

THE OCTOBER 1930

# RADIO INDEX

The Magazine that Doubles the Pleasure of Radio



World Stations Indexed by Countries  
Television is Making Progress  
Electrical Devices that Cause Interference  
The 1930 Football Schedule

No. 42

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

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

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

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

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

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

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

When two stations in the same locality have the same frequency, they are required to divide the time. In this case, of course, it is not possible to tell which one of the two stations is broadcasting at the particular moment we hear it, but we do know it is one or the other of them.

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

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

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

### INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters	76	74	Lois Warner, Inc. Nebraska Wesleyan University Edison Elec. Illuminating Co. Woodman of the World Economic Maintenance College
KHO 1000 Spokane, Wash. WVJ 500 Lincoln, Neb. WEL 500 Brown, Neb. WEL 1000 Omaha, Neb. WEMC 1000 Berkeley Springs, W. Va.	75	73	Anchik Power & Paper Co. Rohrer, N. S., Thomas International Radio Co., Inc. Inhart College Vaughan School of Music Travelers Insurance Co.
600 kilocycles 499.7 meters	74	72	Don Lee, Inc. Kobay City Star Co. National Broadcasting Co., Inc. Crosby Bros., Inc. Unity School of Christianity
CFCH 250 Freonville, Pa., Ont. KFBU 500 Laramie, Wyo. WJ 500 San Diego, Calif. WJAO 250 Baltimore, Md. WJW 500 WJAN 300 Lawrenceburg, Tenn. WJ 500 Memphis, Tenn. WJIC 250 Hartford, Conn.	73	71	Electrical Equipment Co. Gardner Publishing Co. The Radio Club Bullfinch College, Inc. Thompson L. Gentry Milk-Maker Journal
610 kilocycles 491.5 meters	72	70	Victoria Broadcasting Ass'n. Winthrop Grain Exchange Canadian National Radio Columbia Broadcasting System Stephens College Fremont, N. D. M. A. Lester Co. Star-Marketing Bureau
EPCC 1000 San Francisco, Calif. WJAF 1000 Kansas City, Mo. WJAN 500 Philadelphia, Pa. WJ 1000 Philadelphia, Pa. WJ 1000 Kansas City, Mo.	71	70	Radio C. Anthony, Inc. American Insurance Union
620 kilocycles 483.6 meters	70	68	National Life & Accident Ins. Co.
EFAD 500 Phoenix, Ariz. KGV 1000 Portland, Ore. WJAN 1000 Tampa, Fla. WJAO 1000 Orlando, Fla. WJ 1000 Denver, Colo., Me. WJNJ 6000 Milwaukee, Wis.	69	67	Omaha Grain Exchange National Broadcasting Co., Inc.
630 kilocycles 475.9 meters	68	66	Chicago Daily News, Inc.
CFCT 500 Victoria, B. C. GAG 500 CNSA 500 Vancouver, B. C. CNS 250 KRFU 500 Columbia, Mo. WCFP 500 Evansville, Ind. WVAL 250 Washington, D. C. WOS 500 Jefferson City, Mo.	67	65	Hale Bros. & The Chronicle Ducham Life Insurance Co.
640 kilocycles 468.5 meters			
KVI 500 Los Angeles, Calif. WJ 500 Columbus, Ohio			
650 kilocycles 461.3 meters			
WSM 500 Nashville, Tenn.			
660 kilocycles 454.3 meters			
WAAW 600 Omaha, Neb. WJAF 5000 New York City			
670 kilocycles 447.5 meters			
WMAO 5000 Chicago, Ill.			
680 kilocycles 440.9 meters			
KPO 5000 San Francisco, Cal. WJFP 5000 Raleigh, N. C.			

THE OCTOBER 1930



# RADIO IN DEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER  
Editor and Publisher



SEVENTH YEAR

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# TELEVISION is MAKING PROGRESS

## Six-Foot Screen Can Now be Used

UNTIL recently, progress in television was practically at a standstill, at least as far as the public was concerned. After television's first splurge, when very indistinct definition of picture was hailed quite successfully, and only the "peephole" method of picture reception was possible, permitting only one person to see it at one time, this promising plaything was taken back into the laboratory for improvement. So, while the public forgot it for awhile, many important advances have been made, and now television comes out again, growing older and bigger. From the peephole stage it has now graduated to a 6-ft. screen, visible to a large audience. This remarkable improvement is due mostly to the invention of the high-frequency light valve which was of German origin, but was successfully applied to television by Dr. E. F. W. Alexanderson of the General Electric Co. at Schenectady, N. Y.

The light valve is a substitute for the neon tube, formerly used for television reception for the purpose of converting the varying electrical impulses to light waves of corresponding intensity. The glow of the neon lamp can be varied many times per second so that a different value of light is emitted each time one of the pin holes in the scanning disk passes in front of it. When the neon tube is observed from the opposite side of the scanning disk, each hole of the latter describes a horizontal line across the vision hole into which the observer is looking, producing the illusion of a picture consisting of many shaded lines. The variations of shading of each line, of course, determine exactly what you see, and the variations of shading are caused by varying luminosity of the neon lamp. To project the illumination produced by a neon tube on a large screen was found impossible. The strong light of an arc lamp, which is generally used for projection purposes, was then re-

sorted to and this beam of light had to be controlled in the same way as the glow of a neon lamp, which has been accomplished by means of the light valve.

### Obstacles Overcome

There were two obstacles encountered with the use of the arc lamp for this purpose, both of which were successfully overcome. The first obstacle was that when a shutter with a pin hole was used in front of the beam of light, the ray striking the screen did not have a clearly defined edge, and was not confined to a desired portion of the screen. In other words, transverse rays of light, which were at a slight angle to those in a perfectly straight line, had to be eliminated. The second obstacle was that the intensity of the arc light, in its original form could not be varied instantaneously many times per second, whereas this is of prime importance in television, just as in the case of a neon lamp. By converting the original arc-light rays to parallel, polarized rays, both of the above objections were overcome. Transverse rays were eliminated and polarized light rays can be accurately controlled in respect to their intensity by passing them through a magnetic or electrostatic field. The production of such a polarized beam of light was accomplished by passing the rays through a lens system, through a Nicol prism and finally through a nitrobenzol solution, forming the dielectric of a condenser. The signal impressed on the condenser plates bends the light rays a trifle, causing shades of luminosity to appear on the screen after the ray passes through the pin holes of the disk. The light valve just described is thus analogous to the grid of an ordinary radio vacuum tube. Perfect synchronism of voice and television signal is obtained by the fact that both are transmitted simultaneously over different wavelengths, and both are converted to pictures and sound and at the receiving end without any need of using mechanical methods as is necessary in mechanizing sound and pictures in the talkies.

	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		77	78
79		80			81		82			83		84
	85	86	87	88				89	90	91	92	

## For RADIO FANS and PUZZLE FIENDS

**O**UR offer of one of those new RADEX Radio Maps of North America for the correct solution to the September puzzle, just about swamped us with replies. We know that those who succeeded in winning one of the new maps will find the prize well worth the effort. The deadline date for this offer is September 28th and here's hoping you sent in your answer to reach us before that date. This is the correct solution of Mr. Roberts' well-worked-out puzzle: •

WWNC WEW KWKC  
 CMC F C CMK  
 KTLC KOA WFJC  
 Y KFXD CNRL R  
 CFHWF AA  
 WOKOXKFQAKICK  
 L G CMBCW E E  
 WBAKFELK GKXEX  
 WJDXONW  
 X KSCJ WELK W  
 WKJC O GK CFNB  
 KOB A A WBZ  
 CBSW KPQ WPAA

Raymond M. Bell, 55 Wilson Street, Carlisle, Pa., sends in three lists of world stations, each of which contains the full alphabet without duplication. Mr. Bell

uses eight calls in each list and points out that "at present a seven-station list is impossible. There are now no five-letter broadcast calls. Sweden's four-letter calls have been changed to three-letter calls. Thus in your list in June LOV is now LR5 and SMZP is now SCR. In the September list, PHOBI is now PHI and SMZO is now SCH."

In submitting his solution, Howard B. Hubbard, 358 Windsor Avenue, Stratford, Conn., writes: "Horizontal 24-26 is marked 'recently taken over by the N.B.C.' KOA is not a 'recent' acquisition of the NBC. I looked up all the possible K-A combinations and KOA is the only NBC station that fits." When we used the phrase "recently taken over by the NBC" we meant it had been purchased by that corporation and not merely added as an outlet. Until the May RADEX, KOA was shown as the property of The General Electric Co. Beginning with May it appeared as the property of the National Broadcasting Co.

Mr. Hubbard also says: "Vertical 6-25 calls for a 'long-deleted Lansing station.' I have RADEX back as far as mid-summer, 1929, and find no Lansing

station listed." Once in a while, it seems to be absolutely necessary to use a deleted station in order to make up a puzzle at all. We try to limit deleted calls severely but once in a while our puzzlers just must use one. WREO is the station referred to in 6-25. This was for years the station of the Reo Motor Car Co., of Lansing, but has, in fact, been "long-deleted" having appeared last in RADEX in October, 1926.

Hadley Simmonds, 23 Clyde Street, Hamilton, Ont., asks that we publish a short article on the various slogans of the various states in the Union. His point is that readers in Canada do not know that Kentucky is the "Blue Grass State" or that Iowa is "Where the Tall Corn Grows." His criticism is very well taken and we occasionally forget that RADEX is an *international* publication. We will try to remember this in future and not use descriptions which, after all, are localisms. We fear it would not be possible for us to compile the voluminous list which would be necessary.

The cross-call this month was worked out by Edward C. Houlgate, 388 Waterloo Street, London, Ont. It contains two deleted calls but both have died just recently, having appeared as late as the May RADEX. For correct solutions of Mr. Houlgate's puzzle, we offer an extra copy of the November RADEX.

#### Horizontal

- 1-4 A new railroad station
- 5-8 Radio Corp. on an island.
- 10-11 Shares time with two other 500-watters in same state.
- 12-13 In a state having only three stations.
- 15-16 Last two letters of a Canadian printing company.
- 17-18 A daily newspaper.
- 18-19 Frank D. Fallain (reversed).
- 20-21 First two letters of station in I-25.
- 22-24 5000-watt daytime state college station (reversed).
- 25-28 1000-watt college station sharing time with another college in same city.
- 26-29 An insurance company (reversed).
- 30-32 Shares time with Kingshighway Presbyterian Church.
- 34-35 Last two letters of 500-watt daytime station in New England.
- 36-37 First and last letters of sister station of WTAM, just deleted.
- 38-39 Two middle letters of Italian Educational Broadcasting Co.
- 41-43 Shares time with two stations having same owner.
- 44-46 Columbia outlet in the Keystone state.
- 47-49 1000-watts in the "Smoky City."
- 50-52 Pacific Western Broadcasting.
- 54-55 Two middle letters of a labor station (reversed).
- 56-57 Last two letters of grain exchange station.
- 58-59 First two letters of Montivideo stations.

- 61-63 NBC outlet in "The State Where the Tall Corn Grows."
- 64-67 A broadcasting company in Florida.
- 65-68 Formerly Daily News station (reversed).
- 69-71 250-watts in far west with permit to increase power.
- 72-73 Second and last letters of a battery broadcasting company.
- 74-75 On 1420.
- 75-76 An agricultural college in the East (reverse).
- 77-78 First two letters of an insurance company.
- 80-81 C. R. Cummins.
- 82-83 100-watts incorporated (reversed).
- 85-88 One of four 5000-watters sharing wave and time.
- 89-92 A college in the "Show-me" state (reversed).

#### Vertical

- 2-10 First two letters of station now CMC.
- 3-17 Former key station (reversed).
- 4-25 1000-watt Inc. on Columbia chain (reversed).
- 5-29 In Talladega (reversed).
- 6-19 Ten kilowatts.
- 7-13 Last letters of 82-83.
- 9-33 One of thirty-one 100-watters on this wave.
- 11-36 100-watt university (reversed).
- 12-37 In a "Lake."
- 14-40 Last three letters stand for the state.
- 16-23 Last two letters of a Chatham station.
- 18-27 Two middle letters of "News and Journal."
- 20-31 First and last letters of Southern Equipment Co.
- 24-48 On a wave with several Canadian and U.S. stations.
- 30-51 A publishing company on C.B.S.
- 35-55 A French newspaper.
- 38-58 A Canadian university.
- 41-47 First two letters of six stations.
- 42-63 100-watts in Ontario (reversed).
- 43-49 Last letters of Boston station.
- 44-50 First and last letters of pioneer Ohio station.
- 45-69 100-watts Broadcasting Corporation in South (reversed).
- 46-52 Last letters of Chicago Tribune (reversed).
- 53-79 College station on Pacific Coast.
- 56-81 Sunday station deleted this month (reversed).
- 57-82 Last three letters are owner's initials.
- 60-84 Last three letters are the first three of the city.
- 62-73 Last two letters of a station in Jeanette.
- 64-88 Marquette University.
- 66-75 Abbreviation for a kind of current.
- 68-89 Ten k.w. sharing wave with a five.
- 70-77 Last letters of a Canadian member of N.B.C.
- 74-87 500-watt city-owned station.
- 76-90 At the end of the dial.
- 80-86 First two letters of 10-11.
- 83-91 First and third letters of station operating short wave station W9XAA.

Signals from any broadcasting station more than 50 miles distant are subject to fading. Fading is composed not only of a change in volume but also in many cases in a change in the quality of the signals.

\* \* \*

Reinald Werrenrath, celebrated baritone, from now on will be a fixture of the Camel Pleasure Hour, broadcast every Wednesday evening at 9:30 o'clock, Eastern daylight-saving time, over WJZ and associated stations. He has signed a long-term contract to broadcast exclusively for the Camel Pleasure Hour.

