

THE NOVEMBER 1930

# RADIO INDEX

The Magazine that Doubles the Pleasure of Radio



25<sup>c</sup>

Radio All Over the House  
Multiple Speakers and Remote Controls  
What Makes My Set Act Like That?  
The Thrill of the Distant Station  
World Stations Listed by Frequencies

No. 43

N. S. E.

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THE NOVEMBER 1930



# RADIO IN DEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



SEVENTH YEAR

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# RADIO ALL OVER the HOUSE

WITH the continued advancement in radio receiving apparatus there are many users who are no longer satisfied with having merely a radio, be it ever so good, but demand additional equipment which will facilitate using and controlling the set. The disadvantage, they say, of having one central radio set, especially in the case of homes and large apartments, is that the reception can be enjoyed only in the room containing the receiver and in those immediately adjoining it. There are often times when it is desirable to have reception in the bedroom, the dining room, kitchen or other places. Turning up the volume of the receiver located in the living room so that reception can be fairly well heard in the other rooms makes it uncomfortably loud in the living room, which is highly objectionable. The problem has been solved in many cases by using additional loudspeakers distributed at various points about the house, and this method has given a degree of satisfaction. In other instances human indolence demanded still more in the way of controlling the receiver from remote points, for who cares to get out of bed every few minutes to change the program, which seemed promising at first, but lapsed into the monotony of "bla-bla" advertising. So it became necessary to design devices which permitted the user to turn the receiver on and off at one or more remote points, to control the volume and to even tune in various stations as desired. This is what is embraced by remote-control systems applied to radio reception. Obviously, such systems usually include a separate switch so that each individual speaker can be turned off without affecting the reception at other speakers where the continuance of the program may be desired.

## Attaching Control

Of course, the selector type of remote-control systems are quite expensive, but in many instances such expense can be justified. A wide range of prices make it possible for the radio fan to select the

## Multiple Speakers and Remote Control

type which suits his particular requirements. There are a number of remote-control devices on the market that can be attached to almost any single-dial receiver, and the manufacturers provide complete detailed instructions on the method of connecting them to the receiver. However, as a precaution, a buyer should first explain just what kind of a set he has before purchasing a device so that he may be reasonably certain that the device in view can be fitted to his receiver without encountering considerable difficulty.

Just what kind of remote control you can use on your set depends on your particular set. It is possible, in almost any case, to merely extend one or more speaker cords to other rooms and similarly extend remote switches for turning the set on and off. Although a receiver having a power tube will provide sufficient volume for several speakers, a push-pull audio amplifier is preferable.

For the sake of convenience good magnetic speakers may be used instead of dynamic speakers, as the latter have to be supplied with a. c. from a source available to each one. On a receiver having two 245 power tubes in push-pull, enough energy is supplied to operate from 12 to 15 magnetic speakers, if wired up correctly. If a dynamic speaker is incorporated in the receiver, this will consume from one-third to one-half of the total energy, reducing the number of additional magnetic speakers to six or seven, which is more than usually needed.

## Special Coupling Necessary

In this case a special coupling transformer must be used. Its primary winding must be connected in series with the voice coil—the coil around the apex of the dynamic-speaker cone—while its secondary winding supplies the extra speakers. With the use of this output transformer the additional magnetic speakers should be wired in parallel,



that is, the two terminals on each speaker must connect to the two terminals on the output transformer or to leads coming from these terminals. Such a parallel hookup is best for the simple reason that each speaker can be switched off separately by means of a single point switch cut in either one of the leads supplying it from the main lines running to the set. Another advantage obtained in this way is that a breakdown of one speaker will not affect the operation of the others.

Both of these advantages are not had if the speakers are all wired in series, that is, when one terminal of the output transformer connects to one terminal of

and two speakers of the same kind, having equal impedance values, are used in series, the total impedance will be just twice as much as that of each speaker. On the other hand, if two of these speakers are connected in parallel, the total impedance is only one-half that of a single speaker. So to keep the exact impedance value of a single speaker with four speakers, two should be connected in parallel and two in series. The series effect of increasing the impedance will then be counterbalanced by the parallel effect of decreasing it. This rule also holds true in the case of several dynamic speakers hooked to one source of supply.

*Eddie Cantor, stage, movie and radio star, with two pretty charmers from "Whoopee" who helped start the Radio Follies on the CBS chain. What a life!*



the first speaker, the second terminal of the first speaker connects to the first terminal of the second speaker, the second terminal of the second speaker connects to the first terminal of the third speaker, etc., until the second terminal of the last speaker in the line connects to the remaining open terminal of the output transformer. By making a diagram while following the exact explanation of parallel and series wiring, you will be able to get a clear idea of the difference between the two methods.

#### **Magnetic Speakers**

If your set is equipped with a magnetic speaker, it is absolutely essential that you keep the same impedance value, even though you add several speakers. If the present speaker is disconnected

#### **Remote Selection**

The installation of a selector type of remote-control system, or one which enables the fan to actually tune in the stations at distance points from the receiver, either by means of push buttons to bring in any one of a number of predetermined stations, or by means of a device enabling the user to voluntarily set the receiver at any point on the dial, is really not a difficult task if the instructions provided by the manufacturer are carefully followed. Unless suitably protected with special interference-elimination devices, a motor-driven remote control may cause a clicking of considerable volume and annoyance. This objection to motor-driven control is

*(Continued on page 21)*

# WHAT Makes My Set ACT LIKE THAT?

## Diseases of Radio and Their Cure

*I have a Rogers Model 210 a. c. receiver using the top feed A. C. tubes similar to the Kellog. I had the chassis out of the console and by accident I discovered that I could greatly increase the volume by holding the volume control shaft in my hand and increase it even more by touching the frame of my earphones with my other hand, the frame being insulated from the earphones themselves. I thought this strange so I ran an extra lead on my earphone wire and connected it to the shaft terminal of the rheostat and now without this wire reception is almost impossible. The volume isn't up to normal with the wire disconnected. My tubes are almost dead, especially my power tube. Could this have any bearing on my trouble?*

Your method on increasing the volume in your receiver is quite extraordinary, but the real cause of your low volume is poor tubes. Have the tubes renewed and you will no longer need the extra lead attached to the headphones.

### Using 199 Tubes

*Will a Freshman Five-tube Masterpiece work when equipped with UV199 tubes as well as it does on UX201A tubes? I want to put adapters in the sockets and try the small tubes. I am having a lot of trouble with my storage battery but would like to have the set last me until I can get an all-electric, which will be about a year from now. I have operated the set for three months and have logged 110 stations, 75 of which are out of town, and many more that I could not hear distinctly.*

You cannot expect as good results from a set equipped with UV199 tubes as you could from the same set equipped with UX201A tubes, as the latter have a much greater amplification value. However, the small tubes may give satisfactory results for your purpose, especially if you are having trouble with your storage battery, although it may be possible to pick up a new storage battery for practically the same price as new UV199 tubes, which should also

be considered. In view of the trouble you are experiencing, your number of DX stations is rather surprising.

### Poor Reception on 660

*I have a little trouble with my receiver. It is a nine-tube Priess battery-operated set. When I turn the dial up to WEAf, I get a grumbling sound and I don't get any music or other reception. The only station is the local station WRAW which I get satisfactorily. I can't even get a Philadelphia station although not very far from that city.*

There is really not enough information in your letter to tell precisely where the trouble lies. The fact, however, that you cannot get any outside stations seems to indicate a lack of sensitivity and poor amplification, both of which can undoubtedly be remedied by providing your set with new tubes. Low batteries will also case the same trouble in the event that your tubes are still in good condition. At any rate, have the tubes and batteries tested. It seems that your set breaks into oscillation when the dial is turned to a certain point, which might indicate that the A-battery is very weak in proportion to the B-battery. In case you are using a B-eliminator, the rectifying device should be tested.

### Broad Tuning

*Some time ago I made radio-frequency coils for a receiver I was building. After the set was completed I found that it gives satisfactory reception except that the tuning is too broad. I suspect that the coils are responsible for this trouble. The secondary windings are 2 inches in diameter and have 110 turns. While the primary winding is 1¼ inches in diameter, and has 20 turns. There are two stages of r. f. in this set and it has three coils.*

You are correct about suspecting that your trouble is caused by the coils. The secondary windings are all right, but a diameter of 1½ inches instead of 1¾ inches, will give looser coupling which will increase selectivity. Also reduce the number of turns of the priming winding on the first or tuning

coil to about 10 or 12, which will greatly help to make the set sharp. Another method of obtaining loose coupling without changing the size and winding of the primaries, is to pivot them so that they can be turned out of line or at an angle to the secondaries.

### Too Much Bass

*On our console radio having a resistance-coupled audio amplifier and a dynamic loudspeaker incorporated in the set, the bass notes are over-emphasized, while the reproduction of the higher frequencies is really insufficient. Is there any method of making a minor change in the set that will remedy this fault?*

There are two simple methods you can follow in reducing the bass notes and at the same time increasing those on the other end of the frequency band. One is to lower the resistance value of the grid leak, which connects to the detector tube and the other to decrease the value of the blocking condensers that are inserted between the resistors of each stage of audio in a resistance coupled amplifier. Cutting down the grid leak value has a tendency of decreasing the volume of all notes, but especially those of the lower end of the scale.

### Remote Control

*Is a remote-control device that operates the tuning dial of a receiver dependable, or is it likely to function incorrectly, thus causing more trouble than convenience?*

The degree of satisfaction of a remote-control device varies in accordance with the degree of precision it is made. Obviously, when purchasing such a device, one should get the best on the market. Usually a reputable manufacturer will not turn out an inferior product. These devices are adjustable and can be accurately set to turn a dial where it is wanted. One should bear in mind that these devices will function better and without the tendency of getting out of adjustment on a receiver that tunes just a little broad, than it will on one that tunes extremely sharp. Similarly, a control may be found satisfactory for tuning in local stations, while it might be a rather difficult matter to adjust it to bring in distant stations to

*(Continued on page 15)*

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# OUR Readers Give Their Views on RADIO

**E**VERY once in a while readers try to catch us napping by checking their RADEX with a list of stations issued by the Federal Radio Commission and write us regarding the differences they find. Thus Joseph J. Becker, 415 South 11th Street, Hamilton, Ohio, says: "You list WJBC as owned by the Kaskaskia Broadcasting Company and the Federal Radio Commission lists them as the Hummer Furniture Co. You still have WGM and WOOP listed, but the Radio Commission says no."

We always welcome having errors or discrepancies called to our attention, but the Commission issues a new list but infrequently, while RADEX is corrected monthly. As a result we are often ahead of the Commission's list. This is the case with WJBC. It was transferred from the Hummer Furniture Co. to the Kaskaskia Broadcasting Co. in September and the next Commission list will undoubtedly show this change. With regard to WGM and WOOP, the Commission indicates that these are out-law stations, but as long as they are on the air and received by our readers, we will continue to include them. We cannot stop them from broadcasting but the Commission presumably can. By the way, have any of our readers heard these two stations lately?

## Discourteous Stations

Mr. Becker says further: "I have written to WODX and KFKB four times and if I don't get an answer soon, why then I will give it up as an impossible task." As these two stations are not shown in RADEX as welcoming letters from listeners, the fact is indicated that they do not care to verify reception or hear from their listeners-in. Several readers have sent us lists of the stations which have acknowledged their reception in order that we might add them to our list of stations which verify. We do not avail ourselves of this help for the reason that we want a definite acknowledgement of their practice from the stations themselves for then the symbols given in the Index by Frequencies will

## Pithy Comment on Sundry Matters

be authentic and official. Quite often one reader will report some particular station verifying while other readers complain that that very station fails to answer their letters or even their dimes! Our readers may take our symbols, therefore, as indicating that we have a letter on file from the station giving its practice as shown by the symbol. Among those who have been kind enough to send us their lists are: Victor J. Ball, 226 Sumner Avenue, Aurora, Ill., Wm. Hanauer, Jr., 25 Johnson Avenue, Newark, N. J., George R. Parker, 1103 Clifton Avenue, Collingdale, Penna., and several others.

## Some Cuban Stations

The broadcasting situation in Cuba is still evidently unstable and stations there seem to be moving around the ether trying to find a more comfortable bed. William Helfer, 9909 Heath Avenue, Cleveland, Ohio, writes: "On September 27th I received a station in Havana, Cuba, at 1:26 operating between 1200 and 1210 kcys., and on October 1st I received one at 8:30 operating between 590 and 580. There are no Cuban stations listed in RADEX at these frequencies and I couldn't get the call letters clearly. Can you tell me what stations these were?" The nearest stations to the frequencies given of which we have any record are, CMBC on 1225 and CMW on 595, respectively.

John Malone, Lacon, Ill., calls our attention to the following Cuban stations which are not listed and asks if they have been discontinued—CMJA, CKJC, CMHF, CMJB, CMJD. These stations still exist according to the Cuban government but they are not listed in RADEX because of their extremely low power. The location, power and frequency follows:

CMJA, Camaguey, 1333 kcys., 10 w.  
CMJC, Camaguey, 1321 kcys., 15 w.  
CMHF, Camajuani, 1500 kcys., 20 w.



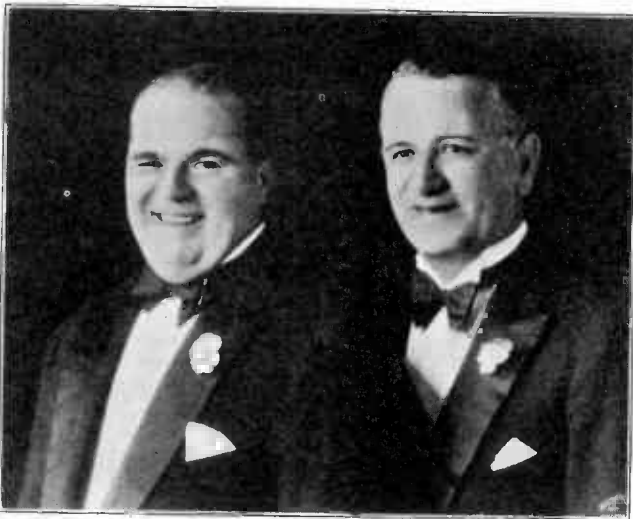
CMJB, Ciego de Avila, 1333 kcs., 10 w.  
CMJD, Ciego de Avila, 1561 kcs., 15 w.

### More Power Wanted

Deane S. Kintner, Director of Public Relations of Station WHK, Cleveland, writes us that unfortunately that station is not entitled to the symbol given in RADEX indicating that a construction permit had been granted to increase power. We find that this symbol was added when WHK was given authority to increase their facilities and not their power. Mr. Kintner adds: "No one could be better pleased than ourselves if this were the case, but so far as we are

from WHK. RADEX is on record as favoring obedience to the empire's decisions, but it is difficult to follow the Commission's logic in this case.

"A Daytonian," R. F. D. 1, Osborn, Ohio, commends Philip M. C. Armstrong, of Detroit, for his letter regarding WWJ. "I have been a fan for a long time and I know that WWJ has been given a mighty rotten deal. Use your influence to help a real station that deserves a break. Good old WWJ. And sometime give a word to WSMK at Dayton; they're getting there." This unknown friend adds: "What Our



*Here, ladies, are two handsome stars of WLW You may hear them every Wednesday at 10:00 p.m. on the Kingstaste Night Club program. On your left Mr. Billy Church and on your right, Mr. Jack Richards, both graduates of Al. G. Field's Minstrels.*

aware, it is not. Since our new transmitter was completed, we have been on record as desiring 5,000 instead of 1,000 watts, but so far only the smaller amount is permitted. We have been refused 2,500 watts in the daytime when likelihood of interference would be at a minimum. WHK is one of the early pioneers in the broadcasting era. Their programs have been good and they have a large following in Ohio and nearby states who would be glad to see the Commission grant this station additional power. But so far the Commission has refused to do so although this month they are permitting a new station in Cleveland to operate on 1450 kilocycles—only six channels

Readers Are Thinking' is a source of much pleasure, knowledge and food for thought. Your little magazine is a peach. I have read it for a long time and enjoy it a whole lot."

The new station for Cleveland, which will be known as WGAR, is a consolidation of WFJC at Akron, Ohio, and WCSO at Springfield, Ohio. It will use the 1450 frequency with 1000 watts power. The new station is said to be backed by the interests controlling WJR, Detroit, and will carry the NBC programs not now broadcast from Cleveland.

### Some Elusive Calls

"I have received a station whose call letters are KSHI, broadcasting between

1270 and 1310 keys," writes Albert Brehm, Hamilton Apartments, Cincinnati, Ohio. As there is no such call, the nearest guess we can make is KFJY, at Fort Dodge, Iowa, on 1310. Martin Howard, 14-year-old DXer of 1721 Linden Avenue, Baltimore, Md., asks about WHFK, Westinghouse, Pittsburgh. This was probably the short-wave station W8FK heard on a harmonic. Martin sends us a radio magazine which he is publishing (on a typewriter) named "Station Static." We offer our felicitations to our brother editor. Benjamin Wood, 7 Stony Brook Place, North Plainfield, N. J., wants to identify a station he heard on 1360 keys. with call sou ding like WSTL. We venture the guess that it was WFBL at Syracuse, N. Y.

Several readers have written us about the Buffalo changes and particularly our deletion of WMAK. Valentine Sadowski, 188 Miller Avenue, Buffalo, says: "WMAK is operating on 1040 keys., using 1000 watts. You see, the Buffalo Broadcasting Corp. changed the call letters of station WKEN to WMAK. Now the new Buffalo station WBEN, owned by the Buffalo Evening News, is operating where WMAK was, 900 keys. Here are the Buffalo stations: WBEN 900; WEBR 1310; WGR 550; WKBW 1480; WSVS 1370; and WMAK 1040—six altogether. WMAK broadcasts Columbia programs until between 5 and 6 in the afternoon and then WKBW gives the remaining ones, WMAK signing off between 8:30 and 9 in the evening." James Y. Stein, 147 16th Street, Buffalo, confirms this information.

Every day or two we receive an inquiry regarding police broadcasting stations and queries as to why they do not appear in RADEX. In the first place, such stations are not broadcasting stations in the usual sense of the word and, second, they do not (with one exception) use the broadcast band. Thirdly, they do not desire to have the public tune them in as secrecy is part of their value to the forces of law and order.

"I have been hearing a new station in Pittsburgh the last few nights. It is station WAXT and it is owned by Westinghouse and broadcasts on about 670 keys," writes Wm. Wright, 32



*Thomas Breen, Jr., NBC Announcer in the Chicago Studios.*

Second Avenue, Scottsdale, Pa. This is undoubtedly W8XT the short-wave station referred to in another article relative to the synchronization of WEAJ, KDKA and WGY.

#### **A Few Complaints**

A number of subscribers have written complaining that they often see RADEX on the newsstands before they receive their copy. It has been our practice, in common with that of other publishers, to ship the first copies off the press to the newsdealers because they must go by the more slow method of freight and express and pass through several hands before they reach the dealers. We are now adopting the policy of mailing the very first copies printed to our subscribers and hereafter each issue should be received by the 25th of the previous month. We feel that this is a courtesy due to those who give us their annual subscriptions.

E. F. Becraft, 96 Maplewood Terrace, Springfield, Mass., thinks "the Index by Frequencies is most complete and accurate but is published hind-end-to! It appears to me," writes Mr. Becraft, "that the stations coming in at the top of the dial should be listed by you at the top or in reverse order to the positions

now occupied. This certainly applies to the Radiola 66 which I use and to other makes with vertical dial which I have seen." It isn't RADEX which is "hind-end-to" in our opinion but the manufacturers who still insist upon arranging their dials in accordance with the old wave-length theory instead of the modern method of frequencies. We must arrange our Index either one way or the other—either from 540 up or from 1500 down. We choose the former because, first, it is the natural arithmetical progression and it is less confusing in looking for a particular number. Second, dials should be arranged in the same progression as frequencies and not as wave-lengths; those set manufacturers who are behind the times should get in line. We think we should play with those who are right rather than those who are wrong.

#### Where Is CKIC?

"I see you are listing station CKIC, Wolfville, N. S., as operating on 930 keys," writes H. P. J. Hills, Y.M.C.A., Halifax, Nova Scotia. "This is wrong; this station has been operating under 580 keys. for over six months." Taking the matter up with the Canadian Department of Marine, which has jurisdiction over radio matters in the Dominion, we are advised by the Director of Radio Service as follows: "CKIC did recently conduct some tests on the 580 channel but the same was abandoned as it was not found suitable. The licensed frequency of this station is 930 keys., but it is quite possible that in the near future it will be shifted to 1010 keys., if tests on that channel should demonstrate its suitability. In the meantime, it would be advisable to allow your listing to remain at 930 keys."

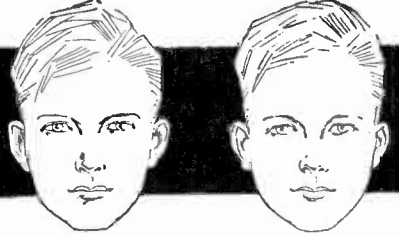
While we are in Canada, we will quote from a letter received from Jas. F. Young, Radio Editor of *The Evening Telegram*, of Toronto: "When we decided to organize a radio club to be known as 'The Evening Telegram Radio Listener's Club,' a member wrote to RADEX and his letter was published telling of the club organization. That was only a few months ago, but our membership now totals something like

3,000 and I may say that at least 500 of these members have come from those who learned of the club from RADEX. . . . We shall have special radio broadcasts for the club members during the winter, using radio station CKGW, Toronto. . . . I might add that the worthy copy of RADEX eliminates the necessity for using any other radio log and the dozens of telephone calls received by us, are all answered by reference to RADEX."

#### Unlicensed Stations

In spite of the fact that radio stations WBBS, WRK and WCHI are no longer licensed, as noted in a letter from the Radio Commission in our October issue, C. M. Falconer, 414 Water Street, Baltimore, Md., writes that he has heard WCHI on seven different days since their license expired, although in a later letter he says he has just heard them

(Continued on page 18)



## One of these Boys Will Fail - IF

Both possess equal health and intelligence, both have qualities for success—but one stammerer. Where the one will succeed the stammerer will fail.

He will dread to meet people, he will lack the self-confidence so necessary in business. The humiliation of his disability will impair his nervous system—a condition often the beginning of ill health.

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# The THRILL of the DISTANT STATION

## In Which the Editor is Taken to Task

THE DX department opens this month with criticisms of some of the letters we have published. Two of these in particular come to us of letterheads of "The Smallest DX Club in the World, Syracuse, N. Y.," and are signed by Leonard L. Hoffman and Robert M. Hoffman, both of 618 North McBride Street, Syracuse, N. Y. The Hoffman brothers take RADEX to task for what Robert calls "the fabulous statements of certain contributors which would put Baron Munchausen and Major Hoople to shame." Robert thinks that "after RADEX seriously considers some of the facts mentioned in these letters it will be a little less credulous of some of these marvelous records." Leonard says, "Certainly someone on the staff of RADEX is competent to examine and edit these contributions of fiction which would be perfectly apparent to a four-year-old child, as hallucinations originating in the minds of someone gifted with abnormal powers of imagination, or an insatiable appetite for publicity."

Leonard takes exception to a number of claims of reception recently published in RADEX. He says that no one can convince him that WQDM using a power of 5 watts and operating on the 1420 channel with 35 other stations can be heard in Chicago from St. Albans, Vermont, at noon. Or that WDHL, 10 watts, Tupper Lake, N. Y., on the same channel, can be heard in California. He also fails to understand how it is possible to receive EAJ19 in Spain at 5 a.m. when that would be noon at Madrid. Leonard also concludes his letter as follows: "Doesn't every one of you who is really sincere want to cooperate with every bit of your ability and do everything possible to weed out these frauds? I really believe it can be done and I believe RADEX is the medium through which it can be done with the hearty support of each and every DXer

who is head over heels in radio as a hobby or pastime alone, not as a means of seeking publicity and cheap advertising."

### Verification Impractical

RADEX wishes that it might be possible for it to guarantee the accuracy of all the records it publishes, but this is quite out of the question. The editor has seen too many records made in his own neighborhood which he could scarcely believe and certainly could not duplicate with an even more powerful set. Radio reception is most peculiar in that, given two sets exactly alike and location very similar, one of them will make records which the other can never equal. It is therefore useless to attempt to check records of reception by make or power of the receiving set. Frequently a one or two-tube set will bring in distant stations which an eight-tube set seems powerless to receive.

Again, the hour of the day or night is an important factor for a small-powered station which might be received at night would be heard during the daytime only as almost a miracle, yet who will say that it cannot be done. It seems to the editor that he has but two alternatives, either to publish letters from correspondents without vouching for their accuracy in any way or to close the columns of RADEX to all DX records. In view of the wide interest in these letters, the editor is loath to do the latter and must, therefore, depend in the future as in the past, upon the integrity of his correspondents.

### Bootleg Stamps

Leonard Hoffman takes the occasion to vent his indignation upon the so-called stamp exchanges which are offering radio station stamps all different, three for 10 cents, or 15 for a dollar. These exchanges have the effrontery to publish a list of their clients so that these collectors may exchange with each other. We can see no possible use in buying a station stamp except with the intention of making the claim to one's friends that it is proof of reception of that station.



People will collect most anything, however, and it may be that the collection mania is extending to the radio stamp field. An anonymous reader from Chicago sends us a list of "members" published by one of these exchanges which advertises regularly in a radio magazine. Heading this list, unfortunately, is the name of one of our correspondents. While it does not improve one's standing as a DXer to have his name appear in such a list, we do not believe it is prima facie evidence of any attempt to make claims based upon the stamps that may be purchased. If any one desires to make baseless claims of

Street, Newton, Ill., "Here is the method I use which I have passed on to my friends. When RADEX comes I take a blue pencil and make a small check mark in front of each station I have heard and with a red pencil I make a dash after the call letters to show if it has verified me or not. Thus I can tell at a glance if I have the station and if it has been verified. I also keep a program book in which I record programs sent in for verification, as sometimes it is necessary to write a station twice, so I jot down the date mailed in the margin of the page as a handy reference." In regard to Ekko stamps, Mr. Everly thinks

*Behind the "mike" with the Empire Builders. The "Old Timer" is giving the mike that characteristic chuckle that has endeared him to millions.*



reception he does not need stamps in order to do so.

What do our other readers think about this problem?

We frequently receive letters from readers asking us if we can verify their reception of certain stations. This is obviously outside our province, as it would require a voluminous library, laboratory and staff to attempt to do so. We have as yet no data on hand even regarding the hours stations broadcast, although such a list is under consideration.

#### **Keeping One's Records**

"Many complain that they cannot keep stations logged correctly," writes Ray E. Everly, 102 West Washington

"they are nice to collect for their appearance in a radio album, but they have become useless for verification and each station should have its own stamp. Most DXers would rather have letters than stamps anyway."

LeRoy House, of Plant City, Fla., has just decided to take up DXing in earnest and go after a record. He asks how long he should check a station to get a verification and whether he should give the time of beginning each number on a program as well as the time of ending. All that any station requires is sufficient information to enable it to know beyond doubt that its program was received. Therefore it is only necessary to give them the feature heard and the time it

was received, although it is well, if possible, to give something of the announcement, if that was heard. It is not necessary to listen to a program for half an hour in order to secure sufficient data to warrant a verification.

#### For Pittsburgh Readers

Two RADEX readers, Joseph Stokes and Cyril P. Engelmeier, have recently gotten together and discussed DXing. They now want to know how many others there are in the Pittsburgh district who have heard say 400 stations or more, including some of the distant foreign stations. They would like to hear from other readers perhaps with a view to forming a small select group of DXers in and around Pittsburgh for mutual benefit. Mr. Stokes' address is 7318 Woodlawn Avenue, Swissvale Station, and his telephone is Prandywine 3494-M. Mr. Stokes has now heard 533 stations since 1928 and Mr. Engelmeier 450, but he is adding new stations nearly every night. "I have heard HJL, Bogota, Colombia; KFQD and KGBU in Alaska, as well as the usual run of Cuban, Mexican and Porto Rico," writes Mr. Stokes. "I am using a Silver radio concert grand model at the present time."

Oscar W. Schmidt, 45 Edison Street, Pontiac, Mich., would also like to know of any other DXers in his vicinity who have their RADEX comfortably filled. "I have a 1930 ten-tube Spartan and have logged 135 stations since May, but we are hemmed in by powerful stations on three sides and there is nothing to receive north of us. I am only 25 miles from WWJ but cannot receive them without interference by other stations."

#### Reception Reports

"Radio is my one great hobby," writes Joseph J. Becker, 415 So. 11th Street, Hamilton, Ohio. "The part I like best about radio is seeking new stations and many a morning I am at my Majestic radio between the hours of 1 and 5 a.m. The past week I have logged six 100-watt stations and I have had stations from California, Oregon, Washington, Utah and New Mexico. I have not yet been lucky enough to get Nevada, Wyoming, Vermont or New Hampshire. I have the Majestic Model No. 91 and I can use either a long or short aerial, with a



*The professor of radio dramaties at KSTP, Thomas Dunning Rishworth, versatile 23-year-old student of dramaties at the University of Minnesota.*

double copper ground, which I keep damp always. I have heard WLW at four places on the dial. I get them regularly on 62½ and 7 and the other night I heard then on 12½ and once before I heard them on 21. Are these harmonics?" Yes, you are undoubtedly receiving this powerful station on its harmonics.

