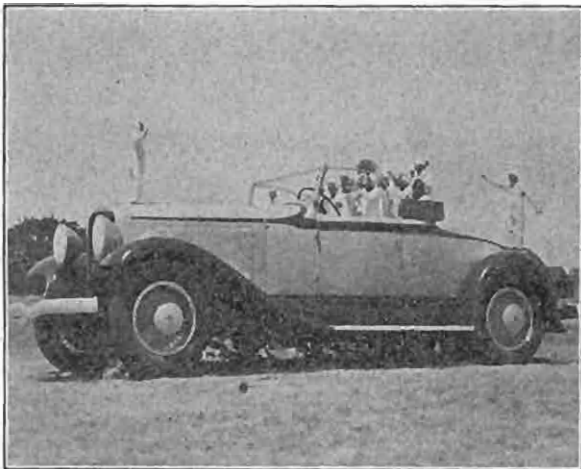
They Wanted a Hard One

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. Kuehnle, 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
YBMC RKWJKSD
CMW Y WLW
W W OAC W W
WGCMC KFKXO
J S WWG B C
WHB O WOW
KFS DWKYRBTk
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 15½ 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
 Obey 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:

- | | |
|--|--------|
| <input type="checkbox"/> One Radio Map of North America..... | 25c |
| <input type="checkbox"/> One copy of the next RADEX..... | 25c |
| <input type="checkbox"/> Trial subscription, next five issues of RADEX..... | \$1.00 |
| <input type="checkbox"/> One year's subscription to RADEX, 10 issues, and Radio Map free..... | 1.75 |
| <input type="checkbox"/> Two subscriptions to RADEX with one leatherette cover and Radio Map, both free..... | 3.50 |
| <input type="checkbox"/> Leatherette Cover..... | .50 |
| <input type="checkbox"/> 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—Bismarck, 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

(RX)

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 Hammett-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 Gardiner); Mrs. Pennyfeather (Mrs. Adeline Thomson); Prof. Weems (Ray Knight); Fellock 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

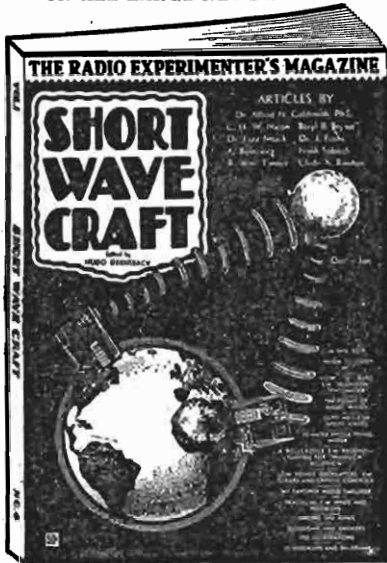
"I would like to know what distance to expect in the daytime," writes Richard W. Herzer, 338 Kingsway, Winnipeg, Man. "Here in Winnipeg the farthest we get with volume enough for programs, is Fargo, N. D., and Bismarck, 200 and 250 miles away, respectively. The farthest I have picked up with headphones 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
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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

City State

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; KNT, 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 Hassock 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-----	W8XK	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....	CJR X	11,720 (25.6)	2000	James Richardson & Sons, Ltd.

N--National

KEY TO CHAIN STATIONS

C--Columbia

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	WJJD 1090 C	WOWO 1160 C
CKGW 690 N	KPO 680 N	WBT 1080 C	WFRL 1360 C	WJZ 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	KSFP 1460 N	WCAU 1170 C	WGN 720 N	WLAC 1470 C	WRR 1280 C
KFJF 1480 C	KTAR 620 N	WCCO 810 C	WGR 550 C	WLBW 1260 C	WRYA 1110 N
KFKX 1020 N	KTHS 1040 N	WCFL 970 N	WGST 890 C	WLBZ 620 C	WSAI 1330 N
KFPY 1340 C	KTRE 1120 C	WCFY 1490 N	WGY 790 N	WLIB 720 N	WSB 740 N
KFRC 610 C	KTSA 1290 C	WCSH 940 N	WHAM 1150 N	WLIT 560 N	WSM 550 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	WML 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 780 C
KLZ 560 C	WAIU 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	WERC 1290 N	WJAR 890 N	WOAI 1130 N	WWJ 920 N
KOIL 1260 C	WBBM 770 C	WEEL 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 WEAF 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
 WEAF CKGW WCAE WEEI WFI WBEN
 WGY WRC

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

8:30-9:00 Cheerio
 WEAF CKGW KPRC KSTP WAPI WCAE
 WKCY WCSH WDAF WEEI WFI WFLA
 WBEN WGY WHAS WIBO 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 WIBC WFAA WHAS WHO
 WKY WLS WMC WOAI WOC WOW

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

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

11:15-11:30 Radio Household Institute
 WEAF KFKX KPRC KSD KSTP KTHS
 KVOO WAPI WCAE WCSH WECB WEEI
 WBEN WGY WHAS WJAR WKY WLIT
 WMC WOAI WRC WSAI WSB WSM
 WSMB WTAG WTAM WTMJ WWJ

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

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

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

1:30-2:00 Harold Stern and Ambassador Orchestra
 WABC KFKJ KFPY WADC WAIU WBCM
 WBRC WCAO WDBJ WDOD WEAN WFAN
 WGR WHEC WJAS WKRC WLAC WLBZ
 WMAL WORC WOWO WSPD WTAR WWNC
 WXYZ

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

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

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

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

6:45-7:00 Uncle Abe and David
 WEAF KSD WAPI WCAE WCSH WDAF
 WECB WEEI WENR WFI WFJC WGY
 WHAS WHO WJAR WIDX WMC WOC
 WOW WRC WSAI WSB WSM WSMB
 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 WKY
 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 WBRC WCAO WCAU
 WCCO WDAY WDBJ WDOD WEAN WFBM
 WIBW WISN WLWB WLBZ 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 WIDX WMAQ
 WMC WOAI WREN WSB WSM WSMB
 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
 WEAF KGO KSD KSL WCAE WDAF
 WHAS WHO WIBO WOC WOW WTAM
 WWJ

1:30-2:00 Conclave of Nations

WABC KFPY KLZ KMBC KMOX KSCJ
KVI WAU WBCM WBR 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 WBZA WBEBC WFAA
WFLA WHAM WHAS WIOD WJAX
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 WLBZ 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 KGO KGW
KOA KSL KTHS KVOO KWK WBAL
WBZ WBZA WFAA WFLA WIOD WJAX
WDX WJR WLS WLW WOAI WPTF
WREN WRVA WSB WSUN

3:00-5:00 New York Philharmonic Orchestra

WABC KDYL KFH KFJF KFPY KFRC
KJH KLZ KMBC KMOX KRLD KSCJ
KVI WADC WAU WBCM WBR WCAO
WCAU WCCO WDAY WDBJ WDOD WEAN
WFBM WHEC WHP WIBW WISN WJAS
WKBN WKRC WLAC WLBW WLBZ WMAQ
WMT WNAC WORC WWOV 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 KVLB WCAE WCHS WDAF
WBCB WEEI WFAA WFJC WFLA WBN
WHAS WHO WIBO 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 WKWB WKRC WMAL WMAQ
WNAC WOWO WXYZ

5:00-6:00 Davey Hour

WEAF CKGW KSD WCHS WGY WHO
WJAR WOC WOW WRC WSAI WTAG

5:00-6:00 National Vespers

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

5:30-6:00 The French Trio

KDYL KFJF KFPY KLZ KMBC KSCJ
KVI WADC WBR WCCO WDAY WDBJ
WDOD WEAN WFBM WHP WIBW WJAS
WKBN WLBW WLBZ 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 KTAR
KVOO KYW WPAB WCAE WCHS WDAF
WBCB WEEI WFJC 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 Ident Big Brother Club

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

7:30-8:00 Williams Orlomatics

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

7:35-8:30 Major Bowes' Family

WEAF KSD KSTP WCAE WCHS 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 WLBW WLBZ 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 KTAR KTHS KVOO KWK KYW
WAPI WBZ WBZA WCKY WBEBC 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 WCHS WDAF WBEBC WFJC WFLA
WGY WHAS WHO WIBO WIOD WJAR
WJDX WKY WLIT WMC WOAI WOC
WOW WRC WSAI WSB WSB WSM
WSUN WTAG WTAM WTC WTMJ WWJ
WBN

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

WEAF KSD WCAE WCHS WBEBC WEEI
WFAA WFJC WFLA WGY WHAS WHO
WIOD WJAR WJDX WKY WLIT WMC
WOAI WOC WOW WPTF WRC WSAI
WSB WSM WSMB WSUN WTAG WTC

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

WABC KFAB KCAC KDYL KFH KFJF
KFPY KFRC KHJ KLR KZ KMBC
KOIL KOIN KOL KRLD KTA KVI
WADC WBBM WBR WBT WCAO WCAU
WCCO WDBJ WDEL WDOD WDSU WEAN
WFBM WFBM WHK WIBW WISN WJAS
WKBN WKRC WLAC WLBW WLBZ 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 KLR KLZ KMBC
KMOX KOIL KOL KRLD KSCJ WADC
WBCM WBR WCAO WCCO WDAY WDBJ
WDOD WEAN WFBM WHEC WIBW WISN
WJAS WKBW WKRC WLAC WLBW WMAL
WMT WNAC WNAX WORC WREC WSPD
WTAR WWNC WXYZ

10:00-10:30 Toscha Seidel and Orchestra

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

10:15-10:45 Studebaker Champions

WEAF KFI KGO KGW KHQ KOA
KOMO KSTP WCAE WCHS WDAF WBEBC
WEEI WFI WGN WBN WGY WJAR
WOW WRC WTAG WTAM WTC WTMJ
WWJ

10:30-11:00 Around the Samovar

WABC WADC WCAO WCAU WDBJ WEAN
WHEC WHK WJAS WKBN WLBW WLBZ

WMAL WNAC WORC WPG WSPD WTAR
 WXYZ
10:30-11:00 **Low White, Organist**
 WJZ CKGW KDKA KWK WBZ WBZA
 WHAM WJAX WJDX WJR WREN WRVA
10:45-11:15 **Sunday at Seth Parker's**
 WEAJ CKGW KFSD KGO KGW KHQ
 KOA KOMO KPFC KSTP KTAR KYW
 WCAE WCHS WDAF WEEC WEEI WFI
 WFJC WBEN 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 WDOD
 WFBM WHEC WIBW WISN WKBN WKRC
 WMAL WMT WNAX WPG WREC WTAR
 WXYZ
11:03-12:00 **Russian Cathedral Choir**
 WEAJ CKGW KOA KSTP WBAP WEEC
 WFJC WBEN WGY WHAS WIOD WOW
 WRC WSB WTAM WWJ

Monday

3:00-3:30 **Phil Napoleon and His Band**
 WJZ KDKA KPFC KWK WBAL WBZ
 WBZA WHAM WREN WSB WSM
3:30-4:00 **Sixteen Singers**
 WEAJ CKGW KSD KSTP WBEN 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 KFRC KHJ
 KLZ KMBC KMOX KOL KRLD KSCJ
 KVI WADC WAIU WBCM WBRB WCAO
 WCAU WCCO WDAY WDBJ WDOD WEAN
 WGR WHEC WIBW WISN WKRC WLAC
 WLBZ WMAL WMT WNAC WORC WPG
 WREC WSPD WTAR WNNC WXYZ
4:30-5:00 **Wardman Park Hotel Orchestra**
 WABC KDYL KFJF KFPY KFRC KLZ
 KMBC KMOX KOL KRLD KSCJ KVI
 WADC WAIU WBCM WBRB WCAO WCCO
 WDAY WDBJ WDOD WEAN WGR
 WHP WIBW WISN WLAC WLBZ WMAL
 WMT WNAC WORC WPG WREC WSPD
 WTAR WNNC WXYZ
6:00-6:30 **Mormon Tabernacle Choir**
 WJZ CKGW KDKA KFAB KFSD KGO
 KGW KOA KOMO KPO KSL KSTP
 KTAR KWK WAPI WBAL WHAS WLW
 WRC WSM
6:00-6:30 **WSPD Commodores**
 WABC KFJF KFPY KFRC KLRA KLZ
 KOL KRLD WAIU WBBM WBCM WBRB
 WCCO WDAY WDBJ WDOD WFAN WFBL
 WHP WKBW WLBW WMAL WMT WREC
 WSPD WTAR WNNC
7:00-7:15 **Current Events**
 WABC KFH KFJF KFPY KFRC KLZ
 KOL KSCJ KVI WBCM WCAU WDAY
 WDBJ WDOD WFBM WHEC WHP WIBW
 WISN WJAS WLBW WLBZ WMAL WMT
 WORC WREC WSPD WTAR WNNC WXYZ
7:30-8:00 **Colonial Beaconsights**
 WEAJ WBEN WCHS WEEI WGY WJAR
 WTAG
7:45-8:00 **Anheuser-Busch Program**
 KFJF KLRA KMBC KMOX KOIL KRLD
 KTRH WAIU WDOD WDSU WFBM WHK
 WMAQ WMT WREC WSPD WXYZ
7:45-8:30 **Rozy'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**
 WEAJ KECA KFSD KGO KGW KOA
 KOMO KPFC KSD KVOO KYW WCAE

WDAF WFJC WFLA WHAS WHO WIOD
 WJAR WJAX WJDX WKY WOAI WOC
 WOW WPTF WRC WSAI WSMB WSUN
 WTAG WTIC WWJ
8:15-8:30 **Mardi Gras**
 WABC KDYL KFJF KFPY KFRC KMBC KRLD
 KSCJ WADC WBCM WCCO WDAY WDBJ
 WDOD WEAN WGR WIBW WISN WJAS
 WKRC WLAC WLBW WLBZ WMAL WMAQ
 WNAC WNAX WORC WTAR WNNC WXYZ
8:30-9:00 **Ingram Shavers**
 WJZ CKGW KDKA KFAB KOA KPFC
 KTHS KVOO KWK KYW WBZ WBZA
 WEEC WFAA WFLA WHAS WIOD WJAX
 WJR WKY WLW WMC WOAI WREN
 WRVA WSB WSM WSMB WSUN WTMJ
8:30-9:00 **Arabesque**
 WABC KFJF KFPY KLRA KMOX KOIL
 KRLD WBCM WCCO WDAY WDBJ WDOD
 WEAN WFBL WGR WJAS WKRC WLBW
 WMAL WMAQ WMT WNAC WNAX WORC
 WREC WNNC WXYZ
8:30-9:30 **A & P Gypsies**
 WEAJ KSD WCAE WCHS WDAF WEEI
 WGN WBEN 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 KPFC KSL KSTP KTHS
 KVOO KWK KYW WBZ WBZA WCKY
 WEEC WHAM WJDX WJR WKY WMC
 WOAI WREN WSB WSM WSMB
9:00-9:30 **Minneapolis-Honeywell Symphony Hour**
 WABC KMBC KMOX KOIL WADC WBBM
 WBT WCAO WCAU WCCO WEAN WFBL
 WHK WISN WJAS WKBW WKRC WLBW
 WMAL WNAC WOWO WPG WSPD WXYZ
9:30-10:00 **Chesebrough Real Folks**
 WJZ CKGW KDKA KWK KYW WBZ
 WBZA WHAM WJR WLW WREN
9:30-10:00 **Bourjous—Evening in Paris**
 WABC KDYL KFJF KFPY KFRC KHJ
 KLZ KMBC KMOX KOIL KOIN KOL
 KRLD WADC WBBM WBT WCAO WCAU
 WCCO WDSU WEAN WFBL WGST WHK
 WJAS WKBW WKRC WLBW WMAL WNAC
 WOWO WPG WSPD WXYZ
9:30-10:00 **General Motors Family Party**
 WEAJ KECA KFI KGO KGW KHQ
 KOA KOMO KPFC KSD KSL KSTP
 WCAE WCHS WDAF WEEI WFAA WGN
 WBEN WGY WHAS WHO WJAR WJAX
 WKY WLIT WMC WOAI WOC WOW
 WRC WSAI WSB WSM WTAG WTAM
 WTIC WTMJ WWJ
10:00-10:30 **Robert Burns Panatela Program**
 WABC KDYL KFJF KFPY KFRC KHJ
 KLZ KMBC KMOX KOIL KOIN KOL
 KRLD KTRH KTSa KVI WADC WBT
 WCAO WCAU WCCO WEAN WFBL 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 KPFC KTR KWK
 KYW WAPI WBZ WBZA WCKY WDBJ
 WFLA WHAM WHAS WIOD WJAX WJDX
 WJR WKY WMC WOAI WREN WRVA
 WSB WSM WSMB WSUN
10:00-10:30 **Adventures of Sherlock Holmes**
 WEAJ WCAE WCHS WEEI WGN WJAR
 WLIT WRC WSAI WTAG WTAM WWJ
10:30-11:00 **Empire Builders**
 WJZ KDKA KECA KFSD KGO KGW
 KHQ KOA KOMO KPFC KSL KSTP
 KTAR KWK KYW WBAP WBZ WBZA
 WEEC WHAM WJR WKY WLW WOAI
 WREN WTMJ
10:30-11:00 **American Maize Program**
 KDYL KFPY KFRC 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**
 WEAF WCAE WCSH WDAF WEEI WJAR
 WJDX WMC WOV 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 WBRG WCAO
 WCCO WDAY WDBJ WDOD WFBM WIBW
 WISN WLBW WLZB WMAL WMT WNAX
 WORC WPG WREC WTAR WWNC WXYZ