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## IN **RADIO**

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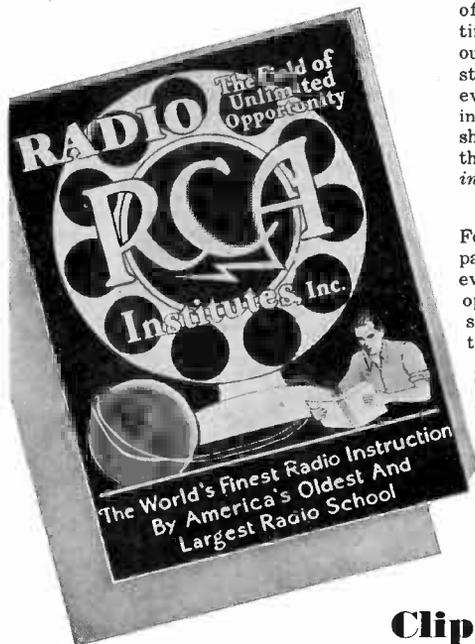
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Please mention RADEX

[ 5 ]

# PRESCRIPTIONS for TROUBLE

By J. B. SMITH  
Technical Editor

*At present I have two 171A tubes in push-pull at the output end of my receiver. I would like to change to 245 tubes, which are said to be superior. Would you advise such a change and what must be done to make it?*

Yes, you will find that better reception and more volume is possible with 245 tubes as they have a greater amplification factor than the 171 tubes, which you are using at present. In order to use 245 tubes in your amplifier it is necessary to reduce the filament voltage to 2.5 volts, increase the plate and grid voltage to 300 volts and insert an 800-ohm resistor in the grid line.

*I have a tuned radio-frequency receiver with a detector and two stages of audio, and it is supposed to be used with an outside aerial. We are now located in a flat where it is practically impossible to have an outside aerial. When we use an inside aerial the set picks up the local stations faintly, and it is entirely impossible to get any distant stations at all where we could get them formerly. What do you suggest?*

If it is impossible to have an outside antenna, which would be the simplest solution to your problem, get a light-socket antenna, which plugs into any convenient receptacle such as a wall outlet and utilizes the entire network of wires in your house-lighting circuit as an aerial. If this does not give the desired results take the set to a radio shop and have one or more screen-grid tubes installed, depending on how many stages of r.f. you have in your set. Most likely new coils having larger primaries will be needed in conjunction with the screen-grid tubes. If you can do the work yourself, well and good, but remember that there are circuit changes to make. I am answering another inquiry which gives instructions how to proceed in making the change to screen-grid tubes which will also be of help to you.

*I have a Case all-electric receiver with a Farrand electro-dynamic loudspeaker*

*which is suspended from rubber bands in order to reduce microphonics. There is a periodic growl in the set which increases in volume as the volume control of the receiver is turned up. Removing the speaker from the set does not remedy the trouble and we are at a loss to locate it, so request your help.*

The plate voltage on your tubes may be too high, causing them to oscillate at times, particularly the r.f. tubes, and also the detector. Try to reduce the voltage on the r.f. plates by cutting a Clarostat in the line, which will enable you to control the voltage accurately. Too much plate voltage on the detector often causes it to be microphonic, or at least increases this tendency, and the reduction of detector plate voltage in the same way as suggested above, may be found an effective remedy. Also try a "howl arrestor" on the detector tube, for it seems to me that your trouble is a microphonic. Another possibility for temporary overloads of plate voltage on your tubes exists in the house-lighting circuit. If it is subject to surges of higher



*Will Rogers who "Squibbs" at 10 p.m. EST Sundays, with his orchestra leader, Freddie Rich, and announcer, David Ross*

voltage, as the case often is, the plate voltage of the tubes is increased proportionally, which may start a howl. Borrow an automatic line-voltage regulator of the better type and connect it between the wall outlet and the receiver cord according to the instructions which accompany it, and note whether or not the trouble continues. If not, it is the solution to your problem. The possibility also exists that the noise is due to external interference such as a motor in the neighborhood. Sometimes the characteristic crackling of motor interference is of such a frequency that it resembles a low growl.

*Our radio receiver works satisfactorily, but when I connect a magnetic pickup unit to it to reproduce phonograph records, the reproduction is muffled. There is a volume control connected across the two leads of the unit and I thought that the trouble might lie here. Another disadvantage of the pickup unit is that it wears out the records in a comparatively short time. Perhaps you can tell me what causes my trouble and how I can remedy it?*

Your trouble is undoubtedly in the pickup unit itself which is perhaps defective or of poor design. The muffled reproduction is not caused by the volume control. If the pickup unit is of the cheaper variety, it may not be correctly designed and may lack proper counter-balance. If it is rather heavy and the whole weight rests on the phonograph record, it is no wonder that the latter is quickly worn out. I suggest that you purchase another unit of the better kind, one that is light in weight and properly balanced. It is also a good idea to have the new one tested before purchasing it. You might have your old one tested at the same time to compare it with the new one which will satisfy you that the trouble really exists in the unit.

*Will you tell me why loop-operated receiver will not tune to the higher wavelengths although the lower wavelengths come in fine?*

If the loop was purchased separately, that is, was not provided with the set by the manufacturer, and therefore not properly matched to the set, the trouble will probably be found right here. Too

*Dorothy Hall, dazzling blond principal of the Broadway Musical Comedy, "Flying High," bakes biscuits in the model kitchen of the Radio Home Makers' Club, a C.B.S. feature*



little inductance of the loop or of the secondary windings of the r.f. coils is to blame for your trouble. Try another loop having more wire on it and consequently greater inductance, and if this does not help, remove the r.f. coils and provide a secondary winding that has at least 10 more turns than the present one. Just how many turns are needed in your particular case depends on how high wavelengths you can get. If a station that should come in near the mid-point of your dials, cannot be brought in at all, quite a number of extra turns will be necessary.

*I have two stages of r.f. in my receiver and would like to install screen-grid tubes. Will you kindly send instructions for doing this correctly, and inform me whether or not such a change would improve reception?*

Screen-grid tubes have more amplification value than ordinary 201A tubes

and for this reason are highly suitable for r.f. amplification, for which they are primarily designed. Ordinary r.f. coils usually have too small a primary winding for use with screen-grid tubes. About three times as much wire should be used as at present for the primaries, or if desired, coils especially made for use with screen-grid tubes, may be purchased. Obtain a filament ballast for each screen-grid tube and connect one in each negative line that runs to the tube socket. The grid lead is removed from the socket and an additional length of insulated, stranded wire is soldered on, the end being soldered to a clip for attachment to the top terminal of the tube. The G-post of the socket is then connected to the B-positive 45-volt line. A fixed condenser of .5-mfd. capacity, is connected across the B-45 volt and filament negative lines. Undoubtedly the rewiring of the set with new coils having larger primaries and the use of screen-grid tubes will cause it to tune broad, which is, of course, an objection if you are fairly close to any broadcasting station.

*On my dry-cell set I am using 4-volt storage battery, which has been satisfactory, but so much corrosion forms on the battery terminals that I began to suspect that the voltage of the charger, which is made for use on 6-volt batteries, might be the cause. It is a trickle charger and its maximum capacity is one-half ampere. Do you think that this charger is injurious to the battery?*

Your 6-volt charger will not injure the 4-volt storage battery. It is excessive current that ruins a battery by charging it too fast, and there certainly is no risk in your case as your charger only passes one-half ampere. Corrosion always forms on storage-battery terminals, especially the positive one. Clean them off thoroughly with a solution of baking soda and water and wipe off dry. Then, after the connections have been properly tightened, apply some soft grease or vaseline to each terminal, using a small brush to apply it and being sure to get the entire surface of the metal covered. This will prevent the air from getting in direct contact with the metal, and thus oxidation, which is largely responsible for the corrosion, is retarded.

*In trying to modernize my old receiver I installed a 210 tube in the last audio stage, using a 7½-volt transformer supplied with raw a.c. to provide filament current, and supplying 350 volts plate potential with a suitable power pack. As an output choke I am using the secondary winding of an old audio transformer, and a 2-mfd. fixed condenser is connected in series between the output choke and the loudspeaker which is of the dynamic type. Low notes do not reproduce and I often notice a certain amount of overloading. Where should I look for the trouble?*

Lack of reproduction of the low notes is caused by the output choke you are using because its effective inductance is too low, and the heavy plate current running through the choke causes a saturation of the core. The remedy is to get a choke especially designed for the purpose and then the condenser can be eliminated as it will not be needed.

*Recently electric buses have been put in operation here. They have a double trolley which is suspended over the street. Since these buses have been put in service, and they run right past our house, there has been so much radio interference that it is impossible to enjoy a program. All the people living within a distance of two blocks on either side of the street as far as the buses travel, are troubled in this way. Many radio service men have been employed but to no avail. Will any change in the sets eliminate the trouble or have you better suggestions how to get away from the interference?*

Interfering signals of the kind you have been picking up on the antenna of your receiver, are like static, practically beyond the control of set owners, and there is really no effective method of preventing this interference from getting into the set by any means employed at the receiving end. The only effective cure for this condition must be made at its source, and therefore it would be advisable to send a neighborhood committee to the bus company to make a complaint. By installing choking and absorption devices much of the trouble can be eliminated and it is up to the bus company to correct the trouble as its

*(Continued on page 18)*

### Byrd's Antarctic Radio Equipment

The advanced types of receivers, transmitters, and navigation aids that triumphed on this epochal flight now fully described in this book.

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Mr. C. F. Jenkins, father of television and radio movies, gives you in his own words complete directions for building practical television equipment.

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Latest types of commercial and amateur short-wave apparatus; directions for securing operator's and station license.

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Radio beacons; arc radio transmitter for ships; Reed course indicator; latest developments in high frequency transmitters.

# New Developments!

Complete Instructions and Data on All Recent Radio Inventions Now Yours For Ready Reference in This One Big Guide Book of Radio



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A Handbook for Students, Amateurs, Operators and Inspectors

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**Prepared by Official Examining Officer**

The author, *G. E. Sterling*, is Radio Inspector and Examining Officer, Radio Division, U. S. Dept. of Commerce. The book has been edited in detail by *Robert S. Kruse*, for five years Technical Editor of Q. S. T., the Magazine of the American Radio Relay League, now Radio Consultant. Many other experts assisted them.

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The latest edition of "The Radio Manual" has just been published. Nearly 600 pages, 369 illustrations. Bound in Flexible Fabrikoid. The coupon brings the volume for free examination. If you do not agree that it is the best Radio book you have ever seen, return it and owe nothing. If you keep it, send the price of \$6.00 within ten days.

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Please mention RADEX

# "THIS is WHAT I THINK"

## Comments Pertinent and Pertinacious

THE appearance of the September issue of this magazine, after a two-months vacation, brings us a number of heart-warming comments. RADEX is welcomed back like a friend that has been on a long trip. Thus Paris C. Brown, 4130 Prytania Street, New Orleans, writes: "I just today received my September copy of RADEX, and you cannot imagine how glad I was to do so and to be able to start to read up on what is going on in this radio world of ours." Mr. Brown also hails the appearance of the new Radio Map of North America, saying: "If you will recall, I have been after you for such a map for the longest kind of a time and I am mighty glad to know that at last you have succeeded in producing it."

Joseph Stokes, 7313 Woodlawn Avenue, Swissvale, Pa., is one of many who write that they miss their RADEX during July and August and hopes we can arrange to print every month next year. We wish we could too but there is no use denying the fact that other interests and hobbies crowd out radio during the summer months. Baseball, golf, touring and other out-of-door sports must have their inning but interest in radio comes back with renewed vigor in the early fall. Radio is, of course, an indoor sport and hence reaches its heights in the winter. By the way, isn't it fortunate that Nature cooperated to give us the very best conditions in the winter-time? Wouldn't it have been just too bad if that had been the static season?

The great majority of our readers secure their RADEX from the newsstands. If they were all yearly subscribers, we would be most glad to publish monthly but as we must reach them through the stands and radio stores and, as we have demonstrated to ourselves at great expense, their interest in the vacation season turns to other things, we find it not only best but absolutely necessary to take a vacation

ourselves during July and August or publish at a loss which, you may not know, is a most unpleasant proceeding.

### Station Queries

"Are KPWF and WCOA off the air? I do not find them listed in the current RADEX?" This from Wilfred Siddle, 3417 7th Court South, Birmingham, Ala. KPWF has had a construction permit for years but we understand the station has never passed the blue-print stage. The government records still shows them as having a permit but we have deleted them until they start something so our readers will not waste their time trying to tune in a station that doesn't exist. WCOA was deleted during the summer.

"There is one thing that RADEX could do for some of us," writes Howard B. Hubbard, 358 Windsor Avenue, Stratford, Conn., "and that is find out whether such stations as WLIB and WBOQ are ever on the air. If they are not, why not delete them? They are just tantalizing." There are a number of stations which, having absorbed others, retain two calls. The government records still show both calls but perhaps one of the calls is never used. Who knows?

Hadley Simmonds, 23 Clyde Street, Hamilton, Ont., submits the facts regarding CCRY. He explains "CHRY was the assigned call of the Hotel Royal York when they first commenced operating under this phantom call. They were given this call temporarily by the Canadian government until reply was received from the Bolivian government which was assigned the prefix letters CP by the International Radio Conference. When permission was received from the above mentioned government to use the letters CP, our government issued the call CCRY to CHRY whose studios are located in the Royal York Hotel (recently built and the largest hotel in the British Empire) as this hotel is operated by the Canadian Pacific Railways of Canada. You may safely list the station as CCRY as I have an Ekko stamp sent by them in verification."

Raymond M. Bell, 55 Wilson Street,

Carlisle, Pa., contributes the information that, a year ago at least, the Santo Domingo station was HIX using 1000 watts on 670 keys. Karl Halpern, 1435 Coney Island Avenue, Brooklyn, N. Y., sends us a clipping stating that all radio communication with Santo Domingo ceased at 4:30 p.m., September 3rd, and that there was an unconfirmed report that the radio station in that city had been demolished by the terrible hurricane then raging. As we now learn that all

rising against the advertising tirades now encumbering the ether?

#### Ekko Stamps

We have received a number of inquiries regarding station stamps and how to secure them. The above-named stamp was devised by The Ekko Company in October, 1924. They produced an engraved stamp which they could print with the call letters of the station to whom they sold a supply. Listeners could send their statement of reception to the

*Musicians and entertainers at WLW, WSAI, in their new costumes of bright blue linen smocks and berets, trimmed with bands of bright red. Left to right, Tom Richley, xylophonist and drummer; Eugene Perazzo, pianist; Don Becker, ukulele player; Louis Chaliff, clarionetist; Ralph Haburton, program manager; and Ray Moore, bass player*



but about 100 buildings in that city of 40,000 were destroyed, it is probable that HIX is in ruins.