A 15-year-old DXer, Martin Howard, 1721 Linden Avenue, Baltimore, Md., now has 44 verifications and is aiming for 200. He has heard KOA, Denver twice but they were broadcasting a chain program for which they will not send a verification. "I have listened for the outlaw stations on 840 kc., but so far have heard only CMC, which has been coming in very well on my set lately," says Martin.

Louis Rewald, 483 Wilmot Avenue, Burlington, Wis., says he does a lot of DX work during the winter months. He has a Bosch all-electric seven-tube with dynamic speaker. His best radio catch so far is a 50-watt station in Vancouver, B. C., from which he has two verifications.

#### Two-Tube Record

Geo. Lilley, 227 West Bernard Street, Westchester, Pa., thinks receiving KFI,

KEX, KMIC, and other coast stations with a nine-tube set is not so much. "Maybe you would care to know that on September 27th, using my own two-tube set (built it myself) I brought in KNX, Hollywood, Calif., at 10 p.m. I had it good and clear, but of course not overly loud. Later on that evening I had KEX and KJR good and clear while KFI, KMIC, KHJ and a few other western stations came in poor to fair." George adds this postscript, "I can't see where it is fair to count stations you get while traveling in an auto. Why, this way you could get every station in the United States."

"I have received a station on each of 95 of the 96 channels with two or more on 90 of the channels." This is the record of Guy B. Welsh, 114 Brown Street, Reynoldsville, Pa. He has received 11 stations on 1200 kc., 10 on 1210 kc., 13 on 1310 kc., and 10 each of 1370 and 1420, which we agree is pretty good.

Joseph J. Becker, 415 So. 11th Street, Hamilton, Ohio, wants us to give WHBD a big hand because they announce after each selection. "I have listened to some stations as long as 45 minutes and they never announced their station," says Mr. Becker. "The best catch I have made, I think, was KFPM, Greenville, Texas, on 1310 kc. and using only 15 watts. For a ground I have a five-eighths inch copper wire and a one inch copper pipe in the earth about five feet. I connected my ground wire to these and soldered them firmly. Every other day I water my copper ground and I find it much better than a water pipe ground. I have a long aerial of about 85 feet and also a short one of about 30 feet, which I use when there is much static. July and August were two long months for me because there was no RADEX published. Without it I am completely lost. Radio is my hobby and I am at it at all times of the night and early morning. The small and distant stations can be caught best in the early morning."

#### Wants More Announcements

"There is nothing more disappointing than being cheated out of a verification  
(Continued on page 19)

# RADIO and other Technical Books

## At a Glance

### Radio and Telegraphy

"Audio Power Amplifiers," by Anderson and Bernard	\$3.50
"Foothold on Radio," by Anderson and Bernard	1.00
"The Superheterodyne," by Anderson and Bernard	1.50
"Trouble Shooter's Manual," by Rider	3.50
"115 Latest Commercial Set Diagrams," by Rider	2.50
"Mathematics of Radio," by Rider	2.00
"Official Radio Service Manual and Directory of Commercial Wiring Diagrams," by Gernsbach and Fitch	3.50
"Drake's Radio Cyclopedia," by Manly	6.00
"The Electric World," by Shubert	2.50
"Elements of Radio Communication," by Morecroft	3.00
"Experimental Radio," by Ramsey	2.75
"Fundamentals of Radio," by Ramsey	3.50
"Practical Radio," by Moyer and Wostrel	2.50
"Practical Radio Construction and Repairing," by Moyer and Wostrel (new edition, new price)	2.50
"Principles of Radio," by Henney	3.50
"Principles of Radio Communication," by Morecroft	7.50
"Radio Blueprint Library"—AC Hook-ups	.35
"The Radio Manual," by Sterling	6.00
"Radio Receiving for Beginners," by Snodgrass and Camp	1.00
"Radio Receiving Tubes," by Moyer and Wostrel	2.50
"Radio Telegraphy and Telephony," by Duncan	7.50
"Radio Trouble Shooting," by Haan	3.00
"Storage Batteries," by Morse	2.00
"Storage Batteries Simplified," by Page	2.00
"Telegraphy Self-Taught," by Theodore A. Edison	1.25
"The Thermionic Vacuum Tube," by Van der Bijl	5.00

### Television

"A B C of Television," by Yates	\$3.00
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### Electrical

"Absolute Measurements in Electricity and Magnetism," by Gray	\$14.50
"Alternating Currents and AC Machinery," by D. C. and J. P. Jackson	6.00
"Arithmetic of Electricity," by Sloane	1.50
"Electrician's Handy Book," by Sloane	4.00
"Essentials of Electricity," by Timbie	1.75
"House Wiring," by Poppe	1.00
"Industrial Electricity," by Timbie	3.50
"Principles of Transmission in Telephony," by M. P. Weinbuch	4.00
"Rudiments of Electrical Engineering," by Kemp	2.00
"Standard Electrical Dictionary," by Sloane	5.00

## RADIO WORLD

145 West 45th Street New York, N. Y.

(Radio World is the only National Radio Weekly 15 cents a copy, \$6.00 a year. Send \$1.00 for 8 weeks' trial sub scription, and FREE set of 3 socket wrenches; 3 different sizes.)

# WILL OSBORNE, Versatile Musician



**H**E is one of radio's outstanding crooners and for that reason nobody thinks of him in his true light as a versatile musician. He is a competent artist and a master of rhythm and the instruments he plays are many, the only exception being the flugel horn. However, he will soon play that one too, because that is Will Osborne's way.

His music and his will to succeed have been the outstanding factors of his life, driving him onward in the face of all kinds of opposition.

Osborne started crooning in Toronto, Ont., November 25, 1904, at the age of one minute, and a few years later, while other little boys were scratching the floors with tin soldiers and breaking windows with baseballs, Will was breaking his mother's best glassware in an effort to draw tunes from it with the cutlery. This habit, he says, was abandoned when his mother succeeded in drawing tunes from him with the back of a hairbrush.

During boyhood the family moved to London and he received elementary education from tutors. Later he graduated from St. Andrew's College, Toronto, and his father decided to send him to medical school. Will did not fancy this idea, but his grandfather had been one of the most renowned surgeons in England, so he was directed to follow that profession.

For two years he traveled in Europe, South America and Mexico, studying medicine and music. He had begun by learning to play the piano when he was eight years old and the drums in the school orchestra at St. Andrews.

The Osborne parents fought and cajoled, but Will refused to be a doctor. Twice he ran away from home in Toronto and hitch hiked to New York to land an orchestra job. Each time he tired of juggling freight, wiping dishes and returned. Nevertheless his ambition never wavered. He was a rabid theatre-goer and would always watch the musicians in the pit, criticizing and selecting those he would have in his perfect orchestra, if he ever had one.

And then his dream came true. He landed his first professional engagement in 1924 with the Wayne Country Club at Tyler Hill, Pa. He had four men in his orchestra. They got \$18 a week; his salary was \$20.

Osborne introduced slow rhythm for dancing to radio audiences in 1925. It was not particularly well received at first but he kept it up. He had faith in the slow, rhythmic, harmonious type of music as opposed to the noisy, jerky, jazz which was popular at the time.

Crooning vocal choruses were a natural outcome of this new type of dance music. The music was so soft that a singing voice would efface it and soft and slow singing had no carrying power, so something had to be done. Osborne decided not to stick to the conventional beat. He began to talk the lyrics, adding a soft, singing tone. The effect was tremendous and the reception was immediate.

Scratch an artist and you find a pet superstition. Osborne collects elephants. They are not live ones, of course, though his ambition is to own a real one some day. In the meantime he contents himself with elephants of ivory, jade, wood, crystal, in fact of anything from which one can be fashioned. They must all have their trunks raised, otherwise they bring bad luck. It began when someone presented him with a small jade elephant



and told him, after he got seven as gifts, he could begin buying them. He now has almost a hundred in his collection.

When Mr. Osborne is not leading his orchestra, he is dancing. When he is not golfing, riding, or playing poker, he is reading humorous stories or writing his forthcoming book, "Tramp's Dream, or Sleepy Valley."

## What Makes My Set . . .

*(Continued from page 5)*

their full advantage. In this issue you will find an article especially devoted to remote-control devices from which you can gather still more information.

### Controlling the Control

*It seems that the volume control on our set is defective. Tuning it to the right about half way from the extreme left-hand position of the pointer increases the volume. Tuning it still further to the right, decreases the reception or rather muffles it. Should I have a new volume control installed? Of course, I get plenty of volume before reaching the critical point, but would just like to know whether I should be able to control the volume over the entire range of the volume control.*

Your trouble is really quite a normal occurrence in many radio receivers, even if it is not ideal, and that manufacturers should try to overcome this objection, although it is not always within their control. What happens is that the set breaks into oscillation at a certain point as you mention, which in some sets results in a growl or a squeal, but usually a muffling of the signal. I have found that if the plate voltage on the tubes, especially the r. f. and detector tubes is reduced, this trouble will cease. In doing this, the variable control of the plate voltage, if your set is equipped with such a control, must be cut down until the volume previously obtained just before the breaking point, is had when the volume control is tuned entirely up toward the right.

### What About a Choke?

*Will you tell me what effect a radio-frequency choke has when connected from the plate to the transformer just behind the detector? Do you think it will improve the quality of reception?*

The question whether a radio-frequency choke, which keeps radio-frequency current out of your audio amplifier, would be of actual benefit in your case, depends mostly on what kind of set you have. If you have transformer-coupled audio amplifier, a radio-frequency choke is not necessary, as the transformer winding serves the same purpose as the choke. On a resistance-coupled set, when no such inductance is found in the coupling of the stages, an r. f. choke is advisable. Furthermore, if a resistance-coupled set has a regenerative tuning circuit the need for such a choke becomes still more acute.

### Life of "B" Batteries

*How long can I reasonably expect good results from 45-volt B-batteries, in other words, when should I discard them and substitute new ones?*

45-volt B-batteries should be discarded when they drop as low as 38 volts as they are apt to become noisy due to the breaking up of the active material in the cells. For ideal results, however, one should at all times maintain the exact voltage necessary for the best operation of the receiver.

### Working the Short Waves

*I have made a short-wave receiver, which is claimed to be able to pick up foreign stations. So far I haven't had any luck and the only stations I get are those in this country. Will an additional r. f. amplifier help?*

The more r. f. stages there are in a receiver the greater will be the distance covered, although tuning may be also made a trifle more difficult. Before making any additions I suggest that you go over ground in trying to get foreign stations. It is possible that, after all, you can get them on your receiver if you tune in at the exact time that they are on the air, taking into consideration the difference between their time and ours; also knowing exactly what their frequency is at which they are operating. Finally, it is of the utmost importance that you tune with extreme care, taking for granted that your tubes and batteries are in perfect condition, and that you have a good aerial and ground. Handle the dials very delicately, turning them

slowly in the neighborhood of the station desired. Also use headphones instead of a speaker, as the former are much more sensitive to weak impulses, or rather, a person can detect weak impulses on phones more easily than on a speaker.

### Recording Programs

*How can I impress a radio program on a phonograph record so that it will be preserved?*

Go to your local phonograph dealer and get a diamond point used for the purpose of recording, and also get some blank recording records, which come in different sizes to suit the amount of reproduction desired. Substitute the recording point for the present reproducer, which is attached to the movable arm connecting to the horn or sound chamber. Then place your radio speaker directly in front of the phonograph horn and when the radio program comes in, start the turntable with a recording record on it, at the proper speed, and set the recording point on the record in the same way that the records are ordinarily played. The volume of the radio should be quite loud but not distorted.

### Matching Tubes

*I would like to be sure to have matched tubes in the intermediate stages of my superheterodyne, but do not know how to go about matching the tubes. Will you kindly give the necessary information?*

Matching tubes is really a simple but somewhat tedious task. A serious difficulty, however, arises from the fact that tubes vary so much in their characteristics, and therefore finding matched tubes, or rather those nearly so, is like looking for a needle in a haystack, making it necessary to have a large number of tubes on hand in order to find the few that match. The work is done with a tube tester and the exact plate emission at various plate voltages and C-biasing voltages is noted. Tubes running alike in respect to these readings are matched.

### The Neon Tube

*Will you kindly explain the difference between a neon tube and a photo-electric cell which are used for television purposes?*

A neon tube emits a light which varies in direct proportion to the amount of electric current running through it, while a photo electric cell works just the opposite way, that is, the fluctuations of light to which the cell is exposed allows a corresponding amount of electric current to pass through the cell and a connected circuit. For instance, a large amount of light permits a large current flow, and a small amount of light a small current flow.

### Long vs. Short

*Is it better to use a long or a short antenna on a five-tube t. r. f. receiver, than a short one? Will I be able to get more volume on a long antenna?*

Just what length of antenna is best in your particular case depends on several factors. A long antenna picks up more energy than a short one, also more static; consequently signals and static will both come in louder, and distant stations can be more easily brought in. If you are located quite a distance from broadcasting stations, a 75 or 100-foot antenna would be much better than one only 25 feet in length. On the other hand, if you are located in a city where one or more stations are broadcasting, a long aerial would pick up so much energy that it would ruin the selectivity of the receiver, and one station might overlap another so that you would get two or even three stations simultaneously, one being tuned in louder than the other two. In cities, then, a short aerial, even an indoor aerial, strung around the picture moulding, is often sufficient for a five tube t. r. f. set, although such a short aerial reduces the possibility of tuning in distant stations. It may be best to have both a long and a short antenna so that you can use one or the other, and thus experiment with both in order to get satisfactory results.

This copy of RADEX contains another important improvement for the convenience of our readers. We'll let you discover it for yourselves. You'll never know how much additional work it makes for us but if it pleases you, we are happy.



## BIRTHDAY PARTY for WBAL

The popular Baltimore station celebrated its fifth year on the air on November 1st, nearly one hundred radio artists and musical artists taking part in a gala broadcast. All types and classes of music were heard during the program, light, classic, concert numbers, old-fashioned songs, musical comedies, dance music, sentimental songs and ballads, as

well as modern and popular hits of the day. Studio groups appearing before the microphone were the "Baltimoreans," the "Merrymakers," the "Romany Trail," the "Masqueraders," the WBAL concert orchestra, the WBAL string quarter, the WBAL male quartet, the WBAL ensemble, the "Calvertons," the "Arundels," and the "Marylanders."

## THIS MONTH'S CHANGES

The following alterations are being made in this issue:

### Additions:

WMAK 1040—Buffalo, N. Y.  
WCOA 1340—Pensacola, Fla.  
WSDA 1400—Brooklyn, N. Y.  
WGAR 1450—Cleveland, Ohio.

### Deletions:

WLIB 720—Chicago, Ill.  
WBOQ 860—New York City.  
KMAC 1370—San Antonio, Texas.  
WABO 1440—Rochester, N. Y.

### Consolidations:

WCSO 1450—Springfield, Ohio.  
WFJC 1450—Akron, Ohio, with  
WGAR 1450—Cleveland, Ohio.

### Change Frequencies:

WIBA—Madison, Wis., 1210 to 1280.

### Power Increases:

KGHL 950—Billings, Mont. 500 to  
1000.  
KMOX 1090—St. Louis, Mo., 5000 to  
50,000.  
WSEN 1210—Columbus, Ohio, 50 to  
100.  
XEW 780—Mexico City, 500 to 5000.

### Call Changes:

WMAN 1210—Columbus, Ohio, to  
WSEN.  
WAGM 1310—Royal Oak, Mich. to  
WEXL.  
WNBK 1310—Knoxville, Tenn., to  
WROL.  
WNRC 1440—Greensboro, N. C., to  
WBAM.

## Our Readers' Views

(Continued from page 9)

announce as "WCHI and WORD," indicating that the former WCHI has amalgamated with WORD. Can some of our Chicago readers give us the facts?

Mr. Falconer also calls our attention to the fact that WCOA, Pensacola, Fla., which was suspended during the summer, is again on the air and that KMAC, San Antonio, Texas, should be deleted, as a card sent them was returned.

Iowa readers claim that both WBBM and WFAB broadcast during the day on 770 keys., although they are required to share time at night. The result is chaos at least in Iowa, and listeners are unable to get either station on this wave. A letter from the Secretary of the Radio Commission says: "In some cases simultaneous daylight operation is permitted provided interference is not caused. It appears from your letter that there is interference being experienced. If you could give further details on the extent and area over which this interference is heard, it would facilitate the Commission in taking steps to relieve the interference." If other readers are annoyed by any interference between these two stations and will write us, their letters will be laid before the Commission.

G. H. Snyder, Jr., P. O. Box 202, Ridgewood, N. J., writes us that the *Newark News* is authority for the statement that stations WBOQ, WABO and WLIB though licensed are never used. Lloyd Rees, Box 612, also of Ridgewood, sends us letters from WHEC and the Columbia Broadcasting System saying that WABO and WBOQ are no longer used. Mr. Rees also says that WSDA, Brooklyn, is again on the air, although double calls are sometimes used (WSGH-WSDA). The station is on 1400 keys. with 500 watts.

### Interference

"On 920 keys. there is considerable interference," writes A. W. Jensen, of 196 Elmwood Avenue, Oshkosh, Wix. "Sometimes I get KPRC, Houston, and sometimes WWJ, Detroit. But they have a funny wavy sound; the voices sound as if the announcers were hoarse or were gargling. Sometimes the announcer's voice is double like a duet.

What causes this duet?" Mr. Jensen is inclined to blame his set but the trouble is typical of two stations trying to use the same wave length and so interfering with each other that neither is understandable. It was such situations as this which the Commission tried to clear up last spring but were stopped by the courts.

We cannot close our letter-box this month without quoting a few kind words from our readers. From G. R. Trotter, 302 Bethesda Avenue, Mena, Ark.: "There are some things I wish to commend RADEX for: first, for being undoubtedly the best radio magazine on the market, and, second, for remaining the best through constant improvement. Unlike most magazines who are content to rest on their laurels, RADEX is improved in some way in almost every issue through the addition of valuable information or betterment of old features." From Ray E. Everly, 102 West Washington Street, Newton, Ill.: "RADEX sure gets more information crammed between its covers than any log I ever saw published. It is truer the DXer's Bible." And from Walter H. Adams, 80 Hazelton Avenue, Toronto 5, Ontario: "As to RADEX itself, it's A No. 1 and it sure does the very best possible for us radio bugs. I am always telling my little world to buy it as they can find nothing better."

Licenses to operate two low-powered stations "for the extermination of insects" have been granted by the Federal Radio Commission to a spray concern of Wenatchee, Washington.

The licenses are for a three-month period and call for operation from 3 a.m. to 6 p.m.

The concern, which was granted licenses for experimental purposes about a year ago, in its petition for renewal claimed not only the killing of insects by radio, but the stimulation of plant growth termed "marvelous." The system used was not described.

The application was opposed by federal radio engineers, who expressed doubt as to the value of radio in this particular field. They also held that that type of transmitter caused interference.



## The Thrill of DX

(Continued from page 13)

after one has spent considerable time bringing in a station or, in reporting it, to receive no acknowledgement of any kind," writes Stanley H. Bond, Oakland, Md. "Couldn't we DXers arrange some sort of petition to the Federal Radio Commission so that they would enforce more vigorously the ruling regarding announcing call letters every 15 minutes? There are enough DXers to do something, so let's write to the Commission and see what can be done. Some nights one can tune in on some stations that won't announce call letters until the program is ended and others that go for an hour to an hour and a half without announcing." Richard Bogert, 1416 Linden Street, Allentown, Pa., seconds Mr. Bond's motion and suggests that DXers raise a fund to carry on a campaign with broadcasting stations in an effort to induce them to have their announcers give their call letters more frequently.

From Milton E. Christa, 18092 Fairfield Avenue, Detroit, Mich.: "On September 10th I received a verification from JOGK, Kumamoto, Japan. The letter I sent them was written February 27th and was answered in August. This is the longest wait I have ever had for a verification. I have also heard from JOAK and JOIK. I am now receiving XEW, Mexico City, every morning from 1 to 2. They are on 780 kc. and their address is Box 2516, Mexico City. They announce as 'The Voice of Latin America.'" From Narragansett, R. I., comes a letter from H. W. Rose: "I am an ardent radio fan. There are only six states, Vermont, North Dakota, Wyoming, New Mexico, Nevada and Idaho, from which I have not received stations. My best low-powered catch is KTSL, 100-watter of Freeport, La. I also have had KCRC and KGFG of Enid and Oklahoma City, both 100-watters."

Robert N. Nulty, 163 Duke Street, Hamilton, Ontario, has received 227 stations, 40 of them less than 30 watts; 8 of 50 watts, and 22 of 100 watts. Mr. Nulty is anxious to see a time table with the accurate time on the air of each

station, particularly those of 250 watts or more. Each night, he says, he notices that KDKA is a little bit louder and thinks there must be something doing at Saxonburg.

"On 702 kcys. I received XEZ, Mexico City," writes Russell Overman, 13953 La Rue Street, San Fernando, Calif. "I received a station in Mexico on 750, but they did not give their call letters in English. Can you tell me what it is? I lost them at 8 p.m. when KMTC returned to the air." Mr. Overman says that KMJ has been a member of the Columbia chain since he has had his Philco, eight months. This seems strange, as the Columbia does not list this station and ordinarily would not hook up a 100-watter.

### Some Distant Hauls

"Being a member of the Newark News Radio Club I have heard a great deal about RADEX so I bought a copy yesterday and my verdict is *great*," writes Edmund Walbrecht, Box 124, Dover, N. J. "As a DXer I have had fair success, having logged 472 stations in the past two years, 39 of them on the Pacific coast and all but a couple verified to date. I have received 2BL, Sydney, Australia; 2YA, Wellington, New Zealand, both verified; HJL, Bogata, Colombia, 18 Cubans, 30 Canadians, 4 Mexicans, Port Au Prince, and Porto Rico. All of these have been received on a Radiola 20, which uses four tubes with the phones and five with the speaker. I use a 325-foot antenna, but can still get excellent selectivity, due to the fact that this set uses a regenerative detector."

"My achievements in the way of DX work will not compare with those who receive Japan, Alaska and other far away stations, but I do enjoy getting what I have time for on my little TCRF five-tube set. I have heard VAS giving weather reports for Sable Island, Canada, and have had Halifax at 6 o'clock in the evening." This is the report of Harold R. King, R. F. D. 15, Groton, N. Y., who goes on to say, "Folks living in town undoubtedly get a lot of fun with a radio, but we who live on farms and have no movies or concerts, wonder what we would ever do without it, now

that we have grown so accustomed to being in touch with the whole world."

"Last Saturday night the local papers said 'Distant reception will be poor to fair in all directions.' Yet I heard both JOAK and JOBK clearly between 4:45 and 5:35 a.m. I guess that was the 'fair' and KMPC heard about 2:45 a.m. was the 'poor' part of the reception." This from M. Tuchinsky, 3436 Filbert Street, Philadelphia, Pa.

E. Miller, 53 Hamilton Street, Harrison, N. J., DX Meteor Ace of the Newark News Radio Club, writes that he has verifications from 2YA, New Zealand, 2BL and 2FC, Sydney, Australia, and JOAK from Japan, CKMO, 50-watter in Vancouver, B. C., and KGY, 10-watter of Lacey, Wash. Mr. Miller gives the following schedule Eastern Standard Time for JOAK, 5-6:15 p.m., 8:30 to 10:30 p.m., 11 p.m.-2:30 a.m., 3:45-6:00 a.m., and for 2BL, 6:15-9:00 p.m., 10 p.m.-3:45 a.m., 4:15 a.m.-6:00 a.m.

#### Mexico and West Virginia

"I can get nearly everything in the country as well as Canada and Cuba, but have had no success with Mexico," writes Henry C. Brown, 100 No. 19th Street, Wheeling, W. Va. "I am wondering if there is a dead spot in this part of the country as far as Mexico is concerned. Have there been other complaints of this kind from this vicinity? It seems queer to me as it is no farther to Mexico City than it is to the Coast and I have received several 500-watt stations on the Coast."

Frank S. Macolly, 4514 Mitchell Street, Roxborough, Philadelphia, has heard 735 stations since February 5, 1923, which include every state in the Union with two exceptions. He has over 600 verifications, including one from KGU, Honolulu, and he thinks that he and C. M. Falconer are the only members of the Newark News Radio Club who have verifications from this station. Mr. Macolly, who is an electrical contractor and ought to know his currents, has heard 76 stations in one night in five hours' time, including six in California, one in Oregon, one in Port Rico, and four in Cuba.

## Want to be an Amateur?

**R**EADERS who have become intensely interested in broadcast radio frequently write us for information as to how they may become amateurs and secure licenses to send and receive. As our readers are probably aware, there is an association of amateurs known as the American Radio Relay League, Inc., whose offices are in Hartford, Conn. The League has just published a 32-page booklet entitled "How to Become a Radio Amateur," giving the answer to this question in the most complete detail. Those interested may secure a copy of the book by sending 10 cents to the secretary of the League at Hartford, Conn.

The book begins with a description of the short wave band, the field of the amateur. It contains the code alphabet regarding which it says, "Learning the code is the first stumbling block for some people. But it has to be learned—the government won't issue you any kind of an amateur license until you know it. Don't let it scare you; it really isn't at all difficult. The entire alphabet can be memorized in one or two evenings. A few weeks practice listening in to code transmissions will develop speed. If you make up your mind to settle down and lick the code within a few weeks, you will be surprised to see how fast you progress." A description and diagram is given for hooking up a telegrapher's key to a simple buzzer for practice in sending and learning to recognize the code signals.

Full descriptions with diagrams are given for building both a receiving and a sending set with instructions for operating both. Simple but practical layouts are given for arranging the stations, with full instructions regarding applying and taking the examination for your license. In fact, anyone who wants to become a regular "ham" will find the full prescription in this booklet.

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**The New Radio Map of  
North America is meeting  
unanimous approval.**

## Another Reallocation Just Missed Us

**A**NOTHER sweeping reallocation of broadcasting stations — one which would have again changed the dialing habits of American radio listeners everywhere — was averted when a majority of the Federal Radio Commission last week rejected a proposal of Judge E. O. Sykes, commissioner from the third zone of Southern states, to amend the 1928 allocation order to permit duplicated operation on virtually all wave lengths under a plan permitting closer geographical separations between stations.

Judge Ira E. Robinson, former chairman, voted with Judge Sykes on the plan which, according to Judge Sykes was designed to bring about a more equalized zone and state division of broadcasting facilities. Hardly a station in the country would have been unaffected had the scheme gone through, but it was voted down by Commissioners Saltzman, Lafount and Starbuck.

The use of practically all the present cleared channels would have been duplicated by two or more stations under the Sykes plan. Though 20 channels would have been reserved, as 40 are now, for stations of 5,000 to 50,000 watts power, two or more such stations would have been placed on the same channel if separated 2,500 miles from one another. If 10 kilocycles apart, the separation would be 600 miles; if 20 kilocycles, 350 miles, and if 30 kilocycles, 250 miles.

On the 20 other channels now cleared for nocturnal use by only one station at a time, the simultaneous operation of not more than three or less than two stations with maximum powers of 10,000 watts would be permitted, their separation to be 1,800 miles from one another when on the same frequency; 400 miles when 10 kilocycles apart; 200 miles when 20 kilocycles apart, and 150 miles when 30 kilocycles apart.

The present mileage separations of stations in the lower power ranges was also narrowed down, while provision was made that each zone should have the same number of stations and equal

power. The majority overruled the scheme as technically inexpedient because of the interference possibilities and the widespread confusion it would occasion in present broadcasting practice and in the habits of American listeners. Nevertheless, Judge Sykes will undoubtedly press some of his points in order to obtain a compromise with the majority when the whole problem of high power on the cleared channels is taken up.

Commissioner Starbuck is understood to be prepared to advance a proposal to set aside one cleared channel in each zone for duplicated operation. This would leave 35 channels free for high power assignments to the numerous applicants now being heard by the Commission on their requests for powers of 50,000 watts.

## Radio All Over the House

*(Continued from page 3)*

satisfactorily met by several manufacturers, but the prospective purchaser will do well in making sure on this point.