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

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

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

12:00-1:00 **Phil Spitalny and His Orchestra**
 WEAF 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
 KVGO KWK WBZ WBZA WHAM WJR
 WKY WLW WOAI WREN

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

4:00-4:30 **Italian Idyll**
 WABC KDYL KFJF KFPY KFCR KLZ
 KMBC KMOX KRLD KSCJ KVI WADC
 WAUI WBCM WBRG WCAO WCAU WCCO
 WDBJ WDOD WEAN WHK WIBW WISN
 WKRC WLAC WLZB WMAL WMT WNAC
 WORC WOV WPG WREC WTAR WWNC
 WXYZ WGR

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

5:00-5:15 **Rhythm Kings**
 WABC KDYL KFH KFJF KLZ KMBC
 KMOX KRLD KSCJ WAUI WBCM WBRG
 WCAO WCCO WDOD WFBM WHP WISN
 WKBN WLZB WMAL WMT WREC WTAR
 WWNC WXYZ WGR

7:15-7:45 **Musical Aviators Orchestra**
 KFH KFJF KFPY KFCR KLRA KLZ
 KOIL KRLD KSCJ WAUI WBRG WCCO
 WDAY WDBJ WDOD WFBL WGR WEHC
 WHP WIBW WISN WJAS WKRC WLAC
 WLBW WMT WORC WREC WTAR WWNC
 WXYZ

7:30-8:00 **Soconyland Sketches**
 WEAF WBEN WCSH WEEI WGY WJAR
 WTAG

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

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

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

8:30-9:00 **Florsheim Frolic**
 WEAF KOA KPRC KSD KSL KSTP
 KTHS KVGO WBAP WCAE WCSH WDAF
 WEBC WFI WFLA WGN WBEN 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 WDDB WDSU WEAN WFBL WGST
 WHK WJAS WKBW WKRC WLAC WLWB
 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 WLWB WMAL WNAC WOWO WSPD
 WXYZ WBN

9:00-9:30 **Eveready Program**
 WEAF 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**
 WEAF KECA KGO KGW KHQ KOA
 KOMO KPRC KSD KSL KSTP KVGO
 WBAP WCAE WCSH WDAF WEBC WEEI
 WFI WFJC WBN WGN WGY WHAS WHO
 WIBO WJAR WJDX WKY WMC WOC
 WOW WRC WRVA WSAI WSB WSMB
 WTAG WTAM WTMJ WWJ

9:30-10:00 **Philo's Symphony Concert**
 WABC CFRB KFH KFJF KMBC KMOX
 KOIL KRLD KTRH KTSa WADC WBRG
 WBT WCAO WCAU WCCO WDOD WDSU
 WEAN WFBL WFBM WGST WEHC WHK
 WISN WJAS WKBW WKRC WLAC WLWB
 WMAL WMAQ WMT WNAC WOWO WPG
 WREC WSPD WTAR WXYZ

10:00-10:15 **Enna Jettick Songbird**
 WEAF KSD WCAE WCSH WDAF WEEI
 WFI WFJC WBN WGN 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 KFCR
 KHJ KLRA KLZ KMBC KMOX KOIL
 KOIN KOL KRLD KTRH KTSa KVI
 WADC WAUI WBBM WBRG WBT WCAO
 WCAU WCCO WDBJ WDSU WEAN WFBL
 WFBM WGST WEHC WHK WISN WJAS
 WKBN WKBW WKRC WLAC WLWB WMAL
 WNAC WOWO WPG WREC WSPD WTAR
 WWNC WXYZ

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

10:15-11:00 **Paramount Public Radio Playhouse**
 WABC CFRB KDYL KFH KFJF KFPY
 KFRC KHJ KLRA KSL 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
 WEHC WHK WHP WIBW WISN WJAS
 WKBN WKBW WKRC WLAC WLWB WLZB
 WMAL WMT WNAC WNAX WOWO WPG
 WQAM WREC WRR WSPD WTAR WTOC
 WWNC WXYZ

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

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

11:00-11:30 Will Osborne and His Orchestra
WABC KFH KFJF KFPY KLRA KMBC
KOIL WBCM WCAO WDAY WDBJ WDOJ
WFBL WGR WHEC WHP WIBW WISN
WLBW WMT WNAK 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 WJDX WMC
WOW WSAI WSB WSM WTMJ WWJ

11:30-12:00 Vincent Lopez and His Orchestra
WEAF CKGW KOA KSTP WFI WHO
WJDX WOC WOV 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 WERC
WEEL 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 Synopacted Silhouettes
WABC KDYL KEJF KFPY KLZ KMBC
KSCJ KVI WADC WAU WBCM WBRK
WCAO WCAU WCCO WDAY WDBJ WDOJ
WGR WHEC WHK WHP WIBW WISN
WKBN WKRC WLAC WLWB 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 WAU WBCM WBRK WCAO WCCO
WDAY WDOJ WFN WFLB WGR WHP
WISN WLWB 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 KEJF KFPY KPRC KHL KLZ
KOL KSCJ KVI WAU WBCM WBRK
WCAU WDAY WDBJ WDOJ WFBM WHEC
WIBW WISN WJAS WKRC WLWB WLZ
WMAL WMT WNAK WORC WREC WSPD
WTAR WWNC

7:15-7:30 Rhythm Ramblers
KFJF KFPY KPRC KLRA KLZ KSCJ
WAU WBCM WBRK WDBJ WDOJ WFBM
WIBW WISN WJAS WKBW WLWB WMAL
WMT WNAK WORC WTAR WWNC WXYZ

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

7:45-8:00 Back of the News in Washington
WEAF KECA KFSK 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 WBRK
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
WBRK WCCO WDAY WDBJ WDOJ WEAN
WFBL WGR WIBW WISN WJAS WLAC
WMAL WMT WNAK WORC WREC WSPD
WTAR WWNC WXYZ

8:30-9:00 Burbig's Synopacted History
WABC KFH KFJF KFPY KFRC KLRA
KRLD KSCJ WADC WBCM WDAY WDBJ
WDOJ WEAN WFBL WFBM WGR WHEC
WIBW WISN WJAS WLAC WMAL WMAQ
WMT WNAK WNAK WORC WPG WREC

8:30-9:00 Luden Balalajika 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 WBY 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 KFBC KFH KFJF KFPY
KFRK KHJ KLZ KMBC KMOX KOIL
KOL KRLD KSCJ WADC WBBM
WBT WCAO WCAU WCCO WDBJ WEAN
WFBL WFBM WHK WISN WJAS WKBW
WKRK WLAC WLAP WLWB WMAL WNAC
WOWO WPG WREC WSPD WTAR WXYZ

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

9:30-10:30 Palmolive Hour
WEAF KECA KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP KVOO
WAPI WCAE WCHS WDAF WEEI WFAA
WGN WBN WBY 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
WHK WISN WJAS WKBW WKRC WLWB
WMAL WNAC WOWO WPG WREC WSPD
WXYZ

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

10:30-11:00 Coca Cola Program
WEAF KECA KECA KFSK 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 WOAI WOC WOW
WRC WRVA WSAI WSB WSMB WTAG
WTAM WTIC WWJ

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

11:30-12:00 California Melodies
 WABC KFJ KFPY KHJ KMBC KSCJ
 WBCM WBCM WCAO WCCO WDBJ WDOD
 WEAN WFBM WHEC WHK WIBW WISN
 WKBN WKRC WLBW WMAL WMT WNAC
 WNAX WORC WREC WTAR WWNC WXYZ

Thursday

9:45-10:00 Our Daily Food
 WEAJ CKGW KPRC KSD KVOO WAPI
 WBAP WBEN WCAE WCSH WDAF WBCB
 WFLA WGY WHAS WHO WIOD WJAR
 WJDX WKY WLW WMC WOAI WOC
 WPTF WRC WRVA WSAI WSB WSM
 WSMB WSUN WTAG WTAM WTMJ WWJ

10:00-10:15 Ceresota Program
 WEAJ KSTP KYW WBEN WCAE WCSH
 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 KFRC KLZ
 KMBC KMOX KOL KRLD KSCJ KVI
 WADC WAIU WBCM WBRW WCAO WCCO
 WDAY WDBJ WDOD WEAN WFAN WHP
 WIBW WISN WLAC WMAL WMT WNAC
 WORC WOWO WPG WREC WTAR WWNC
 WXYZ WGR

4:45-5:30 In the Spotlight
 WEAJ KFSD KGO KOA KOMO KSD
 KTAR WCAE WBEN WHAS WHO WJAR
 WKY WOC WRC WSAI WSM WSMB
 WTAG WTAM WTIC

5:30-5:45 The Toddy Party
 WEAJ CKGW KSD KYW WCAE WCSH
 WEEL WFJC WBEN WGY WJAR WLIT
 WRC WSAI WTAG WTIC WWJ

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

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

8:00-9:00 Fleischmann Hour—Rudy Vallee
 WEAJ CKGW KECA KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KTAR KTHS WAPI WBAP WCAE WCSH
 WDAF WBCB WEET WFI WFJC WGN
 WBEN WGY WHAS WHO WIOD WJAR
 WJAX WJDX WKY WMC WOAI WOC
 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 KFJ KFPY KLRA KMBC KMOX
 KSCJ WADC WBCM WBRW WCCO WDAY
 WDBJ WDOD WFBL WFBM WGR WHEC
 WIBW WISN WJAS WKRC WLAC WLBW
 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 WLBW 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 WJDD

WKBW WKRC WLBW WMAL WNAC WOWO
 WSPD WXYZ

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

9:00-9:30 Arco Birthday Party
 WEAJ CKGW KECA KGO KGW KHQ
 KOA KOMO KSD KSL KSTP KYW
 WAPI WBAP WCAE WCSH WDAF WBCB
 WEEL WFI WFJC WBEN WGY WHO
 WIOD WJAR WJAX WJDX WKY WMC
 WOAI WOC WOV WPTF WRC WRVA
 WSAI WSB WSM WSMB WTAG WTMJ
 WWJ

9:00-9:30 Knox-Dunlap Orchestra
 WJZ KDKA KWK WBAL WBZ WBZA
 WCKY WHAM WIBO WREN

9:30-10:00 Jack Frost's Melody Moments
 WEAJ WCAE WCSH WFI WBEN WGY
 WIBO WJAR WRC WSAI WTAG WTAM
 WWJ

9:30-10:00 Maxwell House Ensemble
 WJZ KDKA KECA KGO KGW KHQ
 KOA KOMO KPRC KSL KSTP KWK
 KYW WAPI WBAL WBAP WBZ WBZA
 WBCB 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 WLBW WMAL WNAC WOWO
 WSPD WXYZ

10:00-10:30 Lutheran Laymen League Program
 WABC KDYL KFPY KFRC KHJ KLZ
 KMOX KOIL KOIN KOL KRLD WADC
 WBBM WCAO WCAU WCCO WBSU WEAN
 WFBL WHK WJAS WKBW WKRC WLBW
 WMAL WMT WNAC WOWO WSPD WXYZ

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

10:00-11:00 RCA Hour
 WEAJ CKGW KFI KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KTHS KYW WAPI WCAE WCSH WDAF
 WBCB WEEL WFAA WFI WJRC WFLA
 WBEN WGY WHAS WIOD WJAR WJAX
 WJDX WKY WMC WOAI WOV 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
 WDBJ WDOD WEAN WFAN WFBL WGR
 WHEC WHP WIBW WISN WJAS WKRC
 WLAC WLBW WMAL WMT WNAC WNAX
 WORC WREC WSPD WTAR WWNC WXYZ

11:00-11:15 Palais d'Or Orchestra
 KSD KSTP WBEN WCAE WFI WHO
 WJDX WOC WOV WRC WSAI WSM
 WSMB WWJ

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

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

Friday

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

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

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

7:45-8:00 Brownbilt Footlites
 WJZ KDKA KFAB KOA KSL KWK
 WAPI WBZ WBZA WEBC WFLA WHAS
 WIBO WIOD WJAX WJDX WMC WQAI
 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
 WEAF CKGW KECA KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KYW WCAE WCSH WDAF WEBC WEEI
 WFAA WBN WBO WJAR WKY WLIT
 WQAI WOC WOW WRC WSAI WTAG
 WTAM WTIK WTMJ WWJ

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

8:30-9:00 Weed Tire Chain Program
 WABC KFJF KMBC KMOX KOIL KRLD
 WADC WCAO WCAU WCCO WEAN 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 KTAR KWK KYW WAPI WBZ
 WBZA WCKY WEBC WFAA WHAM WHAS
 WIOD WJAX WJR WKY WLW WMC
 WQAI WREN WRVA WSB WSM WSMB
 WTMJ

9:00-9:30 Cliquot Club Eskimos
 WEAF KSD WCAE WCSH WDAF WEEI
 WBN WGY WHO WIBO WJAR WLIT
 WOC WOW WRC WSAI WTAG WTIK
 WWJ

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

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

9:30-10:00 Armour Program
 WJZ KDKA KFI KGO KGW KHQ
 KOA KOMO KSL KSTP KWK KYW
 WAPI WBZ WBZA WEBC 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
 WEAF 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 WBP WJBZ WBZA WCKY WEBC
 WHAM WHAS WJR WKY WMC WQAI
 WREN WSB WSMB WTMJ

10:00-10:30 Radio Follies, Guy Lombardo
 WABC KDYL KFJF KFPY KFRC KHJ
 KLZ KMBC KMOX KOIL KOIN KOL
 KVI WADC WBT WCAO WCAU WCCO
 WDSU WEAN WFBL WGST WHEC WHK
 WHP WJAS WKBW WKRC WMAL WMAQ
 WNAC WORC WOWO WPG WRR WSPD
 WTAG 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
 WEAF KFI KFSD KGO KGW KHQ
 KOA KOMO KSD KSL KTAR KTHS
 WCAE WCSH WDAF WEEI WFJC WFLA
 WBN WGY WHO WIBO WIOD WJAR
 WJAX WJDX WKY WLIT WLW WMC
 WQAI 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 KFJF KFJF KFPY KLZ
 KMBC KOL WBCM WBCR WCAO WDAY
 WDBJ WDOD WIBW WISN WLWB WJAZ
 WMAL WMT WNAX WORC WREC WSPD
 WTAG WNNC WXYZ

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

11:30-12:00 Romanelli and His Orchestra
 WABC KDYL KFJF KFJF KFPY KLZ
 KMBC KMOX KOL WBCM WBCR WCAO
 WCCO WDAY WDBJ WDOD WBN WHK
 WIBW WISN WKRC WLWB WMLA
 WMT WNAC WNAX WORC WREC WSPD
 WTAG WNNC 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 WBCR WCAO
 WDBJ WDOD WEAN WFBL WGR WHP
 WJAS WKRC WLAC WMAL WSPD WTAG
 WNNC WXYZ

4:30-5:00 **The Marionettes**
 WEA F 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 WLWB 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**
 WEA F 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
 WLWB WMT WREC WTAR WWNC WGR

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

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

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

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

7:30-8:00 **Silver Flute**
 WEA F CKGW KSD KSTP WCHS WDAF
 WEBC WEEI 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
 WQAI

8:00-8:30 **Salon Singers**
 WEA F 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 WLWB WLWB
 WMAL WMT WNAX WORC WOWO 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 WLWB
 WMAL WMT WNAX WNAX 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**
 WEA F 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 WRVA 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 WLWB WMAL
 WMAQ WMT WNAC WNAX WORC WSPD
 WTAR WWNC WXYZ

10:00-11:00 **Lucky Strike Orchestra**
 WEA F 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 WRVA WSAI WSB
 WSMB WSWN WTAG WTMJ WWJ

10:00-11:00 **Hank Simmons' Show Boat**
 WABC KDYL KFH KFJF 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 WLWB
 WLWB WMAL WMAQ WMT WNAC WNAX
 WORC WOWO 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**
 WEA F 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
 WLWB WLWB WMAL WMT WNAC WNAX
 WORC WPG WREC WSPD WTAR WWNC
 WXYZ

11:15-12:00 **Bernie Cummins and His Orchestra**
 WEA F 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 WLWB WLWB WMAL WMT WNAC
 WNAX WORC WPG WREC WSPD WTAR
 WWNC WXYZ

12:00-1:00 **Rudy Vallee and his Orchestra**
 WEA F 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; Some Cuban and Mexican stations have odd frequencies; Correct kilocycles shown in small figures; N means NBC chain; C means Columbia chain; Z has been granted permit to change frequency; Y given permit to move to another city. Dn—This daylight station may use evening hours under certain conditions.