"Detroit radio stations will have a newcomer in their midst when station WJBK gives its inaugural program Sunday," says a clipping sent us by Alvin Jex, 110 Cotterberry Street, Sarnia, Ont. "The station will be located on the 21st floor of the Fort Shelby Hotel and will broadcast on a frequency of 1370 keys." The last paragraph is interesting. "The station will not carry any special advertising announcements that are not connected with a musical program by the same company. This is the first time this has been tried out in a Detroit station." Is this a straw indicating that the wind of public opinion is

station with ten cents and, if the report was correct, the station would verify the reception by sending one of these stamps. The company also supplies "Proof of Reception Cards" to make it easier for the listener and an album in which to paste the stamps received. Many listeners have compiled most interesting collections of these stamps but unfortunately they have gotten into the hands of speculators. John Malone, Box 195, Lacon, Ill., sends us a page from another radio magazine which contains an advertisement offering to send three station stamps, no two alike, for ten cents. This, of course, destroys the original purpose of the stamps and throws them into an undeserved disrepute as evidence of reception.



*Harry Green, who plays the title role in the screen production of "Kibitzer," recently heard in the humorous monologue in Hollywood in the Paramount Public Hour, CBS*

A number of stations, in replying to our recent questionnaire, state that they have brought out stamps of their own in an effort to prevent deception.

#### Some Inquiries

"I am captain of a steamboat using d.c. current and would like to put in an electric radio on board but have been told that a.c. sets cannot be used on d.c. current and I don't like a battery set. Is there a d.c. set on the market?" This letter from Mason E. Webster, 602 S. Division Street, Salisbury, Md., caused us to compile a list of manufacturers who make d.c. all-electric sets and we are publishing this list in another column for the benefit of others, who like Captain Webster, have recourse only to direct current.

From Robert H. Silverman, 135 South 17th Street, Philadelphia: "Is there any attachment for a.c. radios that will successfully or partially remove static generated by elevators, electric refrigerators, washing machines and the like?" If these devices are your own you can apply filterettes to each of them which will

eliminate or greatly minimize interference. Write to The Tobe Deutschmann Corp., Filterette Division, Canton, Mass., for a copy of their book "Radio Noises and Their Cure," price 25 cents.

Sergeant O. B. Hutcheson, Ward 12, Water Reed Hospital, Washington, D.C., writes for information regarding a converter that would take 32 volts d.c. and turn out 115 volts a.c. so that a person with a Delco or similar lighting plant could use an ordinary a.c. radio receiver. Such a device was described in the April RADEX. We repeat that it is known as the Kato Konverter and is manufactured by the Kato Engineering Co., of Mankato, Minn.

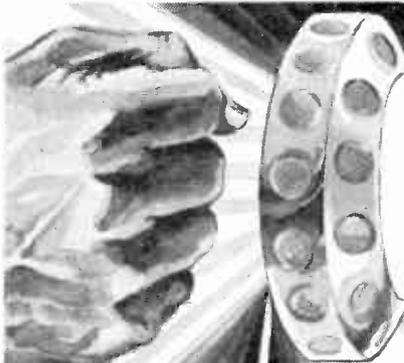
"Can you give me the name and address of some manufacturer or wholesaler who puts out short wave sets or short wave kits?" asks J. G. Van Dyke, Bigelow, Minn. There are many manufacturers both of sets and kits for short waves and any good radio dealer should be able to secure either for his customers. If they cannot, readers may write to us and we will give them the names of houses which can supply them.

#### Miss Brinkerhoff Replies

"In reply to letters sent to you concerning my failure to receive verifications from stations and especially KSL, won't you please print this letter in your next issue in justice to me?" writes Miss Carrie Alice Brinkerhoff, 317 Clinton Avenue, Oak Park, Ill. "It is indeed strange as I wrote to KSL five times, having heard them first November 11, 1929. Once I wrote after a special broadcast of canary birds singing in their studio, once after a religious service, once at Christmas, once after Christmas, 1929, and again when they had their special celebration, but I never received a reply although my name and address was plainly given each time.

"Many times just a postal card to a station has brought to me wonderful replies accompanied by illustrated pamphlets describing their city and station, so KSL still remains a mystery for me but I certainly enjoy listening to them always."

*(Continued on page 14)*



# FACTS

about the Opportunities  
for Making Money in

# RADIO

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Good jobs at Good Pay! Steady, Interesting Work! That's the Opportunity for you in Radio Right Now!

Why? Because the Radio industry now must have many more trained men. Most of those now employed are untrained—they just "picked up" what they know about radio, and even many of them get good pay. But the *big pay, steady jobs* go to the *Trained Men*, and R. T. I. offers you the definite way to prepare for them. R. T. I. training is endorsed by Leading Radio Men and Radio Trade Associations.

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Do you want to get into some branch of Radio where trained men can easily make \$40 to \$50 weekly—where some earn \$75 to \$100 per week—find out how R. T. I. trains you at home for this well-paid work—earn an extra \$10 to \$20 per week in spare hours while learning—Then step into radio and go steadily on up to Big Money.

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Be prepared for Television! Learn Talking Picture Apparatus installation, adjustment, etc. Both of these great branches of Radio are included in the R. T. I. practical training. Why does the radio industry want men trained the R. T. I. way? Because you learn under experts—leading men in different branches of Radio—well-known specialists of high standing.

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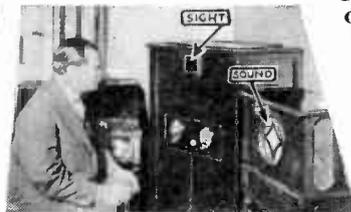
**TALKIES**  
Studio and theatre apparatus requires trained men.



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Trained radio men needed more and more.



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Address \_\_\_\_\_  
City \_\_\_\_\_  
State \_\_\_\_\_

Please mention RADEX

## "What I Think"

(Continued from page 12)

### Wants Time on the Air

"Your magazine is complete in every detail for the dx-ers' benefit except that you do not give the time that a station is on the air." Thus thinks Harry E. Varrelman, 53 Jefferson Avenue, Brooklyn, N. Y. "I suggest that you write to the stations asking for their schedule and then publish it, either in the next issue of RADEX or separately in the manner of your radio map. For example WHAZ is only on Monday night 8 to 12 and Tuesdays 7 to 12. If I hadn't seen this time schedule in a magazine which does not appear any more, I would probably never have heard this station." We have explained before that the full time-on-the-air data regarding each station would be altogether too bulky to warrant our giving it space in RADEX. Mr. Varrelman's idea about publishing it in a separate book which could be retained as permanent reference is a new thought and it might be done. We wonder if our readers would want such a book enough to pay say ten cents for a copy?

### Ships at Sea

"This is a complaint about the interference problem which does not bother listeners of the inland cities," comments F. C. Wilks, Ossining, N. Y. "Many of the ships which come into New York harbor, carry spark sets with notes positively heartrending to listen to. These spark sets cover one end of the dial to the other, something unavoidable fifteen years ago but not today. Why does the Radio Commission allow spark sets anyway?" All we can say is that spark sets are being replaced as fast as possible, on inland waters, at least, but many of the ships entering New York harbor are of course outside the jurisdiction of the Federal Radio Commission as they are ships of other nations. We fear there is no immediate relief from this most annoying and deplorable situation.

### Some Deletions

We are this month deleting the following stations: WBBS, Boston, Mass.; WRK, Hamilton, Ohio; WCHI, Chicago, Ill. Regarding these stations, the Federal Radio Commission writes: "Station

WBBS has not been licensed since July 31st. Their application for c.p. to move transmitter, install new equipment, change frequency and increase power and time of operation, was designated for hearing but no date has been set. WRK has not been licensed since July 31st; no application for renewal of license has been received from this station. WCHI has not been licensed since April 30th. Their application for renewal of license and request to move studio was scheduled to be heard today (September 2nd) but applicants defaulted.

## SETS for DIRECT CURRENT

The following manufacturers are listed as having a model designed for the use of direct current:

All-American Mohawk Corp., North Tonawanda, N. Y.  
American Bosch Magneto Corp., Springfield, Mass.  
F. A. D. Andrea, Inc., Jackson, Orchard and Queens, Long Island City, N. Y.  
Nathaniel Baldwin, Inc., 1601 S. Michigan Ave., Chicago, Ill.  
Carteret Radio Lab., 254 W. 18th St., New York, N. Y.  
Colonial Radio Corp., 25 Wilbur Ave., Long Island City, N. Y.  
Crosley Radio Corp., Arlington Ave., Cincinnati, Ohio.  
Colin B. Kennedy Corp., 212 W. Ewing Ave., South Bend, Ind.  
Philadelphia Storage Battery Co., Ontario and C Sts., Philadelphia, Pa.  
Pierce-Airo, Inc., 113 Fourth Ave., New York, N. Y.  
Pioneer Radio Corp., Plano, Ill.  
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.  
Stromberg-Carlson Telephone Mfg. Co., 100 Carlson Road, Rochester, N. Y.  
Westinghouse Electric & Mfg. Co., 150 Broadway, New York, N. Y.

## A Fine Rugby Cowhide Football **FREE**

Official size, two-piece hand-made bladder with rawhide lace and needle complete. Any boy may secure this fine football by sending us two annual subscriptions to RADEX, or selling 14 single copies.

## THE RADEX PRESS

1367 East Sixth Street  
Cleveland, Ohio

# FOR the DX TOURISTS

THOSE of us who cannot travel around the United States experimenting with radio will be interested in the results of such a trip just completed by Karl Halpern, 1435 Coney Island Avenue, Brooklyn, N. Y. His letter follows:

"Hello, Mr. Editor: Hope you had a good vacation. I have just come back from an auto trip through Canada, Mexico and the United States. There were two of us on the trip. We had a radio installed in the car and we also had a 'Traveler' portable along. Some of the reception was really great. The car was a Dodge. We had the aerial strung around the top of the car—about 120 feet of wire.

"When we arrived at Montreal we could hear the 'Big Four' of New York like some of the locals up there. We pulled in a string of new stations. We totaled 477 stations received for the trip. Boy, some record. The trip took thirty-five days. When we arrived in Texas,

## Readers' Reports of Their Air Travels

the reception was terrible. The Cuban and Mexican stations heterodyne on the U. S. waves. How they can listen to a radio down there is more than I can see.

"While passing through California, heard of some dandy record. A Mr. Wm. MacDonald, of Chula Vista, has received 1222 radio stations. Here is a little dope on three foreign stations: 4YA, Dunedin, New Zealand, on 462 meters, 649 kcys., can be picked up great at about five o'clock EST. 5CL, Adelaide, Australia, on 733 kcys., can also be picked up at about the same time. JQAK, Dairen, Kwantung, on 395 ms. 759 kcys., send me their program. Time of Meridian 120 E. 7:00-7:05 p.m. News, 7:06-7:29 Russian language; 7:33-7:38 Japanese music; 7:41 to 8:46 same.

"With the new stations received on the trip, I now total 756. My best catch is KFIU, Juneau, Alaska, on ten watts, verified. Tell C. M. Falconer, of Baltimore, that I too have a verification from KGU, Honolulu, dated January 9, 1930."

### The World List

The list of foreign stations was compiled by us by checking authentic French and English sources against each other and we felt that it was as nearly correct as was humanly possible to make it. Frank A. Johnson, 317 West Englewood Avenue, Chicago, however, has checked this list against his own record of reception and verification and advises us that he finds many cases of disagreement. Inasmuch as Mr. Johnson has 30 Trans-Pacific stations all verified and over 70 European stations verified, we expect to correct our list as rapidly as possible, benefiting from his experience.

We want this list of world stations to be as authentic as our North American list, although we can probably never hope to have it so. Our readers will readily realize the difficulty of keeping up with changes in world stations, as there is no one source of information but



*Bill and Bertha, of Perkinsville, try to figure out how two can live as cheaply as one and yet eat more. Bill and Bertha are the financiers of Perkinsville, who reach you through WLW on Sundays and Thursdays*

we must try to keep abreast by watching a dozen different reports. We hope our readers will bear with us in this undertaking for a month or two.

### The Buffalo Mix-Up

Last month we showed Station WMAK as having two frequencies which was the only way we could interpret the report of the Radio Commission. J. W. Brauner, 17 East Spring Street, Williamsville, N. Y., sends us the following explanation and we are correcting our records accordingly:

"About the Buffalo situation, WMAK was sold to the Buffalo Evening News, holders of the WBEN construction permit. This transmitter has been completely rebuilt and is scheduled to return to the air under the new call WBEN on September 8th. They will use 1000 watts on 900 kcys. So WMAK should not be listed on 900 any more."

Mr. Brauner comments on our short-wave list as follows: "I have read nearly every radio magazine ever published and I am ready to claim that RADEX is positively the best on the market today. There is absolutely nothing to compete with it. Your only weak spot is the short-wave log which is hopelessly out of date. I don't mind this for I belong to the International Short-Wave Club which has a magazine devoted to short-wave radio and its log is corrected monthly just as your B. C. station log is."

We have found it very difficult to secure a list of short-wave broadcasting stations that were broadcasting regularly and not merely experimenting now and then. There are, of course, thousands of short-wave stations, but only very few are regularly broadcasting programs. We hope to re-arrange this list in the very near future.

### DX Honesty

Mr. Brauner thinks that we ought to make sure in some way that the records we publish are the truth, although he admits that "it is impossible to distinguish between real DXers and just plain liars." We have stated before that for us to attempt to verify statements made to us is utterly out of the question. We can see no possible advantage to

anyone in stretching the truth in reporting DX reception. Mr. Brauner thinks that because some of these records are made in large cities that many other DXers in those cities ought to be able to secure similar results. We do not believe that this follows at all. DXing is a fine art and requires a combination of a great many factors in addition to the highest skill and patience. Because one man succeeds in a certain locality is no indication at all that someone else in that same locality should have similar success. Very probably an identical set a block away would not secure identically the same results.

We find that our reports of DX reception are of great interest to our readers and we will have to continue taking these reports with the belief that they are offered us in the utmost good faith.