Concerning the wiring of several leads to various rooms, it is often preferable to make a permanent installation in which the wires are entirely concealed in the walls, instead of running along the moulding where they are exposed. It may be advisable to have a local electrician fish the wires through the walls for you as he is equipped with the proper tools for this kind of work and knows exactly how to proceed. However, many home owners can do the work themselves, which is not nearly as difficult as is commonly supposed. Holes for the outlets are carefully made so that the outlet boxes can be screwed to the plaster lath. One end of a chain is then dropped down into the partition and a hole is drilled through the subfloor and sill from the basement, taking care to drill the hole in the partition and between the same two studs as the chain. After this the chain can be "fished" out at the lower end. Then both ends of the chain are accessible and a cable attached to one end can be pulled up through the outlet. Similarly, leads are dropped through a partition directly behind the receiver. It is an easy matter to connect corresponding leads together

in the basement. This explanation applies to cases where the remote-control outlets are located in rooms on the first floor. If a second-floor outlet is desired, the same procedure is followed, but it is slightly more difficult to drill through the second-floor sill and subfloor. This can be done by carefully removing the baseboard, cutting away a section of plaster which is ordinarily covered by the baseboard and then drilling down, avoiding the mistake of going through the ceiling in the lower room. Use an angle brace for drilling. Also be sure to use armored cable for all concealed work in order to reduce fire hazard. Several kinds of outlets are available for remote installations, some incorporating a jack to accommodate a plug on the speaker cord, some having a separate switch for the speaker or for the a. c. and others having a small compensating coil which is cut into the circuit to take the place of the speaker impedance when the latter is removed, so that the volume of other speakers in operation on the circuit will not be varied to an appreciable extent.

Elaborate jobs of remote-control apparatus are meeting serious competition in so-called mantel receivers. These are small receivers that can easily be carried about where desired and plugged in at any convenient outlet, the power supply, receiver and speaker all being contained in a single unit that occupies very little space. It is evident that the provision of a number of separate receivers has two distinct advantages over remote-control installations of considerable expense, one of which is the cost factor itself, and the second is that John can listen to the ball game or prize fight while Mary tunes in something entirely different. With one central receiver it is, of course, impossible to tune in two separate stations at the same time.

The new Radio Map of North America will add immensely to your pleasure and satisfaction. It's large enough to put a ring around every city you hear, thus giving an interesting illustration of your results. Canada, Mexico, Central America and the West Indies receive the same consideration as the United States.

## Behind the Mike

By Lyman W. Packard

**F**EW people realize just what an undertaking it is to broadcast a program from the East. A local announcer is heard saying, "We will now transfer controls to New York where you will hear the ——— orchestra." Click — and a jazzy New York orchestra fills the home with the latest popular music.

It all sounds very simple when sitting comfortably with slippers on, but when a break is heard, or a bad hum, or some other extraneous noise that mars reception, one is inclined to think someone between the loud speaker and New York is not attending to business. Immediately the listener calls up the radio station and says that something is wrong and that it is time to wake up. As a matter of fact, long before this, dozens of expert engineers are after the trouble, have probably located it, and are more than half way through rectifying it.

Between Los Angeles and New York, there are approximately twenty-five relay, or "booster" stations. These stations boost the volume of the program as it comes along so that it will be loud enough to be audible by the time it reaches Los Angeles. Every one of these "booster" stations is equipped with a good loud speaker where the program may be heard, and a "monitor man" whose duty is to listen to the loud speaker and note any unnecessary noises. Upon hearing an extraneous noise other than the regular program, this monitor immediately checks with the "booster" station before him by a private telegraph wire. This second "monitor man" does the same thing, and so on, until the trouble is found and eliminated.

Every time a program "goes bad," it does not mean someone has fallen asleep. There are a thousand and one things that could happen to the wires between here and New York. A careless driver could run into a telephone pole and knock down the wires carrying the program. A tree could fall on the wires and short circuit them. A storm could blow the wires down. A vacuum tube in one of the twenty-five "booster" stations, or the transmitting station, could burn



out. Each "booster" station has approximately five vacuum tubes operating in boosting a program, and a transmitting station has approximately fifty tubes. Add to this twenty-five tubes at the originating studio, and the result is two hundred vacuum tubes necessary to bring a program from New York. If just one of these tubes gives trouble, it ruins the program. Sometimes a tube does not burn out, but becomes noisy and causes bad pops in the program. The engineers must know just which one of these two hundred tubes is giving the trouble and replace it or the entire program may be ruined. Then, besides all of these probable troubles, there may be a leaky transformer, a poor choke coil, or dozens of other little things which spoil a perfectly good program.

Therefore, when a few annoying cuts or pops are heard in a program, let us realize that we are not the first to notice it. There are many competent engineers between here and New York who are already on the job and "after it."

Forty of the most promising girl singers in the United States will be developed for the concert and operatic stage under the personal direction of Ernestine Schumann-Heink, she announced yesterday.

Applicants, mostly those who have

been unable to obtain proper training, owing to lack of money, will be given auditions before Mme. Schumann-Heink starting October 1, in the National Broadcasting Company studios. The famous star is operatic counsel for the N. B. C.

An advertising agency, interested in broadcasting, has advanced a plan to establish a certified audition bureau, where applicants can be heard. The artist, however, will be required to pay an audition fee which is expected to be \$5 for each audition lasting from 10 to 15 minutes. Following the audition, the artist will be catalogued as to ability, under ratings headed, "excellent," "suitable" and "N. G." The bureau is expected to open within two weeks. Offices and studios have been leased and equipment is now being installed on the top floor of a Times Square office building.

At Grand Island, Neb., is a radio traffic officer whose beat covers all the United States.

The "traffic cop" is for the detection of stations which operate off their assigned frequency.

This is done by a veritable forest of telephone poles in which are strung hundreds of miles of wire which serve as an elaborate ear for the "air policemen."

## 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 .....  | .40    |
| <input type="checkbox"/> One copy "Radio Trouble Shooting," by E. R. Haan .....                               | 3.00   |

Write Name Plainly .....

Street and Number .....

City and State .....

# CROSSWORD LURE and Station Lore

## How Well-Posted Are You in Radio?

IT was just too bad that so many readers missed getting one of those new radio maps free by making one or more mistakes in their solution of the September puzzle. The most popular error (if it could be called that) seemed to be giving a Quebec station as the "City named for a great battle." It is true that a battle was fought in Quebec, but the battle was named for the city and not the city for the battle. The city that was referred to in the puzzle was Waterloo, Ontario.

A number of solutions of the September puzzle were received after the correct solution, which was published in the October issue, was in the hands of our subscribers. These, of course, could not be counted. We have had some letters from readers asking why they did not hear from their solutions. It is impossible for us to undertake to notify each puzzler personally. We suggest that the fans keep copies of their solutions and compare them with the correct

solution in the next issue of our magazine. If they have not received their reward they will undoubtedly find that they made one or more errors. If not, we should be glad to have it called to our attention.

Readers still continue to write us of the entertainment they get from these puzzles and so long as this interest continues we will give space to this feature. Several readers have submitted original puzzles of their own design and the best of these will be used as rapidly as possible. The puzzle this month is contributed by J. Csgood Andrews, Gypsy Trail Club, Carmel, N. Y., and one of those attractive leatherette covers for RADEX has been mailed Mr. Andrews in appreciation. An extra copy of the December RADEX will be mailed to each one successfully solving Mr. Andrews' puzzle.

We have received a number of lists of world stations made up from the 26 letters of the alphabet without duplication. There have been so many changes in foreign calls that these lists do not remain correct at the time of publication, and we are therefore printing no more of these solutions.

Here is the correct solution for the puzzle which appeared in October. Rewards will be mailed on October 20th, On which date the contest closes.

CPRY WKAQ  
K WOAX KDYL W  
GC WDAFDWF WF  
IOW WCALW WIL  
W CC W R CD A  
WOKO WFAN  
WCAE KREG  
K FC A W CW W  
WOC WQAMW KGB  
SP WHFCACW WA  
C WRAK LAGW L  
WORD URFK

1	2	3		4	5	6		7	8	9
10			11				12			13
14		15	16		17	18		19	20	21
	22		23		24		25	26	27	
28		29		30	31	32		33		34
35		36	37	38		39		40	41	42
43		44		45	46	47		48		49
	50	51	52				53	54	55	
56			57	58	59	60	61			62
63			64		65		66			67
68	69	70		71	72	73		74	75	76

Why not fill out the blank on the other side, too?

### Horizontal

- 1-3. A Canadian telephone company.
- 4-6. Loyola University.
- 7-9. A northwest broadcasting system.
- 10-11. 50 watts on 1310.
- 12-13. Also on 1310.
- 14-16. Reverse. Owned by L. E. Coscualuala.
- 16-18. Reverse. At 100 on most dials.
- 18-20. Johnson-Kennedy Corp.
- 19-21. An N. B. C. outlet in Mo.
- 22-23. Columbus Commercial & Radio Co.
- 25-27. "The Nation's Station."
- 28-29. First and Last Woodmen of the World.
- 30-32. Last three of state agricultural college.
- 33-34. First and third of Columbia outlet.
- 35-37. A gulf port.
- 36-38. A Cuban telephone company.
- 39-41. On the center channel.
- 40-42. Zero on most dials.
- 43-44. Second and third Canadian newspaper.
- 45-47. Last three most southern station in Texas.
- 48-49. Last two letters station on 1225.
- 50-52. Daytime in Missouri.
- 53-55. An N. B. C. outlet.
- 56-57. Airfan.
- 58-60. In N-15 on new map.
- 61-62. Reverse. In Oregon.
- 63-64. A police station.
- 66-67. In Havana.
- 68-70. A newspaper N. B. C. outlet.
- 71-73. Who is this?
- 74-76. First and third in Manitowoc.

### Vertical

- 1-14. In central Canada.
- 2-22. In one of the cities of the same name separated by a state line.
- 3-15. In Tampico.
- 5-24. Shares time with two Chicago stations.
- 7-26. Operated by Ragsdale Auto.
- 8-27. Reverse. On the most crowded wave.
- 9-21. Reverse. Three of Dallas station.
- 11-23. Reverse. First three of N. Y. C. station.
- 12-25. In Mansfield.
- 15-29. Reverse. First three of Holt-Rowe station
- 17-31. 1000 watts in central California.
- 28-43. A Michigan newspaper.
- 29-51. Maine's best.
- 30-45. Last three of college for women.
- 32-47. First three of cherrio station.
- 33-54. Camith Corp.
- 34-49. Sister station of 71-73.
- 46-65. City famous for crew races.
- 50-69. Shares time with Johnstown auto company.
- 51-70. Reverse. In western Michigan.
- 52-64. Reverse. Dwight Faulding's station.
- 53-66. R. C. of A. station.
- 54-74. Reverse. In Auburn.
- 55-75. In western Maryland.
- 56-68. Shares wave with four N. Y. C. stations.
- 59-72. One of two stations in this state.
- 62-76. In J-1.

Beams of light, used for centuries by man only as weapon against darkness, are destined to lift great burdens from the shoulders of mankind in the industrial realm, Keith Kennedy told the Institute of Radio Engineers.

Already light rays controlling photoelectric cells are doing important jobs in industry and science, Mr. Kenney said, and vacuum tubes which measure thickness, noise, pressure and vibration are being widely used in the field of transportation.

## Trying Out Triplets

### Hooking Big Stations Together

After midnight synchronization tests, with three of the most important and highest powered broadcasting stations in the United States operating simultaneously on the same wave length have been extended to the daylight and early evening hours to determine whether such synchronized operation is practicable under normal broadcasting conditions.

Stations KDKA at Pittsburgh, WGY at Schenectady, and WEAF at New York have been linked together by telephone lines to operate for the next 30 days on WEAF's normal frequency of 660 kilocycles, carrying an identical network program under authority of the Federal Radio Commission, whose engineers are watching the tests carefully. The land-line hookup is necessary to hold the stations precisely on frequency in order to avoid interference.

Station WEAF should be heard by its usual audience as before, but KDKA will use an auxiliary transmitter known as W8XT and WGY will use one known as W2XAG for the simultaneous broadcasts on 660 kilocycles. Their usual programs will be heard also on their regularly assigned wave lengths. Under the Commission's requirement, however, the experimental transmitters must identify themselves at frequent intervals during the synchronized broadcasts.

The tests, if successful, may point the way to future chain broadcasting on one wave length, although the heavy cost of the land-line connection for stations situated far apart geographically is a deterrent which must be overcome. National Broadcasting Company engineers, headed by C. W. Horn, are in charge of the tests which are being undertaken between these three stations first because they are in fairly close proximity.

Will Osborne, the band leader, has established a fund for encouraging young musicians who are seeking recognition in any field of music.

It is planned to create a \$10,000 endowment fund and to distribute 500 medals to child musicians the first year.

# SCISSORS and PASTE POT

By the "PRETZELITE"

There is another McNamee in the NBC building; Tom, a page, who is sixteen years old.

Phil Cook claims an average of 18,000 letters a week, many being requests for songs.

The new CBS building has 60,000 miles of wire between its microphone, control panels, etc.

NBC figures that its yearly total of fan letters runs around 2,000,000.

A recent announcement shows that 15 types of receiving tubes, popular not so long ago, have been taken out of production as being obsolete.

Visitors are now being barred from viewing the artists in action in some of the large stations because of "mike-fright."

Loudspeaker operation of signals from W2XAF companion short wave transmitter of WGY, is reported from Yokohama, Japan, by Seichi Nozaki. His letter said that he got up at 5:30 a.m. to get jazz music from America.

Listeners in New Zealand were included among those who heard the shot by shot report of the National Open golf tournament broadcast by KSTP. A letter just received from Alfred Greening, of Inglewoods, New Zealand, said: "certain portions of the account of the tournament came in very clearly over your station."

Mme. Ada Paggi, singer with the ravinia and civic opera companies, was fined \$15 for the "pot" shot she took at a neighbor.

The shot—with a flower pot—was an unmistakable protest on the diva's part against band music played on the radio at 6 o'clock in the morning. It was also unmistakable evidence of a deadly aim.

Supreme Court Justice Edward J. McGoldrick today dismissed the suit of Will Osborne, band leader, for \$500,000 damages for libel and an injunction against Rudy Vallee, E. P. Dutton & Company, publishers, and the New York Sun, to restrain further publication of Vallee's book, "Vagabond Dreams Come True." The suit was based upon charges that Vallee insinuated Osborne was an imitator.

After telling friends of his daily inspirational radio talks over radio station KY was "driving me crazy," Dudley Ayres, a former actor, shot and killed himself in his garage.

Ayres was production manager of the radio station. He was well known throughout the Pacific coast region and once was leading man at the Old Castle Square Theatre in Boston.

Several hundred army officers unable to converse in Spanish are to take a daily course by radio.

Quarters of all officers now serving as two-year students in the command and general staff school here have been fitted with radio loud speakers. The speakers are connected with a central receiving set.

Each day an instructor will give a half-hour Spanish lesson over the hook-up. Student officers have been ordered to listen in.

She was only foolin'. No, Margaret Ekdahl, the Miss America of 1930, is not going to marry Will Osborne, powder-puff rival of Rudy Vallee. It was all good publicity until Will's regular sweetie got sore, and threatened to spill the beans.

Station KFJF was off the air recently for two hours because a snake crawled across two 66,000-volt wires, leaving charred remains which caused a short circuit.

# KEY TO CHAIN STATIONS

CFRB 960 C	KOL 1270 C	WBRC 930 C	WFAN 610 C	WJDX 1270 N	WOW 590 N
CKAC 730 C	KOMO 920 N	WBT 1080 C	WFBL 1360 C	WJJD 1090 C	WOWO 1160 C
CKGW 690 N	KPO 680 N	WBZ 990 N	WFRM 1230 C	WJR 750 N	WPG 1100 C
KDKA 980 N	KPRC 920 N	WBZA 990 N	WFI 560 N	WJZ 760 N	WPTF 680 N
KDYL 1290 C	KRLD 1040 C	WCAE 1220 N	WFIW 940 C	WKBN 570 C	WQAM 560 C
KECA 1430 N	KSCJ 1330 C	WCAH 1430 C	WFLA 1450 N	WKBW 1480 C	WRC 950 N
KFAB 770 N	KSD 550 N	WCAO 600 C	WFLS 620 N	WKRC 550 C	WREC 600 C
KFH 1300 C	KSL 1130 N	WCAU 1170 C	WGL 1370 C	WKY 900 N	WREN 1220 N
KFI 640 N	KSTP 1460 N	WCCO 810 C	WGN 720 N	WLAC 1470 C	WRR 1280 C
KFJF 1480 C	KTAR 620 N	WCFL 970 N	WGR 550 N	WLBW 1260 C	WRVA 1110 N
KFKX 1020 N	KTHS 1040 N	WCKY 1490 N	WGST 890 C	WLBZ 620 C	WSAI 1330 N
KFPY 1340 C	KTRH 1120 C	WCSH 940 N	WGY 790 N	WLIB 720 N	WSB 740 N
KFRC 610 C	KTSA 1290 C	WDAE 1220 C	WHAM 1150 N	WLIT 560 N	WSM 650 N
KFSD 600 N	KVI 760 C	WDAF 610 N	WHAS 820 N	WLS 870 N	WSMB 1320 N
KGO 790 N	KVOO 1140 N	WDAY 940 C	WHEC 1440 C	WLW 700 N	WSPD 1340 C
KGW 620 N	KWK 1350 N	WDBJ 930 C	WHK 1390 C	WMAK 900 C	WSUN 620 N
KHJ 900 C	KYW 1020 N	WDBO 1120 C	WHO 1000 N	WMAL 630 C	WTAG 580 N
KHQ 590 N	WABC 860 C	WDOD 1280 C	WHP 1430 C	WMAQ 670 C	WTAM 1070 N
KLRA 1390 C	WADC 1320 C	WDSU 1250 C	WIBO 560 N	WMC 780 N	WTAR 780 C
KLZ 560 C	WAIU 640 C	WEAF 660 N	WIBW 580 C	WMT 600 C	WTIC 1060 N
KMBC 950 C	WAPT 1140 N	WEAN 780 C	WIOD 1300 N	WNAC 1230 C	WTMJ 620 N
KMOX 1090 C	WBAL 1060 N	WEBC 1290 N	WISN 1120 C	WNAX 570 C	WTOC 1260 C
KOA 830 N	WBAF 800 N	WEEI 590 N	WJAR 890 N	WOAI 1190 N	WWJ 920 N
KOIL 1260 C	WBBM 770 C	WENR 870 N	WJAS 1290 C	WOC 1000 N	WWNC 570 C
KOIN 940 C	WBCM 1410 C	WFAA 800 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 WGR  
WGY WRC

**8:15-8:30 Morning Devotions**  
WEAF WAPI WCAE WCKY WCSH WFI  
WFLA WGR WGY WHAS WIOD WJAR  
WJAX WJDX WLS WOW WPTF WRC  
WRVA WSUN WTG WJW

**8:30-9:00 Cheerio**  
WEAF CKGW KPRC KSTP WAPI WCAE  
WCKY WCSH WDAF WEEI WFI WFLA  
WGR WGY WHAS WIBO WIOD WJAR  
WJAX WJDX WMC WOAI WOW WPTF  
WRC WRVA WSB WSM WSUN WTAG  
WTAM WJW

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

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

**9:00-10:00 Morning Melodies**  
WEAF WAPI WGR WGY WHAS WOW  
WRC WRVA WSM WTAM WJW

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

**12:00-12:30 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 WNNC WXYZ

**12:30-1:30 National Farm and Home Hour**  
WJZ KDKA KFAB KFJK 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

**12:30-1:30 Manhattan Tower Orchestra**  
WABC KDYL KFJ 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

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

**2:30-3:00 Columbia Educational Features**  
WABC KDYL KFJ KFJF KFPY KFRC  
KLZ KMBC KSCJ KVI WADC WAIU

WBCM WBRC WCAO WCAU WCCO WDAY  
WDBJ WDOD WEAN WFBM WHK WHP  
WIBW WISN WJAS WKBN WKRC WLAC  
WLBZ WMAL WMT WNBC WOWO WPG  
WREC WSPD WTAR WNNC 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 WGL WHEC WHP WIBW  
WISN WKBN WKRC WLAC WLWB WMAL  
WMT WNBC WORC WPG WREC WSPD  
WTAR WNNC WXYZ

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

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

**6:45-7:00 Uncle Abe and David**  
WEAF KSD WAPI WCAE WCSH WDAF  
WECB WEEI WFNR WFI WFJC WGY  
WHAS WHO WJAR WJDX WMC WOC  
WOW WRC WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WJW

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

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

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

**11:15-11:30 Columbia's Radio Column**  
WABC KFJF KFPY KPRC KLZ KMBC  
KOL KSCJ WBCM WBRC WCAO WCAU  
WCOO WDAY WDBJ WDOD WEAN WFBM  
WIBW WISN WLWB WLBZ WMAL WMT  
WNNC WNNX WORC WPG WREC WTAR  
WNNC WXYZ

**11:30-11:45 Amos 'n' Andy**  
KECA KFAB KFSD KGO KGW KHQ  
KOA KOMO KPRC KSL KSTP KTHS  
KWK KYW WBAP WDAF WECB WHAS  
WJDX WKY WMAQ WMC WOAI WREN  
WSB WSM WSMB WTMJ

#### 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  
WJW

**1:30-2:00 Conclave of Nations**  
WABC KFPY KLZ KMBC KMOX KSCJ  
KVI WAIU WBCM WBRC WCAO WCAU  
WDAY WDBJ WDOD WHEC WHP WIBW

WISN WKBN WLWB 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 WBCB WFAA  
 WFLA WHAM WHAS WIOD WJAX WLW  
 WPTF WRC WREN WRVA WSB WSUN  
**2:00-3:15 Cathedral Hour**  
 WABC KDYL KFHL KFPY KLZ KMBC  
 KMOX KRLD KSCJ KVI WADC WBCM  
 WBCB WCAO WCAU WCCO WDBJ WDOE  
 WEAN WFBM WHCB WHP WIBW WISN  
 WKBN WKRC WLAC WLWB WMT WNAC  
 WORC WPG WSPD WTAR WWNC WXYZ  
**2:30-3:00 NBC Artists Service Program**  
 WFAF 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  
 WJDX WJR WLS WLW WOAI WPTF  
 WREN WRVA WSB WSUN  
**3:15-5:00 New York Philharmonic Orchestra**  
 WABC KDYL KFHL KFPY KFRG  
 KHJ KLZ KMBC KMOX KRLD KSCJ  
 KVI WADC WAIU WBCM WBCB WCAO  
 WCAU WCCO WDAY WDBJ WDOE WEAN  
 WFBM WHEC WHP WIBW WISN WJAS  
 WKBN WKRC WLAC WLWB WLWB WMAQ  
 WMT WNAC WORC WOWO WREC WSPD  
 WTAR WWNC WXYZ  
**4:00-4:15 South Sea Islanders**  
 WJZ KDKA KFAB KWK WBAL WBZ  
 WBZA WHAM WJR WLS WLW WREN  
**4:00-5:00 Dr. S. Parkes Cadman**  
 WFAF KGO KGW KHQ KOA KOMO  
 KPO KPRC KVOO WCAE WCSH WDAF  
 WBCB WEEI WFAA WFJC WFLA WGR  
 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  
 WFLB WJAS WKBW WKRC WMAL WMAQ  
 WNAC WOWO WXYZ  
**5:00-6:00 Davey Hour**  
 WFAF CKGW KSD WCSH WGR WGY  
 WHO WJAR WOC WOW WRC WSAI  
 WTAG  
**5:00-6:00 National Vespers**  
 WJZ KFAB KGO KGW KHQ KOA  
 KOMO KPRC KSTP KJAR KVOO KWK  
 WBAL WBZ WBZA WBCB WFLA WHAM  
 WIOD WJAX WJDX WLW WMC WOAI  
 WPTF WRC WREN WSB WSUN  
**5:30-6:00 The French Trio**  
 KDYL KFHL KFPY KLZ KMBC KSCJ  
 KVI WADC WBCB WCCO WDAY WDBJ  
 WDOE WEAN WFBM WHP WIBW WJAS  
 WKBN WLWB WLWB WMAL WMT WNAC  
 WORC WOWO WPG WREC WSPD WTAR  
 WWNC WXYZ  
**6:00-7:00 Catholic Hour**  
 WFAF KECA KGO KGW KHQ KOA  
 KOMO KPO KPRC KSD KSTP KJAR  
 KVOO KYW WBAP WCAE WCSH WDAF  
 WBCB WEEI WFJC WFLA WGR WGY  
 WHAS WHO WIOD WJAR WJAX WJDX  
 WKY WLIT WMC WOAI WOC WRC  
 WRVA WSAI WSB WSM WSBM WSUN  
 WTAG WTMJ WWJ  
**7:00-7:35 Iodent Big Brother Club**  
 WFAF KSD WCAE WCSH WBCB WEEI  
 WFJC WGR WHO WJAR WLIT WJAS  
 WOC WOW WRC WSAI WTAG WTMJ  
 WWJ  
**7:30-8:00 Williams Oilomatics**  
 WJZ KDKA KOA KSL KWK WBZ  
 WBZA WGN WHAM WJR WLW WREN  
**7:35-8:30 Major Bowes' Family**  
 WFAF KSD KSTP WCAE WCSH WDAF  
 WFJC WFLA WGY WHAS WIOD WJAR

WJDX WKY WLS WMC WOAI WRC  
 WSAI WSB WSMB WSUN WTAG WTAM  
 WWJ  
**8:00-8:15 The World's Business**  
 WABC KDYL KFPY KFRG KHJ KLZ  
 KMBC KOL KRLD KSCJ WADC WAIU  
 WCAO WDAY WDBJ WDOE WEAN WFBM  
 WHEC WHP WIBW WISN WJAS WKBN  
 WLAC WLWB WLWB WMAL WMT WNAC  
 WNAX WORC WREC WTAR WWNC WXYZ  
**8:00-8:15 Enna Jettick Melodies**  
 WJZ KDKA KFAB KFI KPSD KGW  
 KHQ KOA KOMO KPO KPRC KSL  
 KSTP KJAR KTHS KVOO KWK KYW  
 WAPI WBZ WBZA WCKY WBCB WFAA  
 WFLA WHAM WHAS WIOD WJAX WJDX  
 WJR WKY WMC WOAI WPTF WREN  
 WRVA WSB WSM WSBM 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**  
 WFAF KPRC KSD KSTP KTHS KVOO  
 WCAE WCSH WDAF WBCB WFCJ WFLA  
 WGY WHAS WHO WIBO WIOD WJAR  
 WJDX WKY WLIT WMC WOAI WOC  
 WOW WRC WSAI WSB WSBM  
 WSUN WTAG WTMJ WTTIC WTMJ WWJ  
**9:00-9:15 Our Government, David Lawrence**  
 WFAF KSD WCAE WCSH WBCB WEEI  
 WFAA WFJC WFLA WGY WHAS WHO  
 WIOD WJAR WJDX WKY WLIT WMC  
 WOAI WOC WOW WPTF WRC WSAI  
 WSB WSM WSBM WSUN WTAG WTTIC  
 WWJ  
**9:00-9:30 Majestic Theatre of the Air**  
 WABC CFBK CKAK KDYL KFHL KFJF  
 KFPY KFRG KHJ KLRA KLZ KMBC  
 KOIL KOIN KOL KRLD KTSB KVI  
 WADC WBBM WBCB WBT WCAO WCAU  
 WCCO WDBJ WDEL WDOE WEAN WFBM  
 WFLB WFBM WHK WIBW WISN WJAS  
 WKBN WKRC WLAC WLWB WLWB WMAL  
 WNAC WOWO WPG WREC WSAZ WSPD  
 WTAR WWNC WXYZ  
**9:15-10:15 Atwater Kent Hour**  
 WFAF CKGW KFI KGW KHQ KOA  
 KOMO KPO KSD KSL KSTP KJAR  
 WCAE WDAF WEEI WFAA WFI WGN  
 WGR WGY WHAS WHO WKY WMC  
 WOAI WOC WOW WRC WSAI WSB  
 WSM WSBM WTAM WWJ  
**9:30-10:00 Mayhew Lake and His Band**  
 WABC KDYL KFHL KFPY KLZ KMBC  
 KMOX KOL KRLD KSCJ WCAO WCCO  
 WDAY WDBJ WDOE WEAN WFBM  
 WJAS WKBN WKRC WLAC WLWB WLWB  
 WMAL WMT WNAC WNAX WORC WREC  
 WSPD WTAR WXYZ  
**10:00-10:30 Arabesque**  
 WABC KDYL KFHL KFPY KLZ KMBC  
 KMOX WADC WBCB WCAO WDAY WDBJ  
 WDOE WEAN WFBM WHEC WHK WIBW  
 WISN WJAS WKBN WKRC WLAC WLWB  
 WLWB WMAL WMT WNAC WNAX WORC  
 WOWO WREC WSPD WTAR WXYZ  
**10:15-10:45 Studebaker Champions**  
 WFAF KFI KGO KGW KHQ KOA  
 KOMO KSTP WCAE WCSH WDAF WBCB  
 WEEI WFI WGN WGR WGY WJAR  
 WOW WRC WTAG WTMJ WTTIC WTMJ  
 WWJ  
**10:30-10:45 Harbor Lights**  
 WJZ CKGW KDKA WHAM WHAS WJAX  
 WJDX WJR WREN  
**10:30-11:00 Around the Samovar**  
 WABC WADC WCAO WCAU WDBJ WEAN  
 WHEC WHK WJAS WKBN WLWB WLWB  
 WMAL WNAC WORC WPG WSPD WTAR  
 WXYZ  
**10:45-11:15 Sunday at Seth Parker's**  
 WFAF CKGW KFSD KGO KGW KHQ  
 KOA KOMO KPRC KSTP KJAR KYW