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
KEY	--	105	547	Merida, Yucatan

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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.
WPCC	*	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
WBKN	--	500	1C	Youngstown, Ohio
WMAC	--	250	2	Syracuse, N. Y.
WMCA	--	500	3	New York City
WNAX	--	1000	C	Yankton, S. D.
WNYC	--	500	3	New York City
WSYR	--	250	2	Syracuse, N. Y.
WWNC	*	1000	C	Asheville, N. C.

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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.
CKCL	--	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.

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590 kilocycles 508.2 meters

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

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.
WCBS	--	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.
WLBZ	--	500	C	Bangor, Maine
WSUN	*	1000	1+N	St. Petersburg, Fla.
WTMJ	*	1000	+N	Milwaukee, Wis.

Oregonian Publishing Co.
KTAR Broadcasting Co.
Chamber of Commerce
Maine Broadcasting Co., Inc.
Chamber of Commerce
Milwaukee Journal

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	1+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.

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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.

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

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.

Crosley Radio Corp.
 Joaquin Zamacona

710 kilocycles 422.3 meters

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

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.

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.
 CKAC -- 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.

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

740 kilocycles 405.2 meters

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

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

750 kilocycles 399.8 meters

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

WJR, The Goodwill Station, Inc.

760 kilocycles 394.5 meters

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

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.

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.

Manitoba Telephone System
 Canadian National Railways
 Union Bank & Trust Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

KTM * 500 2+ Los Angeles, Cal.
 WEAN -- 250 +C Providence, R. I.
 WISJ -- 250 + Madison, Wis.
 WMC -- 500 +N Memphis, Tenn.
 WPOR -- 500 I 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 79I Tuinucu, Cuba
 KGO † 7500 N San Francisco, Cal.
 WGY † 50000 N Schenectady, N. Y.

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

800 kilocycles 374.8 meters

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

Carter Publications, Inc.
 News & Journal
 Natalio Ulibarri

810 kilocycles 370.2 meters

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

Northwestern Broadcasting, Inc.
 Eastern Broadcasters, Inc.

820 kilocycles 365.6 meters

WHAS † 10000 N Louisville, Ky.

Courier-Journal & Times

830 kilocycles 361.2 meters

CMGA -- 300 83A Colon, Cuba
 KOA † 12500 N Denver, Colo.
 WHDH -- 1000 D Boston, Mass.
 WRUF * 5000 Dn Gainesville, Fla.

Leopoldo V. Figueros
 National Broadcasting Co., Inc.
 Matheson Radio Co., Inc.
 University of Florida

840 kilocycles 356.9 meters

CFCA † 500 1 Toronto, Ont.
 CHCT -- 1000 --- Red Deer, Alta.
 CKLC -- 1000 2 --- Red Deer, Alta.
 CMC -- 500 --- Havana, Cuba
 CNRD -- 1000 2 --- Red Deer, Alta.
 CNRT -- 500 1 Toronto, Ont.

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.

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.
 XEJ -- 101 857 C. Juarez, Chih.
 XFX -- 500 --- Mexico City, Mex.

KMO, Inc.
 Atlantic Broadcasting Corp.
 WHB Broadcasting Co.
 Juan G. Buttner
 Secretaria de Educacion Publica

870 kilocycles 344.6 meters

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

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.
 CKOC -- 50 4 Hamilton, Ont.
 CNRQ † 50 3 Quebec, Que.
 KFKA † 500 2+ Greeley, Colo.
 KLX -- 500 --- Oakland, Cal.

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

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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+	Shenandoah, 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 Lavín
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.

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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.
KFXF	*	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 Journal Publishing Co.
Babson Statistical Organization, Inc.
The Detroit News
Excelsior Cia Editorial S. A.
Gobierno Del Estado d Tobasco

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+	Shenandoah, Iowa
KROW	--	500	1+X	Oakland, Cal.
WBRC	--	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WBG	--	50	D	Elkins Park, Pa.

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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.
WCSS	*	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

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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.
CNRX	--	4000	2	Toronto, Ont.
XED	--	10000	---	Reynosa, Mexico

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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

KCY.S.
1040
MTRS.
288.3
DIAL

980 kilocycles 305.9 meters

KDKA	--	50000	N	Pittsburgh, Pa.
XEO	--	101	983	Mexico City

--	--	--

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

990 kilocycles 302.8 meters

WBZ	*	15000	IN Y	Springfield, Mass.
WBZA	*	500	IN Y	Boston, Mass.

--	--	--

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

1000 kilocycles 299.8 meters

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

--	--	--

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

--	--	--

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	IN	Chicago, Ill.
KYW	--	10000	IN	Chicago, Ill.
WRAX	--	250	D	Philadelphia, Pa.

--	--	--

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.

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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
KNX * 5000 X

Milford, Kansas
Hollywood, Cal.

KFKB Broadcasting Assn., Inc.
Western Broadcast Co.

1060 kilocycles 282.8 meters

KWJJ -- 500 Dn
WBAL * 10000 1N
WJAG * 1000 Dn
WTIC † 50000 1N

Portland, Ore.
Baltimore, Md.
Norfolk, Nebr.
Hartford, Conn.

KWJJ Broadcast Co., Inc.
Consolidated Gas Elec. & Pwr. Co.
Norfolk Daily News
Travelers Broadcasting Service Corp.

1070 kilocycles 280.2 meters

KJBS * 100 D
WCAZ -- 50 D
WDZ -- 100 D
WTAM * 50000 N
XER -- 101 1071

San Francisco, Cal.
Carthage, Ill.
Tuscola, Ill.
Cleveland, Ohio
Mexico City

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
WCBD * 5000 1 Dn
WMBI -- 5000 1 Dn

Charlotte, N. C.
Zion, Ill.
Chicago, Ill.

Station WBT, Inc.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

KMOX * 50000 1CX
XEL -- 10 ---

St. Louis, Mo.
Saltillo, Coah.

Voice of St. Louis, Inc.
Antonio Garza Castro

1100 kilocycles 272.6 meters

KGDM * 250 DX
WLWL * 5000 1
WPG -- 5000 1C

Stockton, Cal.
New York City
Atlantic City, N. J.

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

1110 kilocycles 270.1 meters

KSOO * 2000 Dn
WRVA * 5000 N

Sioux Falls, S. D.
Richmond, Va.

Sioux Falls Broadcasting Assn., Inc.
Larus & Bros. Co., Inc.

1120 kilocycles 267.7 meters

CFJC -- 15 ---
CHGS * 100 ---
CJOC -- 50 ---
KFIO † 100 D
KFSG * 500 3
KMIC * 500 3Y
KRSC † 50 D
KTRH * 500 2C
WDBO * 500 +C
WDEL † 250 +X
WHAD * 250 1
WISN -- 250 1C
WTAW -- 500 2
----- -- 150 CP
----- -- 10 CPD

Kamloops, B. C.
Summerside, P. E. I.
Lethbridge, Alta.
Spokane, Wash.
Los Angeles, Cal.
Inglewood, Cal.
Seattle, Wash.
Houston, Texas
Orlando, Fla.
Wilmington, Del.
Milwaukee, Wis.
Milwaukee, Wis.
College Station, Texas
Rayne, La.
Haynesville, La.

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

1130 kilocycles 265.3 meters

CMBC -- 150 ---
CMQ -- 150 ---
KSL -- 5000 N
WJJD -- 20000 C Dn
WOV -- 1000 D
XEF -- 105 1131

Havana, Cuba
Havana, Cuba
Salt Lake City
Mooseheart, Ill.
New York City
Oaxaca, Oax.

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

1140 kilocycles 263.0 meters

KVOO * 5000 1N
WAPI -- 5000 1N

Tulsa, Okla.
Birmingham, Ala.

Southwestern Sales Corp.
Alabama Polytechnic Institute

1150 kilocycles 260.7 meters

CMHA -- 200 1154
WHAM * 5000 N

Cienfuegos, Cuba
Rochester, N. Y.

Jose Gandux
Stromberg-Carlson Tel. Mfg. Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

WOWO * 10000 1C Ft. Wayne, Ind.
WVVA * 5000 1Y Wheeling, W. Va.

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Main Auto Supply Co.
West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

KTNT -- 5000 Dn Muscatine, Iowa
WCAU * 10000 C Philadelphia, Pa.

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Norman Baker
Universal Broadcasting Co

1180 kilocycles 254.1 meters

KEEX -- 5000 2 Portland, Ore.
KOB -- 20000 2 State College, N. M.
WDGY * 1000 1 Dn Minneapolis, Minn.
WHD1 -- 500 1 Dn Minneapolis, Minn.

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

1190 kilocycles 252.0 meters

WICC * 500 D Bridgeport, Conn.
WOAI * 50000 N San Antonio, Texas

--	--	--

Bridgeport Broadcasting Station, Inc.
Southern Equipment Co.

1200 kilocycles 249.9 meters

KBTM -- 100 D Paragould, Ark.
KFHA -- 50 --- Gunnison, Colo.
KFJB -- 100 + Marshalltown, Iowa
KFWF -- 100 5 St. Louis, Mo.
KGCU -- 100 --- Mandan, N. D.
KGDE -- 100 + Fergus Falls, Minn.
KGDY -- 100 --- Huron, S. D.
KGEK -- -- 50 9 Yuma, Colo.
KGEW † 100 9 Fort Morgan, Colo.
KGFJ -- 100 --- Los Angeles, Cal.
KGHI -- 100 --- Little Rock, Ark.
KGY -- 10 + Lacey, Wash.
KMLB -- 50 DCP Monroe, La.
KSMR -- 100 --- Santa Maria, Cal.
KVOS -- 100 --- Bellingham, Wash.
KWG * 100 --- Stockton, Cal.
WAB1 † 100 --- Bangor, Maine
WABZ -- 100 1 New Orleans, La.
WBBZ -- 100 --- Ponca City, Okla
WCAT -- 100 --- Rapid City, S. D.
WCAX * 100 2 Burlington, Vt.
WCLO † 100 --- Janesville, Wis.
WCOD † 100 3 Harrisburg, Pa.
WEHC * 100 +X Emory, Va.
WEPS -- 100 --- Worcester, Mass.
WFBC -- 50 --- Knoxville, Tenn.
WFBE -- 100 + Cincinnati, Ohio
WHBC -- 10 4S Canton, Ohio
WHBY -- 100 --- Green Bay, Wis.
WIBX -- 100 --- Utica, N. Y.
WIL -- 100 5+ St. Louis, Mo.
WJBC * 100 6 La Salle, Ill.
WJBL -- 100 6 Decatur, Ill.
WJBW -- 100 1 New Orleans, La.
WJJC -- 100 3 Lancaster, Pa.
WLAF † 100 + Louisville, Ky.
WLBG † § 100 + Petersburg, Va.
WMAV -- 100 5+ St. Louis, Mo.
WNBO * 100 4 Washington, Pa.
WNBW † 10 --- Carbondale, Pa.
WNBX -- 10 2 Springfield, Vt.
WORC -- 100 CX Worcester, Mass.
WPDF * 100 8 Flint, Mich.
WRAF * 100 8 La Porte, Ind.
WRBL -- 50 --- Columbus, Ga.
WWAE -- 100 8 Hammond, Ind.
XEA -- 101 --- Guadalupe, Jal.
10-BP -- 25 --- Wingham, Ont.

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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
Kingshollow Presbyterian Church
John Brownlee Spriggs
Home Cut Glass & China Co.
First Congregational Church
Alfred Frank Kleindienst
City of Flint
Chas. Middleton
David Farmer
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

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CFCO	--	100	---	Chatham, Ont.
CFNB	--	50	---	Fredericton, 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.
WIBI	--	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.
WRBQ	†	100	X+	Greenville, Miss.
WRBU	--	100	---	Gastonia, N. C.
WSBC	*	100	4	Chicago, Ill.
WSEN	†	100	---	Columbus, Ohio
WSIX	--	100	---	Springfield, Tenn.
WTAX	--	100	2	Springfield, Ill.

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 Brdcastg. 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 Lule
 J. Pat. Sully
 A. J. Kirby Music Co.
 World Battery Co., Inc.
 Columbus Broadcasting Co.
 638 Tire & Vulcanizing Co.
 WTAX, Inc.

1220 kilocycles 245.8 meters

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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.

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

1230 kilocycles 243.8 meters

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

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

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

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

KFMX	--	1000	2	Northfield, Minn.
KFOX	*	1000	---	Long Beach, Cal.
KIDO	--	1000	---	Boise, Idaho
WAAM	*	1000	1+	Newark, N. J.
WCAL	--	1000	2	Northfield, Minn.
WDSU	--	1000	C	New Orleans, La.
WGCP	--	250	1	Newark, N. J.
WGMS	--	1000	2	St. Paul, Minn.
WLB	--	1000	2	St. Paul, Minn.
WODA	--	1000	1	Paterson, N. J.
WRHM	*	1000	2	Minneapolis, Minn.
----	--	500	CP	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

KOIL	*	1000	C	Council Bluffs, Iowa
KRGV	*	500	1	Harlingen, Texas
KVOA	--	500	D	Tucson, Ariz.
KWWG	--	500	1	Brownsville, Texas
WLBW	--	500	C+	Oil City, Pa.
WTOC	*	500	C	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

KFUM	--	1000	---	Colorado Springs, Colo.
KGCA	--	50	2D	Decorah, Iowa
KOL	†	1000	3C	Seattle, Wash.
KTW	--	1000	3	Seattle, Wash.
KWLC	*	100	2D	Decorah, Iowa
WASH	--	500	1	Grand Rapids, Mich.
WEAT	--	1000	D	Ithaca, N. Y.
WFBR	--	250	---	Baltimore, Md.
WJDX	--	500	+N	Jackson, Miss.
WOOD	--	500	1	Grand Rapids, Mich.