### The Short-Wave Club

Regarding the International Short-Wave Club referred to by the above correspondence we quote the following from a letter from Arthur J. Green, President, Klondyke, Ohio:

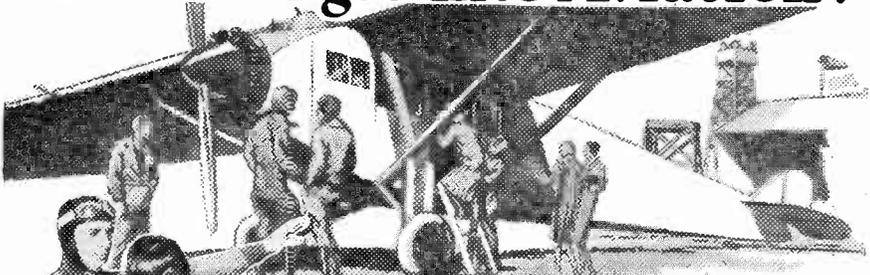
"The International Short-Wave Club is an organization of short-wave broadcast enthusiasts, striving through the interchange of information and ideas to make reception of short-wave broadcasting more interesting. Our membership on the first day of August covered 22 countries and possessions. The fees are one dollar a year, which are expended in printing and mailing a monthly magazine sent to members. This magazine contains all the latest information gathered by our members on short-wave stations, schedules and development in short-wave broadcasting and reception.

"We are pleased to state that on October 4 we are presenting a special program over W9XAA, Chicago, on 49.34 meters. A number of rewards have been donated by dealers in short-wave equipment to be given for excellence in reports on this program. The program will be in English, French, German, Spanish and other languages."

### Another Society

John Malone, Lacon, Illinois, writes us that he is organizing an American  
*(Continued on page 21)*

# "How can I get into Aviation?"



Read this Answer from

## A World Famous Trans-Atlantic Pilot

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

### Walter Hinton

was pilot of the famous NC-4, first plane to fly the Atlantic. He also piloted the first plane from North to South America—and was first aerial explorer of the jungle regions of the Upper Amazon. During the War he was one of the crack flying instructors of the U. S. Navy. He is ready to train you—*right at home*—as he is training hundreds of others—for big pay and a big future in Aviation.

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This FREE Book, "Wings of Opportunity," is your first step to Success. You can take that step—by clipping the coupon and sending for your FREE copy—*right now*.

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Walter Hinton, the world-famous Trans-Atlantic pilot, will train you **QUICKLY**—right at home—for a big-pay place in Aviation. In a course of instruction which experts pronounce the most remarkable ever produced, he will give you the facts about plane construction, motors, theory of flight, navigation, instruments, and a whole lot more. He gives you the practical knowledge you need to fill **ANY** job in **ANY** branch of Commercial Aviation. Furthermore, he helps you get that job—helps you turn his training into actual cash. All over the country, men who are now actively engaged in Aviation owe their start and their success to Hinton. Get the facts **QUICK**. Find out how he can train and start **YOU**. Mail the coupon now.

### Aviation Institute of U. S. A., Inc.

Walter Hinton, President

1115 Connecticut Ave., Washington, D. C.

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WALTER HINTON, President, 377-P  
Aviation Institute of U. S. A., Inc.,  
1115 Connecticut Ave., Washington, D. C.

Send at once my FREE copy of your book, "Wings of Opportunity."

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



Please mention RADEX

[ 17 ]

## Trouble Prescriptions

*(Continued from page 8)*

apparatus is at fault. Where the pleasure of so many citizens is at stake, it would seem only fair that the bus company should take steps to correct the trouble and thus avoid being a public nuisance. If such a complaint does not prove effective in getting results, take the matter up to the city council. At the receiving end, the pickup of such interference can be minimized, it is claimed, by the use of a buried antenna, which can be obtained for a few dollars at almost any radio store or mail-order concern. Such an antenna is entirely shielded and has a lead-covered wire leading to the receiver. Freedom from atmospheric disturbances including static, are the advantages claimed for this product. As mentioned before, the trouble can not be corrected at the receiving end, but it is possible to minimize it.

*In order to improve the tone quality of my set I made up a push-pull audio amplifier using 171A tubes and I provided a B-eliminator that produces sufficient voltage for these tubes. Now there is a high-pitched squeal in the speaker which I cannot cure. Do you think that it is caused by incorrect wiring or by the eliminator?*

Very likely the cause of the squeal cannot be traced to the eliminator. Recheck the wiring with the diagram, and also see that the grid and plate leads do not run close together, do not run parallel to each other, that no plate lead comes close to a grid terminal of the tube socket or coupling device, and that the grid leads are as short as possible. Very often it occurs that such a squeal is due to an unbalanced condition in the push-pull stages, which can be remedied by bridging a small bypass condenser across the secondary winding of the input transformer of the push-pull stage. Any size condenser from .00025 to .001-mfd. capacity can be used for this purpose.

*When I use a baffle board as is customarily recommended in radio magazines, I find that the a.c. hum of the dynamic speaker is greatly increased. Using the speaker without the baffle eliminates the hum*

*entirely. Will it injure the speaker to use it without a baffle?*

Operating a dynamic loudspeaker without a baffle such as is generally recommended, is not injurious to the speaker but defeats the object of the speaker itself, namely the faithful reproduction of low tones which is not usually possible with a magnetic type of speaker. You will notice that the low tones will be heard distinctively when the baffle is used, but that they are ab-



*Here we have the Senator and the Major, Brad Brown and Al Llewelyn of the LaPalina Rhapsodizers, who appear Sunday nights at 8 o'clock EST and Wednesdays at 9:30 over the Columbia System*

sent or very faint without the baffle. The a.c. hum, which is more pronounced when using a baffle, can often be eliminated, or at least minimized, by connecting a uni-lateral condenser of large capacity across the field winding of the speaker, these condensers being made especially for the purpose.

*At times there is an annoying scratching noise of irregular frequency in my speaker. The receiver is a new one and I have not been able to find the trouble. When I remove the aerial I can still get the signals of local stations, but very faintly, and it seems as if the noise is not present when the aerial is thus disconnected.*

The information you give is sufficient to go directly to the seat of the trouble. Inspect your aerial. You will undoubtedly-

ly find that it is brushing against the building or against the branches of a tree, or is grounded in some other way, particularly during wet and windy weather, which accounts for the scratching noise in your receiver. You might install a light-plug antenna, which will eliminate the trouble permanently.

*In experimenting with my set I find that by removing the C-bias from the first audio tube, the volume is increased and therefore I do not see the advantage in using the bias. Also, I have installed two sockets in parallel on the last audio stage. Where one 112A tube was formerly used, I now use two 201A tubes, which produce more volume than the 112A tube. Why are power tubes used when ordinary tubes requiring less voltage and are cheaper, give better results?*

The sole object you had in mind when making the changes in your receiver was volume without consideration of tone quality. I admit frankly that you have achieved your object but only at a sacrifice of factors usually held far more important than volume. The last few years manufacturers of receivers have made remarkable progress in making receivers that will deliver excellent tone quality. This has been done by improving the speakers, circuits and in providing power tubes. Although the 112A tube does not give the loudness you desire, you will nevertheless find that it gives pure and clear reproduction without any appreciable distortion. Distortion is also produced by removing the C-bias on the first audio stage, which will be noticed by those who can distinguish between a pure and a false tone. This characteristic can even be detected by means of a milliammeter cut in series with the plate lead of this tube. You will then notice that the needle fluctuates badly when no grid bias is provided.

## SEPTEMBER GIRL

Inadvertently we failed to give in last month's issue the interesting information that the winning personality illustrated on our cover was that of Ginger Rogers, the well-known movie star, who recently appeared in a Columbia program.

## A Peculiar Ground

IN an interesting letter, Mrs. L. R. Ledbetter, 1004 Belmont Street, Vicksburg, Miss., describes a puzzling result she recently achieved in experimenting with a ground. Perhaps others may want to try this device. Her letter follows:

"First I want to thank you for your answer to my inquiry of some months ago. It is remarkable—the individual attention RADEX gives its subscribers.

"I would like very much to know if you can give me a solution for a very unusual thing—at least unusual to us. Having recently moved and having no ground connection, I decided that was the cause of so much interference even though I seldom used the ground wire at the other location except on the short antenna post, at the same time using the regular antenna on the other post, thereby getting more and better reception.

"This morning I located a ground wire that had been used for a telephone, evidently, which was running right into my room through a hole in the outside wall. I had no insulated wire so proceeded to use regular twisted lamp cord. I connected one of the two wires of this to the ground post on my set (an eight-tube and ballast Brunswick) and one wire to the ground wire. Immediately the noise disappeared and volume increased. And here is the problem:

"I found by inspection that I was using the brown striped wire on one end and the red striped on the other! I untwisted the wires and used *one*—and again reception was entirely spoiled by crackling noises. The radio dealer told me to connect *both* wires to each end—and that doesn't work. I believe that the principle employed in the ground is the same used in making socket antennas, is it not? It certainly appears absurd to me, but I most positively had to twist those wires back together and use them as I had at first."

Mrs. Ledbetter is quite right in her assumption that she accidentally used the same principle as is employed in socket

*(Continued on page 22)*

## NEW MAP is a BEAUTY

THE long-promised Radio Map of North America is now off the press and ready to mail. We are sure our readers will agree that it is well worth waiting for. The two-page map formerly included in each copy of RADEX, was altogether too small to serve the purpose. Then, too, it showed only the United States and our friends in Canada, Cuba and Mexico were entirely out of the picture. At first we planned to replace this map with a four-page insert but we found that even four pages were too few in which to show all the stations from Edmonton and St. Johns, on the north, to NBA and TIX, on the South. We therefore decided to get out something really worthwhile.

The new map occupies a space equivalent to twelve pages of RADEX. It is printed in two colors and is marked in squares approximately 100 miles across. To avoid confusing detail all geographical markings which have nothing to do with radio are omitted. The name of every city in which a broadcasting station is located, is clearly shown in its proper place. The squares are keyed to correspond with the symbols following the names of each city in the Index by States and Cities. Thus any city desired may be instantly located by referring to this key.

At the bottom of the map is a scale of miles so that the distance between any two cities on the North American continent may be quickly found. This, we believe, is far preferable to the old Table of Distances on which it was possible to show only one city in each state. The time zones are accurately marked in color according to the latest laws and regulations. The Index by States and Cities is reproduced in the map just as it appears in each issue of RADEX. In addition there is a short course in scientific tuning with a sample page of Index by Frequencies for the use of those who have never learned the pleasure there is in tuning a radio set by the RADEX method.

The map is bound in a cover similar to the parent publication and, on the whole,

is a child of which RADEX is quite proud. The price of the new map is twenty-five cents but, for a limited time, we are offering a copy free with each yearly subscription to RADEX, or both a map and a leatherette cover free with either two subscriptions for one year or one subscription for two years.

## RADIO as YOU GO

Radio has joined hands in earnest with the automobile this year to spread entertainment to the highways of the country.

While the idea of installing a receiver in the motor car is about as old as broadcasting itself, the plan is attracting wider attention now that better receivers are being built to function out where the tall structures of the city blend into a horizon that is broken only by waving trees and fields of grain.

In the past, difficulty was encountered in building a receiver that would operate properly when bumping along any kind of a country road. Now such receivers, which are battery supplied, have been improved in design to the point where vibration of the tubes has been practically overcome.

Radio in an automobile does much to ease the strain of a long drive, according to Lieut. Donald S. Leonard of the Michigan State Police, who has just returned to Detroit from a long tour to Washington, D. C., New York and Philadelphia in a police patrol car equipped with radio. "Passengers are less inclined to talk to the driver while listening to a radio program," he says.

The cast of Mystery House, NBC's serial melodrama which has been running for many months, is wondering if the following letter from a member of its audience in Washington, D. C., is a knock or a boost:

"I am an old lady 92 years of age, and I would appreciate it if you will advise me if Mystery House is near an end as I should like to know what the conclusion will be before I die."

## The DX Tourists

(Continued from page 16)

branch of the Anglo-American Radio Society, whose English offices are at 11 Hawthorne Drive, Willowbank, England. While the plans for this organization are not entirely complete, Mr. Malone outlines a number of activities which will be undertaken including a radio contest to be held between October 11 and April 11.

Other clubs devoted to radio include the following: Newark News Radio Club, Irving R. Potts, President, 215 Market Street, Newark, N. J. Chicago Daily News DX Club, Charles J. Gilchrist, Secretary, care The Daily News, Chicago, Illinois. Buffalo Evening News DX Club, E. K. Bame, Secy.-Treas., 16 Kaufman Road, Buffalo, N. Y. The Evening Telegram Listeners' Club, 233 Bay Street, Toronto 2, Canada, Mr. Young, Radio Editor. If our readers know of any other clubs which are functioning we will be glad to learn about them.

### DX Comments

F. C. Wilks, Ossining, N. Y., reports the reception of KHIJQ, the airplane "New Arbella," which was on tour of the United States celebrating the Tercentenary of Massachusetts' founding. It was on the third harmonic of 230 keys.

Ralph D. Ohlweiler, 19 Taft Street, Southbridge, Mass., reports hearing VAS many times last winter, but states that he has been unable to secure verification. We doubt whether VAS will verify, as this is a commercial station which broadcasts weather reports to fishermen on behalf of the Canadian government. Mr. Ohlweiler states that he has now received stations on 95 of the 96 broadcasting channels.

"I have a nine-tube all-electric set and no two tubes are matched, in fact they are all a different make. Notwithstanding this, I have dialed over 410 stations in the United States alone and have one recorded from every state in the Union." This report is from Wm. Bowers, Toledo, Ohio. "Have dialed 18 Canadian stations, five in Mexico, five in Cuba, and HHJ in Haiti. Picked up KPPC, a 50-watt station in Pasadena,

Calif. On July 7th I picked up the following western stations: KFI, Los Angeles; KHJ, Los Angeles; KNX, Hollywood; KFAD, Oakland; KSL, Salt Lake City; KOA, Denver; KFEL, Denver; KEX, Portland; KJR, Seattle, and KMIC, Inglewood, Calif. I have verifications from all these stations." This is certainly some record for a mid-summer day.