WCAE	WCSH	WDAF	WEBC	WEEI	WFI	WIBW	WISN	WJAS	WLAC	WLBW	WLBZ
WFJC	WGR	WGY	WHAS	WHO	WIOD	WMAL	WMAQ	WMT	WNAX	WORC	WPG
WJAX	WJDX	WJKY	WMC	WOC	WOW	WREC	WSPD	WTAR	WNNC	WXYZ	
WRC	WSB	WSM	WTAM	WTMJ	WWJ						

8:30-9:00 Ingram Shavers  
WJZ CKGW KDKA KFAB KOA KPRC  
KTHS KVOO KWK KYW WBZ WBZA  
WEBC WFAA WFLA WHAS WIOD WJAX  
WJR WNY WMC WOAI WREN  
WRVA WSB WSM WSWB WWTM

8:30-9:00 Mardi Gras  
WABC KDYL KPFP KFCR KMBC KRLD  
KSCJ WADC WBCM WCCO WDAY WDBJ  
WDOB WEAN WGL WHP WISN WJAS  
WKRC WLAC WLBW WLBZ WMAL WMAQ  
WNAC WNAX WORC WTAR WNNC WXYZ

8:30-9:30 A & P Gypsies  
WEAF KSD WCAE WCSH WDAF WEEI  
WGN WGR WGY WHO WJAR WLIT  
WOC WOV WRC WSAI WTAG WTAM  
WTIC WWJ

## Monday

3:00-3:30 Phil Napoleon and His Band  
WJZ KDKA KPRC KWK WBAL WBZ  
WBZA WHAM WREN WSB WSM

3:30-4:00 Salon Singers  
WEAF KSD KSTP WFJC WGR WHO  
WOC WRC

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 KPFP KFCR KHJ  
KLZ KMBC KMOX KOL KRLD KSCJ  
KVI WADC WAIU WBCM WBRV WCAO  
WCAU WCCO WDAY WDBJ WDOB WEAN  
WGL WHEC WTBW 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 KPFP KFCR KLZ  
KMBC KMOX KOL KRLD KSCJ KVI  
WADC WAIU WBCM WBRV WCAO WCCO  
WDAY WDBJ WDOB WEAN WGL  
WHP WISN WJAS 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  
KTRAR KWK WAPI WBAL WHAS WLW  
WRC WSM

6:00-6:30 MacDougal Restaurant Orchestra  
WABC KDYL KFJF KPFP KFCR  
KLZ KMOX KOL KSCJ WBCM WBRV  
WCAO WCCO WDAY WDBJ WDOB WGL  
WHEC WHP WKBW WLBW WMAL WMT  
WREC WTAR WNNC WXYZ

7:00-7:15 Current Events  
WABC KFJF KPFP KFCR KLZ  
KOL KSCJ KVI WBCM WCAU WDAY  
WDBJ WDOB WFBM WHEC WHP WLBW  
WISN WJAS WLBW WLBZ WMAL WMT  
WORC WREC WSPD WTAR WNNC WXYZ

7:30-8:00 Colonial Beaconsights  
WEAF WCSH WEEI WGR WGY WJAR  
WTAG

7:45-8:00 Sinclair Program  
WABC KMBC KMOX KRLD KSCJ KTRH  
WADC WBT WCAO WCAU WGL WGST  
WHK WKBW WKRC WMAQ WSPD WXYZ

7:45-8:30 Roxy's Gang Program  
WJZ CKGW KFAB KGO KGW KWK  
WBZ WBZA WHAM WIBO WSB WSM

8:00-8:30 Half Hour in Nation's Capital  
WEAF KECA KFSD KGO KGW KOA  
KOMO KPRC KSD KVOO KYW WCAE  
WDAF WJRC WFLA WHAS WHO WIOD  
WJAR WJAX WJDX WKY WOAI WOC  
WOW WPTF WRC WSAI WSMB WSUN  
WTAG WTIC WWJ

8:15-8:30 Burbis's Synopacted History  
WABC KDYL KFJF KPFP KMBC KRLD  
KSCJ KVI WADC WBCM WBRV WCAO  
WCCO WDAY WDBJ WDOB WFBM WGL

9:00-9:30 Maytag Orchestra  
WJZ KDKA KECA KGO KGW KHQ  
KOA KOMO KPRC KSL KSTP KTHS  
KVOO KWK KYW WBZ WBZA WCKY  
WEBC WHAM WJDX WJR WKY WMC  
WOAI WREN WSB WSM WSWB

9:00-9:30 Minneapolis-Honeywell Symphony Hour  
WABC KMBC KMOX KOIL WADC WBBM  
WBT WCAU WCAU WCCO WEAN WFLB  
WHK WISN WJAS WKBW WKRC WLBW  
WMAL WNAC WOVO 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 Bourjoe-Evening in Paris  
WABC KDYL KFJF KPFP KFCR KHJ  
KLZ KMBC KMOX KOIL KOIN KOL  
KRLD WADC WBBM WBT WCAO WCAU  
WCCO WDSU WEAN WFLB WGST WHK  
WJAS WKBW WKRC WLBW WMAL WNAC  
WOVO WPG WSPD WXYZ

9:30-10:00 General Motors Family Party  
WEAF KECA KFI KSD KGO KGW KHQ  
KOA KOMO KPRC KSL KSTP  
WCAE WCSH WDAF WEEI WFAA WGN  
WGR WGY WHAS WHO WJAR WJAX  
WKY WLIT WMC WOAI WOC WOV  
WRC WSAI WSB WSM WTAG WTAM  
WTIC WTMJ WWJ

10:00-10:30 Robert Burns Panatela Program  
WABC KDYL KFJF KPFP KFCR KHJ  
KLZ KMBC KMOX KOIL KOIN KOL  
KRLD KTRH KTSA KVI WADC WBT  
WCAO WCAU WCCO WEAN WFLB WFBM  
WHK WJAS WKBW WKRC WLBW WMAL  
WMAQ WNAC WOVO WPG WSPD WXYZ

10:00-10:30 Stromberg-Carlson Program  
WJZ KDKA KFI KFSD KGO KGW  
KHQ KOA KOMO KPRC KTRAR KWK  
KYW WAPI WHZ WBZA WCKY WEBC  
WFLA WHAM WHAS WIOD WJAX WJDX  
WJR WKY WMC WOAI WREN WRVA  
WSB WSM WSMB WSUN

10:00-10:30 Moonshine and Honey-suckle  
WEAF KSD WCAE WCSH WDAF WGR  
WGY WJAR WOV WRC WTAG WWJ

10:30-11:00 Empire Builders  
WJZ KDKA KECA KFSD KGO KGW  
KHQ KOA KOMO KPRC KSL KSTP  
KTRAR KWK KYW WBPB WBZ WBZA  
WEBC WHAM WJAR WKY WLW WOAI  
WREN WTMJ

10:30-11:00 American Maize Program  
KDYL KPFP KFCR KHJ KLZ KNN  
KOIL KOL KSCJ WADC WBBM WCAH  
WCAU WDAY WHP WHP WISN WJAS  
WKBW 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

11:00-11:15 Will Osborne and His Orchestra  
WABC KDYL KFJF KPFP KWK KLZ  
KMBC KOL KSCJ WBCM WBRV WCAO

WCCO WDAY WDBJ WDOD WFBM WIBW  
 WISN WLWV WLBZ WMAL WMT WNAX  
 WORC WPG WREC WTAR WWNC WXYZ  
**11:00-11:30 Hal Kemp's Orchestra**  
 WFAF KSD KSTP WCAE WDAF WEBC  
 WENR WGY WJDX WMC WOW WRC  
 WSAI WSB WSMB WTMJ WWJ  
**11:30-12:00 Bernie Cummins and His Orchestra**  
 WFAF KSD KSTP WDAF WHO WOC  
 WOV WRC WWJ  
**11:30-12:00 Sammy Watkins and His Orchestra**  
 WABC KDYL KFH KFJF KFPY KLZ  
 KMBC KOL KSCJ WBCM WBRK WCAO  
 WCCO WDAY WDBJ WDOD WFBM WHK  
 WIBW WISN WKRC WLBZ WMAL WMT  
 WNAX WORC WPG WREC WTAR WWNC  
 WXYZ  
**12:00-1:00 Phil Spitalny and His Orchestra**  
 WFAF KSD KSTP KYW WDAF WFJC  
 WHO WKY WOC WRC WSM WTAM  
 WWJ

## Tuesday

**10:15-10:30 Through the Looking Glass**  
 WJZ CKGW KDKA KFAB KFKX KPRC  
 KVOO KWK WBZ WBZA WHAM WJR  
 WKY WLW WOAI WREN  
**3:30-4:00 Golden Gems**  
 WFAF KSD KSTP WEEI WFJC WFLA  
 WGR WJAX WOW WSUN WTAG WTAM  
 WTTIC  
**4:00-4:30 Italian Idyll**  
 WABC KDYL KFJF KFPY KFRC KLZ  
 KMBC KMOX KRLL KSCJ KVI WADC  
 WAUI WBCM WBRK WCAO WCAU WCCO  
 WDBJ WDOD WEAN WHK WIBW WISN  
 WKRC WLAC WLBZ WMAL WMT WNAC  
 WORC WOV WPG WREC WTAR WWNC  
 WXYZ  
**4:00-5:00 Pacific Vagabonds**  
 WJZ KFAB KFSD KGO KGA KSTP  
 WAPI WHAM WJAX WJR WLW WSM  
**5:00-5:15 Rhythm Kings**  
 WABC KDYL KFH KFJF KLZ KMBC  
 KMOX KRLL KSCJ WAUI WBCM WBRK  
 WCAO WCCO WDOD WFBM WHP WISN  
 WKBN WLBZ WMAL WMT WREC WTAR  
 WWNC WXYZ  
**7:15-7:45 Huston Ray and His Orchestra**  
 KFH KFJF KFPY KFRC KHJ KLZ  
 KMBC KRLL KSCJ KVI WAUI WBRK  
 WCAU WCCO WDAY WDBJ WDOD WFBM  
 WHP WIBW WISN WJAS WKBN WKRC  
 WLAC WLBW WMAQ WMT WORC WOWO  
 WREC WSPD WTAR WWNC WXYZ  
**7:30-8:00 Soconyland Sketches**  
 WFAF WCHS WEEI WGR WGY WJAR  
 WTAG  
**8:00-8:15 Troika Bells**  
 WFAF WDAF WEEI WFI WRC WSAI  
 WWJ  
**8:00-8:30 Pure Oil Orchestra**  
 WJZ KDKA KFAB KSTP KWK KYW  
 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 WHEC WHK WHP WJAS WKBW  
 WLBW WLBZ WMAL WMAQ WMT WNAC  
 WORC WPG WSPD WXYZ  
**8:30-9:00 Florsheim Frolic**  
 WFAF KOA KPRC KSD KSL KSTP  
 KTHS KVOO WBAP WCAE WCHS WDAF  
 WEBC WFI WFLA WGN WGR WGY  
 WHAS WHO WIOD WJAR WJAX WJDX  
 WKY WMC WOAI WOC WOW WRC  
 WRVA WSAI WSB WSM WSMB WSUN  
 WTAG WWJ  
**8:45-9:00 Premier Salad Dressers**  
 WABC KDYL KFPY KFRC KHJ KLZ  
 KMBC KMOX KOIL KOIN KOL KTRH  
 KVI WADC WBT WCAO WCAU WCCO

WDAE WDBO WDSU WEAN WFBL WGST  
 WHK WJAS WKBW WKRC WLAC WLBW  
 WMAL WMAQ WNAC WOWO WPG WQAM  
 WSPD WTOC WXYZ  
**9:00-9:30 Tek Music**  
 WJZ CKGW KDKA KWK KYW WBAL  
 WBZ WBZA WCKY WHAM WREN  
**9:00-9:30 Henry George**  
 WABC KFH KMBC KMOX KOIL WADC  
 WBBM WCAO WCAU WCCO WEAN WFBL  
 WFBM WHK WHP WISN WJAS WKBW  
 WKRC WLBW WMAL WNAC WOWO WSPD  
 WXYZ  
**9:00-9:30 Eveready Program**  
 WFAF KGO KGW KHQ KOA KOMO  
 KSD KSL WCAE WCHS WEBC WEEI  
 WFI WFJC WGN WGR WGY WHAS  
 WHO WJAR WJDX WMC WOC WOW  
 WRC WSAI WSB WSM WSMB WTAM  
 WWJ  
**9:30-10:00 Happy Wonder Bakers**  
 WFAF KECA KGO KGW KHQ KOA  
 KOMO KPRC KSD KSL KSTP KVOO  
 WBAP WCAE WCHS WDAF WEBC WEEI  
 WFI WFJC WGR WGY WHAS WHO  
 WIBO WJAR WJDX WKY WMC WOC  
 WOW WRC WRVA WSAI WSB WSMB  
 WTAG WTAM WTMJ WWJ  
**9:30-10:00 Philco Symphony Concert**  
 WABC CFRB KFH KFJF KMBC KMOX  
 KOIL KRLL KTRH KTSA WADC WBRK  
 WBT WCAO WCAU WCCO WDOD WDSU  
 WEAN WFBL WFBM WGST WHEC WHK  
 WISN WJAS WKBW WKRC WLAC WLBW  
 WMAL WMAQ WMT WNAC WOWO WPG  
 WREC WSPD WTAR WXYZ  
**10:00-10:15 Enna Jettick Songbird**  
 WFAF KSD WCAE WCHS WDAF WEEI  
 WFI WFJC WGR WGY WHO WIBO  
 WJAR WOC WOW WRC WSAI WTAG  
 WTAM WWJ  
**10:00-10:15 Graybar's, Mr. and Mrs.**  
 WABC KDYL KFH KFJF KFPY KFRC  
 KHJ KLRA KLZ KMBC KMOX KOIL  
 KOIN KOL KRLL KTRH KTSA KVI  
 WADC WAUI WBBM WBRK WBT WCAO  
 WCAU WCCO WDBJ WDSU WEAN WFBL  
 WFBM WGST WHEC WHK WISN WJAS  
 WKBN WKBW WKRC WLAC WLBW WMAL  
 WNAC WOWO WPG WREC WSPD WTAR  
 WWNC WXYZ  
**10:00-10:30 Westinghouse Salute**  
 WJZ KDKA KECA KFSD KGO KGW  
 KHQ KOMO KPRC KSL KSTP KTR  
 KWK KYW WAPI WBAL WBT WBZA  
 WCKY WFCB WLVA WHAM WHAS WIOD  
 WJAX WJR WKY WMC WOAI WREN  
 WRVA WSB WSM WSMB WSUN WTMJ  
**10:15-11:00 Paramount Public Radio Playhouse**  
 WABC CFRB KDYL KFH KFJF KFPY  
 KFRC KHJ KLRA KLZ KMX KMOX  
 KOIL KOIN KOL KSCJ KTRH KTSA  
 WADC WBBM WBCM WNRK WBT WCAO  
 WCAU WCCO WDAE WDAY WDBJ WDBO  
 WDOD WDSU WEAN WFBL WFBM WGST  
 WHEC WHK WHP WIBW WISN WJAS  
 WKBN WKBW WKRC WLAC WLBW WLBZ  
 WMAL WMT WNAC WNAX WOWO WPG  
 WQAM WREC WRR WSPD WTAR WTOC  
 WWNC WXYZ  
**10:15-11:00 Lucky Strike Orchestra**  
 WFAF KECA KFSD KGO KGW KHQ  
 KOA KOMO KSD KTR WCAE WCHS  
 WDAF WFCB WEEI WFI WFJC WFLA  
 WGR WHAS WHO WIBO WIOD WJAR  
 WRC WJDX WKY WMC WOAI WOC  
 WRVA WSAI WSB WSM WSMB  
 WSUN WTAG WTMJ WWJ  
**10:30-11:00 Cuckoo**  
 WJZ KDKA WBZ WBZA WCKY WJR  
 WREN



**11:00-11:15 Anheuser-Busch Program**  
 KFJF KLRA KMBC KMOX KOIL KTRH  
 WBBM WCCO WDOD WDSU WFBM WHK  
 WMT WREC WRR WSPD 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 WOW WRC

**Wednesday**

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

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

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

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

**4:00-5:00 Radio Guild**  
 WJZ CKGW KFAB KGO KOA KSTP  
 KTHS WBAL WHAM WJAX WLW WMC  
 WPTF WRC WREN WSM

**5:00-5:30 Footnotes**  
 WABC KDYL KFH KFJF KLZ KMBC  
 KMOX KRLL KSCJ WAIU WBCM WBRC  
 WCAO WCCO WDAY WDOD WFAN WGL  
 WHP WISN WKBN WLWB WMAL WMT  
 WREC WTAR WWNC WXYZ

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

**7:30-7:45 Evangeline Adams, Astrologer**  
 WABC CFRB KFJF KLRA KMBC KMOX  
 KOIL KTRH WADC WAIU WBRC WBT  
 WCAO WCAU WCCO WDBJ WDOD WDSU  
 WEAN QFBL WFBM WGL WGST WHEC  
 WHK WISN WKBW WKIC WLAC WLWB  
 WMAL WMAQ WNBC WREC WRC WSPD  
 WTAR WWNC WXYZ

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

**7:45-8:00 Eskimo Pie Program**  
 WABC CKAC KMBC KMOX KRLL WBRC  
 WBT WCAO WCAU WCCO WGST WHEC  
 WHK WJAS WKBW WKRC WLAP WMAL  
 WMAQ WNBC

**7:45-8:00 Dic-a-Doo Entertainers**  
 WJZ CKGW KDKA KFAB KWK KYW  
 WBZ WBZA WEBC WHAM WREN WTMJ

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

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

**8:15-8:30 Voice of Columbia**  
 WABC KDYL KFH KFJF KFPY KFRC  
 KLZ KMBC KRLL KSCJ KVI WBCM  
 WCCO WDAY WDBJ WDOD WFBM  
 WISN WJAS WKRC WLAC WLWB  
 WMAL WMT WNBC WNAX WORC WREC  
 WTAR WWNC WXYZ

**8:30-9:00 Mobiloil Concert**  
 WEAF KOA KPRC KSD KSL KVOO  
 WCAE WCSH WDAF WEBC WEEI WFAA  
 WFJC WGN WGR WGY WHO WJAR  
 WKY WLIT WOAI WOC WOW WRC  
 WSAI WTAG WTMJ WTTIC WWJ

**8:30-9:00 Forty Fathom Trawlers**  
 WABC KMOX WADC WBT WCAO WCAU  
 WEAN WFBL WFBM WHEC WHK WHP  
 WJAS WKBW WKRC WLWB WMAL WMAQ  
 WNBC WOWO WPG WSPD WXYZ

**8:30-9:00 Fifth Avenue Knights**  
 WJZ CKGW KDKA KFAB KWK KYW  
 WBZ WBZA WHAM WLW WREN

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

**9:00-9:30 Gold Medal Fast Freight**  
 WABC KDYL KFBK KFH KFJF KFPY  
 KFRC KHJ KLZ KMBC KMOX KOIL  
 KOIN KOL KRLL KSCJ WADC WBBM  
 WBT WCAO WCAU WCCO WDBJ WBEAN  
 WFBL WFBM WHK WISN WJAS WKBW  
 WKRC WLAC WLAP WLWB WMAL WNBC  
 WOWO WPG WREC WSPD WTAR WXYZ

**9:15-9:30 O' Cedar Time**  
 WJZ KDKA KWK WBZ WBZA WHAM  
 WLS WREN

**9:30-10:00 La Palina Smoker**  
 WABC KMBC KMOX KOIL WADC WBBM  
 WBT WCAO WCAU WCCO WEAN WFBL  
 WHK WISN WJAS WKBW WKRC WLWB  
 WMAL WNBC WOWO WPG WREC WSPD  
 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 WCSH WDAF WEEI WFAA  
 WGN WGR WGY WHAS WHO WJAR  
 WJAX WLIT WMC WOAI WOC WOW  
 WRC WSAI WSB WSM WSMB WTAG  
 WTTIC WTMJ WWJ

**10:00-10:30 Toscha Seidel and Concert Orchestra**  
 WABC KDYL KFJF KFPY KLZ KMBC  
 KMOX KSCJ WADC WBCM WCAO WCCO  
 WDAY WDBJ WDOD WFBM WHEC WIBW  
 WISN WJAS WBNB WKRC WLAC WLWB  
 WORC WOWO WMAQ WMT WNBC WNAX  
 WXYZ WREC WTAR WWNC

**10:30-11:00 Coca Cola Program**  
 WEAF CKGW KECA KFSD KGO KGW  
 KHQ KOA KOMO KPRC KSD KSL  
 KSTP KTHS KVOO KYW WAPI WCAE  
 WCSH WDAF WEBC WEEI WGR WGY  
 WHAS WHO WIOD WJAR WJAX WJDX  
 WKY WLIT WMC WOAI WOC WOW  
 WRC WRVA WSAI WSB WSMB WTAG  
 WTMJ WTTIC WWJ

**11:00-11:15 Will Osborne and His Orchestra**  
 WABC KFH KFPY KMBC KMOX KSCJ  
 WBCM WCAO WCCO WDAY WDBJ WDOD  
 WFBM WHEC WIBW WISN WLWB  
 WMT WNAX WORC WOWO WREC WTAR  
 WWNC WXYZ



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

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

## Thursday

10:15-10:30 O' Cedar Time  
 WJZ KDKA KFKX KOA KPRC KTHS  
 KVOO KWK WAPI WBZ WBZA WBEBC  
 WFLA WHAM WIOD WJAX WJDX WJR  
 WKY WLW WMC WPTF WREN WRVA  
 WSB WSM WSMB WSUN

10:30-10:45 Best Foods Round Table  
 WFAF KPRC KVOO KYW WAPI WCSH  
 WDAF WEEI WFI WGR WGY WHAS  
 WIOD WJAR WJAX WJDX WKY WOAI  
 WOW WPTF WRC WRVA WSAI WSB  
 WSM WSMB WTAG WWJ

10:45-11:15 Gothic String Trio  
 WFAF KFKX KOA KSD WCAE WEEI  
 WGR WGY WHAS WJDX WRC WSM  
 WTAG WWJ

4:30-5:00 Melody Magic  
 WABC KDYL KKFJ KFPY KFRC KLZ  
 KMBC KMOX KOL KRLD KSCJ KVI  
 WADC WAUW WBCM WBRC WCAO WCCO  
 WDAY WDBJ WDOD WEAN WFM WHP  
 WIBW WISN WLAC WMAL WMT WNAC  
 WORC WOWO WPG WREC WTAR WWNC  
 WXYZ

5:00-5:30 In the Spotlight  
 WFAF KFSD KGO KOA KOMO KSD  
 KTAR WCAE WGR WHAS WHO WJAR  
 WKY WOC WRC WSAI WSM WSMB  
 WTAG WTAM WTIC

5:30-5:45 The Toddy Party  
 WFAF CKGW KSD KYW WCAE WCSH  
 WEEI WFJC WGR WGY WJAR WLIT  
 WRC WSAI WTAG WTIC WWJ

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

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

8:00-9:00 Fleischmann Hour—Rudy Vallee  
 WFAF CKGW KECA KGO KGW KHQ  
 KOA KOMO KPRC KSD KSL KSTP  
 KTAR KTHS WAPI WBAP WCAE WCSH  
 WDAF WBEBC WEEI WFI WJFC WGN  
 WGR 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 Romany Patteran  
 WABC KDYL KFH KFPY KMBC KRLD  
 KSCJ WADC WAUW WBCM WCAO WCCO  
 WDAY WDBJ WDOD WFBM WIBW WISN  
 WJAS WKBN WKRC WLAC WLBW WLBZ  
 WMAL WMAQ WMT WNAX WORC WPG  
 WREC WTAR WWNC WXYZ

8:30-8:45 Kaltenborn Edits the News  
 WABC KMBC KMOX KOIL WADC WBT  
 WCAO WCAU WCCO WEAN WFBL WJAS  
 WKWB 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 WJJD  
 WKWB WKRC WLBW WMAL WNAC WOWO  
 WSPD WXYZ

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

9:00-9:30 Arco Birthday Party  
 WFAF CKGW KECA KGO KGW KHQ  
 KOA KOMO KSD KSL KSTP KYW  
 WAPI WBAP WCAE WCSH WDAF WBEBC  
 WEEI WFI WFJC WGR 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 WBEBC  
 WCKY WHAM WIBO WREN

9:30-10:00 Jack Frost's Melody Moments  
 WFAF WCAE WCSH WFI WGR 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 KYW  
 KYW WAPI WBAL WBAP WBEBC  
 WBEBC 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  
 WKWB WKRC WLBW WMAL WNAC WOWO  
 WSPD WXYZ

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

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

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

11:00-11:15 Will Osborne and His Orchestra  
 WABC KFH KFPY KMBC WBCM WBRC  
 WCAO WCAU WDAY WDBJ WDOD WFBM  
 WHEC WHP WIBW WISN WLBW WLBZ  
 WMT WNAX WORC WPG WREC WTAR  
 WWNC WXYZ

11:00-11:30 Pallas' Or Orchestra  
 WFAF KSD KSTP WCAE WDAF WFI  
 WFJC WGR WHAS WHO WJDX WMC  
 WOC WOW WRC WSAI WSB WSM  
 WSMB WTMJ WWJ

11:30-12:00 Duke Ellington and His Orchestra  
 WFAF CKGW KSD KSTP WDAF WFI  
 WFJC WJDX WOW WRC WWJ

11:30-12:00 Lloyd Huntley and His Orchestra  
 WABC KFH KFPY KLZ KMBC KMOX  
 WBCM WBRC WCAO WCAU WCCO WDAY  
 WDBJ WDOD WEAN WFBM WHEC WHP  
 WIBW WISN WKRC WLBW WMAL WMT  
 WNAC WNAX WORC WPG WREC WTAR  
 WWNC WXYZ