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

1280 kilocycles 234.2 meters

CMCE	--	100	1285	Havana, Cuba
KFBB	--	1000	+	Great Falls, Mont.
WCAM	--	500	1	Camden, N. J.
WCAP	*	500	1	Asbury Park, N. J.
WDOD	*	1000	+C	Chattanooga, Tenn.
WIBA	--	500	---	Madison, Wis.
WOAX	--	500	1	Trenton, N. J.
WRR	--	500	C	Dallas, Texas

				Julio E. Power
				Buttrey 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

KDYL	*	1000	C	Salt Lake City
KFUL	--	500	1	Galveston, Texas
KLCN	*	50	D	Blytheville, Ark.
KTSA	†	1000	1+C	San Antonio, Texas
WEBC	--	1000	+N	Superior, Wis.
WJAS	*	1000	C	Pittsburgh, Pa.
WNBZ	--	50	D	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

KFH	--	1000	2C	Wichita, Kansas
KFJR	--	500	3	Portland, Ore.
KGEF	*	1000	4	Los Angeles, Cal.
KTBI	*	1000	4	Los Angeles, Cal.
KTBR	--	500	3	Portland, Ore.
WBBER	--	1000	1	Brooklyn, N. Y.
WEVD	*	500	1	New York City
WHAP	*	1000	1	New York City
WHAZ	*	500	1	Troy, N. Y.
WIOD	*	1000	N	Miami Beach, Fla.
WOQ	*	1000	2	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

KCRJ	†	100	---	Jerome, Ariz.
KFBK	--	100	---	Sacramento, Cal.
KFGQ	--	100	7-	Boone, Iowa
KFTU	--	10	---	Juneau, Alaska
KFJY	§	100	7-	Ft. Dodge, Iowa

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

KCY5.
1310
MTRS.
228.9
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

KFPL	--	100	---	Dublin, Texas
KFPM	* 15	---	---	Greenville, Texas
KFUP	--	100	8	Denver, Colo.
KFXJ	--	50	8XY	Edgewater, Colo.
KFXR	--	100	+	Oklahoma City
KGBX	* 100	+	+	St. Joseph, Mo.
KGCX	--	100	+-	Wolf Point, Mont.
KGEZ	† 100	C	---	Kalispell, Mont.
KGFW	--	100	---	Ravenna, Neb.
KIT	--	50	---	Yakima, Wash.
KMED	--	50	---	Medford, Ore.
KRMD	--	100	9	Shreveport, La.
KTLC	--	100	X	Houston, Tex.
KTSL	--	100	9	Shreveport, La.
KTSM	--	100	2	El Paso, Texas
KWCR	--	100	7	Cedar Rapids, Iowa
KXRO	† 75	---	---	Aberdeen, Wash.
WBOW	* 100	---	---	Terre Haute, Ind.
WBRE	--	100	---	Wilkes-Barre, Pa.
WCLS	* 100	---	1	Joliet, Ill.
WDAH	* 100	---	2	El Paso, Texas
WEBR	--	100	+	Buffalo, N. Y.
WEXJ	† 50	---	---	Royal Oak, Mich.
WFBG	--	100	3	Altoona, Pa.
WFDF	--	100	---	Flint, Mich.
WFKD	--	50	4X	Philadelphia, Pa.
WGAL	* 100	5	---	Lancaster, Pa.
WGH	* 100	C	---	Newport News, Va.
WHAT	--	100	4X	Philadelphia, Pa.
WIBU	--	100	---	Poynette, Wis.
WJAC	--	100	3	Johnstown, Pa.
WJAK	* 50	6	---	Marion, Ind.
WKAV	* 100	---	---	Laconia, N. H.
WKBB	--	100	1	Joliet, Ill.
WKBC	--	100	---	Birmingham, Ala.
WKBS	* 100	---	---	Galesburg, Ill.
WLBC	† 50	6	---	Muncie, Ind.
WNBO	* 100	---	---	Auburn, N. Y.
WNBH	* 100	---	---	New Bedford, Mass.
WOBT	--	100	+	Union City, Tenn.
WOL	--	100	---	Washington, D. C.
WRAW	* 50	5XZ	---	Reading, Pa.
WROL	--	100	---	Knoxville, Tenn.
WSAJ	* 100	---	---	Grove City, Pa.
WSJS	--	100	---	Winston-Salem, N. C.

C. C. Baxter
 The New Furniture Co.
 Fitzsimmons General Hospital
 Western Slope Broadcasting Co.
 Exchange Ave. Baptist Church
 KGBX Inc.
 First State Bank of Vida
 Chamber of Commerce
 O. F. Sothman and R. H. McConnell
 Carl E. Haymond
 Mrs. W. J. Virgin
 Robert M. Dean
 Houston Broadcasting Co.
 G. A. Houseman
 W. S. Hulseoe & W. T. Blackwell
 Harry F. Paar
 KXRO, Inc.
 Banks of Washash, Inc.
 Louis G. Baltimore
 WCLS, Inc.
 Eagle Broadcasting Co.
 Howell Broadcasting Co., Inc.
 Royal Oak Broadcasting Co.
 Wm. F. Gable Co.
 Frank D. Fallain
 Foulkrod Radio Engineering Co.
 WGAL, Inc.
 Hampton Roads Broadcasting Corp.
 Independence Broadcasting Co.
 William C. Forrest
 Johnstown Automobile Co.
 Marion Broadcasting Co.
 Laconia Radio Club
 Sanders Bros. Radio Station
 R. B. Broyles Furniture Co.
 Permln N. Nelson
 Donald A. Burton
 Radio Service Laboratories
 New Bedford Broadcasting Co.
 Tittsworth's Radio & Music Shop
 American Broadcasting Co.
 Reading Broadcasting Co.
 Stewart Broadcasting Co.
 Grove City College
 Winston-Salem Journal Co.

1320 kilocycles 227.1 meters

KGHF	--	250	X+	Pueblo, Colo
KGIO	--	250	1+	Twin Falls, Idaho
KGMB	†	500	---	Honolulu, Hawaii
KID	--	500	1+	Idaho Falls, Idaho
WADC	†	1000	C	Akron, Ohio
WSMB	--	500	N	New Orleans, La.



C. P. Ritchie & J. E. Finch
 Radio Broadcasting Corp.
 Honolulu Broadcasting Co., Ltd.
 KID Broadcasting Co.
 Allen T. Simmons
 Saenger Theatre & Maison Blanche Co.

1330 kilocycles 225.4 meters

KGB	* 250	X	---	San Diego, Cal.
KSCJ	--	1000	1+C	Sioux City, Iowa
WDRC	--	500	---	New Haven, Conn.
WSAI	* 500	N	---	Cincinnati, Ohio
WTAQ	* 1000	1	---	Eau Claire, Wis.
XEC	--	50	1333	Toluca, Mex.



Pickwick Broadcasting Corp.
 Perkins Bros. Co.
 Doolittle Radio Corp.
 Crosley Radio Corp., Lessee
 Gillette Rubber Co.
 Jesus R. Benavides

1340 kilocycles 223.7 meters

KFPW	--	50	D	Fort Smith, Ark.
KFPY	--	1000	C	Spokane, Wash.
WCOA	--	500	---	Pensacola, Fla.
WSPD	* 500	C+	---	Toledo, Ohio



John Brown Schools
 Symons Broadcasting Co.
 City of Pensacola
 Toledo Broadcasting Co.

1350 kilocycles 222.1 meters

KWK	* 1000	N	---	St. Louis, Mo.
WBNY	* 250	1	---	New York City
WCDA	--	250	1	New York City
WKBO	--	250	1	New York City
WMSC	--	250	1	New York City



Greater St. Louis Broadcasting Corp.
 Pillar of Fire
 Italian Educ. Broadcasting Co., Inc.
 Standard Cahill Co., Inc.
 Madison Sq. Garden Brcdstg. Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

CMKC	*	150	1364	Santiago de Cuba
KGIR	*	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.

--	--	--

M. P. Martinez
 C. Merwin Dobyans
 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.
KFTZ	--	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.
WIBM	--	100	1	Jackson, Mich.
WJBK	--	50	1	Detroit, Mich.
WLEY	--	100	+	Lexington, Mass.
WLVA	†	100	7	Lynchburg, Va.
WMBR	†	100	---	Tampa, Fla.
WPOE	†	100	---	Patchogue, N. Y.
WQDM	*	5	D	St. Albans, Vt.
WRAK	--	50	---	Williamsport, Pa.
WRBJ	--	10	---	Hattiesburg, Miss.
WRBT	*	100	---	Wilmington, N. C.
WRJN	--	100	---	Racine, Wis.
WSVS	--	50	---	Buffalo, N. Y.
WRDO	§	100	CP	Augusta, Me.

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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.
 Upper 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
KOV	†	500	2	Pittsburgh, Pa.
KSO	*	500	1	Clarinda, Iowa
WKBH	*	1000	1	La Crosse, Wis.
WSMK	--	200	2	Dayton, Ohio

--	--	--

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

KCYS.
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

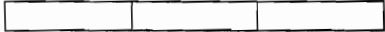
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Arkansas Broadcasting Co.
 Nielson Radio & Sporting Goods Co.
 University of Arkansas
 Radio Air Service Corp.

CUT OUT ON
 DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1400 kilocycles 214.2 meters

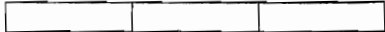


CMBY	--	200	1405
KLO	*	500	X
KOCW	*	250	+
WBAA	--	500	1+
WBBC	--	500	2
WCGU	--	500	2
WCM/	--	500	1
WCBF	*	500	1
WLTH	*	500	2
WSDA	--	500	2
WSGH	--	500	2

Havana, Cuba
Ogden, Utah
Chickasha, Okla.
Lafayette, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.
Culver, Ind.
Indianapolis, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.
Brooklyn, N. Y.

Lino E. Cosculluela
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
KGRS	--	1000	1
WBCM	*	500	C
WDAG	--	250	1X
WHBL	*	500	4
WLEX	--	500	2
WMAF	--	500	2
WODX	--	500	3
WRBX	*	250	---
WSFA	†	500	3
WSSH	†	500	2

Rockford, Ill.
Amarillo, Texas
Bay City, Mich.
Amarillo, Texas
Sheboygan, Wis.
Lexington, Mass.
S. Dartmouth, Mass.
Mobile, Ala.
Roanoke, Va.
Montgomery, Ala.
Boston, Mass.

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
KFIZ	--	100	---
KFOU	*	100	5X.
KFQW	--	100	---
KFXD	--	100	XY
KFXV	--	100	---
KFYO	--	100	+
KGFF	--	100	---
KGCC	--	100	5
KGIW	--	100	---
KGXV	--	100	---
KGKX	--	100	---
KICK	*	100	---
KLPM	†	100	---
KORE	--	100	---
KTAP	\$	100	---
KXL	--	100	4
KXYZ	--	100	X
WEDH	*	30	X
WEHS	--	100	2
WELL	--	50	X
WFDW	*	100	---
WHDL	\$	10	D
WHFC	--	100	2
WHIS	†	100	---
WIAS	--	100	---
WIBR	--	50	---
WILM	--	100	---
WJBO	\$	100	---
WKBI	*	100	2
WLBF	--	100	---
WMBBC	--	100	X+
WMBH	--	100	+
WPAD	†	100	---
WSPA	*	100	+
WTBO	*	100	---

Portland, Ore.
Fond du Lac, Wis.
Holy City, Cal.
Seattle, Wash.
Nampa, Idaho
Flagstaff, Ariz.
Abilene, Texas
Alva, Okla.
San Francisco, Cal.
Trinidad, Colo.
Las Vegas, Nevada
Sand Point, Idaho
Red Oak, Iowa
Minot, North Dakota
Eugene, Ore.
San Antonio, Texas
Portland, Ore.
Houston, Texas
Erie, Pa.
Evanston, Ill.
Battle Creek, Mich.
Talladega, Ala.
Tupper Lake, N. Y.
Cicero, Ill.
Bluefield, W. Va.
Ottumwa, Iowa
Steubenville, Ohio
Wilmington, Del.
New Orleans, La.
Chicago, Ill.
Kansas City, Kas.
Detroit, Mich.
Joplin, Mo.
Paducah, Ky.
Spartanburg, S. C.
Cumberland, Md.

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
KGNF	†	500	D
WBAK	--	500	1X+
WCAH	*	500	1C
WGBC	*	500	2
WHP	*	500	1CX
WNBR	*	500	2

Los Angeles, Cal.
North Platte, Neb.
Harrisburg, Pa.
Columbus, Ohio
Memphis, Tenn.
Harrisburg, Pa.
Memphis, Tenn.

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.
WCBA	--	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.

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	1	Hackensack, N. J.
WCSS	--	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.

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

1460 kilocycles 205.4 meters

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

National Battery Broadcasting Co.
Independent Publishing Co.

1470 kilocycles 204.0 meters

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

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.

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.

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.
WKBZ	†	50	---	Ludington, Mich.
WL BX	--	100	1	Long Island City, N. Y.
WLOE	*	100	2+	Boston, Mass.
WMB A	--	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.
WWRL	--	100	1	Woodside, N. Y.
---	---	100	---	Rutland, Vt.

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 Brdcastg. Station, Inc.
Wm. Penn Broadcasting Co.
Warren C. Davenport's Musicove, Inc.
Long Island Broadcasting Corp.
Seward & Weiss Music Co.

KCYS.
1500
MTRS.
199.9
DIAL

INDEX BY LOCATIONS WITH MAP KEY

ALABAMA		Watts	Kcys.			
Birmingham O-21	5000	WAPI	1140	San Jose J-1	500	KQW 1010
	500	WBRC	930	Santa Ana M-3	100	KREG 1500
	100	WBCB	1310	Santa Barbara M-2	100	KDB 1500
Gadsden O-21	50	WJBY	1210	Santa Maria L-2	100	KSMR 1200
Mobile O-20	500	WODX	1410	Stockton J-2	250	KGDM 1100
Montgomery P-21	500	WSFA	1410		100	KWG 1200
Talladega O-21	100	WFDW	1420	CANAL ZONE		
ALASKA				Balboa FF-26	750	NBA 850
Anchorage	100	KFOD	1230	COLORADO		
Juneau	10	KFTU	1310	Colorado Springs K-11	1000	KFUM 1270
Ketchikan	500	KGBU	900	Denver K-11	500	KFEL 920
ARIZONA					100	KFUP 1310
Flagstaff M-7	100	KFX Y	1420		500	KFXF 920
Jerome M-6	100	KCRJ	1310		1000	KLZ 560
Phoenix N-6	500	KOY	1390		12500	KOA 830
	500	KTAR	620	Edgewater K-10	500	KPOF 880
Prescott M-6	100	KPJM	1500	Fort Morgan J-11	50	KFXJ 1310
	100	KGAR	1370	Greeley J-11	100	KGWE 1200
Tucson O-7	500	KVOA	1260	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				CONNECTICUT		
Blytheville M-19	50	KLCN	1290	Bridgeport H-27	500	WICC 1190
Fayetteville M-16	1000	KUOA	1390	Hartford H-27	50000	WTIC 1060
Fort Smith N-16	50	KFPW	1340	New Haven H-27	500	WDRS 1330
Hot Springs N-17	10000	KTHS	1040	Storrs H-28	250	WCAC 600
Little Rock N-17	100	KGHI	1200			
	250	KGJF	890	DELAWARE		
	1000	KLRA	1390	Wilmington J-26	250	WDEL 1120
	500		1250		100	WILM 1420
Paragould M-18	100	KBTM	1200	DISTRICT OF COLUMBIA		
CALIFORNIA				Washington J-26	250	WMAL 630
Berkeley J-2	100	KRE	1370		500	WRC 950
Burbank M-3	500	KUOA	780		100	WOL 1310
Culver City M-3	250	KFVD	1000	FLORIDA		
El Centro N-4	100	KXO	1500	Clearwater R-24	1000	WFLA 620
Fresno K-2	100	KMJ	1210	Gainesville Q-24	5000	WRUF 830
Hayward J-1	100	KZM	1370	Jacksonville Q-24	1000	WJAX 900
Hollywood M-3	1000	KFWB	950	Miami T-25	1000	WQAM 560
	5000	KNX	1050	Miami Beach T-25	1000	WIOD 1300
Holy City M-3	100	KFOU	1420	Oriando R-24	500	WDBO 1120
Inglewood M-3	500	KMIC	1120	Pensacola Q-21	500	WCOA 1340
Long Beach M-3	1000	KFOX	1250	St. Petersburg S-24	1000	WSUN 620
	1000	KGER	1360	Tampa R-24	1000	WDAE 1220
Los Angeles M-3	1000	KECA	1430		100	WMBR 1370
	5000	KFI	640	GEORGIA		
	500	KFSG	1120	Atlanta O-22	250	WGST 890
	1000	KGEF	1300		5000	WSB 740
	100	KGFJ	1200	Augusta O-23	100	WRDW 1500
	1000	KHJ	900	Columbus O-22	50	WRBL 1200
	500	KMPC	710	Macon O-23	250	WMAZ 890
	500	KMTR	570	Rome N-22	100	WFDV 1370
	500	KTM	780	Savannah O-24	500	WTOC 1260
Oakland J-1	1000	KTBI	1300	Thomasville Q-22	50	WQDX 1210
	250	KLS	1440	Toccoa N-23	500	WTFI 1450
	500	KLX	880	HAWAII		
	500	KROW	930	Honolulu	500	KGMB 1320
Pasadena M-3	50	KPPC	1210		1000	KGU 940
	1000	KPSN	1360	IDAHO		
Sacramento J-2	100	KFEK	1310	Boise G-5	1000	KIDO 1250
San Bernardino M-3	100	KFXM	1210	Idaho Falls G-7	500	KID 1320
San Diego N-3	500	KFSD	600	Nampa G-5	50	KFXD 1420
	250	KGB	1330	Pocatello H-7	250	KSEI 900
San Francisco J-1	1000	KRFC	610	Sand Point D-6	100	KGKX 1420
	500	KFWI	930	Twin Falls H-6	250	KGIQ 1320
	100	KGGC	1420			
	7500	KGO	790			
	100	KJBS	1070			
	5000	KPO	680			
	1000	KTAB	560			
	1000	KYA	1230			