Cadet Theodore H. Erbe, of the McDonogh School, McDonogh, Md., a member of the Newark News Radio Club, reports that 2XIP, at Horseheads, N. Y., has shut down. N. Tuchinsky, 3436 Filbert Street, Philadelphia, reports that among his best catches are WNAD, Norman, Okla., CFCN, in Calgary, CFBO, in St. Johns, N. B., and HJL, in Bogota, South America. He asks for the correct frequency of 2YA in Wellington, New Zealand, 2BL in Australia, and JOAK in Japan.

"Three or four months ago you published a letter of mine regarding my log," writes Alan Locklin, 150 Brampton

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Road, Syracuse, N. Y. "I have received many letters asking as to the make of my set, length of aerial, etc. I use a Zenith Colonial using three 227, six 226, one 210 and one 281 tubes. My ground is a cold-water pipe and my aerial is 75 feet long and about 40 feet high. I get all of my DX on the loud-speaker, as I never use headphones."

"The best catch I ever made," writes Joseph J. Becker, 415 South 11th Street, Hamilton, Ohio, "was KFPM, Greenville, Texas, on 1310 kcys. and using only 15 watts. For a ground, I drove a 5/8-inch copper wire and a one-inch copper pipe in the earth for about five feet and I connected my ground wire to these and soldered it firmly. Every other day I water my copper ground and I find this ground is much better than a water pipe. I have a long aerial of about 85 feet and a short one of about 30 feet.

R. A. Butts, 203 South Main Street, Ellensburg, Wash., describes his unusual ground as follows: "It consists of one sheet of copper 28 x 40 inches and nine old, heavy-duty "B" batteries buried ten feet in the earth. I find that this ground improves my radio reception about 85%."

### A Peculiar Ground

*(Continued from page 19)*

aerials, namely that of the fixed condenser. Using one of two twisted wires at the set end and the other at the ground end really made a condenser which by-passed into the ground the high-frequency current while there was no actual connection of set to ground. The current passed by induction from one wire to the other and, in Mrs. Ledbetter's case, gave happy results though why this was so, we will have to leave to the engineers to decide.

**The New Radio Map  
is FREE with a year's  
Subscription**



*Henry Burbig*

**C**ONSIDER yourself introduced, please, to Henry Burbig. And don't bother apologizing for your glove. All he cares about is making you laugh. And that has been his task for more than three years on the Columbia Broadcasting System. Long before this, however, he began to special in laughs.

His nurse testifies that he giggled instead of cried in the cradle. But the earliest authentic record of his professional activities starts in his fourteenth year. At this not-so-tender-age—like Byron, Bryant, and other child wonders—he managed to bring a pencil into contact with a piece of paper, and turn out some sentences with a title attached, "Levinsky's Wedding" he called it.

Well satisfied with himself, he rushed to an actor friend, who rushed him in turn to a booking agent, and this gentleman, to complete the concatenation, rushed him into vaudeville, an odd haven for such a young fellow. But as good a starting place as any for the circuitous road to theatrical success.

"I set to work at once," Henry explained blandly, "playing one town after another, but when I reached Syracuse my dad caught up with me, and hauled me back to school."

"So I began wrestling again with the three 'R's' and learned the essentials of forgery in order to doctor up my report card. I finished somehow, and actually forded my way into Fordham, to study real doctoring. Six months of this was enough. I hungered for the footlights

and the fame, and finally threw up the chances of having a doctor's office with the usual old magazines, to return to the cackination business.

"Once back in vaudeville, I played every state in the Union, including Oshkosh, taking time off to play only Tom Thumb golf, miniature pool, or perhaps it was Lilliputian lotto.

"Finally my act gave way to my digestion. Food out in the one night stands put me on the blink, so I walked back to New York, and began all over again. Took a job at Dr. Rhenish's Health Institute and started in violently developing other people's biceps!"

Soon after, Henry was stationed at a

out, found a spot on the Vitaphone Hour with Eddie Cantor, signed up with CeCo and appeared over the Columbia Broadcasting chain. Now he's doing something new, "Syncopated Histories," preparatory to the series for Necco, beginning September 6th.

Henry is easily recognizable in a crowd, if the crowd isn't too big. He leans toward rotundity. His cheeks are round and pink and he's always in the pink of condition, except when in love. And he is always in love because he is continually afraid that nobody loves a fat man.

"I have qualities, I suppose," he admits modestly, when describing himself. "My eyes are large and glowing.



Members of the Hank Simmons' Show Boat Company gathered around their big birthday cake recently to celebrate their second year on the air. A good time was had by all. Left to right: Edith Thayer (Jane McGrew), Frank Readick (Happy Jack Lewis), Laurance Grattan (DeWitt Schuyler), Edith Clinton (Lettie Simmons), Brad Sutton (Frank Miller), James F. Ayers (George Morris), Harry Swan (Joe Carroll), and Elsie May Gordon (Maybelle).

New York hotel as director of the hostelry gym, a happy circumstance. For across the hall was the hotel radio station. Henry made friends with the announcer there, and he, in turn, made friends with Henry. Between visiting biceps, radio and risibilities the two almost lost their jobs.

Then all of a sudden Henry read "Levinsky's Wedding" over the air, gratis, and from that time on he shot as fast as a fat man can shoot, to fame. One thousand letters poured in the next day to attest his worth; and one thousand more when he graciously read, gratis again, "Little Red Riding Hood." The air being everywhere, Henry spread

I have big feet and an asthmatic wheeze. Under strictly critical conditions, I have a magnificent capacity for looking stupid."

Henry's theories about laughter and the radio—"A twist of a word does it," he says. "Just making black-eyed Susan a cock-eyed blossom.

"It's the most serious work I know, my part in being funny. And aside from talking about myself, I like nothing better than talking about myself."

Back of this insouciant self-satisfaction, Burbig has a through-going interest in comedy. He slaves over his pieces. He tries them out on his friends. He gives his audience the very best of which he is capable.

# HIGH FREQUENCY INTERFERENCE

By G. R. WALTERS

ONE of our really big problems in the matter of radio interference is high frequency. Perhaps you know it by some other name such as Violet Ray, X-ray and diathermy.

We can dismiss X-ray from our discussion for several reasons. In the first place X-ray machines are almost invariably installed by factory experts in down-town office buildings. These rooms are shielded and unless they are being used in the treatment of cancer or some diagnosis, they are only operated for a few seconds at a time. They are seldom used at night and they operate at frequencies outside of the broadcast band. X-ray machines except in extremely rare cases, do not disturb radio reception.

I wish I could say as much for Violet Ray and diathermy. The operation of a professional size diathermy can be heard in a radio receiver at distances varying from one block to five miles. When one of these machines is in operation all radio reception must cease within a radius of four blocks. In many cities the practitioners using these machines have established themselves in purely residential districts. Some of them give treatments far into the night.

I can best describe the noise they make as a continuous buzz which starts suddenly and continues from fifteen to twenty minutes. It covers the entire broadcast band if you are close to it and peaks around the center of the dial if you live some distance from the source. The volume of this interference is so great that it will split the parchment of a dynamic speaker. In several cases they have ruined radio tubes. It requires a somewhat elaborate job of filtering and screwing to correct this interference.

This equipment can be silenced. I have operated a radio receiver within five feet of a diathermy which was properly shielded and filtered and heard no interference.

The four walls, the ceiling and the floor should be covered with what is known as sixteen mesh iron screen which

should be thoroughly grounded. This can be covered with plaster board or celotex and cannot be seen. A filter on the service line will permit none of the interference to either radiate or feed back on the lines. When this is done a next door neighbor can use a radio without interruption and the practitioner can give treatments with a clear conscience.

In Southern California within the service range of KFI-KECA, there are twenty-three ordinances which make it unlawful to operate equipment which creates preventable interference. Some of these protect the radio listener between the hours of 6 and 11 p.m. and others for the full twenty-four hours.

A word to those who have received specifications on antenna and grounds. There is only one proper way to install it. First, you must not use ordinary wire for your lead-in but the kind with either lead or metal covering. Your dealer will tell you about it if you ask him. Perhaps this wire is not available everywhere but your dealer can get it for you.

Try to place your antenna about thirty to thirty-five feet from the ground. Do not connect your antenna to this shielded wire until you have removed all interference from your radio receiver. You may need a filter to do this. And once more let me tell you that unless you have interference present in your set, it would be a useless expenditure to install one.

I would suggest that you make your installation in such a manner that you can disconnect the ground wire from the metal sheath of this if necessary. When you do this you have a regular antenna such as we have always known.

If you are using a pipe and salt ground, hammer the end together or to a point, it will drive easier. Drill a series of holes in the side walls of the ground pipe. Get a one-half inch cap to screw on the threads to protect the top end when you drive it into the ground.

Turn the hose on this ground occasionally. You will have a moist ground which improves your reception.

# Football is Coming

**F**OUR of the best intersectional football games of the season are included on the schedule of broadcasts from WABC and the Columbia network.

Ted Husing, sports announcer, will open the radio football season with the Army-Boston University game at West Point, September 27. The following Saturday, October 4, he will be in the new stadium at South Bend, Ind., for the first important intersectional contest — Notre Dame and Southern Methodist.

There will be a break in the schedule following the October 4th game at South Bend for the World Series broadcast. Then the season will get under way in earnest, with the Army-Harvard encounter at Cambridge, October 18th.

Princeton will travel to Chicago November 1 to do battle with Chicago University, while the Illini will invade New York on the following Saturday, November 8th, to fight the Army at the Polo Grounds. These battles between the East and Middle West will be followed by two Eastern classics, the Yale-Princeton game at Princeton November 15th, and the Penn-Cornell Thanksgiving game at Philadelphia November 27th.

The complete schedule of broadcasts follows:

September 27 — Army-Boston University, at West Point.

October 4 — Southern Methodist-Notre Dame, at South Bend.

October 11 — (World Series.)

October 18 — Army-Harvard, at Cambridge.

October 25 — Notre Dame-U. of Pittsburgh, at Pittsburgh.

November 1 — Princeton-Chicago, at Chicago.

November 8 — U. of Illinois-Army, at New York.

November 15 — Yale-Princeton, at Princeton.

November 22 — Penn-Cornell, at Philadelphia.

November 29 — Army-Notre Dame, at Chicago.

## A BOOK FOR THE BEGINNER



**T**HE science of radio presents a fascinating study, and many would like to understand the theory and practice of transmission and reception. Why do the sounds made in a broadcasting studio become reproduced in your home, when no sound travels between the station's transmitter and your receiver?

What does the station do, what does your receiver do, to accomplish the result? What circuits are used? What are the different types of receivers and their respective advantages?

Find out all the desired particulars in the first book on radio to be written for the sheer novice—"Foothold on Radio," by J. E. Anderson, M.A., and Herman Bernhard, LL.B. The book is written in plain, simple English, and the treatment is non-technical and non-mathematical. Anyone who can read English can understand what's printed in this illustrated book, published May, 1930.

**A**NOTHER new book by the same authors, entitled, "The Superheterodyne," is intended for those technically versed who desire complete understanding of the theory, construction and operation of the Superheterodyne. Constructional chapters deal with a practical receiver based on the theory. Published June, 1930.

**A**THIRD volume by Anderson and Bernhard is entitled "Audio Power Amplifiers," also technical.

The book begins with an elementary exposition of the historical development and circuit constitution of audio amplifiers and powering sources.

*Radio World*, the first and only national radio weekly, ninth year, publishes all the latest news and circuits of radio. Its technical presentations are highly authoritative. Construction of ultra-sensitive and selective circuits and of superb power amplifiers is featured regularly. Subscribe for *Radio World* and follow the developments on pentodes, Loftin-White amplifiers, band pass filters, pre-tuners, Superheterodynes, screen grid tubes, push-pull, etc.

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# CLIPPING the AIR

## By the "PRETZELITE"

You needn't be afraid of losing two of your radio favorites.

Amos 'n' Andy and Rudy Vallee will be with you for some time yet.

The famous blackface stars have just signed a five-year contract with NBC, and Vallee has signed an agreement calling for him to appear in 70 more Thursday evening concerts beginning September 4th, when his present contract expires.

Amos 'n' Andy now are beginning their eleventh year in radio.

Firemen enjoy their Amos 'n' Andy! Recently an Auburn, N. Y., woman, learning that an apartment house occupied by her daughter was on fire, dashed to the place to see what damage had been done. There she found six "smoke eaters" who, having hastened through with their work of extinguishing the blaze, were quietly standing in the hall listening to the Amos 'n' Andy broadcast from a radio in the apartment.

A demonstration of the uncanny ability of radio waves to penetrate the depths of the earth and even pass through solid rock was given by scientists near Chattanooga, Tenn., last week when a radio set was installed in a cave on Lookout Mountain.

The set was operated for ten days. When it was operated 500 feet underground, it was possible to tune in on both local and distant stations with good reception.

When, however, the set was moved down to 1000 feet, some trouble was encountered with distant stations, although the local broadcasting came in clearly.

An almost human radio receiver, which tunes itself automatically to a predetermined series of broadcasts at definite times throughout the day, was demonstrated yesterday by the manufacturers of Lyric radios, the Rudolph Wurlitzer Manufacturing Company.

With this new device a listener may find in the newspapers the programs he wishes to hear during the day and set his radio accordingly, and at each specified hour the set is automatically tuned in to receive the desired station.

Arthur L. Lippmann, one of the most prolific contributors of magazine verse in America, is the latest recruit to radio from the ranks of popular writers. The National Broadcasting Company has announced that a new radio column conducted by Lippmann, will take to the air over WJZ Tuesday night at 7:15 o'clock. The program will be known as the Benrus Columnist, under the sponsorship of the Benrus Watch Company, of New York. There will also be music by a novelty orchestra under the direction of Ross Gorman.

Station KDKA will make its first tests under the new 400,000-watt license within three weeks, Westinghouse officials announced today.

The Federal Radio Commission has issued a permit to make tests under the new power between the hours of 1 and 6 a.m. At all other times the station must operate under its original power of 50,000 watts.

First tests will be broadcast from the new station at Saxonburg, 10 miles from Pittsburgh. The 400,000-watt power will make KDKA the most powerful station in the world.

A special radio station with a world-wide radius, to be used in time of emergency, will be established for the League of Nations at Geneva, according to the terms of an agreement signed on behalf of the League and the Swiss Government, the Department of Commerce is informed through a British press report received from its offices abroad.