# Friday

- 11:00-12:00 NBC Music Appreciation Hour**  
 WFAF 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 WGR WGY WHAM WHAS  
 WHO WIBO WIOD WJAR WJAX WJDX  
 WJR WKY WLIT WLW WMC WOAI  
 WOC WOW WPTF WRC WREN WRVA  
 WSAI WSB WSM WSMB WSUN WTAG  
 WTAM WTMJ WWJ
- 1:00-2:00 Palais d'Or Orchestra**  
 WFAF KSD KYW WGY WHO WOC  
 WRC WTAM WTMJ
- 7:15-7:30 Huston Ray and His Orchestra**  
 KFH KFJF KFYF KFRK KHJ KLZ  
 KOL KSCJ KPI WAIU WBCM WBRC  
 WCCO WDAY WDBJ WDOD WFBM WGL  
 WHEC WHP WIBW WISN WJAS WKRC  
 WLWB WMT WORC WREC WTAR WWNC  
 WXYZ
- 8:00-8:30 Nestle's Program**  
 WJZ KDKA KFAB KWK WBZ WBZA  
 WHAM WIBO WJR WLW WREN
- 8:00-9:00 Cities Service Concert Orchestra**  
 WFAF CKGW KECA KGO KGW KHQ  
 KOA KOMO KPRC KSD KSL KSTP  
 KYW WCAE WCSH WDAF WEBC WEEI  
 WFAA WGR WHO WJAR WKY WLIT  
 WOAI WOC WOW WRC WSAI WTAG  
 WTAM WTIC WTMJ WWJ
- 8:15-8:30 Grand Opera Miniature**  
 WABC KDYL KFH KFJF KFPY KFRK  
 KHJ KLZ KMBC KRLD KSCJ KVI  
 WADC WAIU WBCM WDAY WDBJ WDOD  
 WHEC WHP WIBW WISN WJAS WKRC  
 WLAC WLWB WLWZ WMAL WMAQ WMT  
 WNAX WORC WREC WSPD WTAR WWNC  
 WXYZ
- 8:30-9:00 Columbia Male Chorus**  
 WABC KDYL KFH KFJF KFPY KFRK  
 KLZ KMBC KRLD KSCJ WADC WBCM  
 WCCO WDAY WDBJ WDOD WEAN WGL  
 WHP WIBW WISN WJAS WKRC WLAC  
 WLWB WLWZ WMAL WMAQ WMT WNAC  
 WNAX WORC WTAR WWNC
- 8:45-9:00 Natural Bridge Program**  
 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 KTRAR KWK KYW WAPI WBZ  
 WBZA WCKY WEBC WFAA WHAM WHAS  
 WIOD WJAX WJR WKY WLW WMC  
 WOAI WREN WRVA WSB WSM WSMB  
 WTMJ
- 9:00-9:30 Cluquet Club Eskimos**  
 WFAF KSD WCAE WCSH WDAF WEEI  
 WGR WGY WHO WIBO WJAR WLIT  
 WOC WOW WRC WSAI WTAG WTIC  
 WWJ
- 9:00-10:00 True Story Hour**  
 WABC KMBC KMOX KOIL WADC WCAO  
 WCAU WFAN WFBL WHK WJAS WKBW  
 WKRC WLWB WMAL WMAQ WNAC WOWO  
 WSPD WXYZ
- 9:30-10:00 Del Lampe's Eversharp Orchestra**  
 WFAF KSD WCAE WCSH WDAF WEEI  
 WFJC WGN WGR WGY WHO WJAR  
 WLIT WOC WOW WRC WSAI WTAG  
 WTIC WWJ
- 9:30-10:00 Armour Program**  
 WJZ KDKA KFI KGO KGW KHQ  
 KOA KOMO KSL KSTP KWK KYW
- WAPI WBZ WBZA 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**  
 WFAF KSD WCAE WCSH WJAR WRC  
 WTAG
- 10:00-10:30 Armstrong Quakers**  
 WJZ KDKA KFI KGO KGW KHQ  
 KOA KOMO KPRC KSL KSTP KWK  
 KYW WBAP WBZ WBZA WCKY WEBC  
 WHAM WHAS WJR WKY WMC WOAI  
 WREN WSB WSMB WTMJ
- 10:00-10:30 Radio Follies**  
 WABC KDYL KFJF KFPY KFRK 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 WOW WFC WRR WSPD  
 WTAR WXYZ
- 10:30-10:45 Wrigley Football Program**  
 WABC KMBC KMOX KOIL WADC WBBM  
 WBT WCAO WCAU WEAN WFBL WHK  
 WJAS WKBW WKRC WLWB WMAL WNAC  
 WOWO WFG WSPD WXYZ
- 0:30-11:00 RKO Theatre of the Air**  
 WFAF KFI KFSD KGO KGW KHQ  
 KOA KOMO KSD KSL KTRAR KTHS  
 WCAE WCSH WDAF WEEI WFJC WFLA  
 WGR WGY WHO WIBO WIOD WJAR  
 WJAX WJDX WKY WLIT WLW WMC  
 WOAI WOC WOW WRC WRVA WSAI  
 WSB WSMB WSUN WTAG WTAM WWJ
- 10:45-11:00 Phoenix Hosiery Program**  
 WABC KDYL KFPY KFRK KLZ KMBC  
 KMOX KMX KOIL KOIN KOL WMAL  
 WCAO WCCO WDSU WEAN WGST WHK  
 WJAS WKBW WKRC WLAC WNAC WRR  
 WXYZ
- 11:00-11:15 Will Osborne and His Orchestra**  
 WABC KDYL KFH KFJF KFPY KLZ  
 KMBC KOL WBCM WBRK WCAO WDAY  
 WDBJ WDOD WISN WLWB WLWZ  
 WMAL WMT WNAX WORC WREC WSPD  
 WTAR WWNC WXYZ
- 11:00-11:15 Elgin Program**  
 WJZ KDKA KECA KFAB KFSD KGO  
 KGW KHQ KOA KOMO KPRC KSL  
 KSTP KTHS KVOO KWK WBAP WBZ  
 WJDX WBC WCAE WIBO WIOD WJAX  
 WJDX WKY WLW WMC WREN WRVA  
 WSB WSM WSMB
- 11:00-12:00 Vincent Lopez and His Orchestra**  
 WFAF CKGW KOA KSD KSTP WCAE  
 WDAF WFJC WGY WHAS WHO WJDX  
 WLIT WMC WOC WOW WRC WSB  
 WSM WSMB WTIC WWJ
- 11:30-12:00 Romanelli and His Orchestra**  
 WABC KDYL KFH KFJF KFPY KLZ  
 KMBC KMOX KOL WBCM WBRK WCAO  
 WCCO WDAY WDBJ WDOD WEAN WHK  
 WIBW WISN WKRC WLWB WLWZ WMAL  
 WMT WNAC WNAX WORC WREC WSPD  
 WTAR WWNC WXYZ

# Saturday

- 10:30-11:00 New World Salon Orchestra**  
 WABC KDYL KFJF KMBC KRLD KSCJ  
 WADC WAIU WBCM WCAO WCAU WDAY  
 WDBJ WDOD WFAN WFBM WEBC WHK  
 WISN WJAS WKBN WLAC WLWB WMAL  
 WMT WNAC WREC WWNC WXYZ
- 1:30-4:30 Football Rally**  
 WABC KFJF KFPY WADC WAIU WBCM  
 WBRK WCAO WCAU WDBJ WDOD WEAN

WHEC WHP WJAS WKRC WLAC WLWB  
 WLWB WMAL WOWO WSPD WTAR WWNC  
 WXYZ

4:30-5:00 Spanish Serenade  
 WABC KDYL KFJF KFPY KLZ KMBC  
 KMOX KRLD KSCJ KVI WADC WAIU  
 WBCM WBRC WCAO WCCO WDAY WDBJ  
 WDOD WEAN WFAN WHP WIBW WISN  
 WLAC WLWB WMAL WMT WNAC WORC  
 WPG WREC WSPD WTAR WWNC WXYZ

4:30-5:00 The Fusiliers  
 WEAF WCAE WCSH WEEL WGR WGY  
 WLIT WOW WTAG WTAM WTIC

4:45-5:00 Merry Makers  
 WJZ KDKA KFAB KOA KWK KYW  
 WBZ WBZA WHAM

5:45-6:00 Blue Aces  
 WJZ KWK WHAM WHAS WMC WSB  
 WSMB

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

6:00-6:15 Tom, Dick and Harry  
 WABC KDYL KFJF 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

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

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

7:30-8:00 Silver Flute  
 WEAF CKGW KSD KSTP WCSH WDAF  
 WBC WEEL WFI WGR WHO WJAR  
 WOC WOW WRC WSAI WTAG WWJ

7:30-8:00 Pickard Family  
 WJZ CKGW KDKA KFAB KWK KYW  
 WBZ WBZA WHAM WLW WREN

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

8:00-8:30 Salon Singers  
 WEAF KSD WCAE WCSH WDAF WEEL  
 WFI WGR WGY WHO WIOD WJAR  
 WJAX WOC WOW 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 KFJF KFJF KFPY KHJ  
 KMBC KSCJ WADC WBCM WCAO WDAY  
 WDBJ WDOD WFAN WHK WIBW WISN  
 WJAS WKBN WKRC WLAC WLWB WLZ  
 WMAL WMT WNAX WORC WOWO WREC  
 WSPD WTAR WWNC WXYZ

8:30-8:45 Johns-Manville Fire Fighters  
 WABC CFRB KDYL KFJF KLZ KMCB  
 KMOX KOIL KRLD KTRH WBRB WBT  
 WCAO WCAU WCCO WDSU WEAN WFB  
 WGST WHK WJAS WBWB WKRC WMAQ  
 WNAC WOWO WPG WSPD WXYZ

8:30-9:00 Fuller Man  
 WJZ CKGW KDYL KFJF KWK KGO  
 KGW KHQ KOA KOMO KPRC KWK  
 WBAL WBZ WBZA WHAM WIBO WJR  
 WBY WLW WREN

8:30-9:00 Sign of the Shell  
 WEAF KOA KSD KSTP WCAE WCSH  
 WDAF WBC WEEL WENR WGR WGY  
 WHAS WHO WJAX WJAR WJAX WJDX  
 WLIT WMC WOC WOW WPTF WRC  
 WRVA WSAI WSB WSM WSMB WTAG  
 WTIC WTMJ WWJ

8:45-9:00 Wallace Silversmiths  
 WABC KMBC KMOX WBT WCAU WCCO  
 WDSU WJAS WMAL WMAQ WNAC WRR  
 WXYZ

9:00-10:00 General Electric Symphony  
 WEAF KFI KFSD KGO KGW KHQ  
 KOA KOMO KPFC KSD KSL KSTP  
 KTAR WAPI WBAP WCAE WCSH WDAF  
 WBC WEEL WFI WGR WHAS WHO  
 WIBO WJAR WJAX WKY WMC WOAI  
 WOC WOW WRC WRVA WSAI WSB  
 WSMB WTAG WTMJ WTMJ WWJ

9:00-10:00 Hank Simons' Show Boat  
 WABC KDYL KFJF KFJF KFPY KFCR  
 KHJ KLZ KMBC KMOX KOL KSCJ  
 WADC WBCM WCAO WCAU WCCO WDAY  
 WDBJ WDOD WEAN WHK WHP WIBW  
 WISN WJAS WKBN WKRC WLAC WLWB  
 WLZ WMAL WMAQ WMT WNAC WNAX  
 WORC WOWO WPG WREC WSPD WTAR  
 WWNC WXYZ

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

10:00-10:30 Chicago Variety Program  
 WABC KDYL KFJF KFJF KFPY KFCR  
 KHJ KLZ KMBC KMOX KOL KSCJ  
 WADC WBCM WBRC WCAO WCAU WCCO  
 WDAY WDBJ WDOD WEAN WFBM WHEC  
 WHK WHP WIBW WISN WJAS WLAC  
 WLWB WLZ WMAL WMT WNAC WNAX  
 WORC WOWO WREC WSPD WTAR WWNC  
 WXYZ

10:00-11:00 Lucky Strike Orchestra  
 WEAF KFI KFSD KGO KGW KHQ  
 KOA KOMO KPFC KSD KSL KSTP  
 KTAR KVOO WAPI WCAE WCSH WDAF  
 WBC WEEL WFAA WFI WFCJ WFLA  
 WGN WGR WGY WHAS WHO WIOD  
 WJAR WJAX WJDX WKY WMC WOAI  
 WOC WOW WRC WRVA WSAI WSB  
 WSMB WSUN WTAG WTMJ WWJ

10:15-10:30 Broadway Lights  
 WJZ KWK WOKY WREN

10:30-11:00 Jesse Crawford, Organ  
 WABC KDYL KFJF KFJF KFPY KFCR  
 KHJ KLZ KMBC KOL KSCJ WADC  
 WBCM WBRC WCAO WCAU WDAY WDBJ  
 WDOD WEAN WFBM WHEC WHP WIBW  
 WISN WJAS WLAC WLWB WLZ WMAL  
 WMT WNAC WNAX WORC WOWO WPG  
 WREC WSPD WTAR WWNC WXYZ

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

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

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

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

# 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.

## 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	§	1000	1+	Bismarck, N. D.
KOAC	--	1000	---	Syracuse, Ore.
KSD	---	500	2N	St. Louis, Mo.
WGR	*	1000	N	Buffalo, N. Y.
WKRC	--	1000	C	Cincinnati, Ohio
XEY	--	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., Lessees  
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.
WNXX	--	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
WKBN	--	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
WOBU	--	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.  
WOBU, Inc.  
WSAZ, Inc.  
Telegram Publishing Co.



# INDEX BY FREQUENCIES AND DIAL NUMBERS

## 590 kilocycles 508.2 meters

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

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

KCYS.  
**670**  
MTRS.  
**447.5**  
DIAL

## 600 kilocycles 499.7 meters

CFCH	--	250	3	Iroquois Falls, Ont.
CJRM	--	500	4	Moose Jaw, Sask.
CJRW	--	500	4	Fleming, Sask.
CMW	--	1000	595	Havana, Cuba
CNRO	--	500	3	Ottawa, Ont.
KFSD	*	500	+N	San Diego, Cal.
WCAC	--	250	2+	Storrs, Conn.
WCAO	*	250	C	Baltimore, Md.
WGBS	--	250	2+	New York City
WMT	*	500	C	Waterloo, Iowa
WOAN	--	500	1	Lawrenceburg, Tenn.
WREC	--	500	1+C	Memphis, Tenn.

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Abitibi Power & Paper Co.  
Jas. Richardson & Sons, Ltd.  
Jas. Richardson & Sons, Ltd.  
Columbus Commercial & Radio Co.  
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

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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.
WLBS	--	500	C	Bangor, Maine
WSUN	*	1000	1+N	St. Petersburg, Fla.
WTMJ	*†	1000	+N	Milwaukee, Wis.
XET	†	500	---	Monterrey, N. L.

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

## 630 kilocycles 475.9 meters

CFCT	*	500	---	Victoria, B. C.
CJGX	--	500	---	Yorkton, Sask.
CNRA	--	500	---	Moncton, N. B.
KFRU	--	500	1	Columbia, Mo.
WGBF	†	500	1	Evansville, Ind.
WMAL	--	250	+C	Washington, D. C.
WOS	--	500	1+	Jefferson City, Mo.
XFC	--	350	631	Jalapa, Ver.

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Victoria Broadcasting Association  
Winnipeg Grain Exchange  
Canadian National Railways  
Stephens College  
Evansville on the Air, Inc.  
M. A. Leese  
State Marketing Bureau  
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

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

## 650 kilocycles 461.3 meters

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

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

## 660 kilocycles 454.3 meters

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

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Omaha Grain Exchange  
National Broadcasting Co., Inc.

## 670 kilocycles 447.5 meters

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

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

CUT OUT ON DOTTED LINES



## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 680 kilocycles 440.9 meters

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


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

### 690 kilocycles 434.5 meters

CFAC	--	500	1	Calgary, Alta.
CFCN	--	500	1	Calgary, Alta.
CHCA	--	500	1	Calgary, Alta.
CJ CJ	--	500	1	Calgary, Alta.
CJSC	--	5000	4	Toronto, Ont.
CKGW	--	5000	2N	Toronto, Ont.
CNRC	--	500	1	Calgary, Alta.
CPR Y	--	5000	2N	Toronto, Ont.
NAA	--	1000	---	Arlington, Va.
VAS	--	500	---	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  
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	---	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.
8WMC	--	500	722	St. Johns, N. F.


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Chicago Tribune  
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	--	3000	---	Havana, Cuba
CNRM	--	5000	2	Montreal, Que.
XEN	†	1000	731	Mexico City


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

### 740 kilocycles 405.2 meters

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


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

### 750 kilocycles 399.8 meters

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


WJR, The Goodwill Station, Inc.

### 760 kilocycles 394.5 meters

KVI	--	1000	C	Tacoma, Wash.
WEW	--	1000	D	St. Louis, Mo.
WJZ	†	30000	N	New York City


Puget Sound Broadcasting Co., Inc.  
St. Louis University  
Radio Corp. of America, Inc.

### 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.
XED	--	2000	769	Reynosa, Tams.


Instituto Provincial  
KFAB Broadcasting Co.  
The Atlas Co., Inc.  
The Atlas Co., Inc.  
Alfonso Dominquez

### 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	1	Norfolk, Va.
WTAR	*	500	1C	Norfolk, Va.
XEW	--	5000	---	Mexico City

### 790 kilocycles 379.5 meters

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

### 800 kilocycles 374.8 meters

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

### 810 kilocycles 370.2 meters

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

### 820 kilocycles 365.6 meters

WHAS	+	10000	N	Louisville, Ky.
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### 830 kilocycles 361.2 meters

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

### 840 kilocycles 356.9 meters

CFCA	+	500	1	Toronto, Ont.
CHCT	--	1000	---	Red Deer, Alta.
CKLK	--	1000	2	Red Deer, Alta.
CMC	--	500	---	Havana, Cuba
CNRD	--	1000	2	Red Deer, Alta.
CNRT	--	500	1	Toronto, Ont.
WGM	--	100	3	Adamsburg, Pa.
WOOP	--	100	3	Jeannette, Pa.
XEM	--	500	---	Tampico, Tams.
XFX	--	500	---	Mexico City, Mex.

### 850 kilocycles 352.7 meters

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

### 860 kilocycles 348.6 meters

KMO	--	500	+	Tacoma, Wash.
WABC	--	5000	X	New York City
WHB	*	500	D	Kansas City, Mo.
XEJ	--	101	857	C. Juarez, Chih.

### 870 kilocycles 344.6 meters

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

### 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.
CKFA	+	500	2+	Greeley, Colo.
KLX	--	500	---	Oakland, Cal.

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

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

Carter Publications, Inc.  
News & Journal  
Natalio Ulibarri

Northwestern Broadcasting, Inc.  
Eastern Broadcasters, Inc.

47  
Courier-Journal & Times

23  
Leopoldo V. Figueros  
National Broadcasting Co., Inc.  
Matheson Radio Co., Inc.  
University of Florida

Star Publishing & Ptg. Co.  
G. F. Tull & Ardern, Ltd.  
Alberta Pacific Grain Co., Ltd.  
Cuban Telephone Co.  
Canadian National Railways  
Pioneer Broadcasting Co., Inc.  
Oakford-Olympia Park Corp.  
Herbert A. Denny y Cia.  
Secretaria de Educacion Publica

Hello World Broadcasting Corp.  
United States Navy  
Loyola University

KMO, Inc.  
Atlantic Broadcasting Corp.  
WHB Broadcasting Co.  
Juan G. Buttner

40  
Great Lakes Broadcasting Co.  
Agricultural Broadcasting Co.

The Hamilton Spector  
Maple Leaf Radio Co., Ltd.  
E. Fontaine  
N. Nathanson  
Le "Soleil," Ltd.  
G. A. Vandry  
Wentworth Radio & Auto Sply. Co., Ltd  
Canadian National Railways  
Midwestern Radio Corp.  
Tribune Publishing Co.

KCYS.  
880  
MTRS.  
340.7  
DIAL

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

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

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

### 890 kilocycles 336.9 meters

CFBO	*	50	---	St. John, N. B.
CKCO	--	100	---	Ottawa, Ont.
KFNF	--	500	2+	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 Lavin  
Alaska Radio & Service Co.  
Don Lee, Inc.  
KSEI Broadcasting Association, Inc.  
Buffalo Evening News  
City of Jacksonville  
WKY Radiophone Co.  
Wisconsin Dept. of Markets

### 910 kilocycles 329.6 meters

CFQC	--	500	1	Saskatoon, Sask.
CJGC	*	500	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.
KPCR	--	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, I.c.c.  
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.
WIBG	--	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.
WFTW	--	1000	C	Hopkinsville, Ky.
WHA	--	750	D	Madison, Wis.

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

# INDEX BY FREQUENCIES AND DIAL NUMBERS

## 950 kilocycles 315.6 meters

CMCQ -- 500 95S  
 KFVB \* 1000 ---  
 KGHL -- 1000 ---  
 KMBC \* 1000 C  
 WRC † 500 N

Havana Cuba  
 Hollywood, Cal.  
 Billings, Mont.  
 Kansas City, Mo.  
 Washington, D. C.

33

Andres Martinez  
 Warner Bros. Broadcasting Corp.  
 Northwestern Auto Supply Co., Inc.  
 Midland Broadcasting Co., Inc.  
 Radio Corp. of America

## 960 kilocycles 312.3 meters

CFCY \* 250 1  
 CFRB -- 4000 2C  
 CHCK -- 30 1  
 CHWC -- 500 3  
 CJBR -- 500 3  
 CKCK † 500 3  
 CNRR -- 500 3  
 CNRX -- 4000 2

Charlottetown, P. E. I.  
 Toronto, Ont.  
 Charlottetown, P. E. I.  
 Pilot Butte, Sask.  
 Regina, Sask.  
 Regina, Sask.  
 Regina, Sask.  
 Toronto, Ont.

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

## 970 kilocycles 309.1 meters

KJR \* 5000 ---  
 XEH -- 101 964  
 WCFL -- 1500 N

Seattle, Wash.  
 Monterrey, N. L.  
 Chicago, Ill.

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

## 980 kilocycles 305.9 meters

KDKA -- 50000 N  
 XEO -- 101 983

Pittsburgh, Pa.  
 Mexico City

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

## 990 kilocycles 302.8 meters

WBZ \* 15000 1NY  
 WBZA \* 500 1NY

Springfield, Mass.  
 Boston, Mass.

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

## 1000 kilocycles 299.8 meters

KFVD -- 250 ---  
 WHO -- 5000 1N  
 WOC -- 5000 1N  
 XEI -- 101 999

Culver City, Cal.  
 Des Moines, Iowa  
 Davenport, Iowa  
 Morelia, Mexico

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

## 1010 kilocycles 296.8 meters

CFLC -- 50 3  
 CKCR -- 50 3  
 CMBZ -- 100 ---  
 CMCF -- 250 ---  
 KGGF -- 500 2Y  
 KQW \* 500 ---  
 WHN -- 250 1  
 WIS -- 500 C+  
 WNAD -- 500 2  
 WPAP -- 250 1  
 WQAO -- 250 1  
 WRNY -- 250 1

Prescott, Ont.  
 Waterloo, Ont.  
 Havana, Cuba  
 Havana, Cuba  
 Picher, Okla.  
 San Jose, Cal.  
 New York City  
 Columbia, S. C.  
 Norman, Okla.  
 New York City  
 New York City  
 New York City

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

## 1020 kilocycles 293.9 meters

KFKX -- 10000 1N  
 KYW -- 10000 1N  
 WRAX -- 250 D

Chicago, Ill.  
 Chicago, Ill.  
 Philadelphia, Pa.

27

Westinghouse Elec. & Mfg. Co.  
 Westinghouse Elec. & Mfg. Co.  
 Berachah Church, Inc.

## 1030 kilocycles 291.1 meters

CFCF -- 500 ---  
 CNRV -- 500 ---

Montreal, Que.  
 Vancouver, B. C.

Canadian Marconi Co.  
 Canadian National Railways

## 1040 kilocycles 288.3 meters

KRLD \* 10000 1C  
 KTHS § 10000 1N  
 WKAR -- 1000 D  
 WMAK --- 1000 C

Dallas, Texas  
 Hot Springs, Ark.  
 East Lansing, Mich.  
 Buffalo, N. Y.

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

KCY.S.  
**1040**  
 MTRS.  
**288.3**  
 DIAL

CUT OUT ON DOTTED LINES

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1050 kilocycles 285.5 meters

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

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KFKB Broadcasting Assn., Inc.  
 Western Broadcast Co.

1060 kilocycles 282.8 meters

KWJJ -- 500  
 WBAL \* 10000 IN  
 WJAG \* 1000  
 WTIC † 50000 IN  
 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  
 WTAM, Inc.  
 F. Armida y Cia

1080 kilocycles 277.6 meters

WBT \* 5000 C  
 WCBD \* 5000 1  
 WMBI -- 5000 1  
 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  
 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 3  
 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. Dalglish & 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

KSL -- 5000 N  
 WJJD -- 20000 C  
 WOV -- 1000 D  
 XEF -- 105 1131  
 Salt Lake City  
 Mooseheart, Ill.  
 New York City  
 Oaxaca, Oax.

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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.

20

Jose Ganduxe  
 Stromberg-Carlson Tel. Mfg. Co.



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1160 kilocycles 258.5 meters

WOWO \* 10000 1C  
 WWVA \* 5000 1Y

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

--	--	--

Main Auto Supply Co.  
 West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

KTNT -- 5000 --  
 WCAU \* 10000 C

Muscatine, Iowa  
 Philadelphia, Pa.

18		
----	--	--

Norman Baker  
 Universal Broadcasting Co

1180 kilocycles 254.1 meters

KEX -- 5000 2  
 KOB -- 20000 2  
 WGDY \* 1000 1  
 WHDI -- 500 1

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

--	--	--

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

1190 kilocycles 252.0 meters

WICC \* 500 D  
 WOAI \* 50000 N

Bridgeport, Conn.  
 San Antonio, Texas

7		
---	--	--

Bridgeport Broadcasting Station, Inc.  
 Southern Equipment Co.

1200 kilocycles 249.9 meters

KBTM -- 100 D  
 KFHA -- 50 --  
 KFJB -- 100 --  
 KFWF -- 100 5  
 KGCU -- 100 --  
 KGDE -- 100 --  
 KGDY -- 100 --  
 KGEK -- 50 9  
 KGEW -- 100 9  
 KGFJ -- 100 --  
 KGHI -- 100 --  
 KGY -- 10 --  
 KMLB -- 50 DCP  
 KSMR -- 100 --  
 KVOS -- 100 --  
 KWG \* 100 --  
 WABI -- 100 --  
 WABZ -- 100 --  
 WBBZ -- 100 --  
 WCAT -- 100 --  
 WCAX \* 100 --  
 WCLO -- 100 --  
 WCOD -- 100 --  
 WEHC -- 100 --  
 WEPS -- 100 --  
 WFBC -- 50 --  
 WFBE -- 100 --  
 WHBC -- 10 --  
 WHBY -- 100 --  
 WIBX -- 100 --  
 WIL -- 100 --  
 WJBC \* 100 --  
 WJBL -- 100 --  
 WJBW -- 100 --  
 WKJC -- 100 --  
 WLAP -- 100 --  
 WLBG -- 100 --  
 WMAY -- 100 --  
 WNBO \* 100 --  
 WNBW -- 10 --  
 WNBX -- 10 --  
 WORC -- 100 CX  
 WPDF \* 100 --  
 WRAF \* 100 --  
 WRBL -- 50 --  
 WWAE -- 100 --  
 XEA -- 101 --  
 10-BP -- 25 --

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

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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. Linder  
 Santa Maria Valley R. R. Co.  
 KVOS, Inc.  
 Portable Wireless Tel. Co., Inc.  
 Pine Tree Broadcasting Corp.  
 Coliseum Place Baptist Church  
 C. L. Carrell  
 State School of Mines  
 University of Vermont  
 WCLO Radio Corp.  
 Norman R. Hoffman  
 Emory & Henry College  
 Alfred Frank Kleindienst  
 First Baptist Church  
 WFBE, Inc.  
 St. John's Catholic Church  
 St. Norbert's College  
 WIBX, Inc.  
 Missouri Broadcasting Corp.  
 Kaskaskia Broadcasting Co.  
 Commodore Broadcasting, Inc.  
 Charles C. Carlson, Jr.  
 Kirk, Johnson & Co.  
 American Broadcasting Corp. of Ky.  
 Robert Allen Gamble  
 Kingshighway Presbyterian Church  
 John Brownlee Spriggs  
 Home Cut Glass & China Co.  
 First Congregational Church  
 Alfred Frank Kleindienst  
 City of Flint  
 Chas. Middleton  
 David Farmer  
 Hammond-Calumet Broad. Corp.  
 Alberto Palos Souza  
 Radio & Electric Shop

KCYS.  
 1200  
 MTRS.  
 249.9  
 DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

76		
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CFCO	--	100	---	Chatham, Ont.	Western Ontario "Better Radio" Club
CfNB	--	50	---	Fredericton, N. B.	James S. Neill & Sons, Ltd.
CHWK	†	5	---	Chilliwack, B. C.	Chilliwack Broadcasting Co., Ltd.
CJOR	*	50	---	Sea Island, B. C.	G. C. Chandler
CKMC	--	15	---	Cobalt, Ont.	R. L. MacAdam
CKPC	†	25	---	Preston, Ont.	Metal Shingle & Siding Co.
KDFN	†	100	---	Casper, Wyo.	Donald Lewis Hathaway
KDLR	--	100	---	Devils Lake, N. D.	KDLR, Inc.
KFOR	--	100	+	Lincoln, Nebr.	Hirsch A. Shuman
KFFS	--	100	6	Cape Girardeau, Mo.	Howard Battery & Radio Co.
KFXM	--	100	9	San Bernardino, Cal.	J. C. & E. W. Lee
KGCR	--	100	---	Watertown, S. D.	Cutler's Radio Brdcastg. Service, Inc.
KGMP	§	100	---	Elk City, Okla.	Bryant Radio & Electric Co.
KGNO	§	100	---	Dodge City, Kans.	Dodge City Broadcasting Co.
KMJ	*	100	---	Fresno, Cal.	James McClatchy Co.
KPPC	§	50	9	Pasadena, Cal.	Pasadena Presbyterian Church
KWEA	§	100	---	Shreveport, La.	Hello World Broadcasting Corp.
WALR	*	100	---	Zanesville, Ohio	Roy. W. Waller
WBAX	--	100	1	Wilkes-Barre, Pa.	John H. Stenger, Jr.
WBBL	†	100	7S	Richmond, Va.	Grace Covenant Presbyterian Church
WCBS	§	100	2	Springfield, Ill.	H. L. Dewing & Chas. Messter
WCOH	*	100	3	Yonkers, N. Y.	Westchester Broadcasting Corp.
WCRW	*	100	4	Chicago, Ill.	Clinton R. White
WDWF	--	100	5	Providence, R. I.	Dutee W. Flint
WBEQ	--	100	6	Harrisburg, Ill.	First Trust & Savings Bank
WEDC	--	100	4	Chicago, Ill.	Emil Denmark, Inc.
WGBB	*	100	3	Freeport, N. Y.	Harry H. Garman
WGCM	--	100	---	Gulfport, Miss.	Great Southern Land Co., Inc.
WHBF	--	100	---	Rock Island, Ill.	Bearsley Specialty Co.
WHBU	†	100	---	Anderson, Ind.	Citizens Bank
WJBI	--	100	3	Red Bank, N. J.	Monmouth Broadcasting Co.
WJBU	--	100	1	Lewisburg, Pa.	Bucknell University
WJBY	--	50	---	Gadsden, Ala.	Gadsden Broadcasting Co., Inc.
WJW	*	100	---	Mansfield, Ohio	Mansfield Broadcasting Assn.
WLCI	*	50	---	Ithaca, N. Y.	Lutheran Assn. of Ithaca
WLSI	--	100	5	Providence, R. I.	The Lincoln Studios, Inc.
WMBG	--	100	7	Richmond, Va.	Havens & Martin, Inc.
WMRJ	*	100	3	Jamaica, N. Y.	Peter J. Prinz
WOCL	*	25	---	Jamestown, N. Y.	A. E. Newton
WOMT	--	100	---	Manitowoc, Wis.	Francis M. Kadow
WPAW	*	100	5	Pawtucket, R. I.	Shartenburg & Robinson Co.
WQDX	--	50	---	Thomasville, Ga.	Stevens Luke
WRBQ	†	100	X+	Greenville, Miss.	J. Pat. Scully
WRBU	--	100	---	Gastonia, N. C.	A. J. Kirby Music Co.
WSBC	*	100	4	Chicago, Ill.	World Battery Co., Inc.
WSEN	†	100	---	Columbus, Ohio	Columbus Broadcasting Co.
WSIX	--	100	---	Springfield, Tenn.	638 Tire & Vulcanizing Co.
WTAX	--	50	2X	Springfield, Ill.	WTAX, Inc.