INDEX BY LOCATIONS WITH MAP KEY

ILLINOIS			Watts	Kcys.					
Carthage J-18	50	WCAZ	1070	Ottumwa J-17	100	WLAS	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	Sioux City I-15	500	KMA	930		
	25000	WBBM	770	Waterloo I-17	1000	KSCJ	1330		
	1000	WCFW	970		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	WLBF	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	WFTW	940		
	500	WPCP	560	Louisville L-21	10000	WHAS	820		
	100	WSBC	1210		100	WLAP	1200		
	100	WHFC	1420	Paducah M-19	100	WPAD	1420		
Cicero I-20	100	WJBL	1200	LOUISIANA					
Decatur K-19	100	WEHS	1420	Haynesville P-17	10		1120		
Evanston I-20	100	WKBS	1310	Monroe P-18	50	KMLB	1200		
Galesburg J-18	100	WEBQ	1210	New Orleans R-19	100	WABZ	1200		
Harrisburg L-19	100	WCLS	1310		1000	WDSU	1250		
Joliet I-19	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		
Connersville K-21	100	WKBV	1500		250	WCAO	600		
Culver I-20	500	WCMA	1400		100	WCBM	1370		
Evansville L-20	500	WGBF	630	Cumberland J-25	250	WFBR	1270		
Fort Wayne J-21	100	WGL	1370		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	WEEL	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	WSSH	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		
IOWA						100	WNBH	1310	
Ames I-17	5000	WOI	640	S. Dartmouth H-28	500	WMAF	1410		
Boone I-17	100	KFGQ	1310	Springfield H-27	15000	WBZ	990		
Cedar Rapids I-18	100	KWCR	1310	Wellesley Hills G-28	500	WBOS	920		
Clarinda J-16	500	KSO	1380	Worcester G-28	500	WEPS	1200		
Council Bluffs J-16	1000	KOIL	1260		100	WORC	1200		
Davenport I-18	5000	WOC	1000		250	WTAG	580		
Decorah H-18	50	KGCA	1270						
	100	KWLC	1270						
Des Moines I-17	5000	WHO	1000						
Fort Dodge I-16	100	KFJY	1310						
Iowa City I-18	500	WSUI	880						
Marshalltown I-17	100	KFJB	1200						
Muscatine J-18	5000	KTNT	1170						

INDEX BY LOCATIONS WITH MAP KEY

MICHIGAN		Watts	Keys.
Battle Creek I-21	50	WELL	1420
Bay City H-22	500	WBCM	1410
Berrien Springs I-20	1000	WKZO	590
Calumet E-19	100	WHDF	1370
Detroit H-22	50	WJBK	1370
	5000	WJR	750
	100	WMBC	1420
	1000	WWJ	920
	1000	WXYZ	1240
East Lansing H-21	1000	WKAR	1040
Flint H-22	100	WFDF	1310
	100	WPDF	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			
Fergus Falls F-15	100	KGDE	1200
Minneapolis G-17	7500	WCCO	810
	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			
Greenville O-19	100	WRBQ	1210
Gulfport Q-19	100	WGCM	1210
Hattiesburg Q-19	10	WRBJ	1370
Jackson P-19	500	WJDJ	1270
Meridian P-20	500	WCOC	880
Tupelo N-20	100	WDIX	1500
Vicksburg P-18	300	WQBC	1360

MISSOURI			
Cp. Girardeau L-19	100	KFVS	1210
Columbia K-17	500	KFRU	630
Grant City J-16	50	KGIZ	1500
Jefferson City L-17	500	WOS	630
Joplin M-16	100	WMBH	1420
Kansas City K-16	1000	KMBC	950
	100	WKWC	1370
	1000	WDAF	610
	500	WHB	860
	1000	WOQ	1300
St. Joseph K-16	2500	KFEQ	680
	100	KGEX	1310
St. Louis L-18	500	KFUO	550
	100	KFWF	1200
	50000	KMOX	1090
	500	KSD	550
	1000	KWK	1350
	1000	WEW	760
	100	WIL	1200
	100	WMAJ	1200

MONTANA			
Billings F-9	1000	KGHL	950
Butte F-7	500	KGIR	1360
Great Falls E-8	1000	KFBE	1280
Kalispell D-7	100	KGEZ	1310
Wolf Point E-11	100	KGCS	1310

NEBRASKA		Watts	Keys.
Clay Center	1000	KMMJ	740
Lincoln J-15	5000	KFAB	770
	100	KFOR	1210
	500	WCAJ	590
Norfolk I-15	1000	WJAG	1060
North Platte J-13	500	KGNF	1430
Omaha J-15	500	WAAW	660
	1000	WOW	590
Ravenna J-14	100	KGFW	1310
Scottsbluff I-11	100	KGKY	1500
York J-15	500	KGBZ	930

NEVADA			
Las Vegas L-5	100	KGIX	1420
Reno I-3	500	KOH	1380

NEW HAMPSHIRE			
Laconia G-28	100	WKAJ	1310

NEW JERSEY			
Asbury Park I-27	500	WCAP	1280
Atlantic City J-27	5000	WPG	1100
Camden I-26	500	WCAM	1280
Hackensack I-27	250	WBMS	1450
Jersey City I-27	300	WAAT	940
	250	WHOM	1450
	250	WKBO	1450
Newark I-27	1000	WAAM	1250
	250	WGCP	1250
	250	WNJ	1450
	5000	WOR	710
Paterson I-27	1000	WODA	1250
Red Bank I-27	100	WJBI	1210
Trenton I-26	500	WOAX	1280

NEW MEXICO			
Albuquerque N-7	250	KGGM	1230
Raton M-11	50	KGFL	1370
State College P-9	20000	KOB	1180

NEW YORK			
Auburn H-25	100	WMBO	1310
Binghamton H-26	100	WNBF	1500
Brooklyn I-27	500	WBBC	1400
	1000	WBBR	1300
	500	WCCU	1400
	500	WLTH	1400
	100	WMBQ	1500
	500	WSDA	1400
	500	WSGH	1400
Buffalo H-24	1000	WBEN	900
	100	WBRR	1310
	1000	WGR	550
	5000	WKBW	1480
	1000	WMAK	1040
	50	WSVS	1370
Canton F-26	500	WCAD	1220
Freeport I-27	100	WGBB	1210
Glens Falls G-27	50	WGBF	1370
Ithaca H-25	1000	WEAJ	1270
	50	WLCI	1210
Jamaica H-27	100	WMRJ	1210
Jamestown H-24	25	WOCL	1210
Long Island City I-27	100	WLBX	1500
Long Beach I-27	100	WCLB	1500

INDEX BY LOCATIONS WITH MAP KEY

New York City I-27	5000	WABC	860
	250	WBNY	1350
	250	WCDA	1350
	500000	WEAF	660
	500	WEVD	1300
	250	WGBS	600
	1000	WHAP	1300
	250	WHN	1010
	30000	WJZ	760
	250	WKBQ	1350
	5000	WLWL	1100
	500	WMCA	570
	250	WMSG	1350
	500	WNYC	570
	1000	WOV	1130
	250	WPAP	1010
	500	WPCH	810
	250	WQAO	1010
	250	WRNY	1010
Patchogue I-27	100	WPOE	1370
Poughkeepsie H-27	500	WOKO	1440
Rochester G-25	5000	WHAM	1150
	500	WHEC	1440
Saranac Lake F-26	50	WNBZ	1290
Schenectady G-27	50000	WGY	790
Syracuse G-25	1000	WFBL	1360
	250	WMAC	570
	250	WSYR	570
Troy G-27	500	WHAZ	1300
Tupper Lake F-26	10	WHDL	1420
Utica G-26	100	WIBX	1200
Woodside I-27	100	WWRL	1500
Yonkers I-27	100	WCOH	1210

NORTH CAROLINA

Asheville M-23	1000	WWNC	570
Charlotte M-24	5000	WBT	1080
Gastonia M-24	100	WRBU	1210
Greensboro M-24	500	WBAM	1440
Raleigh M-25	1000	WPTF	680
Wilmington N-26	100	WRBT	1370
Winston-Salem M-24	100	WSJS	1310

NORTH DAKOTA

Bismarck F-13	500	KFYR	550
Devils Lake E-14	100	KDLR	1210
Fargo F-15	1000	WDAY	940
Grand Forks E-15	100	KFJM	1370
Mandan F-13	100	KGCU	1200
Minot E-13	100	KLPM	1420

OHIO

Akron I-23	1000	WADC	1320
	500	WFJC	1450
Canton I-23	10	WHBC	1200
Cincinnati K-22	100	WFBE	1200
	1000	WKRC	550
	50000	WLW	700
	500	WSAI	1330
Cleveland I-23	500	WGAR	1450
	1000	WHK	1390
	500	WJAY	610
	50000	WTAM	1070
Columbus J-22	500	WAIU	640
	500	WCAH	1430
	750	WEAO	570
	100	WSEN	1210
	200	WSMK	1380
Dayton J-22	100	WJW	1210
Mansfield J-22	100	WHBD	1370
Mount Orab K-22	500	WCSD	1450
Springfield J-22	50	WIBR	1420
Steubenville J-23	500	WSPD	1340
Toledo I-22	500	WKBN	570
Youngstown I-23	500	WALR	1210
Zanesville J-23	100		

OKLAHOMA

	Watts		Keys.
Alva M-14	100	KGFF	1420
Chickasha N-14	250	KOCW	1400
Elk City N-13	100	KGMP	1210
Enid M-15	100	KCRC	1370
Norman N-15	500	WNAD	1010
Oklahoma N-15	5000	KFJF	1480
	100	KFXR	1310
	100	KGFG	1370
	1000	WKY	900
Ponca City M-15	100	WBBZ	1200
Tulsa M-16	5000	KVOO	1140

OREGON

Astoria D-2	100	KFJI	1370
Corvallis E-2	1000	KOAC	550
Eugene F-2	100	KORE	1420
Marshfield F-1	100	KOOS	1370
Medford G-2	50	KMED	1310
Portland E-3	5000	KEX	1180
	100	KBPS	1420
	500	KFJR	1300
	1000	KGW	620
	1000	KOIN	940
	500	KTBR	1300
	500	KWJJ	1060
	100	KXL	1420

PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
Altoona I-25	100	WFBG	1310
Carbondale H-26	10	WNBW	1200
Elkins Park I-26	50	WBG	930
Erie H-24	30	WEDH	1420
Grove City I-26	100	WSAJ	1310
Harrisburg I-25	500	WBAK	1430
	100	WCOD	1200
	500	WHP	1430
Johnstown J-24	100	WIAC	1310
Lancaster I-25	100	WGAL	1310
	100	WKYC	1200
	100	WJBU	1210
Lewisburg I-26	500	WLBW	1260
Oil City I-24	10000	WCAU	1170
Philadelphia I-26	100	WELK	1370
	500	WFAN	610
	500	WFI	560
	50	WFKD	1310
	100	WHAT	1310
	500	WTP	610
	500	WLIT	560
	100	WPEN	1500
	250	WRAX	1020
Pittsburgh J-24	50000	KDKA	980
	500	KQV	1380
	1000	WCAE	1220
	1000	WJAS	1290
	100	WMBJ	1500
Reading I-26	50	WRAW	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
	500	WPSC	1230
State College I-25	100	WNBO	1200
Washington J-24	100	WBAX	1210
Wilkes-Barre I-26	100	WBRE	1310
Williamsport I-25	50	WRAC	1370

PORTO RICO

San Juan W-34	500	WKAQ	890
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RHODE ISLAND

Newport H-28	100	WMBA	1500
Pawtucket H-28	100	WPAW	1210

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	KSOU	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

Lawrenceburg N-20	500	WOAN	600
Memphis M-19	500	WGBC	1430

Nashville M-20	5000	WLAC	1470
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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
Austin Q-14	500	KFDM	560
Beaumont R-17	500	KVWG	1260
Brownsville U-15	100	KGKB	1500
Brownwood P-14	500	WTAW	1120
College Sta. Q-15	100	KGFI	1500
Corpus Christi S-14	10000	KRLD	1040
Dallas P-15	50000	WFAA	800

Dublin P-14	100	WRR	1280
El Paso P-9	100	KFPL	1310
	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

San Angelo Q-13	100	KMAC	1370
San Antonio R-14	100	KONO	1370
	100	KTAP	1420
	1000	KTSA	1290

Waco Q-15	50000	WOAI	1190
Wichita Falls O-14	1000	WACO	1240
	250	KGKO	570

UTAH

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

VERMONT

Burlington F-27	100	WCAX	1200
Rutland G-27	100	WBTV	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	WBTV	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	WFOR	780
	500	WTAR	780
Petersburg L-26	100	WLBG	1200
Richmond K-26	100	WBBL	1210
	100	WMBG	1210
	5000	WRVA	1130
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	KQWC	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

Spokane D-5	100	KFIO	1120
	1000	KFPY	1340
	5000	KGA	1470
	1000	KHQ	596

Tacoma D-3	500	KMO	860
	1000	KVI	700

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

WEST VIRGINIA

Bluefield L-24	100	WHIS	1420
Charleston K-23	250	WOBW	580
Fairmont J-24	250	WMMN	890
Huntington K-23	250	WSAZ	580
Wheeling J-24	5000	WVVA	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
	250	WOMT	1210
Manitowoc H-20	100	WHAD	1120
Milwaukee H-20	250	WISN	1120
	1000	WTMJ	620
Poynette H-19	100	WIBU	1310
Racine I-20	100	WRJN	1370
Sheboygan H-20	500	WHBL	1410
Stevens Pt. G-19	2000	WLBL	900
Superior F-17	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		Kcys.		Watts		Kcys.
ALBERTA				Charlottetown C-31			
Calgary B-7	500	CFAC	690	250	CFCY	960	
	500	CFCN	690	30	CHCK	960	
	500	CHCA	690	100	CHGS	1120	
	500	CJJC	690	QUEBEC			
	500	CNRC	690	Montreal E-26			
Edmonton A-8	250	CHMA	580	500	CFCF	1030	
	500	CJCA	930	5000	CHYC	730	
	500	CKUA	580	5000	CKAK	730	
Lethbridge C-8	50	CJOC	1120	5000	CNRM	730	
Red Deer A-8	1000	CHCT	840	100	CHRC	880	
	1000	CKLC	840	22	CKCI	880	
	1000	CNRD	840	50	CKCV	880	
				50	CNRQ	880	
BRITISH COLUMBIA				SASKATCHEWAN			
Chilliwack B-3	5	CHWK	1210	Fleming C-13	500	CJRW	600
Kamloops B-5	15	CFJC	1120	Moose Jaw C-11	500	CJRM	600
Sea Island	50	CJOR	1210	Pilot Butte	500	CHWC	960
Vancouver B-3	50	CHLS	730	Regina C-12	500	CJBR	960
	50	CKCD	730		500	CKCK	960
	50	CKFC	730	Saskatoon B-11	500	CNRR	960
	50	CKMO	730		500	CFQC	910
	100	CKWX	730	Yorkton C-13	500	CNRS	910
	500	CNRV	1030			CJGX	630
Victoria C-3	500	CFCT	630	HAITI			
				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
				Merida, Yuc. X-19	105	XEY	550
				Mexico City Y-13	1000	XEB	670
					1000	XEN	720
					101	XEO	980
					101	XER	1070
					5000	XEW	780
					500	XEX	920
					500	XEZ	700
					50	XFA	540
					2000	XFG	640
					1000	XFI	590
					500	XFX	860
					101	XEH	960
				Monterrey, N. L. U-13	500	XET	630
					101	XEI	1000
				Morelia, Mich. Y-12	105	XEF	1130
				Oaxaca, Oax. AA-14	10000	XED	960
				Reynosa, Tams.	10	XEL	1090
				Saltillo, Coah.	501	XEM	765
				Tampico, Tams.	500	XES	890
					50	XEC	1330
				Toluca, Mex.	101	XEU	800
				Veracruz, Ver.	250	XFE	920
				Villahermosa, Tab.			
				CUBA			
				Caibarien W-25	250	CMHD	920
				Cienfuegos W-25	200	CMHA	1150
				Colon W-24	300	CMGA	830
				Havana W-23	150	CMBC	1130
					200	CMBY	1405
					150	CMBZ	1010
					500	CMC	840
					100	CMCE	1280
					250	CMCF	1010
					1000	CMCQ	950
					500	CMJ	770
					2000	CMK	730
					150	CMQ	1130
					1000	CMW	588
					250	CMX	900
				Santiago X-28	150	CMKC	1360
				Tuinucu	500	CMHC	790
				COSTA RICA			
Waterloo G-23	50	CKCR	1010	San Jose FF-23	50	TIX	750
Wingham G-23	25	10-BP	1200				

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	CKCV 880	CNRL 910	KFJU 1310
Ch'lottet'n, P.E.I.	Quebec, Que.	London, Ont.	Juneau, Alaska
CFJC 1120	CKFC 730	CNRM 730	KFJZ 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	CKIC 930	CNRQ 880	KFJF 1480
Fredericton, N.B.	Wolfville, N.S.	Quebec, Que.	Oklahoma City
CFNC 910	CKLC 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.
CFCA 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	CNRX 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	CKUA 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	KNF 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
Chilliwick, B.C.	Havana, Cuba	Pittsburgh, Pa.	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	KFPW 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.
CJ CJ 690	CMHA 1150	KEX 1180	KFQD 1230
Calgary, Alta.	Cienfuegos, Cuba	Portland, Ore.	Anchorage, Alas.
CJCG 910	CMHC 790	KFAB 770	KFQU 1420
London, Ont.	Tuinuc, Cuba	Lincoln, Nebr.	Holy City, Cal.
CJGX 630	CMHD 920	KFBH 1280	KFQW 1420
Yorkton, Sask.	Caibarien, Cuba	Great Fls., Mont.	Seattle, Wash.
CJOC 1120	CMH 770	KFBK 1310	KFCF 610
Lethbridge, Alta.	Havana, Cuba	Sacramento, Cal.	San F'ncisco, Cal.
CJOR 1210	CMK 730	KFBL 1370	KFRU 630
Sea Island, B.C.	Havana, Cuba	Everett, Wash.	Columbia, Mo.
CJRM 600			
Moose Jaw, Sask.			