Under ordinary conditions it is to be run by the Radio Suisse Company. When it is run by the League, the Swiss Government will be entitled to have an observer present, the report states.

# KEY TO CHAIN STATIONS

CFRB 960 C	KOL 1270 C	WBRC 930 C	WFAN 610 C	WJJD 1090 C	WOWO 1180 C
CKAC 730 C	KOMO 920 N	WBT 1080 C	WFBL 1360 C	WJR 750 N	WPG 1100 C
CKGW 690 N	KPO 680 N	WBZ 990 N	WPBM 1230 C	WJZ 760 N	WPTF 680 N
KDKA 980 N	KPRC 920 N	WBZA 990 N	WFI 560 N	WKBN 570 C	WQAM 560 C
KDYL 1290 C	KRLD 1040 C	WCAE 1220 N	WFIW 940 C	WKIW 1480 C	WRC 950 N
KECA 1430 N	KSCJ 1330 C	WCAH 1430 C	WFJC 1450 N	WKRK 550 C	WREC 600 C
KFAB 770 N	KSD 550 N	WCAO 600 C	WFLA 620 N	WKY 900 N	WREN 1220 N
KFH 1300 C	KSL 1130 N	WCAU 1170 C	WGN 720 N	WLAC 1470 C	WRR 1280 C
KFI 640 N	KSTP 1460 N	WCCO 810 C	WGR 550 N	WLBW 1260 C	WRVA 1110 N
KFJF 1480 C	KTAR 620 N	WCFL 970 N	WGST 890 C	WLBZ 620 C	WSAI 1330 N
KFKX 1020 N	KTHS 1040 N	WCKY 1490 N	WGY 790 N	WLIB 720 N	WSB 740 N
KFPY 1340 C	KTRH 1120 C	WCSH 940 N	WHAM 1150 N	WLIT 560 N	WSM 650 N
KFRK 610 C	KTSA 1290 C	WDAE 1220 C	WHAS 820 N	WLS 870 N	WSMB 1320 N
KFSD 600 N	KVI 760 C	WDAF 610 N	WHEC 1440 C	WLW 700 N	WSPD 1340 C
KGO 790 N	KVOO 1140 N	WDAY 940 C	WHK 1390 C	WMAK 900 C	WSUN 620 N
KGW 620 N	KWK 1350 N	WDBJ 930 C	WHO 1000 N	WMAL 630 C	WTAG 580 N
KHJ 900 C	KYW 1020 N	WDBO 1120 C	WHP 1430 C	WMAQ 670 C	WTAM 1070 N
KHQ 590 N	WABC 860 C	WDOD 1280 C	WIBO 560 N	WMC 780 N	WTAR 780 C
KLRA 1390 C	WADC 1320 C	WDSU 1250 C	WIBW 580 C	WMT 600 C	WTIC 1060 N
KLZ 560 C	WAIU 640 C	WEAF 660 N	WIOD 1300 N	WNAC 1230 C	WTMJ 620 N
KMBC 950 C	WAPI 1140 N	WEAN 780 C	WISN 1120 C	WNAX 570 C	WTOC 1260 C
KMOX 1090 C	WBAL 1060 N	WEBC 1290 N	WJAR 890 N	WOAI 1190 N	WWJ 920 N
KOA 830 N	WBAP 800 N	WEI 590 N	WJAX 1290 C	WOC 1000 N	WWNC 570 C
KOIL 1260 C	WBBM 770 C	WENR 870 N	WJX 900 N	WOW 590 N	WXYZ 1240 C
KOIN 940 C	WBCM 1410 C	WFAA 800 N	WJDX 1270 N		

## 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 WEAJ and WJZ; those of the Columbia Broadcasting System with WABC.

*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**  
WGR CKGW  
WEAF WEEL WCAE WFI WRC WGY

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

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

**9:00-9:15 Quaker Crackels Man**  
WLW WLS WRC WJR KWK WREN  
KFAB WTMJ KSTP WEBC

**9:00-9:30 Something for Everyone**  
WABC WMAL WHP WJAS WHEC WKBW  
WHK WKRC WAIU WKBN WMAQ KMOX  
KOIL KMBC WIBW KFH WBCM WSPD  
WMT WWNC WDBJ WBRG WDDO WREC  
WLAC KLRA KFJF WPG WBT

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

**11:15-11:45 Radio Household Institute**  
WEAF WJAR WTAG WCSH WLIT WRC  
WHAS WSM WMC WSB WGR WCAE  
WWJ WSAI KFCK WTAM KSD WOW  
WTMJ KSTP WEBC WAPI WSBM KTHS  
KVOO KPRC WOAI WKY WEEL WGY

**12:00-12:30 Columbia Revue**  
WABC WEAN WNAC WLBZ WFAN WCAO  
WMAL WHP WJAS WLBW WFBL WHEC  
WKBW WAIU WKBN WOWO KMBC WISN  
WIBW WBCM WWNC WDBJ WGST WDDO  
WREC KRLD KLRA KFJF KLZ KFRC  
KVI KFPY WPG KOL WDAY WORC

**1:30-2:00 Harold Stern and Ambassador Orchestra**  
WABC WEAN WLBZ WFAN WCAO WMAL  
WHP WJAS WLBW WHEC WMAK WADC  
WAIU WOWO WBBM KMBC WCCO WIBW  
KFH WBCM WMT WTAR WBRG WDDO  
WREC KLRA KFJF KH KFPY WDAY

**1:45-2:30 National Farm and Home Hour**  
WJZ WHAM KDKA WJR WLW KSTP  
WJZ WRVA WPTF WJAX WHAS WSM  
WMC WSB KVOO WKY WOAI WRC  
WEO WIOD WDAF KPRC WJDX WBAL  
WSMB WLOW KWK WREN KOA WBZ  
WFAA KFAB WAPI KTHS WFLA WSUN  
KFXY WOC WBZA

**3:00-3:30 Columbia Salon Orchestra**  
WABC WEAN WNAC WCAU WCAO WMAL  
WHP WMAK WADC WKRC WAIU WKBN  
WFBM KOIL WISN WIBW WGL KFH  
WBCM WSPD WMT WWNC WTAR WDBJ  
WBRG WDDO WREC WLAC KLRA KFJF  
KLZ KFRC KVI KFPY WPG WDAY  
WORC WBT

**3:30-4:00 Columbia Educational Features**  
WABC WEAN WNAC WCAU WCAO WMAL  
WHP WMAK WKRC WKBN WFBM WMAQ  
KMBC WISN WCCO WIBW KFH WBCM

WSPD WMT WWNC WTAR WDBJ WDDO  
WREC WLAC KLRA KFJF KLZ KDYL  
KVI KFPY WPG WDAY WBT

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

**6:45-7:00 Uncle Abe and David**  
WEAF WEEL WJAR WCSH WFI WRC  
WCAE WTAG

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

**7:00-7:15 The Crockett Mountaineers**  
WABC WLBZ WCAU WMAL WHP WJAS  
WLBW WHEC WKBW WADC WKRC WFBM  
WMAQ KMBC WISN WCCO WIBW KFH  
WBCM WMT WWNC WDBJ WBRG WDDO  
WREC KLRA KFJF KLZ KDYL KHJ  
KFPY KOL WDAY WORC WBT WKBN

**7:30-7:45 Phil Cook — Quaker Man**  
WJZ WBZ WBAZ WFLA WSUN WIOD  
WKY WRVA WPTF WJAX WBAL WHAM  
KDKA WHAS WENR KWK WREN KFAB  
WTMJ KSTP WSB WSM WEBC WSBM  
WJDX WOAI KTHS KVOO KOA KSL  
KGO KECA KGW KOMO KHQ KFSD  
KTAR KPRC WRC WFAA

**11:15-11:30 Heywood Brown's Radio Column**  
WABC WEAN WNAC WLBZ WCAU WCAO  
WLBW WFBL WKRC WKBN WFBM KMOX  
KOIL KSCJ KMHC WISN WCCO KFH  
WBCM WSPD WMT WWNC WTAR WDBJ  
WGST WDDO WRFC WLAC KLRA KFJF  
KLZ KDYL KFRC WBT WPG WNAX  
WDAY WORC WX'Z KOL

**11:15-11:30 Uncle Abe and David**  
WWJ WSAI WTAM WENR KSD WDAF  
WEBC WHAS WSM WSB WSBM WJDX  
WHO WOC WFJC WOW WMC WTMJ

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

**11:45-12:00 Literary Digest Topics — Floyd Gibbons**  
WJR KWK WLW WENR WREN KFAB

#### Sunday

**1:00-1:30 Southland Sketches — Spirituals**  
WJZ WBAL KFAB KDKA WLW KWK  
KOA KSL CKGW WHAM

**1:30-2:00 Neapolitan Nights**  
WJZ WBAL WLW WRC KSL WHAS  
WLS CKGW WHAM KFAB KOA

**2:00-3:00 Roxy Symphony Concert**  
WJZ WBZ WBZA WBAL KDKA KYW  
WRC WFAA WEBC KFAB CKGW WHAS  
WREN KSTP KWK WTMJ WSB WRVA  
WJAX WHAM WFLA WSUN WLW WPTF

**2:30-3:00 NBC Artists Service Program**  
WEAF WTAG WOW KSD WWJ WGY  
WDAF WOC WHO WGR WBO

2:30-3:00 Ballad Hour

WABC WEAN WLBZ WCAU WCAO WMAL  
WHP WHEC WKBW WHK WKRC WAU  
WKBN WMAQ KMOX KOIL KMBC WISN  
WCCO WIBW WBCM WSPD WMT WWNC  
WDBJ WBRC WDOE WREC KLRA KIZ  
KDYL KVI KFPY WPG WDAY WORC

3:00-3:30 Paul Tremaine and His Orchestra

WABC WEAN WNAC WLBZ WCAU WCAO  
WMAL WHP WJAS WKBW WADC WKBN  
WFBN WMAQ KMOX KOIL KMBC WISN  
WCCO WBCM WMT WWNC WDBJ WBRC  
WDOE WLAC KLRA KFJF KIZ KDYL  
KFRC KVI KFPY WPG WDAY WORC

3:00-4:00 The Friendly Hour

WJZ WBAL KDKA WJR WLW KWK  
WREN KFAB WRVA WJAX WIOD WJDX  
KV00 WFAA WOAI KSL WFLA WSUN  
KTHS WSB WLS WBZ WBZA KGW  
KFSD KGO

3:30-4:00 Conclave of Nations

WABC WEAN WNAC WLBZ WCAU WCAO  
WMAL WHP WJAS WKBW WADC WKRC  
WKBN KMBC WISN WCCO WIBC WBCM  
WMT WWNC WDBJ WBRC WDOE WLAC  
KLRA KIZ KDYL KFRC KVI KFPY  
WPG WDAY WORC WBT

4:00-4:30 Don Carlos and Marimba Band

WJZ WBAL KFAB WJR WLW WBZ  
WBZA WHAM

4:00-5:00 National Sunday Forum

WEAF WEI WJAR WTAG WESH WGR  
KOA WIOD WOW WRVA WKY WOAI  
WRC WSAI WJAX WHAS WJDX WFAA  
FV00 KPRC WECB WFJC WDAF KHQ  
WWJ WSUN WFLA WHO WSB WIBO  
WOC KPO KGO KGW KOMO WMC  
WCAE CKGW

4:00-5:00 Cathedral Hour

WABC WEAN WNAC WLBZ WCAU WCAO  
WHP WJAS WLBW WKBW WADC WHK  
WKRC WAU WKBN WOWO WFBN KMOX  
KOIL KMBC WISN WCCO WIBW KFH  
WBCM WSPD WMT WWNC WDBJ WGST  
WBRC WDOE WREC WLAC KRLD KLRA  
KFJF KIZ KDYL KHJ KVI KFPY  
WDAY WORC WBT

5:00-6:00 Sabbath Reveries

WJZ WBZ WBZA WBAL WHAM WLW  
KWK WREN KFAB KSTP WECB WJAX  
WIOD WMC KOMO WJDX WOAI KV00  
KPRC WFLA WSUN WSB KOA KTAR  
KGO KGW KHQ KDKA WRC

5:30-6:00 Tea Time Tunes

WEAF WEI WTAG WFI WGR WCAE  
CKGW WWJ WDAF WHO WOC WOW

6:00-6:30 Songs at Eventide

WJZ WBAL KFAB WJR KDKA WBZ  
WBZA WHAM KWK WREN CKGW

6:00-7:00 Catholic Hour

WEAF WEI WJAR WTAG WESH WRC  
WGY WWJ WECB WIOD WSM WKY  
WJDX KGO KPO KSTP KHQ KOMO  
KGW WOW WSAI WGR KECA KTAR  
WCAE KYW WFJC WOC WHO WDAF  
WTMJ WJAX WFLA WSUN WHAS WMC  
WSB WBAP KPRC WOAI KOA WFI

7:00-7:30 Quiet Harmonies

WABC WEAN WLBZ WCAU WCAO WMAL  
WHP WJAS WLBW WFBL WHEC WHK  
WKRC WKBN WFBN WBBM KOIL KSCJ  
WISN WCCO WIBW KFH WSPD WMT  
WWNC WTAR WDBJ WGST WDOE WREC  
KRLD KLRA KFJF KIZ KDYL KHJ  
KVI KFPY WBT WDAY WORC WXYZ

7:00-7:30 Songs of the Season

WEAF WEI WTAG WFI WRC WGY  
WGR WCAE WFJC WRVA KOA

7:30-8:00 Williams Oilomatics

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

7:35-8:30 Major Bowes Family

WEAF WSBM KSTP WESH WECB WSM  
WDAF WIOD WMC WSB WJDX WKY  
WJAR WCAE WRC WGY WWJ WSAI  
KSD WFJC WHAS WTAM WOAI KTHS  
WFLA WSUN WHO WOC WTAG WCPFL

7:45-8:00 The World's Business

WABC WEAN WNAC WLBZ WFAN WMAL  
WHP WJAS WLBW WHEC WKBW WADC  
WKRC WAU WKBN WFBN WMAQ KMOX  
KOIL KMBC WISN WCCO WIBW WSPD  
WMT WWNC WDBJ WDOE KLRA KFJF  
KLZ KDYL KHJ KFRC KVI KFPY  
WPG WNAW WDAY WORC