1220 kilocycles 245.8 meters

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CMBC	*	100	1225	Havana, Cuba	Domingo Fernandez Cruz
KFKU	--	1000	1	Lawrence, Kans.	University of Kansas
KWSC	--	500	X+	Pullman, Wash.	State College of Washington
WCAD	*	500	D	Canton, N. Y.	St. Lawrence University
WCAE	*	1000	N	Pittsburgh, Pa.	Gimbel Bros.
WDAE	*	1000	C	Tampa, Fla.	Tampa Publishing Co.
WREN	*	1000	1N	Lawrence, Kans.	Jenny Wren Co.

1230 kilocycles 243.8 meters

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KFQD	--	100	---	Anchorage, Alaska	Anchorage Radio Club
KGGM	--	250	+	Albuquerque, N. Mex.	New Mexico Broadcasting Co.
KYA	--	1000	2--	San Francisco, Cal.	Pacific Broadcasting Corp.
WBIS	--	1000	2--	Boston, Mass.	Shepard Broadcasting Service, Inc.
WFBM	--	1000	1C	Indianapolis, Ind.	Indianapolis Power & Light Co.
WNAC	*	1000	2C	Boston, Mass.	Shepard Broadcasting Service, Inc.
WPSC	--	500	D	State College, Pa.	Pennsylvania State College
WSBT	*	500	1	South Bend, Ind.	South Bend Tribune

1240 kilocycles 241.8 meters

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KTAT	--	1000	1	Ft. Worth, Texas	S. A. T. Broadcast Co.
WACO	†	1000	1	Waco, Texas	Central Texas Broadcasting Co., Inc.
WXYZ	†	1000	C	Detroit, Mich.	Kunsky-Trendle Broadcasting Corp.

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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.
WGM5	--	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.

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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.
KVWG	--	500	1	Brownsville, Texas
WLBW	--	500	C+	Oil City, Pa.
WTOC	*	500	C	Savannah, Ga.

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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.
WEAI	--	1000	D	Ithaca, N. Y.
WFBR	--	250	---	Baltimore, Md.
WJDX	--	500	1+N	Jackson, Miss.
WOOD	✓	500	1	Grand Rapids, Mich.

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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

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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.

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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.
WBBR	--	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.

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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
KFIU	--	10	---	Juneau, Alaska
KFJY	§	100	7	Ft. Dodge, Iowa

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

### 1320 kilocycles 227.1 meters

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

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.	Pickwick Broadcasting Corp.
KSCJ	--	1000	1+C	Sioux City, Iowa	Perkins Bros. Co.
WDRG	--	500	---	New Haven, Conn.	Doolittle Radio Corp.
WSAI	* 500	N	---	Cincinnati, Ohio	Crosley Radio Corp., Lessee
WTAQ	* 1000	1	---	Eau Claire, Wis.	Gillette Rubber Co.
XEC	--	50	1333	Toluca, Mex.	Jesús R. Benavides

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

### 1340 kilocycles 223.7 meters

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

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

### 1350 kilocycles 222.1 meters

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

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Greater St. Louis Broadcasting Corp. Baruchrome Corp. Italian Educ. Broadcasting Co., Inc. Standard Cahill Co., Inc. Madison Sq. Garden Brdstg. Corp.		

INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

10		
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CMKC	*	150	1364
KGER	*	1000	4
KGIR	--	500	---
KPSN	--	1000	4
WCSC	--	500	---
WFBL	*	1000	C+
WGES	--	500	1+
WJKS	*	1000	1+
WQBC	--	300	CP

Santiago de Cuba  
Long Beach, Cal.  
Butte, Mont.  
Pasadena, Cal.  
Charleston, S. C.  
Syracuse, N. Y.  
Chicago, Ill.  
Gary, Ind.  
Vicksburg, Miss.

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

1370 kilocycles 218.7 meters

10		
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KCRC	†	100	2+
KFBL	--	50	3
KFJI	--	100	---
KFJM	†	100	---
KFJZ	--	100	X
KFLX	--	100	---
KGAR	*	100	+
KGDA	†	100	---
KGFG	--	100	2
KGFL	--	50	---
KGKL	†	100	---
KONO	†	100	---
KOOS	--	100	---
KRE	--	100	6
KVL	--	100	3
KWKC	--	100	---
KZM	--	100	6
WBGF	†	50	---
WBTM	†	100	7
WCBM	--	100	+Z
WELK	--	100	+
WFDV	--	100	---
WGL	*	100	C
WHBD	*	100	---
WHBQ	--	100	---
WHDF	--	100	+
WIBM	--	100	1
WJBK	--	50	1
WLEY	--	100	+
WLVA	†	100	7
WMBR	†	100	---
WPOE	†	100	---
WQDM	*	5	D
WRAK	--	50	---
WRBJ	--	10	---
WRBT	*	100	---
WRJN	--	100	---
WSVS	--	50	---
WRDO	§	100	CP

Enid, Okla.  
Everett, Wash.  
Astoria, Ore.  
Grand Forks, N. D.  
Ft. Worth, Texas  
Galveston, Texas  
Tucson, Ariz.  
Mitchell, S. D.  
Oklahoma City  
Ratan, N. M.  
San Angelo, Texas  
San Antonio, Texas  
Marshfield, Ore.  
Berkeley, Cal.  
Seattle, Wash.  
Kansas City, Mo.  
Hayward, Cal.  
Glens Falls, N. Y.  
Danville, Va.  
Baltimore, Md.  
Philadelphia, Pa.  
Rome, Ga.  
Fort Wayne, Ind.  
Mount Orab, Ohio  
Memphis, Tenn.  
Calumet, Mich.  
Jackson, Mich.  
Detroit, Mich.  
Lexington, Mass.  
Lynchburg, Va.  
Tampa, Fla.  
Patchogue, N. Y.  
St. Albans, Vt.  
Williamsport, Pa.  
Hattiesburg, Miss.  
Wilmington, N. C.  
Racine, Wis.  
Buffalo, N. Y.  
Augusta, Me.

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  
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.  
C. L. Carrell  
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

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KOH	†	500	---
KQV	†	500	2
KSO	*	500	1
WKBH	*	1000	1
WSMK	--	200	2

Reno, Nevada  
Pittsburgh, Pa.  
Clarinda, Iowa  
La Crosse, Wis.  
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

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KLRA	--	1000	1C
KOY	--	500	---
KUOA	--	1000	1
WHK	*	1000	C

Little Rock, Ark.  
Phoenix, Ariz.  
Fayetteville, Ark.  
Cleveland, Ohio

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	--	250	X
KOCW	*	250	+
WBAA	--	500	1
WBBC	--	500	2
WCGU	--	500	2
WCM	--	500	1
WKBF	--	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. Coscolluela		
Peery Building Co.		
College for Women		
Purdue University		
Brooklyn Broadcasting Corp.		
U. S. Broadcasting Corp.		
General Broadcasting Corp.		
Indianapolis Broadcasting, Inc.		
The Voice of Brooklyn, Inc.		
Paramount Broadcasting Co.		
Paramount Broadcasting Co.		

1410 kilocycles 212.6 meters

KFLV	†	500	4
KGRS	--	1000	1
WBGM	*	500	C
WDAG	--	250	1X
WHBL	*	500	4
WLEX	--	500	2
WMAF	--	500	2
WODX	--	500	3
WRBX	*	250	---
WFA	†	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.	

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

1420 kilocycles 211.1 meters

KBPS	--	100	4
KFIZ	--	100	---
KFOU	*	100	5X.
KFQW	--	100	---
KFXD	--	100	XY
KFFY	--	100	---
KFYO	--	100	+
KGFF	--	100	---
KGGG	--	100	5
KGIW	--	100	---
KGIX	--	100	---
KGKX	--	100	---
KICK	*	100	---
KLPM	†	100	---
KORE	--	100	---
KTAP	§	100	---
KXL	--	100	4
KXYZ	--	100	X
WEDH	*	30	X
WEHS	--	100	X
WELL	--	50	X
WFDW	*	100	X
WHDL	§	10	D
WHFC	†	100	2
WHIS	†	100	---
WIAS	--	100	---
WIBR	--	50	---
WILM	--	100	---
WJBO	§	100	---
WKBI	*	100	2
WLBf	--	100	---
WMBC	--	100	X+
WMBH	--	100	+
WPAD	†	100	CP
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	
Stuebenville, Ohio	
Wilmington, Del.	
New Orleans, La.	
Chicago, Ill.	
Kansas City, Kas.	
Detroit, Mich.	
Joplin, Mo.	
Paducah, Ky.	
Spartanburg, S. C.	
Cumberland, Md.	

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

1430 kilocycles 209.7 meters

KECA	†	1000	N
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.

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

1450 kilocycles 206.8 meters

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

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

1460 kilocycles 205.4 meters

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

6		
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National Battery Broadcasting Co.  
Independent Publishing Co.

1470 kilocycles 204.0 meters

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

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

1480 kilocycles 202.6 meters

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

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

1490 kilocycles 201.2 meters

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

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

1500 kilocycles 199.9 meters

KDB	*	100	---	Santa Barbara, Cal.
KGFI	--	100	+	Corpus Christi, Texas
KGFK	†	50	---	Moorhead, Minn.
KGIZ	--	50	---	Grant City, Mo.
KGKB	--	100	---	Brownwood, Texas
KGKY	--	100	---	Scottsbluff, Nebr.
KPJM	*	100	---	Prescott, Ariz.
KPO	†	50	---	Wenatchee, Wash.
KREG	†	100	---	Santa Ana, Cal.
KUJ	--	100	3	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.
WLBX	--	100	1	Long Island City, N. Y.
WLOE	*	100	2+	Boston, Mass.
WMBA	--	100	---	Newport, R. I.
WMBJ	†	100	---	Pittsburgh, Pa.
WMBO	--	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.

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Dwight Faulding  
Eagle Broadcasting Co., Inc.  
Red River Broadcasting Co., Inc.  
Grant City Park Corp.  
Eagle Publishing Co.  
Hilliard Co., Inc.  
Miller & Klahn  
Westcoat Broadcasting Co.  
Pacific Western Broadcasting  
Columbia Broadcasting Co., Inc.  
Rice Hotel  
E. R. Irey and F. M. Bowles  
Arthur Fiske  
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 Brdctg. Station, Inc.  
Wm. Penn Broadcasting Co.  
Warren C. Davenport's Musicove, Inc.  
Long Island Broadcasting Corp.

KCYS.  
1500  
MTRS.  
199.9  
DIAL

## INDEX BY LOCATIONS WITH MAP KEY

	Watts	Keys.				
<b>ALABAMA</b>						
Birmingham O-21	500	WAPI 1140	San Jose J-1	500	KOW	1010
	500	WBRC 930	Santa Ana M-3	100	KREG	1500
	100	WKBC 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	WSEA 1410		100	KWG	1200
Talladega O-21	100	WFDW 1420	<b>CANAL ZONE</b>			
<b>ALASKA</b>			Balboa FF-26	750	NBA	850
Anchorage	100	KFQD 1230	<b>COLORADO</b>			
Juneau	10	KFIU 1310	Colorado Springs K-11	1000	KFUM	1270
Ketchikan	500	KGBU 900	Denver K-11	500	KFEL	920
<b>ARIZONA</b>				100	KFUP	1310
Flagstaff M-7	100	KFXV 1420		500	KFXF	920
Jerome M-6	100	KCRJ 1310		1000	KLZ	560
Phoenix N-6	500	KOY 1390		12500	KOA	830
	500	KTA 620	Edgewater K-10	50	KPOF	880
Prescott M-6	100	KTAR 1500	Fort Morgan J-11	100	KGEW	1200
	100	KPJM 1500	Greeley J-11	500	KFA	880
Tucson O-7	500	KGAR 1370	Gunnison K-9	50	KFHA	1200
		KVOA 1260	Pueblo L-11	250	KGHF	1320
			Trinidad L-11	100	KGIV	1420
			Yuma J-12	50	KGEK	1200
<b>ARKANSAS</b>			<b>CONNECTICUT</b>			
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	WDRG	1330
Hot Springs N-17	10000	KTHS 1040	Storrs H-28	250	WCAC	600
Little Rock N-17	100	KGHI 1200	<b>DELAWARE</b>			
	250	KGJF 890	Wilmington J-26	250	WDEL	1120
	1000	KLRA 1390		100	WILM	1420
Paragould M-18	500	KLW 1250	<b>DISTRICT OF COLUMBIA</b>			
	100	KBTM 1200	Washington J-26	250	WMAL	630
<b>CALIFORNIA</b>				500	WRC	950
Berkeley J-2	100	KRE 1370		100	WOL	1310
Burbank M-3	500	KELW 780	<b>FLORIDA</b>			
Culver City M-3	250	KFVD 1000	Clearwater R-24	1000	WFLA	620
El Centro N-4	100	KXO 1500	Gainesville Q-24	5000	WRUF	830
Fresno K-2	100	KMJ 1210	Jacksonville Q-24	1000	WJAX	900
Hayward J-1	100	KZM 1370	Miami T-25	1000	WOAM	560
Hollywood M-3	1000	KFWB 950	Miami Beach T-25	1000	WIOD	1300
	5000	KNX 1050	Orlando R-24	500	WDBO	1170
Holy City M-3	100	KFQU 1420	Pensacola Q-21	500	WCOA	1340
Inglewood M-3	500	KMIC 1120	St. Petersburg S-24	1000	WSUN	620
Long Beach M-3	1000	KFOX 1250	Tampa R-24	1000	WDAE	1220
	1000	KGER 1360		100	WMBR	1370
Los Angeles M-3	1000	KECA 1430	<b>GEORGIA</b>			
	5000	KFI 640	Atlanta O-22	250	WGST	890
	500	KFSG 1120		5000	WSB	740
	1000	KGEF 1300	Augusta O-23	100	WRDL	1500
	100	KGJF 1200	Columbus O-22	50	WRBL	1200
	1000	KHJ 900	Macon O-23	250	WMAZ	890
	500	KMPC 710	Rome N-22	100	WFVJ	1370
	500	KMTR 570	Savannah O-24	500	WTOG	1260
	500	KTM 780	Thomasville Q-22	50	WODX	1210
	1000	KTBI 1300	Toccoa N-23	500	WTFI	1450
Oakland J-1	250	KLS 1440	<b>HAWAII</b>			
	500	KLX 880	Honolulu	500	KGMB	1320
	500	KROW 930		1000	KGU	940
Pasadena M-3	50	KPPC 1210	<b>IDAHO</b>			
	1000	KPSN 1360	Boise G-5	1000	KIDO	1250
Sacramento J-2	100	KFBK 1310	Idaho Falls G-7	500	KID	1320
San Bernardino M-3	100	KFXM 1210	Nampa G-5	50	KFXD	1420
San Diego N-3	500	KFSD 600	Pocatello H-7	250	KSEI	900
	250	KGB 1330	Sand Point D-6	100	KGXK	1420
San Francisco J-1	1000	KRFC 610	Twin Falls H-6	250	KGIQ	1320
	500	KFWI 930				
	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	Keys.					
Carthage J-18	50	WCAZ	1070	Ottumwa J-17	100	WIAS	1420	
Chicago I-20	10000	KFKX	1020	Red Oak J-16	100	KICK	1420	
	10000	KYW	1020	Shenandoah J-16	500	KFNF	890	
	500	WAAF	920		500	KMA	930	
	25000	WBBM	770	Sioux City I-15	1000	KSCJ	1330	
	1000	WCFL	970	Waterloo I-17	500	WMT	600	
	100	WCRW	1210					
	100	WEDC	1210					
	50000	WENR	870	<b>KANSAS</b>				
	500	WGES	1360	Dodge City L-13	100	KGNO	1210	
	25000	WGN	720	Kansas City K-16	100	WLBK	1420	
	1000	WIBO	560	Lawrence K-16	1000	KFKU	1220	
	5000	WJAZ	1490		1000	WREN	1220	
	25000	WJBT	770	Manhattan K-15	500	KSAC	580	
	50	WKBI	1420	Milford K-14	5000	KFKB	1050	
	5000	WLS	870	Topeka K-16	500	WIBW	580	
	5000	WMAQ	670	Wichita L-15	1000	KFH	1300	
	5000	WMBI	1080					
	5000	WORD	1490	<b>KENTUCKY</b>				
	500	WPCC	560	Covington K-22	5000	WCKY	1490	
	100	WSBC	1210	Hopkinsville M-20	1000	WFW	940	
	100	WHFC	1420	Louisville L-21	10000	WHAS	820	
Cicero I-20	100	WJBL	1200		100	WLP	1200	
Decatur K-19	100	WEHS	1420	Paducah M-19	100	WPAD	1420	
Evanston I-20	100	WKBS	1310					
Galesburg J-18	100	WEBQ	1210					
Harrisburg L-19	100	WCLS	1310					
Joliet I-19	100	WKBB	1310					
La Salle J-19	100	WJBC	1200					
Mooseheart I-19	20000	WJID	1130	Haynesville P-17	10		1120	
Peoria Heights J-19	500	WMBD	1440	Monroe P-18	50	KMLB	1200	
Quincy K-18	500	WTAD	1440	New Orleans R-19	100	WABZ	1200	
Rockford I-19	500	KFLV	1410		1000	WDSU	1250	
Rock Island I-18	100	WHBF	1210		100	WJBO	1420	
Springfield K-19	100	WCBS	1210		100	WJBW	1200	
	50	WTAX	1210		5000	WSMB	1320	
Tuscola K-20	100	WDZ	1070		5000	WWL	850	
Urbana J-20	250	WILL	890	Rayne Q-18	150		1120	
Zion I-20	5000	WCBD	1080	Shreveport P-17	50	KRMD	1310	
					1000	KTBS	1450	
					100	KTSL	1310	
					100	KWEA	1210	
					10000	KWKH	850	
<b>INDIANA</b>				<b>MAINE</b>				
Anderson J-21	100	WHBU	1210	Augusta F-28	100	WRDO	1370	
Connersville K-21	100	WKBV	1500	Bangor F-29	100	WABI	1200	
Culver I-20	500	WCMA	1400		500	WLBZ	620	
Evansville L-20	500	WGBF	630	Portland F-28	1000	WCSH	940	
Fort Wayne J-21	100	WGL	1370					
Gary I-20	10000	WOWO	1160					
Hammond I-20	1000	WJKS	1360	<b>MARYLAND</b>				
Indianapolis J-21	1000	WVAE	1200	Baltimore J-26	10000	WBAL	1060	
	500	WFBM	1400		250	WCAO	600	
Lafayette J-20	500	WBAA	1400		100	WCBM	1370	
La Porte I-20	100	WRAF	1200		250	WFBR	1270	
Marion J-21	50	WLAK	1310	Cumberland J-25	100	WTBO	1420	
Muncie J-21	50	WJBC	1310					
South Bend I-20	500	WSBT	1230					
Terre Haute K-20	100	WBOW	1310	<b>MASSACHUSETTS</b>				
				Boston G-28	1000	WBIS	1230	
					500	WBZA	990	
					1000	WEEI	590	
					1000	WHDH	830	
					100	WLOE	1500	
					1000	WNAC	1230	
					500	WSSH	1410	
					250	WSAR	1450	
				Fall River H-28	500	WLEX	1410	
				Lexington G-28	100	WLEY	1370	
					100	WNBH	1310	
				New Bedford H-28	500	WMAF	1410	
				S. Dartmouth H-28	15000	WBZ	990	
				Springfield H-27	500	WBSO	920	
				Wellesley Hills G-28	100	WEPS	1200	
				Worcester G-28	100	WORC	1200	
					250	WTAG	580	
<b>IOWA</b>								
Ames I-17	5000	WOI	640					
Boone I-17	100	KFGO	1310					
Cedar Rapids I-18	100	KWCR	1310					
Clarinda J-16	500	KSO	1380					
Council Bluffs J-16	1000	KOIL	1260					
Davenport I-18	5000	WOC	1000					
Decorah H-18	50	KGCA	1270					
	100	KWLC	1270					
Des Moines I-17	5000	WHO	1000					
Fort Dodge I-16	100	KFY	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				NEBRASKA			
	Watts		Keys.		Watts		Keys.
Battle Creek I-21	50	WELL	1420	Clay Center	1000	KMMJ	740
Bay City H-22	500	WBCM	1410	Lincoln J-15	5000	KFAB	770
Berrien Springs I-20	1000	WKZO	590		100	KFOR	1210
Calumet E-19	100	WHDF	1370		500	WCAJ	590
Detroit H-22	50	WJBK	1370	Norfolk I-15	1000	WJAG	1060
	5000	WJR	750	North Platte J-13	500	KGNF	1430
	100	WMBG	1420	Omaha J-15	500	WAAW	660
	1000	WWJ	920		1000	WOW	590
East Lansing H-21	1000	WXYZ	1240	Ravenna J-14	100	KGFV	1310
Flint H-22	100	WKAR	1040	Scottsbluff I-11	100	KGKY	1500
	100	WFDL	1310	York J-15	500	KGBZ	930
	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				NEVADA			
Fergus Falls F-15	100	KGDE	1200	Las Vegas L-5	100	KGIX	1420
Minneapolis G-17	7500	WCCO	810	Reno I-3	500	KOH	1380
	1000	WDGY	1180				
	500	WHDI	1180				
	1000	WRHM	1250				
Moorhead F-15	50	KGFK	1500				
Northfield G-17	1000	KFMX	1250				
	1000	WCAL	1250				
St. Paul G-17	1000	WGMS	1250				
	1000	WLB	1250				
	10000	KSTP	1460				
MISSISSIPPI				NEW HAMPSHIRE			
Greenville O-19	100	WRBQ	1210	Laconia G-28	100	WKAV	1310
Gulfport Q-19	100	WGCM	1210				
Hattiesburg Q-19	10	WRBJ	1370				
Jackson P-19	500	WJDX	1270				
Meridian P-20	500	WCOC	880				
Tupelo N-20	100	WDIX	1500				
Vicksburg P-18	300	WQBC	1360				
MISSOURI				NEW JERSEY			
Cp. Girardeau L-19	100	KFVS	1210	Asbury Park I-27	500	WCAP	1280
Columbia K-17	500	KFRU	630	Atlantic City J-27	5000	WPG	1100
Grant City J-16	50	KGIZ	1500	Camden I-26	500	WCAM	1280
Jefferson City L-17	500	WOS	630	Hackensack I-27	250	WBMS	1450
Joplin M-16	100	WMBH	1420	Jersey City I-27	300	WAAT	940
Kansas City K-16	1000	KMBC	950		250	WHOM	1450
	100	KWKX	1370		250	WKBO	1450
	1000	WDAF	610	Newark I-27	1000	WAAM	1250
	500	WHB	860		250	WGCP	1250
	1000	WOO	1300		250	WNJ	1450
St. Joseph K-16	2500	KFEQ	680		5000	WOR	710
	100	KGBX	1310	Paterson I-27	1000	WODA	1250
St. Louis L-18	500	KFUO	550	Red Bank I-27	100	WJBI	1210
	100	KFWF	1200	Trenton I-26	500	WOAX	1280
	50000	KMOX	1090				
	500	KSD	550				
	1000	KWK	1350				
	1000	WEW	760				
	100	WIL	1200				
	100	WMAY	1200				
MONTANA				NEW MEXICO			
Billings F-9	1000	KGHL	950	Albuquerque N-7	250	KGGM	1230
Butte F-7	500	KGIR	1360	Raton M-11	50	KGFL	1370
Great Falls E-8	1000	KFBB	1280	State College P-9	20000	KOB	1180
Kalispell D-7	100	KGEZ	1310				
Wolf Point E-11	100	KGCX	1310				
				NEW YORK			
				Auburn H-25	100	WMBO	1310
				Binghamton H-26	100	WNBF	1500
				Brooklyn I-27	500	WBBC	1400
					1000	WBBR	1300
					500	WCGU	1400
					500	WLTH	1400
					100	WMBQ	1500
					500	WSDA	1400
					500	WSGH	1400
				Buffalo H-24	1000	WBen	900
					100	WEBR	1310
					1000	WGR	550
					5000	WKBW	1480
					1000	WMAK	1040
					50	WSVS	1370
				Canton F-26	500	WCAD	1220
				Freeport I-27	100	WGBB	1210
				Glens Falls G-27	50	WBGF	1370
				Ithaca H-25	1000	WEAI	1270
					50	WLCI	1210
				Jamaica H-27	100	WMRJ	1210
				Jamestown H-24	25	WOCL	1210
				Long Island City I-27	100	WIBX	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
	50000	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	1000	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
	500	WAIU	640
	500	WCAH	1430
	750	WFAO	570
	100	WSEN	1210
Dayton J-22	200	WSMK	1380
Mansfield J-22	100	WJW	1210
Mount Orab K-22	100	WHBD	1370
Springfield J-22	500	WCOS	1450
Stuebenville J-23	50	WIBR	1420
Toledo I-22	500	WSPD	1340
Youngstown I-23	500	WKBN	570
Zanesville J-23	100	WALR	1210

**OKLAHOMA**

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
Picher M-16	500	KGGF	1010
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**

Adamsburg I-26	100	WGM	940
Allentown I-26	250	WCBA	1440
	250	WSAN	1440
	100	WFBG	1310
Altoona I-25	10	WNBW	1200
Carbondale H-26	50	WIBG	930
Elkins Park I-26	30	WEDH	1420
Erie H-24	100	WSAJ	1310
Grove City I-26	500	WBAK	1430
Harrisburg I-25	100	WCOD	1200
	500	WHP	1430
Jeannette J-24	100	WOOP	840
Johnstown J-24	100	WJAC	1310
Lancaster I-25	100	WGAL	1310
	100	WKJC	1200
Lewisburg I-26	100	WJBU	1210
Oil City I-24	500	WLBW	1260
Philadelphia I-26	10000	WCAU	1170
	100	WELK	1370
	500	WFAN	610
	500	WFI	560
	50	WFKD	1310
	100	WHAT	1310
	500	WIP	610
	500	WLIT	560
	100	WPEN	1500
	250	WRAX	1020
Pittsburgh J-24	50000	KDKA	980
	1000	KOV	1380
	500	WCAE	1220
	1000	WJAS	1290
	100	WMBJ	1500
Reading I-26	50	WRAW	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
State College I-25	500	WPAC	1230
Washington J-24	100	WNBO	1200
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	50	WRAK	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	KSOO	1110
Vermillion I-15	500	KUSD	890
Watertown G-15	100	KGCR	1210
Yankton I-15	1000	WNAX	570

### TENNESSEE

Bristol L-23	100	WOPI	1500
Chattanooga N-21	1000	WDOD	1280
Knoxville M-22	50	WFBC	1200
	1000	WNOX	560
	100	WROL	1310
Lawrenceburg N-20	500	WOAN	600
Memphis M-19	500	WGBC	1430
	100	WHBQ	1370
	500	WMC	780
	500	WNRB	1430
	500	WREC	600
Nashville M-20	5000	WLAC	1470
	5000	WSM	650
	5000	WTNT	1470
Springfield M-20	100	WSIX	1210
Union City M-19	100	WOBT	1310

### TEXAS

Abilene P-13	100	KFYO	1420
Amarillo N-12	1000	KGRS	1410
	250	WDAG	1410
Austin Q-14	100	KUT	1500
Beaumont R-17	500	KFDM	560
Brownsville U-15	500	KWVG	1260
Brownwood P-14	100	KGKB	1500
College Sta. Q-15	500	WTAW	1120
Corpus Christi S-14	100	KGFI	1500
Dallas P-15	10000	KRLD	1040
	5000	WFAA	800
	500	WRR	1280
Dublin P-14	100	KFPL	1310
El Paso P-9	100	KTSM	1310
	100	WDAH	1310
Fort Worth P-15	100	KFJZ	1370
	1000	KTAT	1240
	10000	WBAP	800
Galveston R-16	100	KFLX	1370
	500	KFLL	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
San Angelo Q-13	100	KGKL	1370
San Antonio R-14	100	KONO	1370
	100	KTAP	1420
	1000	KTSA	1290
	50000	WOAI	1190
Waco Q-15	1000	WACO	1240
Wichita Falls O-14	250	KGKO	570