KFSD 600
 San Diego, Cal.
 KFSG 1120
 Los Angeles, Cal.
 KPUL 1290
 Galveston, Tex.
 KFUM 1270
 Col. Spgs., Colo.
 KFUO 550
 St. Louis, Mo.
 KPUP 1310
 Denver, Colo.
 KFVD 1000
 Culver City, Cal.
 KFVS 1210
 Cape Gir'rd'u, Mo.
 KFWB 950
 Hollywood, Cal.
 KFWF 1200
 St. Louis, Mo.
 KFWI 930
 San F'n'eisco, Cal.
 KFXD 1420
 Nampa, Idaho
 KFXF 920
 Denver, Colo.
 KFXJ 1310
 Edgewater, Colo.
 KFXM 1210
 San Ber'd'no, Cal.
 KFXR 1310
 Oklahoma City
 KFXZ 1420
 Flagstaff, Ariz.
 KFYO 1420
 Abilene, Texas
 KFYR 550
 Bismarck, N.D.
 KGA 1470
 Spokane, Wash.
 KGAR 1370
 Tucson, Ariz.
 KGB 1330
 San Diego, Cal.
 KGBU 900
 Ketchikan, Al'ka.
 KGBX 1310
 St. Joseph, Mo.
 KGBZ 930
 York, Nebr.
 KGCA 1270
 Decorah, Iowa
 KGCN 1210
 Watertown, S.D.
 KGCU 1200
 Mandan, N.D.
 KGCC 1310
 Wolf P't, Mont.
 KGDA 1370
 Mitchell, S. D.
 KGDE 1200
 Ferg's F'ls, Minn
 KGDM 100
 Stockton, Cal.
 KGDY 1200
 Huron, S. D.
 KGEF 1300
 Los Angeles, Cal.
 KGEK 1200
 Yuma, Colo.
 KGER 1360
 Long Beach, Cal.
 KGEW 1200
 Ft. Morgan, Colo.
 KGEZ 1310
 Kalispell, Mont.

KGFF 1420
 Alva, Okla.
 KGFG 1370
 Oklahoma City
 KGFI 1500
 Corpus Ch'sti, Tex
 KGfJ 1200
 Los Angeles, Cal.
 KGFK 1500
 Moorhead, Minn.
 KGFL 1370
 Raton, N. M.
 KGFW 1310
 Ravenna, Nebr.
 KGFX 580
 Pierre, S. D.
 KGGC 1420
 San F'n'eisco, Cal.
 KGGF 1010
 Coffeyville, Kans.
 KGGM 1230
 Alb'q'rque, N. M.
 KGHF 1320
 Pueblo, Colo.
 KGHI 1200
 Little Rock, Ark.
 KGHL 950
 Billings, Mont.
 KGIQ 1320
 Twin Falls, Ida.
 KGIR 1360
 Butte, Mont.
 KGIW 1420
 Trinidad, Colo.
 KGIX 1420
 Las Vegas, Nev.
 KGIZ 1500
 Grant City, Mo.
 KGJF 890
 Little Rock, Ark.
 KGKB 1500
 Brownwood, Tex.
 KGKL 1370
 San Angelo, Tex.
 KGKO 570
 Wichita F'ls., Tex
 KGKK 1420
 Sand Point, Ida.
 KGKY 1500
 Scottsbluff, Nebr.
 KGMB 1320
 Honolulu, T. H.
 KGMP 1210
 Elk City, Okla.
 KGNF 1430
 No. Platte, Neb.
 KGNO 1210
 Dodge City, Kans.
 KGO 790
 San F'n'eisco, Cal.
 KGRS 1410
 Amarillo, Texas
 KGU 940
 Honolulu, Hawaii
 KGW 620
 Portland, Ore.
 KGY 1200
 Lacey, Wash.
 KHJ 900
 Los Angeles, Cal.
 KHQ 590
 Spokane, Wash.
 KICK 1420
 Red Oak, Iowa.
 KID 1320
 Idaho Falls, Ida.

KIDO 1250
 Boise, Idaho
 KIT 1310
 Yakima, Wash.
 KJBS 1070
 San F'n'eisco, Cal.
 KJR 970
 Seattle, Wash.
 KLCN 1290
 Blytheville, Ark.
 KLO 1400
 Ogden, Utah
 KLPM 1420
 Minot, N. Dak.
 KLRA 1390
 Little Rock, Ark.
 KLS 1440
 Oakland, Cal.
 KLX 880
 Oakland, Cal.
 KLZ 560
 Denver, Colo.
 KMA 930
 Shennandoah, Ia.
 KMAC 1370
 San Antonio, Tex.
 KMBC 950
 Kan. City, Mo.
 KMED 1310
 Medford, Ore.
 KMIC 1120
 Inglewood, Cal.
 KMJ 1210
 Fresno, Cal.
 KMLB 1200
 Monroe, La.
 KMMJ 740
 Clay Ctr., Nebr.
 KMO 860
 Tacoma, Wash.
 KMOX 1090
 St. Louis, Mo.
 KMPC 710
 Los Angeles, Cal.
 KMTR 570
 Los Angeles, Cal.
 KNX 1050
 Los Angeles, Cal.
 KOA 830
 Denver, Colo.
 KOAC 550
 Corvallis, Ore.
 KOB 1180
 State Coll., N. M.
 KOCW 1400
 Chickasha, Okla.
 KOH 1380
 Reno, Nevada
 KOIL 1260
 Council Bluffs, Ia.
 KOIN 940
 Portland, Ore.
 KOL 1270
 Seattle, Wash.
 KOMO 920
 Seattle, Wash.
 KONO 1370
 San Antonio, Tex
 KOOS 1370
 Marshfield, Ore.
 KORE 1420
 Eugene, Ore.
 KOY 1390
 Phoenix, Ariz.
 KPCB 650
 Seattle, Wash.

KPJM 1500
 Prescott, Ariz.
 KPO 680
 San F'n'eisco, Cal.
 KPOF 880
 Denver, Colo.
 KPPC 1210
 Pasadena, Cal.
 KPQ 1500
 Wenatchee, Wash
 KPRC 920
 Houston, Texas
 KPSN 1360
 Pasadena, Cal.
 KQV 1380
 Pittsburgh, Pa.
 KQW 1010
 San Jose, Cal.
 KRE 1370
 Berkeley, Cal.
 KREG 1500
 Santa Ana, Cal.
 KRGV 1260
 Harlingen, Texas
 KRLD 1040
 Dallas, Texas
 KRMD 1310
 Shreveport, La.
 KROW 930
 Oakland, Cal.
 KRSC 1120
 Seattle, Wash.
 KSAC 580
 Manh'tt'n, Kans.
 KSCJ 1330
 Sioux City, Ia.
 KSD 550
 St. Louis, Mo.
 KSEI 900
 Pocatello, Idaho
 KSL 1130
 Salt Lake City
 KSMR 1200
 Santa Maria, Cal.
 KSO 1380
 Clarinda, Iowa
 KSOO 1110
 Sioux Falls, S.D.
 KSTP 1460
 St. Paul, Minn.
 KTAB 560
 San F'n'eisco, Cal.
 KTAP 1420
 San Antonio, Tex.
 KTAR 620
 Phoenix, Ariz.
 KTAT 1240
 Ft. Worth, Tex.
 KTBI 1300
 Los Angeles, Cal.
 KTBR 1300
 Portland, Ore.
 KTBS 1450
 Shreveport, La.
 KTHS 1040
 Hot Spgs., Ark.
 KTLK 1310
 Houston, Texas
 KTM 780
 Los Angeles, Cal.
 KTNT 1170
 Muscatine, Iowa
 KTRH 1120
 Houston, Texas
 KTSA 1290
 San Antonio, Tex.

KTSL 1310	WABC 860	WCAH 1430	WDEL 1120
Shreveport, La.	New York City	Columbus, Ohio	Wilmington, Del.
KTSM 1310	WABF 1200	WCAJ 590	WDGY 1180
El Paso, Texas	Bangor, Maine	Lincoln, Nebr.	Minneap., Minn.
KTW 1270	WABZ 1200	WCAL 1250	WDIX 1500
Seattle, Wash.	New Orleans, La.	Northfield, Minn.	Tupelo, Miss.
KUJ 1500	WACO 1240	WCAM 1280	WDOD 1280
Longview, Wash.	Waco, Texas	Camden, N. J.	Chattan'ga, Tenn.
KUOA 1390	WADC 1320	WCAO 600	WDRG 1330
Fayetteville, Ark.	Akron, Ohio	Baltimore, Md.	N. Haven, Conn.
KUSD 890	WAUJ 640	WCAP 1280	WDSU 1250
Vermillion, S. D.	Columbus, Ohio	Asbury Pk., N. J.	New Orleans, La.
KUT 1500	WALR 1210	WCAT 1200	WDWF 1210
Austin, Texas	Zanesville, Ohio	Rapid City, S. D.	Providence, R. I.
KVI 760	WAPI 1140	WCAU 1170	WDZ 1070
Tacoma, Wash.	Birmingham, Ala.	Philadelphia, Pa.	Tuscola, Ill.
KVL 1370	WASH 1270	WCAX 1200	WEAF 660
Seattle, Wash.	Gr. Rapids, Mich.	Burlington, Vt.	New York City
KVOA 1260	WBAA 1400	WCAY 1070	WEAL 1270
Tucson, Arizona	Lafayette, Ind.	Carthage, Ill.	Ithaca, N. Y.
KVOO 1140	WBAK 1430	WCBA 1440	WEAN 780
Tulsa, Okla.	Harrisburg, Pa.	Allentown, Pa.	Providence, R. I.
KVOS 1200	WBAL 1060	WCBD 1080	WEAO 570
Bellingh'm, Wash.	Baltimore, Md.	Zion, Ill.	Columbus, Ohio
KWCR 1310	WBAM 1440	WCBS 1370	WEBC 1290
Cedar Rapids, Ia.	Greensboro, N. C.	Baltimore, Md.	Superior, Wis.
KWEA 1210	WBAP 800	WCBS 1210	WEBQ 1210
Shreveport, La.	Fort Worth, Tex.	Springfield, Ill.	Harrisburg, Ill.
KWG 1200	WBAX 1210	WCCO 810	WEBR 1310
Stockton, Cal.	Wilkes-Barre, Pa.	Minneap., Minn.	Buffalo, N. Y.
KWJJ 1060	WBBC 1400	WCDA 1350	WEDC 1210
Portland, Ore.	Brooklyn, N. Y.	New York City	Chicago, Ill.
KWK 1350	WBBL 1210	WCFL 970	WEDH 1420
St. Louis, Mo.	Richmond, Va.	Chicago, Ill.	Erie, Pa.
KWKC 1370	WBDM 770	WCGU 1400	WEEL 590
Kansas City, Mo.	Chicago, Ill.	Brooklyn, N. Y.	Boston, Mass.
KWKH 850	WBEE 1300	WCKY 1490	WEHC 1200
Shreveport, La.	Brooklyn, N. Y.	Covington, Ky.	Emory, Va.
KWLC 1270	WBZZ 1200	WCLB 1500	WEHS 1420
Decorah, Iowa	Ponca City, Okla.	Long Beach, N. Y.	Evanston, Ill.
KWLS 1220	WBGM 1410	WCLO 1200	WEHT 1370
Pullman, Wash.	Bay City, Mich.	Janesville, Wis.	Philadelphia, Pa.
KWWG 1260	WBEN 900	WCLS 1310	WELL 1420
Brownsville, Tex.	Buffalo, N. Y.	Joliet, Ill.	BattleCreek, Mich.
KXA 570	WBFP 1370	WCMA 1400	WENR 870
Seattle, Wash.	Glens Falls, N. Y.	Culver, Ind.	Chicago, Ill.
KXL 1420	WBIS 1230	WCVA 1340	WEPS 1200
Portland, Ore.	Boston, Mass.	Pensacola, Fla.	Worcester, Mass.
KXO 1500	WBMS 1450	WCOC 880	WEVD 1300
El Centro, Cal.	Hackensack, N. J.	Meridian, Miss.	New York City
KXRO 1310	WBNY 1350	WCOD 1200	WEW 760
Aberdeen, Wash.	New York City	Harrisburg, Pa.	St. Louis, Mo.
KXYZ 1420	WBOW 1310	WCOR 1210	WEXL 1310
Houston, Texas	Terre Haute, Ind.	Yonkers, N. Y.	Royal Oak, Mich.
KYA 1230	WBRC 930	WCRW 1210	WFAA 800
San F'ncisco, Cal.	Birmingham, Ala.	Chicago, Ill.	Dallas, Texas
KYW 1020	WBRE 1310	WCSC 1360	WFAN 610
Chicago, Ill.	Wilkes-Barre, Pa.	Charleston, S. C.	Philadelphia, Pa.
KZM 1370	WBSO 920	WCSS 940	WFBC 1200
Hayward, Cal.	Well'T'yH'ls, Mass	Portland, Maine	Knoxville, Tenn.
NAA 690	WBT 1080	WCSS 1450	WFBE 1200
Arlington, Va.	Charlotte, N. C.	Springfield, Ohio	Cincinnati, Ohio
NBA 850	WBTM 1370	WDAA 1220	WFBG 1310
Balboa, C. Z.	Danville, Va.	Tampa, Fla.	Altoona, Pa.
TIX 750	WBZ 990	WDAF 610	WFBL 1360
San Jose, C. R.	Springfield, Mass.	Kansas City, Mo.	Syracuse, N. Y.
VAS 690	WBZA 990	WDAG 1410	WFBN 1230
Louisburg, N. S.	Boston, Mass.	Amerillo, Texas	Indianapolis, Ind.
WAAF 920	WCAC 600	WDAH 1310	WFBR 1270
Chicago, Ill.	Storrs, Conn.	El Paso, Texas	Baltimore, Md.
WAAM 1250	WCAD 1220	WDAY 940	WDFD 1310
Newark, N. J.	Canton, N. Y.	Fargo, N. D.	Flint, Mich.
WAAT 940	WCAE 1220	WDBJ 930	WFDV 1370
Jersey City, N. J.	Pittsburgh, Pa.	Roanoke, Va.	Rome, Ga.
WAAW 660		WDBO 1120	
Omaha, Nebr.		Orlando, Fla.	