8:00-8:30 Mayhew Lake and His Band

WABC WEAN WNAC WLBZ WCAU WCAO  
WMAL WJAS WLBW WHEC WADC WHK  
WKRC WKBN WOWO WFBN KMOX KOIL  
KMBC WISN WCCO WIBW WSPD WMT  
WWNC WTAR WDBJ WBRC WDOE WREC  
WLAC KRLD KLRA KFJF KIZ KDYL  
KHJ KFRC KVI KFPY KOL WNAW  
WORC WBT

8:15-9:15 Colliers Radio Hour

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

8:30-9:00 Chase and Sanborn Orchestra

WEAF WJAR WTAG WESH WRC WGY  
WGR WCAE WFJC WWJ WSAI KSD  
WOW WIOD WHAS WECB WMC WSB  
WSMB WKY KTHS KPRC WOAI WTMJ  
WJDX WTAM KSTP WIBO WPTF KV00  
WAFI WRVA WFAA WHO WOC WLIT

9:00-9:15 "Our Government"

WEAF WJAR WTAG WLIT WESH WECB  
WGY WCAE KSD WHAS WKY WSAI  
WFJC WSB WMC WSM WFAA WTMJ  
WOW WOAI WWJ WSMB WTC WJDX  
WIOD WFLA WSUN WOC WHO WCPFL  
WEI WRC

9:00-10:00 Majestic Theatre of the Air

WABC WEAN WNAC WLBZ WCAU WCAO  
WMAL WJAS WLBW WFBL WMAK WKBW  
WDEL CFRB CKAC WADC WHK WKRC  
WGHP WOWO WFBN WBBM KMOX KOIL  
KMBC WISN WCCO WIBW KFH WSPD  
WWNC WSAZ WTAR WDBJ WBRC WDOE  
WREC WLAC WDSU KRLD KLRA KFJF  
KTSA KIZ KDYL KHJ KFRC KOIN  
KVI KFPY KOL

9:15-9:45 Atwater Kent Program

WEAF WEI WRC WFI WGY WGR  
WCAE WTAM WWJ WSAI KSD WOW  
KSTP KOA KSL KFI KGW KOMO  
KPO KHQ WSM WMC WFAA KPRC  
WOAI WKY WSMB WHAS WGN WSB  
WOC WHO

9:45-10:15 Mystery House

WEAF WEI WTAG WRC WGY WGR  
WCAE WFJC WWJ WSAI KSD WOC  
WHO WOW WDAF CKGW KOA KPO  
KTAR KGW KOMO KSL WECB WFI  
WSB WJDX

10:00-10:30 Arabesque — Desert Play

WABC WEAN WNAC WLBZ WCAU WCAO  
WMAL WHP WJAS WLBW WFBL WHEC  
WKRC WKBN WOWO WFBN WMAQ WBBM  
KOIL KSCJ KMBC WISN WSPD WMT  
WWNC WTAR WDBJ WGST WBRC WDOE  
WREC KRLD KLRA KFJF KIZ KDYL  
KHJ KVI KFPY WBT WNAW WDAY

10:15-10:45 Studebaker Champions

WEAF WYIC WTAG WFI WESH WRC  
WGY WCAE WTAM WWJ WGN KSTP  
WJAR WTMJ KOA WECB KGO KGW  
KOMO KFI KHQ WOW WEI WDAF  
KSD WGR

10:30-11:00 Around the Samovar

WABC WEAN WNAC WLBZ WCAU WCAO  
WMAL WJAS WLBW WHEC WADC WHK  
WKRC WAU WKBN WOWO WFBN KMOX

KOIL	KMBC	WCCO	WIBW	WSPD	WMT	8:00-8:30	Half Hour in Nation's Capital	WEAF	WEEL	WIOD	WPTF	WJAX	WJAR
WWNC	WTAR	WDBJ	WBRC	WLAC	KLRA	WEAF	WCEI	WIOD	WPTF	WJAX	WJAR	WJAX	WJAR
KFJF	KLZ	KDYL	KFCR	KFPY	WPG	WTAG	WCSH	WLIT	KFSD	KOMO	WRC	KOMO	WRC
WNAX	WORC	WBT				WCAE	WGR	WFJC	WWJ	WSAI	KSD	WSAI	KSD
10:45-11:15	Sunday at Seth Parkers					WOC	WOW	WHO	KYW	WDAF	KSTP	WDAF	KSTP
WEAF	WCAE	WHAS	WFJC	WJAX	WOW	WJDX	WSMB	KGO	KVOO	KPRC	WOAI	WDAF	WOAI
WKY	WWJ	WPTF	WGY	WRC	KOA	KOA	KECA	KGW	WFLA	WSUN	WTIC	WSUN	WTIC
KGO	WEEL	WIOD	WMC	WSB	WCSH	WKY							
WEBC	KGW	KYW	WSM	WHO	WJDX								
WTAM	CKGW	KSTP	KSD	WDAF	WSMB								
KPRC	KOMO	KHQ	WTMJ	WOC	KTAR								
KFSD	KVOO	WGR											
11:00-12:00	Back Home Hour												
WABC	WLBZ	WMAL	WHEC	WKBW	WKRC								
WKBN	WFBM	KMOX	WISN	WCCO	WIBW								
WSPD	WMT	WTAR	WDBJ	WDOD	KLRA								
KFJF	KLZ	KVI	KFPY	WNAJ	WDAY								
WBT													
11:30-12:00	Russian Cathedral Choir												
WEAF	WRC	WFJC	WWJ	WBAP	WOC								
KOA	WHO	WOW	WSB	WGY	WTAM								
CKGW	KSTP	WABC	KVOO										
<b>Monday</b>													
3:00-3:30	Phil Napoleon and His Band												
WJZ	KDKA	WHAM	KPRC	WBZ	WBZA								
WBAL	KWK	WREN											
3:30-4:00	Salon Singers												
WEAF	WRC	KSD	WTAG	WGY	WFJC								
KSTP	WGR	WOW	WCFL										
4:00-4:30	The Captivators												
WABC	WEAN	WNAC	WCAU	WCAO	WMAL								
WHP	WFBL	WHEC	WMAK	WADC	WKRC								
WAIU	WKBN	KOIL	KSCJ	KMBC	WISN								
WCCO	WIBW	WGL	WBCM	WSPD	WMT								
WWNC	WTAR	WDBJ	WGST	WBRC	WDOD								
WREC	WLAC	KRLD	KLRA	KFJF	KLZ								
KDYL	KVI	KFPY	WBT	WPG	WDAY								
WXYZ	KOL												
4:00-5:00	Silver State Light Opera Company												
WJZ	WBAL	WHAM	WRC	WLW	WREN								
KOA	KGO	KOMO	CKGW	KSTP									
4:30-5:00	Gypsy Camp												
WABC	WEAN	WNAC	WCAU	WCAO	WMAL								
WHP	WFBL	WMAK	WADC	WHK	WKRC								
WAIU	WKBN	KOIL	KSCJ	KMBC	WISN								
WCCO	WIBW	WGL	WBCM	WSPD	WMT								
WWNC	WTAR	WDBJ	WGST	WBRC	WDOD								
WREC	WLAC	KRLD	KLRA	KFJF	KLZ								
KDYL	KVI	KFPY	WBT	WPG	WDAY								
WXYZ	KOL												
5:30-5:45	My Bookhouse Story Time												
WABC	WEAN	WNAC	WCAU	WCAO	WMAL								
WFBL	WKBW	WADC	WHK	WOWO	WMAK								
KMOX	WCCO	WSPD	WXYZ										
6:00-6:30	Mormon Tabernacle Choir and Organ												
WJZ	WBAL	WSM	KWK	KOA	KSL								
KGO	KOMO	KFAB	KGW	KPO	WLW								
CKGW	WRC	WHAS	KDKA	KSTP	KFSD								
6:00-6:30	Carl Rupp and His Captivators												
WABC	WCAO	WMAL	WHP	WJAS	WLBW								
WHEC	WKBW	WAIU	WKBN	WBMM	KMBC								
WISN	WIBW	WGL	KFH	WBCM	WSPD								
WMT	WWNC	WTAR	WGST	WBRC	WDOD								
WREC	KRLD	KLRA	KFJF	KLZ	KDYL								
KHJ	WDAY	WBT											
7:00-7:30	Current Events												
WABC	WLBZ	WHP	WJAS	WLBW	WHEC								
WKBW	WADC	KMOX	WISN	WCCO	WIBW								
KFH	WBCM	WMT	WWNC	WDBJ	WGST								
WBRC	WDOD	WREC	KLRA	KFJF	KLZ								
KDYL	KHJ	KFCR	KVI	KFPY	KOL								
WDAY	WORC												
7:30-8:00	Colonial Beaconlights												
WEAF	WEEL	WJAR	WTAG	WCSH	WGY								
7:45-8:00	Sinclair Program												
WABC	WCAU	WCAO	WADC	WHK	WKRC								
WMAQ	KMOX	KOIL	KSCJ	WSPD	WXYZ								
KRLD													
7:50-8:30	Roxy and His Gang												
WJZ	WBZ	WBZA	WHAM	KWK	WSB								
WSM	WCKY	KGO	KFAB	KOA	WFLA								
WTUN	WRC	KGW	WCFL	CKGW	WIBO								
KTHS													
8:00-8:30	Mardi Gras												
WABC	WEAN	WLBZ	WCAU	WCAO	WMAL								
WHP	WJAS	WLBW	WFBL	WKBW	WADC								
WHK	WKRC	WFBM	WMAQ	KMOX	KOIL								
KSCJ	WISN	WCCO	WIBW	WGL	KFH								
WBCM	WSPD	WMT	WWNC	WTAR	WDBJ								
WBRC	WDOD	KLRA	KFJF	KLZ	KHJ								
KFCR	KVI	KFPY	WBT	WPG	WNAX								
WDAY	WORC	WXYZ	KOL										
8:30-9:30	A. & P. Gypsies												
WEAF	WEEL	WTAG	WJAR	WTIC	WCSH								
WLIT	WRC	WGY	WGR	WCAE	WWJ								
WSAI	WGN	KSD	WOC	WDAF	WTAM								
WOW	WHO												
8:30-9:00	Crime Prevention Program												
WJZ	WBZ	WBZA	KDKA	WREN	KFAB								
CKGW	WTMJ	WJDX	KGO	KOMO	KFSD								
9:00-9:30	Maytag Orchestra												
WJZ	WBZ	WBZA	WHAM	KDKA	WJR								
KYW	KWK	WREN	KSTP	WEBC	WSM								
WSB	WSMB	KTHS	WKY	KPRC	WOAI								
KOA	KSL	WCKY	WJDX	KGO	KECA								
KGW	KHQ	KOMO	WTMJ	WHAS	WFAA								
KVOO	WMC												
9:00-9:30	Minneapolis-Honeywell Symphony Hour												
WABC	WEAN	WNAC	WCAU	WCAO	WMAL								
WJAS	WLBW	WFBL	WKBW	WADC	WHK								
WKRC	WOWO	WFBM	KMOX	KOIL	KMBC								
WISN	WCCO	WSPD	WBT	WPG	WXYZ								
9:30-10:00	Bourjois — An Evening in Paris												
WABC	WEAN	WNAC	WCAU	WCAO	WMAL								
WJAS	WLBW	WFBL	WKBW	WADC	WHK								
WKRC	WOWO	WFBM	KMOX	KOIL	KMBC								
WSPD	WBT	WPG	WXYZ										
9:30-10:00	General Motors Family Party												
WEAF	WEEL	WTIC	WJAR	WCSH	WTAG								
WLIT	WRC	WGY	WGR	WCAE	WTAM								
WWTJ	WGN	KSD	WOC	WOW	WDAF								
WSAI	KSTP	WTMJ	WHAS	WSM	WMC								
WSB	WJAX	KECA	WFAA	WOAI	KPRC								
WKY	KOA	KSL	KGO	KGW	KOMO								
KHQ	WHO												
9:30-10:00	Cheesbrough Real Folks												
WJZ	WBZ	WBZA	WHAM	KDKA	KWK								
WLW	KYW	WJR	WREN	CKGW									
10:00-10:30	Moonshine and Honeysuckle												
WEAF	WEEL	WCSH	WRC	WGY	WGR								
WCAE	WWJ	KSD	WOC	WHO	WDAF								
WOW													
10:00-10:30	Stromberg-Carlson Program												
WJZ	WBZ	WBZA	WHAM	KDKA	WJR								
KYW	KWK	WREN	WTMJ	WEBC	WRVA								
WJAX	WIOD	WHAS	WSM	WMC	WSB								
WSMB	WKY	KTHS	KPRC	WOAI	KOA								
KGO	KFI	WCKY	KGW	KHQ	KOMO								
WJDX	KSTP	WPTF	KVOO	WFLA	WSUN								
KTAR	KFSD												
10:00-10:30	Robert Burns Panatella Program												
WABC	WEAN	WNAC	WCAU	WCAO	WMAL								
WJAS	WLBW	WFBL	WKBW	WADC	WHK								
WKRC	WOWO	WFBM	WMAQ	KMOX	KOIL								
KOIL	KMBC	WCCO	WSPD	KLZ	KDYL								
KHJ	KFCR	KOIN	KVI	KFPY	KOL								
10:30-11:00	American Maize Program												
WCAU	WHP	WJAS	WLBW	WADC	WHK								
WKRC	WCAH	WKBN	WBMM	KOIL	KSCJ								
WISN	WCCO	WSPD	WMT	KLZ	KDYL								
KHJ	KFCR	KOIN	KFPY	WNAX	WDAY								
KOL													
10:30-11:00	Jospe Woodwind Ensemble												
WJZ	WHAM	KDKA	WJR	WREN	WFAA								
KPRC													
10:30-11:00	Sign of the Shell												
WEAF	WEEL	WTIC	WJAR	WTAG	WCSH								
WLIT	WRC	WGY	WGR	WCAE	WWJ								
WSAI	WENR	KSD	WOC	WOW	WDAF								