### UTAH

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

### VERMONT

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

### VIRGINIA

Alexandria J-26	10000	WJSV	1460
Arlington J-25	1000	NAA	690
Danville L-25	100	WBTM	1370
Emory L-23	100	WEHC	1200
Lynchburg L-25	100	WLVA	1370
	500		590
Newport News L-26	100	WGH	1310
Norfolk L-26	500	WPOR	780
	500	WTAR	780
Petersburg L-26	100	WLBG	1200
Richmond K-26	100	WBBL	1210
	100	WMBG	1210
	5000	WRVA	1110
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	500	KWSC	1220
Seattle C-3	100	KFQW	1420
	5000	KJR	970
	1000	KOL	1270
	1000	KOMO	920
	100	KPCB	650
	50	KRSC	1120
	1000	KTW	1270
	100	KVL	1370
	500	KXA	570
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	WOBU	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
Manitowoc H-20	100	WOMT	1210
Milwaukee H-20	250	WHAD	1120
	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

	Watts		Keys.
<b>ALBERTA</b>			
Calgary B-7	500	CFAC	690
	500	CFCN	690
	500	CHCA	690
	500	CJ CJ	690
Edmonton A-8	500	CNRC	690
	250	CHMA	580
	500	CJCA	930
	500	CKUA	580
	500	CNRE	930
Lethbridge C-8	50	CJOC	1120
Red Deer A-8	1000	CHCT	840
	1000	CKLC	840
	1000	CNRD	840
<b>BRITISH COLUMBIA</b>			
Chilliwack B-3	5	CHWK	1210
Kamloops B-5	15	CFJC	1120
Sea Island	50	CJOR	1210
Vancouver B-3	50	CHLS	730
	50	CKCD	730
	50	CKFC	730
	50	CKMO	730
	100	CKWX	730
	500	CNRV	1030
Victoria C-3	500	CFCT	630
<b>MANITOBA</b>			
Brandon D-14	500	CKX	540
Winnipeg D-15	5000	CKY	780
	5000	CNRW	780
<b>NEW BRUNSWICK</b>			
Fredericton D-29	50	CFNB	1210
Moncton D-30	500	CNRA	630
St. John D-30	50	CFBO	890
<b>NEWFOUNDLAND</b>			
St. Johns A-35	500	8WMC	720
<b>NOVA SCOTIA</b>			
Halifax E-31	500	CHNS	930
	500	CNRH	930
Louisburg C-32	500	VAS	690
Sydney C-32	50	CJCB	880
Wolfville D-31	50	CKIC	930
<b>ONTARIO</b>			
Chatham H-22	100	CFCO	1210
Cobalt E-23	15	CKMC	1210
Hamilton H-24	10	CHCS	880
	50	CHML	880
	50	CKOC	880
Iroquois Falls F-26	250	CFCH	600
Kingston G-25	500	CFRC	930
London H-23	500	CJGC	910
	500	CNRL	910
Midland G-23	50	CKPR	930
Ottawa F-25	100	CKCO	890
	500	CNRO	600
Prescott F-25	50	CFLC	1010
Preston G-23	25	CKPC	1210
Toronto G-24	500	CFCA	840
	500	CFCL	580
	4000	CFRB	960
	5000	CJSC	690
	500	CKCL	580
	5000	CKGW	690
	500	CKNC	580
	500	CNRT	840
	4000	CNRX	960
	5000	CPRY	690
Waterloo G-23	50	CKCR	1010
Wingham G-23	25	10-BP	1200

PRINCE EDWARD ISLAND

	Watts		Keys.
Charlottetown C-31	250	CFCY	960
	30	CHCK	960
Summerside C-31	100	CHGS	1120
<b>QUEBEC</b>			
Montreal E-26	500	CFCF	1030
	5000	CHYC	730
	5000	CKAC	730
	5000	CNRM	730
Quebec D-27	100	CHRC	880
	22	CKCI	880
	50	CKCV	880
	50	CNRQ	880
<b>SASKATCHEWAN</b>			
Fleming C-13	500	CJRW	600
Moose Jaw C-11	500	CJRM	600
Pilot Butte	500	CHWC	960
Regina C-12	500	CJBR	960
	500	CKCK	960
	500	CNRR	960
Saskatoon B-11	500	CFQC	910
	500	CNRS	910
Yorkton C-13	500	CJGX	630
<b>HAITI</b>			
Port au Prince X-30	1000	HHK	920
<b>MEXICO</b>			
Chihuahua, Chih. R-9	250	XFF	920
Guadalajara, Jal. X-10	101	XEA	1200
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	730
	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	840
Monterrey, N. L. U-13	101	XEH	960
	500	XET	620
Morelia, Mich. Y-12	101	XEI	1000
Oaxaca, Oax. AA-14	105	XEF	1130
Reynosa, Tams.	2000	XED	770
Saltillo, Coah.	10	XEL	1090
Tampico, Tams.	501	XEM	840
	500	XES 1	890
Toluca, Mex.	50	XEC 1	1330
Veracruz, Ver.	101	XEU	800
Villahermosa, Tab.	250	XFE	920
<b>CUBA</b>			
Caibarien W-25	250	CMHD	920
Cienfuegos W-25	200	CMHA	1150
Colon W-24	300	CMGA	830
Havana W-23	100	CMBC	1220
	200	CMBY	610
	100	CMBZ	1010
	500	CMC	840
	100	CMCE	1280
	250	CMCF	1010
	500	CMCQ	950
	500	CMI	770
	3000	CMK	730
	100	CMQ	1220
	1000	CMW	600
	250	CMX	900
Santiago X-28	150	CMKC	1360
Tuinucu	500	CMHC	790
<b>COSTA RICA</b>			
San Jose FF-23	50	TIX	750

CFAC 690  
 Calgary, Alta.  
 CFBO 890  
 St. John, N. B.  
 CFCA 840  
 Toronto, Ont.  
 CFCE 1030  
 Montreal, Que.  
 CFCH 600  
 Iroq's Falls, Ont.  
 CFCL 580  
 Toronto, Ont.  
 CFCN 690  
 Calgary, Alta.  
 CFCO 1210  
 Chatham, Ont.  
 CFCY 630  
 Victoria, B. C.  
 CFY 960  
 Ch'lottet'n, P.E.I.  
 CFJC 1120  
 Kamloops, B. C.  
 CFCL 1010  
 Prescott, Ont.  
 CFNB 1210  
 Fredericton, N.B.  
 CFQC 910  
 Saskatoon, Sask.  
 CFRB 960  
 Toronto, Ont.  
 CFRC 930  
 Kingston, Ont.  
 CHCA 690  
 Calgary, Alta.  
 CHCK 960  
 Ch'lottet'n, P.E.I.  
 CHCS 880  
 Hamilton, Ont.  
 CHCT 840  
 Red Deer, Alta.  
 CHGS 1120  
 Sum'rside, P.E.I.  
 CHLS 730  
 Vancouver, B.C.  
 CHMA 580  
 Edmonton, Alta.  
 CHML 880  
 Hamilton, Ont.  
 CHNS 930  
 Halifax, N.S.  
 CHRC 880  
 Quebec, Que.  
 CHWC 960  
 Pilot Butte, Sask.  
 CHWK 1210  
 Chilliwack, B.C.  
 CHYC 730  
 Montreal, Que.  
 CJBR 960  
 Regina, Sask.  
 CJCA 930  
 Edmonton, Alta.  
 CJCB 880  
 Syndey, N.S.  
 CJCJ 690  
 Calgary, Alta.  
 CJGC 910  
 London, Ont.  
 CJGX 630  
 Yorkton, Sask.  
 CJOC 1120  
 Lethbridge, Alta.  
 CJOR 1210  
 Sea Island, B. C.  
 CJRM 600  
 Moose Jaw, Sask.

CJRW 600  
 Fleming, Sask.  
 CJSC 690  
 Toronto, Ont.  
 CKAC 730  
 Montreal, Que.  
 CKCD 730  
 Vancouver, B.C.  
 CKCI 880  
 Quebec, Que.  
 CKCK 960  
 Regina, Sask.  
 CKCL 580  
 Toronto, Ont.  
 CKCO 890  
 Ottawa, Ont.  
 CKCR 1010  
 Waterloo, Ont.  
 CKCV 880  
 Quebec, Que.  
 CKFC 730  
 Vancouver, B.C.  
 CKGW 690  
 Toronto, Ont.  
 CKIC 930  
 Wolfville, N.S.  
 CKLC 840  
 Red Deer, Alta.  
 CKMC 1210  
 Cobalt, Ont.  
 CKMO 730  
 Vancouver, B.C.  
 CKNC 580  
 Toronto, Ont.  
 CKOC 880  
 Hamilton, Ont.  
 CKPC 1210  
 Preston, Ont.  
 CKPR 930  
 Midland, Ont.  
 CKUA 580  
 Edmonton, Alta.  
 CKWX 730  
 Vancouver, B.C.  
 CKX 540  
 Brandon, Man.  
 CKY 780  
 Winnipeg, Man.  
 CMBC 1220  
 Havana, Cuba  
 CMBY 1400  
 Havana, Cuba  
 CMBZ 1010  
 Havana, Cuba  
 CMC 840  
 Havana, Cuba  
 CMCE 1280  
 Havana, Cuba  
 CMCF 1010  
 Havana, Cuba  
 CMCQ 950  
 Havana, Cuba  
 CMGA 830  
 Colon, Cuba  
 CMHA 1150  
 Cienfuegos, Cuba  
 CMHC 790  
 Tuinucu, Cuba  
 CMHD 920  
 Caibarien, Cuba  
 CMI 770  
 Havana, Cuba  
 CMK 730  
 Havana, Cuba

CMNC 1300  
 Santiago, Cuba  
 CMQ 1220  
 Havana, Cuba  
 CMW 600  
 Havana, Cuba  
 CMX 900  
 Havana, Cuba  
 CNRA 630  
 Moncton, N.B.  
 CNRC 690  
 Calgary, Alta.  
 CNRD 840  
 Red Deer, Alta.  
 CNRE 930  
 Edmonton, Alta.  
 CNRH 930  
 Halifax, N. S.  
 CNRL 910  
 London, Ont.  
 CNRM 730  
 Montreal, Que.  
 CNRO 600  
 Ottawa, Ont.  
 CNRQ 880  
 Quebec, Que.  
 CNRR 960  
 Regina, Sask.  
 CNRS 910  
 Saskatoon, Sask.  
 CNRT 840  
 Toronto, Ont.  
 CNRV 1030  
 Vancouver, B.C.  
 CNRW 780  
 Winnipeg, Man.  
 CNRX 960  
 Toronto, Ont.  
 CPRY 690  
 Toronto, Ont.  
 HHK 920  
 Port au Prince, H.  
 KBPS 1420  
 Portland, Ore.  
 KBTM 1200  
 Paragould, Ark.  
 KCRC 1370  
 Enid, Okla.  
 KCRJ 1310  
 Jerome, Ariz.  
 KDB 1500  
 S. Barbara, Cal.  
 KDFN 1210  
 Casper, Wyo.  
 KDKA 980  
 Pittsburgh, Pa.  
 KDLR 1210  
 Devils Lake, N.D.  
 KDYL 1290  
 Salt Lake City  
 KECA 1430  
 Los Angeles, Cal.  
 KELW 780  
 Burbank, Cal.  
 KEX 1180  
 Portland, Ore.  
 KFAB 770  
 Lincoln, Nebr.  
 KFBB 1280  
 Great Fls., Mont.  
 KFBK 1310  
 Sacramento, Cal.  
 KFBL 1370  
 Everett, Wash.

KFDM 560  
 Beaumont, Tex.  
 KFDY 550  
 Brookings, S.D.  
 KFEL 920  
 Denver, Colo.  
 KFEQ 680  
 St. Joseph, Mo.  
 KFGQ 1310  
 Boone, Iowa  
 KFH 1300  
 Wichita, Kansas  
 KFHA 1200  
 Gunnison, Colo.  
 KFI 640  
 Los Angeles, Cal.  
 KFIO 1120  
 Spokane, Wash.  
 KFII 1310  
 Juneau, Alaska  
 KFIZ 1420  
 Fond du Lac, Wis.  
 KFJB 1200  
 Marshalltown, Ia.  
 KFJF 1480  
 Oklahoma City  
 KFJI 1370  
 Astoria, Ore.  
 KFJM 1370  
 Grd. Forks, N.D.  
 KFJR 1300  
 Portland, Ore.  
 KFJY 1310  
 Fort Dodge, Ia.  
 KFJZ 1370  
 Ft. Worth, Tex.  
 KFKA 880  
 Greeley, Colo.  
 KFKB 1050  
 Milford, Kansas  
 KFKU 1220  
 Lawrence, Kans.  
 KFKX 1020  
 Chicago, Ill.  
 KFLV 1410  
 Rockford, Ill.  
 KFLX 1370  
 Galveston, Tex.  
 KFMX 1250  
 N'thfield, Minn.  
 KPNF 890  
 Shenandoah, Ia.  
 KFOR 1210  
 Lincoln, Nebr.  
 KFOX 1250  
 Long Beach, Cal.  
 KFPL 1310  
 Dublin, Texas  
 KFPM 1310  
 Greenville, Tex.  
 KPPW 1340  
 Ft. Smith, Ark.  
 KFPY 1340  
 Spokane, Wash.  
 KFQD 1230  
 Anchorage, Alas.  
 KFVQ 1420  
 Holy City, Cal.  
 KFQW 1420  
 Seattle, Wash.  
 KFRC 610  
 San F'nscisco, Cal.  
 KFRU 630  
 Columbia, Mo.

KFSD 600  
San Diego, Cal.  
KFSG 1120  
Los Angeles, Cal.  
KFUL 1290  
Galveston, Tex.  
KFUM 1270  
Col. Spgs., Colo.  
KFUO 550  
St. Louis, Mo.  
KFUP 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'nisco, Cal.  
KFXD 1420  
Nampa, Idaho  
KFXF 920  
Denver, Colo.  
KFXX 1310  
Edgewater, Colo.  
KFXM 1210  
San Ber'd'no, Cal.  
KFXR 1310  
Oklahoma City  
KFXY 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  
KGCR 1210  
Watertown, S.D.  
KGCU 1200  
Mandan, N.D.  
KGCX 1310  
Wolf Pt, Mont.  
KGDA 1370  
Mitchell, S. D.  
KGDE 1200  
Ferg's F'ills, Minn  
KGDG 1100  
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.  
KGGF 1370  
Oklahoma City  
KGFI 1500  
Corpus Ch'sti, Tex.  
KGFJ 1200  
Los Angeles, Cal.  
KGFK 1500  
Moorhead, Minn.  
KGFL 1370  
Raton, N. M.  
KGFV 1310  
Ravenna, Nebr.  
KGFY 580  
Pierre, S. D.  
KGGC 1420  
San F'nisco, Cal.  
KGGF 1010  
Picher, Okla.  
KGGM 1230  
Alb'g'raque, N.M.  
KGHF 1320  
Pueblo, Colo.  
KGHI 1200  
Little Rock, Ark.  
KGHL 950  
Billings, Mont.  
KGIQ 1320  
Twin Falls, Ida.  
KGIK 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  
KGGX 1420  
Sand Point, Ida.  
KGGY 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'nisco, 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'nisco, 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.  
KLG 880  
Oakland, Cal.  
KLZ 560  
Denver, Colo.  
KMA 930  
Shenandoah, Ia.  
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'nisco, 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  
Clairinda, Iowa  
KSOO 1110  
Sioux Falls, S.D.  
KSTP 1460  
St. Paul, Minn.  
KTAB 560  
San F'nisco, 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 Shreveport, La.	WABC 860 New York City	WCAH 1430 Columbus, Ohio	WDEL 1120 Wilmington, Del.
KTSM 1310 El Paso, Texas	WABI 1200 Bangor, Maine	WCAJ 590 Lincoln, Nebr.	WDGY 1180 Minneap., Minn.
KTW 1270 Seattle, Wash.	WARZ 1200 New Orleans, La.	WCAL 1250 Northfield, Minn.	WDIX 1500 Tupelo, Miss.
KUJ 1500 Longview, Wash.	WACO 1240 Waco, Texas	WCAM 1280 Camden, N. J.	WDOD 1280 Chattanooga, Tenn.
KUOA 1390 Fayetteville, Ark.	WADC 1320 Akron, Ohio	WCAO 600 Baltimore, Md.	WDRG 1330 N. Haven, Conn.
KUSD 890 Vermillion, S. D.	WAUW 640 Columbus, Ohio	WCAP 1280 Asbury Pk., N. J.	WDSU 1250 New Orleans, La.
KUT 1500 Austin, Texas	WALR 1210 Zanesville, Ohio	WCAT 1200 Rapid City, S. D.	WDWF 1210 Providence, R. I.
KVI 760 Tacoma, Wash.	WAPI 1140 Birmingham, Ala.	WCAU 1170 Philadelphia, Pa.	WDZ 1070 Tuscola, Ill.
KVL 1370 Seattle, Wash.	WASH 1270 Gr. Rapids, Mich.	WCAZ 1200 Burlington, Vt.	WEAF 1660 New York City
KVOA 1260 Tucson, Arizona	WBAA 1400 Lafayette, Ind.	WCAT 1070 Carthage, Ill.	WEAL 1270 Ithaca, N. Y.
KVOO 1140 Tulsa, Okla.	WBAK 1430 Harrisburg, Pa.	WCBA 1440 Allentown, Pa.	WEAN 780 Providence, R. I.
KVOS 1200 Bellingham, Wash.	WBAL 1060 Baltimore, Md.	WCBF 1080 Zion, Ill.	WEAO 1000 Columbus, Ohio
KWCR 1310 Cedar Rapids, Ia.	WBAM 1440 Greensboro, N. C.	WCBM 1370 Baltimore, Md.	WEBC 1290 Superior, Wis.
KWEA 1210 Shreveport, La.	WBAP 800 Fort Worth, Tex.	WCBS 1210 Springfield, Ill.	WEBC 1210 Harrisburg, Ill.
KWG 1200 Stockton, Cal.	WBAX 1210 Wilkes-Barre, Pa.	WCCO 810 Minneap., Minn.	WEBR 310 Buffalo, N. Y.
KWJJ 1060 Portland, Ore.	WBBC 1400 Brooklyn, N. Y.	WCDA 1350 New York City	WEDC 1210 Chicago, Ill.
KWK 1350 St. Louis, Mo.	WBBL 1210 Richmond, Va.	WCFL 970 Chicago, Ill.	WEDH 1420 Erie, Pa.
KWKC 1370 Kansas City, Mo.	WBBM 770 Chicago, Ill.	WCGU 1400 Brooklyn, N. Y.	WEFI 590 Boston, Mass.
KWKH 850 Shreveport, La.	WBRR 1300 Brooklyn, N. Y.	WCKY 1490 Covington, Ky.	WEHC 1200 Emory, Va.
KWLC 1270 Decorah, Iowa	WBBZ 1200 Ponca City, Okla.	WCLB 1500 Long Beach, N. Y.	WEHS 1420 Evanston, Ill.
KWSC 1220 Pullman, Wash.	WBCM 1410 Bay City, Mich.	WCLO 1200 Janesville, Wis.	WELK 1370 Philadelphia, Pa.
KWWG 1260 Brownsville, Tex.	WBEN 900 Buffalo, N. Y.	WCLS 1310 Joliet, Ill.	WELL 1420 Battle Creek, Mich.
KXA 570 Seattle, Wash.	WBGF 1370 Glens Falls, N. Y.	WCMA 1400 Culver, Ind.	WENR 870 Chicago, Ill.
KXL 1420 Portland, Ore.	WBIS 1230 Boston, Mass.	WCOA 1340 Pensacola, Fla.	WEPS 1200 Worcester, Mass.
KXO 1500 El Centro, Cal.	WBMS 1450 Hackensack, N.J.	WCOC 880 Meridian, Miss.	WEVD 1300 New York City
KXRO 1310 Aberdeen, Wash.	WBNY 1350 New York City	WCOD 1200 Harrisburg, Pa.	WEW 760 St. Louis, Mo.
KXYZ 1420 Houston, Texas	WBOW 1310 Terre Haute, Ind.	WCOH 1210 Yonkers, N. Y.	WEXL 1310 Royal Oak, Mich.
KYA 1230 San Francisco, Cal.	WBRC 930 Birmingham, Ala.	WCRW 1210 Chicago, Ill.	WFAA 800 Dallas, Texas
KYW 1020 Chicago, Ill.	WBRE 1310 Wilkes-Barre, Pa.	WCSC 1360 Charleston, S. C.	WFAN 610 Philadelphia, Pa.
KZM 1370 Hayward, Cal.	WBSO 920 Wells'ly'H's, Mass	WCSH 940 Portland, Maine	WFBC 1200 Knoxville, Tenn.
NAA 690 Arlington, Va.	WBT 1080 Charlotte, N. C.	WCOS 1450 Springfield, Ohio	WFBE 1200 Cincinnati, Ohio
NBA 850 Baiboa, C. Z.	WBTM 1370 Danville, Va.	WDAE 1220 Tampa, Fla.	WFBG 1310 Altoona, Pa.
TIX 750 San Jose, C. R.	WBZ 990 Springfield, Mass.	WDAF 610 Kansas City, Mo.	WFBL 1360 Syracuse, N. Y.
VAS 690 Louisburg, N. S.	WBZA 990 Boston, Mass.	WDAG 1410 Amerillo, Texas	WFBM 1230 Indianapolis, Ind.
WAAF 920 Chicago, Ill.	WCAC 600 Storrs, Conn.	WDAH 1310 El Paso, Texas	WFBR 1270 Baltimore, Md.
WAAM 1250 Newark, N. J.	WCAD 1220 Canton, N. Y.	WDAY 940 Fargo, N. D.	WFDF 1310 Flint, Mich.
WAAT 940 Jersey City, N. J.	WCAE 1220 Pittsburgh, Pa.	WDBI 930 Roanoke, Va.	WFDV 1370 Rome, Ga.
WAAW 660 Omaha, Nebr.		WDBO 1120 Orlando, Fla.	

WFDW 1420	WHBY 1200	WJAZ 1490	WLB 1250
Talladega, Ala.	Green Bay, Wis.	Chicago, Ill.	St. Paul, Minn.
WFI 560	WHDF 1370	WJBC 1200	WLCB 1310
Philadelphia, Pa.	Calumet, Mich.	La Salle, Ill.	Muncie, Ind.
WFIW 940	WHDH 830	WJBI 1210	WLBF 1420
Hopkinsville, Ky.	Boston, Mass.	Red Bank, N. J.	Kansas City, Kas.
WFJC 1450	WHDI 1180	WJBK 1370	WLBG 1200
Akron, Ohio	Minneap., Minn.	Detroit, Mich.	Ettrick, Va.
WFKD 1310	WHDL 1420	WJBL 1200	WLBL 900
Philadelphia, Pa.	TupperLake, N.Y.	Decatur, Ill.	Stevens Pt., Wis.
WFLA 620	WHEC 1440	WJBO 1420	WLBW 1260
Clearwater, Fla.	Rochester, N. Y.	New Orleans, La.	Oil City, Pa.
WGAL 1310	WHFC 1420	WJBT 770	WLBX 1500
Lancaster, Pa.	Cicero, Ill.	Chicago, Ill.	L.I. City, N.Y.
WGAR 1450	WHIS 1420	WJBU 1210	WLBZ 620
Cleveland, Ohio	Bluefield, W. Va.	Lewisburg, Pa.	Bangor, Me.
WGBB 1210	WHK 1390	WJBW 1200	WLGI 1210
Freeport, N. Y.	Cleveland, Ohio	New Orleans, La.	Ithaca, N. Y.
WGCB 1430	WHN 1010	WJBY 1210	WLEX 1410
Memphis, Tenn.	New York City	Gadsden, Ala.	Lexington, Mass.
WGFB 630	WHO 1000	WJDX 1270	WLDX 1370
Evansville, Ind.	Des Moines, Ia.	Jackson, Miss.	Lexington, Mass.
WGBI 880	WHOM 1450	WJDD 1130	WLIT 560
Scranton, Pa.	Jersey City, N. J.	Mooseheart, Ill.	Philadelphia, Pa.
WGBS 600	WHP 1430	WJKS 1360	WLOE 1500
New York City	Harrisburg, Pa.	Gary, Ind.	Boston, Mass.
WGCM 1210	WIAS 1420	WJR 750	WLS 870
Gulport, Miss.	WIAS 1420	WJRW 1460	WLSI 1210
WGCP 1250	Ottumwa, Iowa	Alexandria, Va.	Providence, R. I.
Newark, N. J.	WIBA 1280	WJW 1210	WLTH 1400
WGES 1360	Madison, Wis.	Mansfield, Ohio	Brooklyn, N. Y.
Chicago, Ill.	WIBC 930	WJZ 760	WLVA 1370
WGHO 1310	Elkins Park, Pa.	New York City	Lynchburg, Va.
Newsp't News, Va.	WIBM 1370	WKAQ 890	WLW 700
WGL 1370	Jackson, Mich.	San Juan, P. R.	Cincinnati, Ohio
Ft. Wayne, Ind.	WIBO 560	WKBK 1040	WLWL 1100
WGM 840	Chicago, Ill.	E. Lansing, Mich.	New York City
Adamsburg, Pa.	WIBR 1420	WKBV 1310	WMAC 570
WGMS 1250	Staubenville, O.	WKAJ 1310	Syracuse, N. Y.
St. Paul, Minn.	WIBU 1310	Laconia, N. H.	WMAF 1410
WGN 720	Poynette, Wis.	WKBK 1310	S. D'rtm'th, Mass.
Chicago, Ill.	WIBW 580	Joliet, Ill.	WMAK 1040
WGR 550	Topeka, Kansas	WKBK 1310	Buffalo, N. Y.
Buffalo, N. Y.	WIBX 1200	Birmingham, Ala.	WMAL 630
WGST 890	Utica, N. Y.	WKBK 1400	Washington, D. C.
Atlanta, Ga.	WICC 1190	Indianapolis, Ind.	WMAQ 670
WGY 790	Bridgeport, Conn.	WKBH 1380	Chicago, Ill.
Schenec'd'y, N. Y.	WIL 1200	La Crosse, Wis.	WMAY 1200
WHA 940	St. Louis, Mo.	WKBK 1420	St. Louis, Mo.
Madison, Wis.	WILL 890	Chicago, Ill.	WMAZ 890
WHAD 1120	Urbana, Ill.	WKBK 570	Macon, Ga.
Milwaukee, Wis.	WILM 1420	WKBK 1450	WMBA 1500
WHAM 1150	Wilmington, Del.	Youngstown, O.	Newport, R. I.
Rochester, N. Y.	WIOD 1300	WKBQ 1350	WMBC 1420
WHAP 1300	Miami Bch., Fla.	New York City	Detroit, Mich.
New York City	WIP 610	WKBK 1310	WMBD 1440
WHAS 820	Philadelphia, Pa.	Galesburg, Ill.	Peoria Hghts., Ill.
Louisville, Ky.	WIS 1010	WKBV 1500	WMBG 1210
WHAT 1310	Columbia, S. C.	Connersville, Ind.	Richmond, Va.
Philadelphia, Pa.	WISJ 780	WKBW 1480	WMBH 1420
WHAZ 1300	Madison, Wis.	Buffalo, N. Y.	Joplin, Mo.
Troy, N. Y.	WISN 1120	WKBZ 1500	WMBI 1080
WHB 860	Milwaukee, Wis.	Ludington, Mich.	Chicago, Ill.
Kansas City, Mo.	WJAC 1310	WKCJ 1200	WMBJ 1500
WHBC 1200	Johnstown, Pa.	Lancaster, Pa.	Pittsburgh, Pa.
Canton, Ohio	WJAG 1060	WKRK 550	WMBO 1310
WHBD 1370	Norfolk, Nebr.	Cincinnati, O.	Auburn, N. Y.
Mt. Orab, O.	WJAK 1310	WKY 900	WMBQ 1500
WHBF 1210	Marion, Ind.	Oklahoma City	Brooklyn, N. Y.
Rock Island, Ill.	WJAR 890	WKLAC 1470	WMBR 1370
WHBL 1410	Providence, R. I.	Nashville, Tenn.	Tampa, Fla.
Sheboygan, Wis.	WJAS 1290	WLAP 1200	WMC 780
WHBQ 1370	Pittsburgh, Pa.	Louisville, Ky.	Memphis, Tenn.
Memphis, Tenn.	WJAX 900		WMCA 570
WHBU 1210	Jacksonville, Fla.		New York City
Anderson, Ind.	WJAY 610		
	Cleveland, Ohio		