WFDW 1420 Talladega, Ala.	WHBY 1200 Green Bay, Wis.	WJAZ 1490 Chicago, Ill.	WLB 1250 St. Paul, Minn.
WFI 560 Philadelphia, Pa.	WHDF 1370 Calumet, Mich.	WJBC 1200 La Salle, Ill.	WLBC 1310 Muncie, Ind.
WFIW 940 Hopkinsville, Ky.	WHDH 830 Boston, Mass.	WJBI 1210 Red Bank, N. J.	WLBF 1420 Kansas City, Kas.
WFJC 1450 Akron, Ohio	WHDI 1180 Minneapolis, Minn.	WJBK 1370 Detroit, Mich.	WLBG 1200 Ettrick, Va.
WFKD 1310 Philadelphia, Pa.	WHDL 1420 Tupper Lake, N. Y.	WJBL 1200 Decatur, Ill.	WLBL 900 Stevens Pt., Wis.
WFLA 620 Clearwater, Fla.	WHEC 1440 Rochester, N. Y.	WJBO 1420 New Orleans, La.	WLWB 1260 Oil City, Pa.
WGAL 1310 Lancaster, Pa.	WHFC 1420 Cicero, Ill.	WJBT 770 Chicago, Ill.	WLWBX 1500 L. I. City, N. Y.
WGAR 1450 Cleveland, Ohio	WHIS 1420 Bluefield, W. Va.	WJBU 1210 Lewisburg, Pa.	WLWBZ 620 Bangor, Me.
WGBB 1210 Freeport, N. Y.	WHK 1390 Cleveland, Ohio	WJBW 1200 New Orleans, La.	WLWI 1210 Ithaca, N. Y.
WGBC 1430 Memphis, Tenn.	WHN 1010 New York City	WJBY 1210 Gadsden, Ala.	WLX 1410 Lexington, Mass.
WGFB 630 Evansville, Ind.	WHO 1000 Des Moines, Ia.	WJDX 1270 Jackson, Miss.	WLEY 1370 Lexington, Mass.
WGBI 880 Scranton, Pa.	WHOM 1450 Jersey City, N. J.	WJDD 1130 Mooseheart, Ill.	WLIT 560 Philadelphia, Pa.
WGBS 600 New York City	WHP 1430 Harrisburg, Pa.	WJKS 1360 Gary, Ind.	WLOE 1500 Boston, Mass.
WGCM 1210 Gulfport, Miss.	WIAS 1420 Ottumwa, Iowa	WJR 750 Detroit, Mich.	WLS 870 Chicago, Ill.
WGCP 1250 Newark, N. J.	WIBA 1280 Madison, Wis.	WJSV 1460 Alexandria, Va.	WLSI 1210 Providence, R. I.
WGES 1360 Chicago, Ill.	WIBG 930 Elkins Park, Pa.	WJW 1210 Mansfield, Ohio	WLTH 1400 Brooklyn, N. Y.
WGH 1310 Newsp't News, Va.	WIBM 1370 Jackson, Mich.	WJZ 760 New York City	WLVA 1370 Lynchburg, Va.
WGL 1370 Ft. Wayne, Ind.	WIBO 560 Chicago, Ill.	WKAQ 890 San Juan, P. R.	WLW 700 Cincinnati, Ohio
WGMS 1250 St. Paul, Minn.	WIBR 1420 Steubenville, O.	WKAR 1040 E. Lansing, Mich.	WLWL 1100 New York City
WGN 720 Chicago, Ill.	WIBU 1310 Poynette, Wis.	WKAV 1310 Laconia, N. H.	WMAC 570 Syracuse, N. Y.
WGR 550 Buffalo, N. Y.	WIBW 580 Topeka, Kansas	WKBB 1310 Joliet, Ill.	WMAF 1410 S. D'r'tm'th, Mass.
WGST 890 Atlanta, Ga.	WIBX 1200 Utica, N. Y.	WKBC 1310 Birmingham, Ala.	WMAK 1040 Buffalo, N. Y.
WGY 790 Schenec'd'y, N. Y.	WICC 1190 Bridgeport, Conn.	WKBF 1400 Indianapolis, Ind.	WMAL 630 Washington, D. C.
WHA 940 Madison, Wis.	WIL 1200 St. Louis, Mo.	WKBH 1380 La Crosse, Wis.	WMAQ 670 Chicago, Ill.
WHAD 1120 Milwaukee, Wis.	WILL 890 Urbana, Ill.	WKBI 1420 Chicago, Ill.	WMAY 1200 St. Louis, Mo.
WHAM 1150 Rochester, N. Y.	WILM 1420 Wilmington, Del.	WKBN 570 Youngstown, O.	WMAZ 890 Macon, Ga.
WHAP 1300 New York City	WIOD 1300 Miami Bch., Fla.	WKBO 1450 Jersey City, N. J.	WMBA 1500 Newport, R. I.
WHAS 820 Louisville, Ky.	WIP 610 Philadelphia, Pa.	WKBQ 1350 New York City	WMBC 1420 Detroit, Mich.
WHAT 1310 Philadelphia, Pa.	WIS 1010 Columbia, S. C.	WKBS 1310 Galesburg, Ill.	WMBD 1440 Peoria Hgts., Ill.
WHAZ 1300 Troy, N. Y.	WISJ 780 Madison, Wis.	WKBV 1500 Connersville, Ind.	WMBG 1210 Richmond, Va.
WHB 860 Kansas City, Mo.	WISN 1120 Milwaukee, Wis.	WKBW 1480 Buffalo, N. Y.	WMBH 1420 Joplin, Mo.
WHBC 1200 Canton, Ohio	WJAC 1310 Johnstown, Pa.	WKBZ 1500 Ludington, Mich.	WMBI 1080 Chicago, Ill.
WHBD 1370 Mt. Orab, O.	WJAG 1060 Norfolk, Nebr.	WKJC 1200 Lancaster, Pa.	WMBJ 1500 Pittsburgh, Pa.
WHBF 1210 Rock Island, Ill.	WJAK 1310 Marion, Ind.	WKRC 550 Cincinnati, O.	WMBO 1310 Auburn, N. Y.
WHBL 1410 Sheboygan, Wis.	WJAR 890 Providence, R. I.	WKY 900 Oklahoma City	WMBQ 1500 Brooklyn, N. Y.
WHBQ 1370 Memphis, Tenn.	WJAS 1290 Pittsburgh, Pa.	WKZO 590 Be'n Spgs., Mich.	WMBR 1370 Tampa, Fla.
WHBU 1210 Anderson, Ind.	WJAX 900 Jacksonville, Fla.	WLAC 1470 Nashville, Tenn.	WMC 780 Memphis, Tenn.
	WJAY 610 Cleveland, Ohio	WLAP 1200 Louisville, Ky.	WMCA 570 New York City

WMMN 890
Fairmont, W. Va.
WMPC 1500
Lapeer, Mich.
WMRJ 1210
Jamaica, N. Y.
WMSG 1350
New York City
WMT 600
Waterloo, Iowa
WNAC 1230
Boston, Mass.
WNAD 1010
Norman, Okla.
WNAX 570
Yankton, S. D.
WNBF 1500
Bingh'm't'n, N. Y.
WNBH 1310
New B'df'd, Mass.
WNBO 1200
Washington, Pa.
WNBR 1430
Memphis, Tenn.
WNBW 1200
Carbondale, Pa.
WNBX 1200
Springfield, Vt.
WNBZ 1290
Saranacl'ke, N. Y.
WNJ 1450
Newark, N. J.
WNOX 560
Knoxville, Tenn.
WNYC 570
New York City
WOAI 1190
San Antonio, Tex.
WOAN 600
Law'nceb'g, Tenn.
WOAX 1280
Trenton, N. J.
WOBT 1310
Union City, Tenn.
WOBU 580
Charlest'n, W. Va.
WOC 1000
Davenport, Iowa
WOCL 1210
Jamestown, N. Y.
WODA 1250
Paterson, N. J.
WODX 1410
Mobile, Ala.
WOI 640
Ames, Iowa
WOKO 1440
P'ghkeepsie, N. Y.
WOL 1310
Washington, D.C.
WOMT 1210
Manitowoc, Wis.
WOOD 1270
Gr. Rapids, Mich.
WOPI 1500
Bristol, Tenn.
WOQ 1300
Kansas City, Mo.
WOR 710
Newark, N. J.
WORC 1200
Worcester, Mass.
WORD 1490
Chicago, Ill.
WOS 630
Jeff's'n City, Mo.

WOV 1130
New York City
WOW 590
Omaha, Nebr.
WOWO 1160
Ft. Wayne, Ind.
WPAD 1420
Paducah, Ky.
WPAP 1010
New York City
WPAP 1210
Pawtucket, R. I.
WPCC 560
Chicago, Ill.
WPCH 810
New York City
WPDF 1200
Flint, Mich.
WPEN 1500
Philadelphia, Pa.
WPG 1100
Atl'ntic City, N. J.
WPOE 1370
Patchogue, N. Y.
WFOR 780
Norfolk, Va.
WPSC 1230
State College, Pa.
WPTF 680
Raleigh, N. C.
WQAM 560
Miami, Fla.
WQAN 880
Scranton, Pa.
WQAO 1010
New York City
WQDM 1370
St. Albans, Vt.
WQDV 1500
Tupelo, Miss.
WQDX 1210
Thomasville, Ga.
WRAF 1200
La Porte, Ind.
WRAC 1370
Williamsport, Pa.
WRAW 1310
Reading, Pa.
WRAX 1020
Philadelphia, Pa.
WRBJ 1370
Hattiesburg, Miss.
WRBL 1200
Columbus, Ga.
WRBQ 1210
Greenville, Miss.
WRBT 1370
Wilmington, N.C.
WRBU 1210
Gastonia, N. C.
WRBX 1410
Roanoke, Va.
WRC 950
Washington, D.C.
WRDO 1370
Augusta, Me.
WRDW 1500
Augusta, Ga.
WREC 600
Memphis, Tenn.
WREN 1220
Lawrence, Kans.
WRHM 1250
Minneap., Minn.
WRJN 1370
Racine, Wis.
WRNY 1010
New York City

WROL 1310
Knoxville, Tenn.
WRR 1280
Dallas, Texas
WRUF 830
Gainesville, Fla.
WRVA 1110
Richmond, Va.
WSAI 1330
Cincinnati, Ohio
WSAJ 1310
Grove City, Pa.
WSAN 1440
Allentown, Pa.
WSAR 1450
Fall River, Mass.
WSAZ 580
Hunt'gton, W. Va.
WSB 740
Atlanta, Ga.
WSBC 1210
Chicago, Ill.
WSBT 1230
South Bend, Ind.
WSDA 1400
Brooklyn, N. Y.
WSEN 1210
Columbus, Ohio
WSFA 1410
Montgomery, Ala.
WSGH 1400
Brooklyn, N. Y.
WSIX 1210
Springfield, Tenn.
WSJS 1310
Winst.-Sal., N. C.
WSM 650
Nashville, Tenn.
WSMB 1320
New Orleans, La.
WSMK 1380
Dayton, Ohio
WSPA 1420
Spartanburg, S.C.
WSPD 1340
Toledo, Ohio
WSSH 1410
Boston, Mass.
WSUI 880
Iowa City, Ia.
WSUN 620
St. Petersb'g, Fla.
WSVS 1370
Buffalo, N. Y.
WSYR 570
Syracuse, N. Y.
WTAD 1440
Quincy, Ill.
WTAG 580
Worcester, Mass.
WTAM 1070
Cleveland, Ohio
WTAQ 1330
Eau Claire, Wis.
WTAR 780
Norfolk Va.
WTAW 1120
College Sta., Tex.
WTAX 1210
Springfield, Ill.
WTBO 1420
Cumberland, Md.
WTFI 1450
Toccoa, Ga.
WTIC 1060
Hartford, Conn.
WTMJ 620
Milwaukee, Wis.

WTNT 1470
Nashville, Tenn.
WTOC 1260
Savannah, Ga.
WWAE 1200
Hammond, Ind.
WWJ 920
Detroit, Mich.
WWL 850
New Orleans, La.
WWNC 570
Asheville, N. C.
WWRL 1500
Woodside, N. Y.
WWVA 1160
Wheeling, W. Va.
WXYZ 1240
Detroit, Mich.
XBA 1200
Guadalajara, Jal.
XEB 670
Mexico City
XEC 1330
Toluca, Mex.
XED 960
Reynosa, Tams.
XEF 1130
Oaxaca, Oax.
XEH 960
Monterrey, N. L.
XEI 1000
Morelia, Mich.
XEJ 860
Juarez, Chih.
XEL 1090
Saltillo, Coah.
XEM 765
Tampico, Tams.
XEN 720
Mexico City
XEO 980
Mexico City
XER 1070
Mexico City
XES 890
Tampico, Tamp.
XET 630
Monterrey, N. L.
XEU 800
Veracruz, Ver.
XEW 780
Mexico City
XEX 920
Mexico City
XEY 550
Merida, Yuc.
XEZ 700
Mexico City
XFA 540
Mexico City
XFC 630
Jalapa, Ver.
XFE 920
Villahermosa, Tab.
XFF 920
Chihuahua, Chih.
XFG 640
Mexico City
XFI 590
Mexico City
XFX 860
Mexico City
8WMC 720
St. Johns, N. F.
10BP 1200
Wingham, Ont.

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					
162	TNU		Carthage	Tunisia					
166		40000	Lahiti	Finland	553	SBD	600	Sundsvall	Sweden
167		1000	Norddeisch	Germany	563		4000	Munich	Germany
174		13500	Paris	France	571	RA30	1000	Dneipropetrovsk	Russia
176	RA43	4000	Kharkov	Russia	571	YLZ	10000	Riga	Latvia
187		5000	Angora	Turkey	580	RA38	1000	Krasnodar	Russia
193	SXK	25000	Daventry	Un. Kingdom	580	7ZL	600	Hobart	Australia
202.5		12000	Warsaw	Poland	581		15000	Vienna	Austria
207	RA1	40000	Moscow	Russia	590	ON4RB	3600	Brussels	Belgium
207.5	FI	15000	Paris	France	599	IMI	7000	Milan	Italy
222	SBG	30000	Motala	Sweden	600				
231	AFT	10000	Berlin	Germany					
240	TUA	500	Tunis	Tunisia					
250		100	Tallinn	Estonia					
250		6000	Osmanie	Turkey	600	CWOW		Montevideo	Uruguay
250	SBE	600	Boden	Sweden	606	XGZ	500	Nanking	China
260		7500	Kalundborg	Denmark	608	LKO	60000	Oslo	Norway
269	RA33	4000	Novorossisk	Russia	616	OKP	5000	Prague	Czechoslovakia
272	RA57	500	Irkutsk	Russia	620	JAR	1000	Melbourne	Australia
278	RA67	1200	Malchik	Russia	625	COTN	500	Tientsin	China
279	PCF	1500	Scheveningen	Netherlands	625	CMAB	1000	Santiago	Chile
280	PFBI	7000	Hilversum	Netherlands	625	RA17	1500	Vladivostok	Russia
285	RA15	500	Sverdlovsk	Russia	626	5GB	25000	Daventry	Un. Kingdom
285	RA49	1200	Erivan	Russia	631	RA43	4000	Kharkov	Russia
300	RA42	10000	Leningrad	Russia	633	EAJ8	1000	San Sebastian	Spain
307	RA40	1200	Odessa	Russia	635		8000	Langenburg	Germany
316	RA12	1200	Voronezh	Russia	644	YN	3000	Lyon	France
325	RA39	1200	Gomel	Russia	648	4YA	500	Dumedin	New Zealand
333	RA22	1200	Samara	Russia	653		630	Zurich	Switzerland
343	RA41	1200	Vologda	Russia	662	IBZ	200	Bolzano	Italy
345	RA11	4000	Tiflis	Russia	662		500	Klagenfurt	Austria
349	RA18	1200	Minsk	Russia	662	SCT	150	Uppsala	Sweden
357	RA13	1800	Nizhni-Novgorod	Russia	662	LKP	700	Porsbrund	Norway
366	RA14	4000	Rostov-on-Don	Russia	662		700	Aix la Chapelle	Germany
375	RA7	180	Ivanovo-Vosnesensk	Russia	662	EAJ22		Salamanca	Spain
375	RA9	250	Sevastopol	Russia	664	RUS	500	Salvador	Salvador
375		1750	Colombo	Ceylon	665	2FC	2500	Sydney	Australia
380	RA56	1200	Artemovsk	Russia	666	ZTJ	15000	Johannesburg	South Africa
389	SBF	600	Ostersund	Sweden	667	RA4	300	Moscow	Russia
393	RA46	2000	Petrozovodsk	Russia	667	RA2	500	Moscow	Russia
395		250	Geneva	Switzerland	671	PFPT	1000	Paris	France
397	RA5	1200	Kiev	Russia	671	LKR		Rjukan	Norway
400	RA8	700	Bogorodsk	Russia	671	LKA	350	Aalesund	Norway
400	RA45	4000	Baku	Russia	674	COHB	1000	Harbin	China
411	RA77	1200	Stalino	Russia	680	IRO	3000	Rome	Italy
417	RA47	200	Armavir	Russia	685	LT2	1000	LaPlata	Argentina
420	RA27	2000	Tashkent	Russia	688	SBA	1000	Stockholm	Sweden
429	RA26	1000	Astrakhan	Russia	689	FTB	500	Danzig	Danzig
435	RA44	1200	Tver	Russia	689	CAB	1000	Canton	China
442		600	Lausanne	Switzerland	689	SCN	250	Maimberget	Sweden
446	RA16	1200	Vel Ustjuk	Russia	690	6WF	1000	Perth	Australia
469	RA25	1000	Orenburg	Russia	695		2500	Belgrade	Yugoslavia
					698	JODK	1000	Keijo	Japan
500					700				
521	RA34	1000	Kourak	Russia	700	CWOA	1000	Montevideo	Uruguay
522		3000	Ljubljana	Yugoslavia	706	LS1	5000	Buenos Aires	Argentina
526	LKH	700	Hamar	Norway	706			Sorocaba	Brazil
527		1500	Freiburg	Germany	706	HJN	550	Bogota	Colombia
535		700	Augsburg	Germany	707.6	EAJ7	1500	Madrid	Spain
535		750	Hanover	Germany	708	JOJK	3000	Kanazawa	Japan
545	RA20	1200	Stavropol	Russia	714	RA32	200	Saratov	Russia
545		20000	Budapest	Hungary	714	COMK	2000	Mukden	China
545		12000	Bucharest	Rumania	714	JODK	1000	Heijo (Seoul)	Chosen (Korea)