WMMN 890 Fairmont, W. Va.	WOV 1130 New York City	WROL 13.0 Knoxville, Tenn.	WANI 14.0 Nashville, Tenn.
WMPC 1500 Lapeer, Mich.	WOW 590 Omaha, Nebr.	WRR 1280 Dallas, Texas	WTCC 1260 Savannah, Ga.
WMRJ 1210 Jamaica, N. Y.	WOWO 1160 Ft. Wayne, Ind.	WRUF 830 Gainesville, Fla.	WWAE 1200 Hammond, Ind.
WMSG 1350 New York City	WPAD 1420 Paducah, Ky.	WRVA 1110 Richmond, Va.	WWJ 920 Detroit, Mich.
WMT 600 Waterloo, Iowa	WPAP 1010 New York City	WSAI 1330 Cincinnati, Ohio	WWL 850 New Orleans, La.
WNAC 1230 Boston, Mass.	WPAW 1210 Pawtucket, R. I.	WSAJ 1310 Grove City, Pa.	WWNC 570 Asheville, N. C.
WNAD 1010 Norman, Okla.	WPC 560 Chicago, Ill.	WSAN 1440 Allentown, Pa.	WRRL 1500 Woodside, N. Y.
WNAX 570 Yankton, S. D.	WPCH 810 New York City	WSAR 1450 Fall River, Mass.	WWVA 1160 Wheeling, W. Va.
WNBF 1500 Bingh'm't'n, N. Y.	WPDF 1200 Flint, Mich.	WSAZ 580 Hunt'ngton, W. Va.	WXYZ 1240 Detroit, Mich.
WNBH 1310 New B'd'f'd, Mass.	WPEN 1500 Philadelphia, Pa.	WSB 740 Atlanta, Ga.	XEA 1200 Guadalajara, Jal.
WNB 1200 Washington, Pa.	WPG 1100 Atlantic City, N.J.	WSBC 1210 Chicago, Ill.	XEB 670 Mexico City
WNBR 1430 Memphis, Tenn.	WPOE 1370 Patchogue, N. Y.	WSBT 1230 South Bend, Ind.	XEC 1330 Toluca, Mex.
WNBW 1200 Carbondale, Pa.	WPOR 780 Norfolk, Va.	WSDA 1400 Brooklyn, N. Y.	XED 770 Reynosa, Tams.
WNBX 1200 Springfield, Vt.	WQSC 1230 State College, Pa.	WSEN 1210 Columbus, Ohio	XFF 1130 Oaxaca, Oax.
WNBZ 1290 AranaL'ke, N. Y.	WTF 680 Raleigh, N. C.	WSPA 1410 Montgomery, Ala.	XFX 960 Monterrey, N. L.
WNJ 1450 Newark, N. J.	WQAM 560 Miami, Fla.	WSGH 1400 Brooklyn, N. Y.	XEI 1000 Morelia, Mich.
WNKX 560 Knoxville, Tenn.	WQAN 880 Scranton, Pa.	WSIX 1210 Springfield, Tenn.	XEJ 860 Juarez, Chih.
WNKY 570 New York City	WQAO 1010 New York City	WJSJ 1310 Winst.-Sal., N. C.	XEL 1090 Saltillo, Coah.
WOAI 1190 San Antonio, Tex.	WQDM 1370 St. Albans, Vt.	WSM 650 Nashville, Tenn.	XEM 840 Tampico, Tams.
WOAN 600 Law'neeb'g, Tenn.	WQDV 1500 Tupelo, Miss.	WSMB 1320 New Orleans, La.	XEN 730 Mexico City
WOAX 1280 Trenton, N. J.	WQDX 1210 Thomasville, Ga.	WSMK 1380 Dayton, Ohio	XFO 980 Mexico City
WOBT 1310 Union City, Tenn.	WRAF 1200 La Porte, Ind.	WSPA 1420 Spartanburg, S. C.	XER 1070 Mexico City
WOBU 580 Charlest'n, W. Va.	WRAK 1370 Williamsport, Pa.	WSPD 1340 Toledo, Ohio	XES 890 Tampico, Tamp.
WOC 1000 Davenport, Iowa	WRAP 1310 Reading, Pa.	WSSH 1410 Boston, Mass.	XET 620 Monterrey, N. L.
WOCL 1210 Jamestown, N. Y.	WRAX 1020 Philadelphia, Pa.	WSUI 880 Iowa City, Ia.	XEU 800 Veracruz, Ver.
WODA 1250 Paterson, N. J.	WRBJ 1370 Hartisburg, Miss.	WSUN 620 St. Petersb'g, Fla.	XEW 780 Mexico City
WODX 1410 Mobile, Ala.	WRBL 1200 Columbus, Ga.	WSVS 1370 Buffalo, N. Y.	XEX 920 Mexico City
WOI 640 Ames, Iowa	WRBQ 1210 Greenville, Miss.	WSYR 570 Syracuse, N. Y.	XEY 550 Merida, Yuc.
WOKO 1440 P'ghkeepsie, N. Y.	WRBT 1370 Wilmington, N. C.	WTAD 1440 Quincy, Ill.	XEZ 700 Mexico City
WOL 1310 Washington, D. C.	WRBU 1210 Gastonia, N. C.	WTAG 580 Worcester, Mass.	XFA 540 Mexico City
WOMT 1210 Manitowoc, Wis.	WRBX 1410 Roanoke, Va.	WTAM 1070 Cleveland, Ohio	XFC 630 Jalapa, Ver.
WOOD 1270 Gr. Rapids, Mich.	WRC 950 Washington, D. C.	WTAQ 1330 Eau Claire, Wis.	XFE 920 Villahermosa, Tab
WOOP 840 Jeanette, Pa.	WRDO 1370 Augusta, Me.	WTAR 780 Norfolk Va.	XFF 920 Chihuahua, Chih.
WOPI 1500 Bristol, Tenn.	WRDW 1500 Augusta, Ga.	WTAW 1120 College Sta., Tex.	XFG 640 Mexico City
WQQ 1300 Kansas City, Mo.	WREC 600 Memphis, Tenn.	WTAX 1210 Springfield, Ill.	XFI 590 Mexico City
WOR 710 Newark, N. J.	WREN 1220 Lawrence, Kans.	WTBO 1420 Cumberland, Md.	XFX 840 Mexico City
WORC 1200 Worcester, Mass.	WRHM 1250 M'neap., M'n.n.	WTPI 1450 Toccoa, Ga.	8WMC 720 St. Johns, N. F.
WORD 1490 Chicago, Ill.	WRJN 1370 Racine, Wis.	WTTC 1060 Hartford, Conn.	10BP 1200 Wingham, Ont.
WOS 630 Jeff's'n City, Mo	WRNY 1010 New York City	WTMJ 620 Milwaukee, Wis.	

# Principal Broadcasting Stations of the World

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

Kcys.	Call	Watts	City	Country
113.2	FL	15000	Paris	France
119			Berlin	Germany
155	RYK	7000	Kovno	Lithuania
160	PH9	6200	Huisen	Netherlands
162	TNU		Carthage	Tunisia
166		40000	Lathi	Finland
167		1000	Norddeisch	Germany
174		13500	Paris	France
176	RA43	4000	Kharkov	Russia
187		5000	Angora	Turkey
193	5XX	25000	Daventry	Un. Kingdom
202.5		12000	Moscow	Poland
207	RA1	40000	Moscow	Russia
214.4	FL	15000	Paris	France
222	SBG	30000	Motala	Sweden
231	AFT	10000	Berlin	Germany
240	TUA	500	Tunis	Tunisia
250		100	Tallin	Estonia
250		600	Osmanie	Turkey
250	SBE	600	Boden	Sweden
260		7500	Kalundborg	Denmark
269	RA33	4000	Novorossisk	Russia
272	RA57	500	Irt'utsk	Russia
278	RA67	1200	Matchik	Russia
279	PCF	1500	Scheveningen	Netherlands
280	PFB1	7000	Hilversum	Netherlands
285	RA15	500	Sverdlovsk	Russia
285	RA49	1200	Eriyan	Russia
297		250	Basel	Switzerland
300	RA42	10000	Leningrad	Russia
307	RA40	1200	Odessa	Russia
316	RA12	1200	Voronezh	Russia
325	RA39	1200	Gemel	Russia
333	RA22	1200	Samara	Russia
343	RA41	1200	Vologda	Russia
345	RA11	4000	Tiflis	Russia
349	RA18	1200	Minsk	Russia
357	RA13	1800	Nizhni-Novgorod	Russia
366	RA14	4000	Rostov-on-Don	Russia
375	RA7	180	Ivanovo-Vosnesensk	Russia
375	RA9	250	Sevastopol	Russia
375		1750	Colombo	Ceylon
380	RA56	1200	Artemovsk	Russia
393	RA46	2000	Petrozovodsk	Russia
395		250	Geneva	Switzerland
397	RA5	1200	Kiev	Russia
400	SBF	600	Ostersund	Sweden
400	RA8	700	Bogorodsk	Russia
400	RA45	4000	Baku	Russia
411	RA77	1200	Stalino	Russia
417	RA47	200	Armavir	Russia
420	RA27	2000	Tashkent	Russia
429	RA26	1000	Astrakhan	Russia
435	RA44	1200	Tver	Russia
441		600	Lausanne	Switzerland
462	RA16	1200	Vel Ustjuik	Russia
469	RA25	1000	Orenburg	Russia

## 500

Kcys.	Call	Watts	City	Country
521	RA34	1000	Kourak	Russia
524		1500	Freiburg	Germany
526	LKH	700	Hamar	Norway
527.3		3000	Ljubljana	Yugoslavia
535		700	Augsburg	Germany
535		750	Hanover	Germany
545	RA20	1200	Stavropol	Russia
545		20000	Budapest	Hungary

Kcys.	Call	Watts	City	Country
<b>550</b>				
553	SBD	600	Sundsvall	Sweden
563		4000	Munich	Germany
571	RA30	1000	Dnepropetrovsk	Russia
571	YLZ	10000	Riga	Latvia
580	RA38	1000	Krasnodar	Russia
581	7ZL	1500	Hobart	Australia
581		15000	Vienna	Austria
589	ON4RB	3600	Brussels	Belgium
599	IMI	7000	Milan	Italy

## 600

Kcys.	Call	Watts	City	Country
<b>600</b>				
600	CWOW		Montevideo	Uruguay
606	XGZ	500	Nanking	China
608	LKO	60000	Oslo	Norway
616	OKP	5000	Prague	Czechoslovakia
620	3AR	2500	Melbourne	Australia
625	COTN	500	Tientsin	China
625	CMAB	1000	Santiago	Chile
625	RA17	1500	Vladivostok	Russia
626	5GB	25000	Daventry	Un. Kingdom
631	RA43	4000	Kharkov	Russia
634		8000	Langerburg	Germany
639		750	Elberfield	Germany
644	YN	3000	Lyon	France
648	4YA	500	Dunedin	New Zealand
653		630	Zurich	Switzerland
662	1BZ	200	Bolzano	Italy
662		500	Klagenfurt	Austria
662	SCT	150	Uppsala	Sweden
662	LKP	700	Porsbrund	Norway
662		700	Aix la Chapelle	Germany
665	2FC	2500	Sydney	Australia
667	RA4	300	Moscow	Russia
667	RA2	500	Moscow	Russia
671	FPTT	1000	Paris	France
671	LKR		Rjukan	Norway
671	LKA	350	Aalesund	Norway
674	COHB	1000	Harbin	China
676	ZTJ	15000	Johannesburg	South Africa
680	IRO	3000	Rome	Italy
685	LT2	1000	LaPlata	Argentina
688	SBA	1000	Stockholm	Sweden
689	PTB	500	Danzig	Poland
689	CAB	1000	Canton	China
689	6WF	2500	Perth	Australia
695		2500	Belgrade	Yugoslavia
698	JODK	1000	Keijo	Japan

## 700

Kcys.	Call	Watts	City	Country
<b>700</b>				
700	CWOA	1000	Montevideo	Uruguay
706	LS1	5000	Buenos Aires	Argentina
706			Sorocaba	Brazil
706	HJN	550	Bogota	Colombia
707.6	EAJ7	1500	Madrid	Spain
708	JOJK	3000	Kanazawa	Japan
714	RA32	200	Saratov	Russia
714	COMK	2000	Mukden	China
714	JODK	1000	Keijo (Seoul)	Chosen (Korea)
717		4000	Berlin	Germany
718	2YA	5000	Wellington	New Zealand
724		2500	Rabat	Morocco

Kcys.	Call	Watts	City	Country	Kcys.	Call	Watts	City	Country
733	5CL	2500	Adelaide	Australia	931	SCC	500	Falun	Sweden
734	.....	10000	Katowice	Poland	931	SBB	10000	Goteborg	Sweden
735	.....	2200	Tartu	Estonia	937	PRAB	500	Rio de Janerio	Brazil
743	.....	1000	Berne	Switzerland	937	COPK	1000	Peking	China
750	LR7	1250	Buenos Aires	Argentina	940	.....	750	Dresden	Germany
750	PRAA	1000	Rio de Janerio	Brazil	940	2RN	1500	Dublin	Irish Free St.
750	.....	250	Marsan	France	949	LR3	1000	Buenos Aires	Argentina
750	7LO	2000	Nairobi	Kenya	949	2GB	1500	Sydney	Australia
750	JOBK	10000	Osaka	Japan	950	.....	500	Marseilles	France
750	EAJ2	750	Madrid	Spain	956	K4	250	Tucuman	Argentina
752	5SC	1000	Glasgow	Un. Kingdom	958	5DN	1500	Adelaide	Australia
758.9	.....	12000	Bucharest	Rumania	959	.....	1500	Krakow	Poland
759	JQAK	5000	Dairen	Kwangtung	963.1	F2BD	480	Agen	France
760	LT4	500	Mendoza	Argentina	967	8DB	100	Aigiers	Algeria
769	JOHK	10000	Sendai	Japan	967.8	.....	2000	Paris	France
769	.....	1500	Franfort on Main	Germany	967	PRAP	300	Pernambuco	Brazil
770.2	.....	8000	Toulouse	France	968	5WA	1000	Cardiff	Un. Kingdom
777.2	.....	500	Rheims	France	977	.....	700	Zagreb	Yugoslavia
779	IGE	1200	Genoa	Italy	980	3YA	500	Christchurch	New Zealand
779	.....	500	Wilna	Poland	983.6	PIAA	500	Lisbon	Portugal
779	4QG	2500	Brisbane	Australia	986	.....	1500	Bordeaux	France
779	LKF	700	Fredrikstad	Norway	990	LR4	2000	Buenos Aires	Argentina
789	ZTD	1000	Durban	South Africa	995	2BD	1000	Aberdeen	Un. Kingdom
789	JOCK	10000	Kumamoto	Japan					
789	LR1	500	Buenos Aires	Argentina					
789	PRAJ	200	Juiz de Fora	Brazil					
789	OAX	1500	Lima	Peru					
789	CWOS	500	Montevideo	Uruguay					
797	2ZY	1000	Manchester	Un. Kingdom					

**1000**

Kcys.	Call	Watts	City	Country
1000	RAZ1	150	Tomsk	Russia
1000	OPX	1000	LaPaz	Bolivia
1006	PH9	6200	Huizen	Netherlands
1009	.....	200	Jyväskylä	Finland
1013	.....	10000	Tallinn	Estonia
1016	CMAO	250	Santiago	Chile
1022	.....	500	Limoges	France
1023	ZUE	125	Sydney	Australia
1023	OKK	2500	Kosice	Czechoslovakia
1029.9	YR	500	Lyon	France
1030	.....	750	Vipuri	Finland
1030	LR9	2000	Buenos Aires	Argentina
1034	CMAJ	100	Valparaiso	Chile
1040	6BM	1000	Bournemouth	Un. Kingdom
1040	6LV	130	Liverpool	Un. Kingdom
1040	2DE	130	Dundee	Un. Kingdom
1040	2EH	350	Edinburgh	Un. Kingdom
1040	6KH	130	Hull	Un. Kingdom
1040	SPY	130	Plymouth	Un. Kingdom
1040	2LS	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	2ZF	150	Palmerston	New Zealand
1049	.....	200	Montpellier	France
1050	DS	.....	Bahia Blanca	Argentina
1058	.....	500	Innsbruck	Austria
1059	.....	2000	Berlin	Germany
1059	.....	1500	Dartmund	Germany
1059	.....	.....	Magdeburg	Germany
1059	.....	750	Stettin	Germany
1059	SCU	300	Varberg	Sweden
1067	.....	1000	Copenhagen	Denmark
1071	PRAR	500	Sao Paulo	Brazil
1071	2KY	750	Sydney	Australia
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

**800**

Kcys.	Call	Watts	City	Country
800	ZTC	1000	Cape Town	South Africa
804	CMAC	1000	Santiago	Chile
806	.....	4000	Hamburg	Germany
808	3LO	2500	Melbourne	Australia
809.2	.....	.....	Seville	Spain
809.2	EAJ5	1000	San Sebastian	Spain
810	JOCK	10000	Nagoya	Japan
810	VUC	3000	Calcutta	India
823	.....	12000	Algiers	Algeria
824	LKB	1000	Bergen	Norway
825	F8CC	1500	Paris	France
828	LR5	2000	Buenos Aires	Argentina
831	JOJK	10000	Sapporo	Japan
833	.....	4000	Stuttgart	Germany
833	PRAE	1000	Sao Paulo	Brazil
840	G5	250	Venado Tuerto	Argentina
840	VU8	3000	Bombay	India
842	2LO	30000	London	Un. Kingdom
849	JOFK	10000	Hiroshima	Japan
849	2BL	2500	Sydney	Australia
851	.....	7000	Graz	Austria
855	EAJ1	7500	Barcelona	Spain
857	EAR5	200	Las Palmas	Canary Islds.
857	ZBW	1500	Victoria Peak	Hong Kong
857	PRAD	500	Rio de Janerio	Brazil
857	CWOR	500	Montevideo	Uruguay
869	.....	.....	Cairo	Egypt
869	JOAK	10000	Tokyo	Japan
870	LR2	3000	Buenos Aires	Argentina
877	OKB	2500	Brunn	Czechoslovakia
882	E4	350	Azul	Argentina
884	.....	700	Bremen	Germany
887	KRC	250	Shanghai	China
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
925	.....	3000	Gleiwitz	Germany

**1100**

Kcys.	Call	Watts	City	Country
1103	.....	1500	Rennes	France
1110	.....	4000	Kaiserslautern	Germany
1110	SCF	150	Hudiksvall	Sweden
1110	SCO	250	Norrkoping	Sweden
1112	LS4	1000	Buenos Aires	Argentina
1119.4	EAJ13	10000	Barcelona	Spain



Kcys.	Call	Watts	City	Country	Kcys.	Call	Watts	City	Country
1123	2UW	250	Sydney	Australia	1471	.....	1500	Ludwigshaven	Germany
1129	SCQ	250	Trollhattan	Sweden	1481	SCM	250	Kristinehamn	Sweden
1132.1	.....	500	Lille	France	1484	SCH	250	Jonkoping	Sweden
1147	2ZM	160	Gisborne	New Zealand					
1148	SNO	1000	Newcastle	Un. Kingdom					
1149	LR8	1500	Buenos Aires	Argentina					
1150	2LO	30000	London	Un. Kingdom					
1153	PRAC	500	Rio de Janerio	Brazil					
1153	2MK	125	Bathurst	Australia					
1158	.....	4000	Leipzig	Germany	1500	2LS	130	Leeds & Bradford	Un. Kingdom
1167	SBH	10000	Horby	Sweden	1515	.....	250	Biarritz	France
1169	CWON	200	Montevideo	Uruguay	1530	SC3	250	Karlskrona	Sweden
1175	MRD	1500	Toulouse	France	1560	G2SH	.....	Akureyri	Iceland
1176	3DB	250	Melbourne	Australia	1635	AFT	10000	Berlin	Germany
1185	.....	4000	Breslau	Germany	2000	RA51	350	Leningrad	Russia
1188	1ZQ	.....	Auckland	New Zealand	2000	RA72	800	Smolensk	Russia
1190	LS2	1000	Buenos Aires	Argentina	2142	.....	500	Surabaya	Netherland
1195.2	EAJ18	200	Almeria	Spain					
1199	5KA	500	Adelaide	Australia	2998	.....	1500	Manaos	Brazil
1199	3ZC	250	Christchurch	New Zealand	3088	.....	2000	Soro	Denmark
1199.5	.....	5000	Bordeaux	France	3446	.....	2500	Haiphong	French Indo
1199	PRAG	500	Porto Alegre	Brazil					

### 1500

1500	2LS	130	Leeds & Bradford	Un. Kingdom
1515	.....	250	Biarritz	France
1530	SC3	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

3529.4	H9XD	.....	Zurich	Switzerland
3750	F8AV	.....	Nogent-sur-Seine	France
3998	PK1AA	500	Batabia	Netherland
				East Indies
4262.3	F8GC	1500	Paris	France
4434	.....	.....	Doberitz	Germany
5169	OK1MP1	5000	Prague	Cze-slovakia
				Netherland
5170	IBR	1000	Bandoeng	East Indies
5290	AGJ	.....	Nauen	Germany
5552	AFT	10000	Berlin	Germany
5879	AIN	.....	Casablanca	Morocco
5996	PK2AF	500	Djakakarta	Netherland
				East Indies
5996	3ZC	250	Christchurch	New Zealand
6057	.....	500	Lynby	Denmark
6662	PH3CH	250	Surabaya	Netherland
				East Indies

6666	7IRAX	.....	Rome	Italy
6877	.....	2500	Rabat	Morocco
6877	SCN	250	Malmerget	Sweden
7005	8KR	.....	Constantine	Tunisia
7055	VS3AB	.....	Johore	Brit. Malaya
7260	VS1AB	.....	Singapore	Brit. Malaya
7313	PK6KZ	500	Makassar	Netherland
				East Indies
7317.1	.....	2000	Paris	France
7462.7	YR	500	Lyon	France
7590	JFAB	.....	Taipeh	Japan
7963	.....	.....	Doberitz	Germany
7995	JHBB	.....	Hirasio	Japan
8818	.....	.....	Para	Brazil
8950	7LO	2000	Nairobi	Kenya
8995	.....	500	Reykjavik	Iceland
9225	2BL	2500	Sydney	Australia
9369	ZTJ	15000	Johannesburg	South Africa
9369	3LO	2500	Melbourne	Australia
9375	.....	1000	Berne	Switzerland
9375	H9XD	.....	Zurich	Switzerland
9375	FL	15000	Paris	France
9488	.....	500	Lynby	Denmark
9761	F2BD	480	Agen	France
9772	EAM	.....	Madrid	Spain
9994	LGN	.....	Bergen	Norway
10520	2FC	2500	Sydney	Australia
10520	2ME	.....	Sydney	Australia
11760	SAS	.....	Karlsborg	Sweden
12490	SQBE	.....	Bahia	Brazil
15300	.....	500	Lynby	Denmark
17430	AGC	.....	Nauen	Germany
17640	PLF	.....	Malabar	Netherland
				East Indies

17778	PHI	40000	Huizen	Netherlands
19355	.....	.....	Nancy	France
59964	PK4PA	240	Palembang	Netherland
				East Indies

### 1200

1200	.....	500	Toulon	France
1219	.....	250	Juan les Pins	France
1219	ON4RW	200	Liege	Belgium
1219	ON4RG	400	Ghent	Belgium
1219	.....	750	Kassel	Germany
1219	.....	700	Kiel	Germany
1219	.....	.....	Abo	Finland
1219	.....	1500	Bjorenborg (Pori)	Finland
1219	.....	750	Jakobstad	Finland
1219	SCB	200	Eskilstuna	Sweden
1219	SCI	200	Kalmar	Sweden
1219	SCL	200	Kiruna	Sweden
1219	SCP	400	Saffle	Sweden
1220	.....	500	Linz	Austria
1224	CMAQ	100	Santiago	Chile
1229	.....	1000	Trondhjem	Norway
1238	2BE	1000	Belfast	Un. Kingdom
1250	.....	500	Nimes	France
1254	.....	1000	Nuremburg	Germany
1265	SCV	200	Orebro	Sweden
1270	LS3	1000	Buenos Aires	Argentina
1281	.....	1500	Muenster	Germany
1287	G4	560	Rafaela	Argentina
1298	SCG	200	Helsingborg	Sweden
1298	SBC	600	Malmo	Sweden
1298	SCS	200	Umea	Sweden

### 1300

1304	.....	.....	Schaerbeck	Germany
1309	SCA	150	Boras	Sweden
1321	.....	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
1375	ON4GT	100	Brussels	Belgium
1375	SCK	250	Karlstad	Sweden
1375	SCW	200	Ormskoeldsvik	Sweden
1379	.....	1500	Flensburg	Germany
1388	ON4CE	200	Chatelineau	Belgium
1390	SCE	200	Halmstad	Sweden

### 1400

1410	D4	100	Mar del Plata	Argentina
1428	LS6	1000	Buenos Aires	Argentina
1470	SCD	200	Gavle	Sweden



# HOW TO TUNE A SET CORRECTLY

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

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 WEF in New York. First we must ascertain the frequency for this station. Look it up under WEF 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 WEF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEF is one of the two stations which have been assigned the 660 keys, frequency by the Federal Radio Commission. We also find that it has a power of 50,000 watts, that it is located in New York City and is owned by the National Broadcasting Co., Inc.

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

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

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

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

Now we tune in some other station, proceeding as before until after an evening or two, we have blanks filled on every page. We are now able to set our dials for any frequency we desire and consequently any station we may want whether we have ever received it before or not.

Our index now becomes of great value to us in identifying programs. Let us say that we hear music at 67-65 on our dials. We refer to our Index by Frequencies and Dial Numbers and we find that we are in tune to 680 kilocycles. On this tune 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 provided 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	76 74
EHQ	4950 Spokane, Wash.	
WCJ	3500 Lincoln, Neb.	
WZB	3500 Boston, Mass.	
WDM	3800 Omaha, Neb.	
WJIC	3800 Hot Springs, Ark.	
600 kilocycles	499.7 meters	73 73
CFCH	2500 Irmo, Ga.	
WJL	3000 Knoxville, Tenn.	
WFO	3000 San Diego, Calif.	
WCO	2500 Baltimore, Md.	
WERW	750 Detroit, Mich.	
WJAN	500 Evansville, Ind.	
WJIC	500 Memphis, Tenn.	
WJIC	500 Hartford, Conn.	
610 kilocycles	491.5 meters	74 72
WJAP	1000 San Francisco, Calif.	
WJAN	500 Philadelphia, Pa.	
WJF	500 Philadelphia, Pa.	
WJG	500 Kansas City, Mo.	
620 kilocycles	483.6 meters	73 71
WJAD	500 Phoenix, Ariz.	
WJL	1000 Portland, Ore.	
WJAE	1000 Tampa, Fla.	
WJHD	1000 Orlando, Fla.	
WJLZ	3500 Des Moines, Ia.	
WJLJ	3000 Milwaukee, Wis.	
630 kilocycles	475.9 meters	72 70
CFCH	2500 Irmo, Ga.	
WJG	500 Yorkton, Sask.	
WJL	1000 Portland, Ore.	
WJL	2500 St. Petersburg, Fla.	
WJL	500 Chicago, Ill.	
WJL	500 Evansville, Ind.	
WJL	2500 Washington, D. C.	
WJL	500 Jefferson City, Mo.	
640 kilocycles	468.5 meters	
WJL	3000 Los Angeles, Calif.	
WJL	500 Columbus, Ohio	
650 kilocycles	461.3 meters	70 68
WSM	3000 Nashville, Tenn.	
660 kilocycles	454.3 meters	69 67
WJL	500 Omaha, Neb.	
WJL	3000 New York City	
670 kilocycles	447.5 meters	68 66
WJL	2000 Chicago, Ill.	
680 kilocycles	440.9 meters	67 65
WJL	3000 San Francisco, Calif.	
WJL	3000 Raleigh, N. C.	

Lois Wagoner, Inc.  
Nebraska Wesleyan University  
Eastern Film Manufacturing Co.  
Woodmen of the World  
Kendall College

Abild Power & Paper Co.  
Wagon N. & Thomas  
African Radio Corp.  
Biometrical Radio Co., Inc.  
Holt College  
Vanguard School of Music  
WALK, Inc.  
Travelers Insurance Co.

Don Lee, Inc.  
Bureau City Star Co.  
Everette International Co., Inc.  
Churchman, Inc.  
Unity School of Christianity

Electrical Equipment Co.  
Crescent Publishing Co.  
Europa Publishing Co.  
Huller College, Inc.  
Thompson I. Cooney  
Rite-Air Journal

Victoria Broadcasting Ass'n.  
Western Grain Exchange  
Knoxville National Railway  
Cannon, Okla.  
Knoxville on the Air, Inc.  
M. J. Lane Co.  
State Marketing Bureau

Eric C. Anthony, Inc.  
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National Life & Accident Ins. Co.

Omaha Grain Exchange  
National Broadcasting Co., Inc.

Chicago Daily News, Inc.

Hull, Hook & The Quinlan  
Durham Life Insurance Co.

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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 \$3,000 a year. Manufacturers continually need testers, inspectors, foremen, engineers, service men, buyers, for jobs paying up to \$15,000 a year. Shipping companies use hundreds of Radio operators, give them world wide travel at practically no expense and a salary of \$85 to \$200 a month. Dealers and jobbers employ service men, salesmen, buyers, managers, and pay \$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.

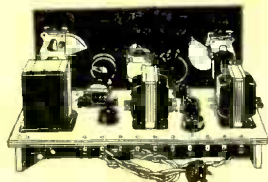
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