Kcys.	Call	Watts	City	Country
717		4000	Berlin	Germany
718	2YA	5000	Wellington	New Zealand
724		2500	Rabat	Morocco
725		750	Dresden	Germany
730	5CL	2500	Adelaide	Australia
734		10000	Katowice	Poland
735		2200	Tartu	Estonia
743		1000	Berne	Switzerland
750	LR7	1250	Buenos Aires	Argentina
750	PRAA	1000	Rio de Janeiro	Brazil
750		250	Marsan	France
750	7LO	2000	Nairobi	Kenya
750	JOBK	10000	Osaka	Japan
750	EAJZ	750	Madrid	Spain
752	55C	1000	Glasgow	Un. Kingdom
759	JQAK	5000	Dairen	Kwangtung
760	LT4	500	Mendoza	Argentina
760	4QG	2500	Brisbane	Australia
769	JOHK	10000	Sendai	Japan
769		1500	Franfort on Main	Germany
777.2		500	Rheims	France
779		500	Wilna	Poland
779	LKF	700	Fredrikstad	Norway
779		8000	Toulouse	France
788	IGE	1200	Genoa	Italy
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	ZZY	1000	Manchester	Un. Kingdom

800

Kcys.	Call	Watts	City	Country
800	ZTC	1000	Cape Town	South Africa
800	3LO	2500	Melbourne	Australia
804	CMAC	1000	Santiago	Chile
806		4000	Hamburg	Germany
810	JOCK	10000	Nagoya	Japan
810	VUC	3000	Calcutta	India
815			Seville	Spain
824		2400	Algiers	Algeria
824	LKB	1000	Bergen	Norway
825	F8GC	1500	Paris	France
825.3	8DB	100	Algiers	Algeria
828	LR5	2000	Buenos Aires	Argentina
831	JOIK	10000	Sapporo	Japan
833		4000	Stuttgart	Germany
833	PRAE	1000	Sao Paulo	Brazil
840	G5	250	Venado Tuerto	Argentina
840	VUB	3000	Bombay	India
842	ZLO	30000	London	Un. Kingdom
849	JOFK	10000	Hiroshima	Japan
851		7000	Graz	Austria
855	ZBL	2500	Sydney	Australia
857	ZBW	1500	Victoria Peak	Hong Kong
857	PRAD	500	Rio de Janeiro	Brazil
857	CWOR	500	Montevideo	Uruguay
860	EAJJ	7500	Barcelona	Spain
869			Cairo	Egypt
869	JOAK	10000	Tokyo	Japan
870	LR2	3000	Buenos Aires	Argentina
877	OKB	2500	Brunn	Czechoslovakia
882	E4	350	Azul	Argentina
887	KRC	250	Shanghai	China
887	ON4GT	100	Brussels	Belgium
895	XGY	250	Hangchow	China
896		1500	Poznan	Poland

900

Kcys.	Call	Watts	City	Country
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

Kcys.	Call	Watts	City	Country
923		4000	Breslau	Germany
930	4RK	2000	Rockhampton	Australia
931	SBB	10000	Goteborg	Sweden
937	PRAB	500	Rio de Janeiro	Brazil
937	COPK	1000	Peking	China
940	ZRN	1500	Dublin	Irish Free St.
941		250	Basle	Switzerland
942	CT1AA	1000	Lisbon	Portugal
949	LR3	1000	Buenos Aires	Argentina
950	ZGB	600	Sydney	Australia
950		500	Marseilles	France
950		700	Bremen	Germany
956	K4	250	Tucuman	Argentina
959		1500	Krakow	Poland
960	5DN	100	Adelaide	Australia
963.1	FZBD	480	Agen	France
967.8		2000	Paris	France
967	PRAP	300	Pernambuco	Brazil
968	5WA	1000	Cardiff	Un. Kingdom
973		700	Zagreb	Yugoslavia
980	3TA	500	Christchurch	New Zealand
983.6	PIAA	500	Lisbon	Portugal
986		1500	Bordeaux	France
990	LR4	2000	Buenos Aires	Argentina
995	ZBD	1000	Aberdeen	Un. Kingdom

1000

Kcys.	Call	Watts	City	Country
1000	RAZ1	150	Tomsk	Russia
1000	OPX	1000	LaPaz	Bolivia
1004	PFB1	7000	Hilversum	Netherlands
1004	SCC	500	Falun	Sweden
1009		200	Jyvaskyla	Finland
1010	6ML	300	Perth	Australia
1013		10000	Tallinn	Estonia
1016	CMAO	250	Santiago	Chile
1022		500	Limoges	France
1023	OKK	2500	Kosice	Czechoslovakia
1025	ZUE	50	Sydney	Australia
1029.9	YR	500	Lyon	France
1030		750	Vipuri	Finland
1030	LR9	2000	Buenos Aires	Argentina
1031	ITO	7000	Turin	Italy
1034	CMAJ	100	Valparaiso	Chile
1040	6BM	1000	Bournemouth	Un. Kingdom
1040	6LV	130	Liverpool	Un. Kingdom
1040	ZDE	130	Dundee	Un. Kingdom
1040	ZEH	350	Edinburgh	Un. Kingdom
1040	6KH	130	Hull	Un. Kingdom
1040	5PY	130	Plymouth	Un. Kingdom
1040	ZLS	130	Leeds & Bradford	Un. Kingdom
1040	6FL	130	Sheffield	Un. Kingdom
1040	6ST	130	Stoke on Trent	Un. Kingdom
1040	5SX	130	Swansea	Un. Kingdom
1049	ZZF	150	Palmerston	New Zealand
1049		200	Montpellier	France
1050	D5		Bahia Blanca	Argentina
1058		500	Innsbruck	Austria
1059		2000	Berlin	Germany
1059			Magdeburg	Germany
1059		750	Stettin	Germany
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	LS5	1000	Buenos Aires	Argentina
1080		200	Caen	France
1086		4000	Konigsberg	Germany
1090	LT3	1500	Rosario	Argentina
1091		250	Angers	France

1100

Kcys.	Call	Watts	City	Country
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	2ZM	160	Gisborne	New Zealand
1148	5N0	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

Kcys.	Call	Watts	City	Country
1200	.....	500	Toulon	France
1200	5KA	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	Biorenberg (Por)	Finland
1219	.....	750	Jakobstad	Finland
1219	SCI	200	Kiruna	Sweden
1220	SCB	200	Eskilstuna	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

Kcys.	Call	Watts	City	Country
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	.....	1500	Flensburg	Germany
1375	SCK	250	Karlstad	Sweden
1388	ON4CE	200	Chatelineau	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

Kcys.	Call	Watts	City	Country
1500				
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	East Indies
3088	.....	2000	Soro	Brazil
3446	.....	2500	Haiphong	Denmark
3529.4	H9XD	.....	Zurich	France
3750	F8AV	.....	Nogent-sur-Seine	France
3998	PK1AA	500	Batabia	Netherland
4262.3	F8GC	1500	Paris	East Indies
4434	.....	.....	Doberitz	France
5169	OK1MPI	5000	Prague	Germany
5170	IBR	1000	Bandoeng	Czechoslovakia
5290	AGJ	.....	Nauen	Netherland
5552	AFT	10000	Berlin	East Indies
5879	AIN	.....	Casablanca	Germany
5996	PK2AF	500	Djakakarta	Germany
5996	3ZC	.....	Christchurch	Morocco
6005	HRB	2300	Tegucigalpa	Netherland
6057	.....	500	Lyngby	East Indies
6662	PH3CH	250	Surabaya	New Zealand
6666	7IRAX	.....	Rome	Honduras
6877	.....	2500	Rabat	Denmark
7005	8KR	.....	Constantine	Italy
7055	VS3AB	.....	Johore	Morocco
7260	VS1AB	.....	Singapore	Tunisia
7313	PK6KZ	500	Makassar	Brit. Malaya
7317.1	.....	2000	Paris	Brit. Malaya
7462.7	YR	500	Lyon	Netherland
7590	JFAB	.....	Taipei	East Indies
7963	.....	.....	Doberitz	France
7995	JHBB	.....	Hirasio	Japan
8818	.....	.....	Para	Germany
8995	.....	500	Reykjavik	Japan
9225	2BL	1000	Sydney	Brazil
9369	ZTJ	15000	Johannesburg	Iceland
9369	3LO	1000	Melbourne	Australia
9375	.....	1000	Berne	Australia
9375	H9XD	.....	Zurich	South Africa
9375	FL	15000	Paris	Australia
9488	.....	500	Lyngby	Switzerland
9640	7LO	1000	Nairobi	Switzerland
9761	F2BD	480	Agen	France
9772	EAM	.....	Madrid	France
9994	LGN	.....	Bergen	Denmark
10520	2FC	1000	Sydney	Kenya
10520	2ME	.....	Sydney	France
11760	SAS	.....	Karlsborg	Spain
12490	SQBE	.....	Bahia	Norway
15300	.....	500	Lyngby	Norway
17430	AGC	.....	Nauen	Australia
17640	PLF	.....	Malabar	Australia
17778	PHI	40000	Huizen	Sweden
19355	.....	.....	Nancy	Sweden
59964	PK4PA	240	Palembang	Brazil
.....	.....	.....	Lyngby	Denmark
.....	.....	.....	Nauen	Germany
.....	.....	.....	Malabar	Netherland
.....	.....	.....	.....	East Indies
.....	.....	.....	.....	East Indies
.....	.....	.....	.....	Netherlands
.....	.....	.....	.....	France
.....	.....	.....	.....	Netherland
.....	.....	.....	.....	East Indies

FAVORITE PROGRAMS

Time		Station	Dials	Feature	Time		Station	Dials	Feature
DAILY					WEDNESDAY				
Pm	5:45	ES	66	Mountaineers	am	7:30	57		Health talk
Pm	6:00	EM	76	Raising Junior	8:30	ES	66		cheerio
Pm	6:45	ES	76	Literary Digest	7:30	ESS	76		Phil Cook
Pm	7:00	ES	76	Amos n. Andy					
Pm	6:00	EM	71	Uncle Don					
A.M.	8:00	ES	60	Jake and Rena					
P.M.	10:30	ES	76	Clara, Lu n' Sam					
SUNDAY					THURSDAY				
P.M.	6:30		76	Cooks to eat					
P.M.	8:15		76	Cherry Tree					
P.M.	9:30		76	Movie Adventures					
MONDAY					FRIDAY				
					9 P.M.	86			True Story Hour
TUESDAY					SATURDAY				

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 kcs. 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 kcs. 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 kcs. are 72-70 and the dial numbers for 660 kcs. are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 650 kcs. 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 kcs. Now it is

clear that if we reset our dials at 71-69 our set will be tuned to 640 kcs. and at that point KFJ 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 page 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

KHO 1909 Spokane, Wash.
WCAJ 805 Lincoln, Neb.
WEEI 509 Boston, Mass.
WOW 1008 Omaha, Neb.
WABC 1008 Mexico Springs, Mich.

76 74

Lincoln Western Inc.
Nebraska Wesleyan University
Edson Elec. Illuminating Co.
Woodmen of the World
Commerce Publishing Co.

600 kilocycles 499.7 meters

CFCH 259 Inogoua Falls, Ont.
KFBH 808 Laramie, Wyo.
KFSD 590 San Diego, Calif.
WCAO 259 Baltimore, Md.
WDBY 259 Heli, Wis.
WDSB 509 Lawrenceburg, Tenn.
WREZ 259 Memphis, Tenn.
WTCB 259 Hartford, Conn.

75 73

Abtini Power & Paper Co.
Bishop N. S. Thomas
Alfred Radio Corp.
Monogram Radio Co., Inc.
Bretel College
Yankee School of Music
WREZ, Inc.
Treasurer Insurance Co.

610 kilocycles 491.5 meters

KPBC 1009 San Francisco, Calif.
WDAF 1009 San Francisco, Calif.
WIP 500 Philadelphia, Pa.
WGO 1009 Kansas City, Mo.

74 72

Dun Lee, Inc.
Kansas City Star Co.
Krayton Broadcasting Co., Inc.
Chicago, Ill.
Unity School of Christianity

620 kilocycles 483.6 meters

KPAD 509 Phoenix, Ariz.
KFBH 808 Laramie, Wyo.
WDAE 1009 Tallahassee, Fla.
WDBD 1009 Orlando, Fla.
WELZ 509 Dover-Foxcroft, Me.
WTKJ 1009 Milwaukee, Wis.

73 71

Electrical Equipment Co.
Owens Publishing Co.
Famous Publishing Co.
Columbia College, Inc.
Thompson L. Guernsey
Milwaukee Journal

630 kilocycles 475.9 meters

CFCT 509 Victoria, B. C.
CJCB 509 Toronto, Ont.
CJCL 509 Toronto, Ont.
CVR 259 Madison, Wis.
KJLU 509 Madison, Wis.
WGRY 259 Evansville, Ind.
WVAL 259 Washington, D. C.
WOS 509 Jefferson City, Mo.

72 70

Victoria Broadcasting Ass'n.
Vancouver Grain Exchange
Canadian National Railway
Cassidy Lumber
Columbia College
Evansville on the Air, Inc.
N. A. & S. W. Co.
State Marketing Bureau

640 kilocycles 468.5 meters

KPI 2000 Los Angeles, Calif.
WAIU 2000 Columbus, Ohio

71 69

Earle C. Anthony, Inc.
American Insurance Union

650 kilocycles 461.3 meters

WSM 5000 Nashville, Tenn.

70 68

National Life & Accident Ins. Co.

660 kilocycles 454.3 meters

WEAF 5000 Omaha, Neb.
WEAF 5000 New York City

69 67

Omaha Grain Exchange
National Broadcasting Co., Inc.

670 kilocycles 447.5 meters

WMAO 2000 Chicago, Ill.

68 66

Chicago Daily News

680 kilocycles 440.9 meters

WPTP 2000 San Francisco, Calif.
WPTP 2000 Raleigh, N. C.

67 65

Hale Iron & Tin Chronicle
Durham 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

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 \$1,800 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 operating men, 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 \$30 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 servicing 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

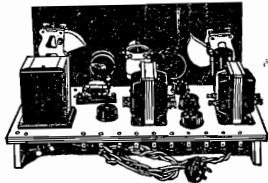
Radio principles are used in Talking Movies, Television and home Television experiments. Wired Radio, Radio's use in Aviation, are all given. I am so sure that I can train you satisfactorily that I will agree in writing to refund every penny of your tuition if you are not satisfied with my Lessons and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

64-page book of information FREE

Get your copy today. It tells you where Radio's good jobs are, what they pay, tells you about your course, what others who have taken it are doing and making. Find out what Radio offers you, without the slightest obligation. ACT NOW.

J. E. SMITH, President
National Radio Institute Dept. ON52
Washington, D. C.

You can build over 100 circuits with these outfits. You build and experiment with the circuits used in Crosley, Atwater-Kent, Eveready, Majestic, Zenith, and other popular sets. You learn how these sets work, why they work, how to make them work. This makes learning at home easy, fascinating, practical.
Back view of 5 tube Screen Grid A. C. tuned Radio frequency set—one of many circuits you can build with my outfits.



I am doubling and tripling the salaries of many in one year and less Find out about this quick way to

**BIGGER
PAY**



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J. E. SMITH, President,
National Radio Institute, Dept. ON62
Washington, D. C.
Dear Mr. Smith: Send me your book.
This request does not obligate me

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Address

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\$50 extra in 6 months

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Lifetime Employment Service to all Graduates

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