WRVA KOA KSTP WPTF WJAX WIOD  
 WHAS WSM WMC WSB WSMB WJDX  
 WEBC WHO WTAM  
**11:00-11:15 Phil Spitalny's Music**  
 WFAF WRC WGY WWJ WSMB WCAE  
 WTAM WSAI WJDX  
**11:00-11:15 Bert Lown and His Biltmore Orchestra**  
 WABC WEAN WNAC WLBZ WCAU WLBW  
 WFBL WHK WKBN KOIL KSCJ KMBC  
 WISN WCCO KFH WBCM WSPD WMT  
 WWNC WTAR WDBJ WBRG WDOD WREC  
 WLAC KLRA KFJF KLZ KFRC KFPY  
 WBT WPG WNAW WDAY WORC WXYZ  
 KOL  
**11:30-12:00 Kay Kyser's Hotel New Yorker Orchestra**  
 WFAF WRC WWJ WDAF WCFL KOA  
 KSTP WOW  
**11:30-12:00 Ted Fiorito and Orchestra**  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WMAL WHEC WACC WKBN WFBM KMOX  
 KOIL WISN WCCO WIBW KFH WBCM  
 WMT WWNC WTAR WDBJ WBRG WDOD  
 WREC WLAC KLRA KFJF KLZ KDYL  
 WBT KFPY KOL WNAW WDAY WORC  
**12:30-1:00 Nocturne — Ann Leaf at the Organ**  
 WABC WEAN WNAC WCAU WMAL WFBL  
 WKRC WKBN WFBM KOIL KSCJ KMBC  
 WISN WCCO WIBW KFH WBCM WSPD  
 WMT WWNC WTAR WDBJ WGST WBRG  
 WDOD WREC KRLL KLRA KFJF KLZ  
 KDYL KVI KFPY WBT WPG WDAY  
 WDAY WXYZ KOL

## Tuesday

**10:15-10:30 Through the Looking Glass**  
 WJZ WBZ WBZA WHAM WLW WREN  
 KFKX WJR KDKA KWK CKGW  
**3:30-4:00 Golden Gems**  
 WFAF WEEI WTIC WTAG WGR WTAM  
 WFJC KSD WOW KSTP WBAP  
**4:00-4:30 Italian Idyll**  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WMAL WHP WFBL WMAK WADC WAIU  
 WKBN WOWO KOIL KSCJ KMBC WISN  
 WCCO WIBW WBCM WSPD WMT WWNC  
 WTAR WDBJ WGST WBRG WDOD WREC  
 WLAC KRLL KLRA KFJF KLZ KDYL  
 KVI KFPY WBT WPG WDAY WORC  
 WXYZ KOL  
**4:00-5:00 Pacific Vagabonds**  
 WJZ WREN KFAB WHAM WLW KOA  
 KPO KGO KSTP WJAX WBAP WJR  
 WAPI KFSD WSM WTMJ  
**5:00-5:30 Rhythm Kings Dance Orchestra**  
 WABC WFAN WCAO WMAL WHP WMAK  
 WADC WKRC WAIU KOIL KMBC WISN  
 WBCM WSPD WMT WWNC WTAR WDBJ  
 WGST WDOD WREC WLAC KRLL KLRA  
 KFJF KLZ KDYL KHJ KVI KFPY  
 WDAY WBT  
**7:15-7:30 Emerson Gill and His Orchestra**  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WHP WJAS WLBW WFBL WREC WKBW  
 WADC WKBN WOWO WFBM KSCJ WISN  
 WCCO KFH WBCM WSPD WMT WWNC  
 WDBJ WBRG WDOD WRFK KLRA KFJF  
 KLZ KDYL KFRC KVI KFPY WBT  
 WNAW WDAY WORC WXYZ KOL  
**7:30-8:00 Soconland Sketches**  
 WFAF WEEI WJAR WTAG WCSH WGY  
 WGR WTIC  
**8:00-8:30 Troika Bells**  
 WFAF WFI WWJ WSAI WDAF WRC  
 WCSH CKGW WGR  
**8:00-8:30 Pure Oil Orchestra**  
 WJZ WBAL WHAM KDKA WJR WREN  
 KYW KWK KSTP WTMJ WEBC WHAS  
 WMC WJAX WRVA WSM WSB KFAB  
 WJDX WAPI WPTF WLW  
**8:00-8:30 Blackstone Program**  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WHP WJAS WLBW WFBL WHEC WKBW

WADC WHK WGHP WAIU KOIL KMBC  
 WCCO WSPD WMT  
**8:30-9:00 Florsheim Frolic**  
 WFAF WTAG WCSH WFI WRC WGY  
 WGR WCAE WWJ WSAI WGN KSD  
 WOC WHO WOW WDAF KSTP WEBC  
 WRVA WJAX WIOD WSUN WFLA WSM  
 WMC WSB WSMB WJDX WBAP KPRC  
 WOAI WKY KOA KSL WJAR WHAS  
**8:45-9:00 Premier Salad Dressers**  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WJAS WLBW WDAE WFBL WKBW WADC  
 WHK WKRC WQAM WOWO WMAQ KMBC  
 KOIL KMBC WCCO WDBO WSPD WGST  
 WTOC WLAC WDSU KRLL WRR KLZ  
 KDYL KHJ KFRC KOIN KVI KFPY  
 WBT WPG WXYZ KOL  
**9:00-9:30 Tek Music**  
 WJZ WBZ WBZA WBAL WHAM KDKA  
 KYW KWK WREN WCKY CKGW  
**9:00-9:30 Henry-George**  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WHP WJAS WLBW WFBL WKBW WADC  
 WHK WKRC WGHP WOWO WBBM KMOX  
 KOIL KMBC WISN WCCO KFH WSPD  
**9:00-9:30 Everready Program**  
 WFAF WEEI WFI WRC WGY WGR  
 WCAE WTAM WWJ WGN KSD WHO  
 WDAF WHAS WSM WMC WSB WJAR  
 KOA KSL KGO KGW KOMO KHQ  
 WSMB WJDX WCSH WFJC WSAI WOW  
 WOC  
**9:30-10:00 Happy Wonder Bakers**  
 WFAF WJAR WEEI WTAG WCSH WRC  
 WGY WGR WCAE WTAM WFJC WJZ  
 WSAI WBO KSD WHO WOW WDAF  
 WTMJ KSTP WBC WVA WHAS WMC  
 WSB WSMB KVOO WKY KOA KSI  
 WJDX KGO KMO KEGA KGW KHQ  
 WBAP WPI KPRC WOC  
**9:30-10:00 The Philco Symphony Concert**  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WJAS WLBW WFBM WKBW WADC WHK  
 WKRC WOWO WMAQ KMOX KOIL KMBC  
 WSPD WBT WPG WXYZ  
**10:00-10:15 Enna Jettick Songbird**  
 WFAF WEEI WJAR WTAG WTAM WCSH  
 WFI WRC WGY WCAE WFJC WSAI  
 WBO KSD WOW WHO WDAF WGR  
 WOC WWJ  
**10:00-10:15 Graybar's, Mr. and Mrs.**  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WJAS WLBW WFBL WHEC WKBW WADC  
 WHK WKRC WGHP WAIU WKBN WOWO  
 WFBM WBBM KMOX KOIL KMBC WISN  
 WCCO KFH WSPD WWNC WTAR WDBJ  
 WGST WBRG WREC WLAC WDSU KRLL  
 KLRA KFJF K TSA KLZ KDYL KHJ  
 KFRC KOIN KVI KFPY KTRH KOL  
**10:00-10:30 Westinghouse Salute**  
 WJZ WBZ WBZA WBAL KDKA KYW  
 KWK WEBC WJAX WHAS WSM WMC  
 WAPI WSMB KGW KPRC KOA KSL  
 KGO KHQ WPTF WTMJ KOMO WHAM  
 WREN WRVA WKY WOAI WSB WIOD  
 KUCA WCKY KVOO WFLA WSUN  
 KTRAR KFSD  
**10:15-11:00 Paramount Public Radio Playhouse**  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WMAL WHP WJAS WLBW WFBL WHEC  
 WKBW WADC WHK WRC WKBN WOWO  
 WFBM WBBM KMOX KOIL KSCJ KMBC  
 WISN WCCO WIBW KFH WBCM WSPD  
 WMT WWNC WTAR WDBJ WGST WBRG  
 WDOD WREC WLAC WDSU KLRA WRR  
 KFJF K TSA KLZ KDYL KHJ KFRC  
 KOIN KFPY WBT WPG WNAW WDAY  
 WXYZ KOL KNX WQAM WDBO WDAE  
 WTOC KTRH  
**10:30-11:00 Radio-Keith-Orpheum Program**  
 WFAF WEEI WJAR WTAG WCSH WFI  
 WRC WGY WGR WCAE WFJC WSAI  
 WHO KSD WOW WSMB WOAI KTHS

KOA KSL KGO KGW KOMO KHQ  
 WIBO WJDX WTMJ KSTP KVOO WRVA  
 WJAX WIOD WHAS WSM WMC WSB  
 WDAF WEBC KECA WPTF WFLA WSUN  
 WOC WBAP KFSD KTAR WWJ WKY  
 WTAM  
 10:30-11:00 Cuckoo  
 WJZ WJR KWK WREN WBZ WBZA  
 KDKA  
 11:00-11:15 Anheuser-Busch Program  
 WABC WHK WGHF WAU WFBM WBBM  
 KMOX KOIL KMHC WCCO WSPD WMT  
 WDOO WREC WDSU KLRA WRR KFJF  
 K TSA KTRH  
 11:00-11:30 Vincent Lopez and His Orchestra  
 WEA F WFI WCAE WWJ KSD WOC  
 WHO WSMB KOA WSAI WGY WTAM  
 WMC WJDX WOV  
 11:30-12:00 Jack Albin and His Orchestra  
 WEA F WFI WRC WOC WHO KSTP  
 KOA WJDX

### Wednesday

10:30-11:00 U.S. Navy Band Concert  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WMAL WHP WJAS WLBW WFBL WHEC  
 WKBW WADC WOWO KOIL KMBC WISN  
 WIBW WBCM WSPD WWNC WDBJ WGST  
 WBRC WDOO WLAC KLRA KDYL WORC  
 11:00-12:00 The Recitalists  
 WJZ WHAM KWK WTMJ WSM KOA  
 WBAL  
 3:00-3:30 Matinee Gems  
 WJZ WBAL KDKA KWK WREN CKGW  
 WRVA WJAX WJDX WHAM WBZ WBZA  
 4:00-5:00 Radio Guild  
 WJZ WLW WBAL WHAM CKGW KFAB  
 KSTP WJAX WSM KTHS WBAP KOA  
 KGO WREN KFSD  
 5:00-5:30 Footnotes — Freddie Rich  
 WABC WFAN WCAO WMAL WHP WKBW  
 WADC WKRC WAU WBBM KOIL KMBC  
 WISN WIBW WGL WBCM WSPD WMT  
 WWNC WTAR WDBJ WGST WDOO WREC  
 WLAC KRLD KLRA KFJF KLZ KDYL  
 KFRC KVI KPFP WPG KOL WDAY  
 WBT  
 5:45-6:00 Columbia Male Trio  
 WABC WCAO WMAL WHP WJAS WFBL  
 WKBW WADC WAU WMAQ WBBM KOIL  
 KSCJ KMBC WISN WCCO WIBW WBCM  
 WSPD WMT WWNC WTAR WDBJ WGST  
 WDOO WREC WLAC KRLD KLRA KFJF  
 KLZ KDYL KFRC KVI KPFP WBT  
 WDAY WXYZ  
 6:00-6:40 Whyte's Orchestra  
 WJZ WBAL WREN KFAB KSTP WHAS  
 WSM WAPI KOA KGO KTAR  
 6:15-6:30 Ozzie Nelson's Glen Ilanders  
 WABC WLBZ WCAO WMAL WHP WJAS  
 WLBW WFBL WHEC WKBW WHK WAU  
 WKBW WFLB WHEC WKBW WHK WAU  
 WBN KSCJ KMBC WISN WCCO WGL  
 KFH WBCM WMT WWNC WTAR WGST  
 WBRC WDOO WREC KRLD KLRA KFJF  
 KLZ KDYL WBT WDAY WXYZ  
 7:45-8:00 Eskimo Pie Program  
 WABC WNAC WCAU WCAO WMAL WJAS  
 WFBL WHEC WKBW WHK WKRC WMAQ  
 KMOX WCCO WGST WBRC KRLD WBT  
 7:45-8:00 Dic-a-Doo Entertainers  
 WJZ WBZ WBZA WBAL WHAM KDKA  
 KYW KWK WRFN KFAB KSTP WBEBC  
 7:45-8:00 "Back of the News in Washington"  
 WEA F WRC KOA WTAG KSL KECA  
 WGO WCSH WGY WCAE WFJC WRVA  
 KGW KOMO KFSD WJAX WSAI WIBO  
 KSD WOC WHO WOV WDAF WSM  
 WAPI KTHS KPRC WKY  
 8:00-8:30 East of Cairo  
 WEA F WCSH WGR WOC WDAF WWJ  
 WJDX WSMB WJAR KGO KGW WHO  
 WOW WEEL WTAM

8:00-8:30 The Yeast Foamers  
 WJZ WBZ WBZA WHAM KDKA KYW  
 KWK WREN KSTP WBEBC WLW KFAB  
 WTMJ  
 8:00-8:30 Manhattan Moods  
 WABC WEAN WNAC WLBZ WCAO WHP  
 WJAS WLBW WFBL WHEC WKBW WADC  
 WAU WFBM WMAQ KMOX KOIL KMBC  
 WISN WCCO WIBW WGL WBCM WSPD  
 WMT WWNC WTAR WDBJ WBRC WDOO  
 KLRA KFJF KLZ KFRC KVI KPFP  
 WPG KOL WDAY WORC WBT  
 8:30-9:00 Mobiloil Concert  
 WEA F WEEL WJAR WTAG WCSH WLIT  
 WRC WGR WWJ WSAI KSD WOV  
 WFJC WTAM KOA KVOO WFAA KPRC  
 WOAI WKY KSL WTIC WGY WGN  
 WBEBC WTMJ WDAF WCAE WHO WOC  
 8:30-9:00 Sylvania Foresters  
 WJZ WBZ WBZA WHAM KDKA WREN  
 KWK KYW KFAB WLW  
 8:30-9:00 Forty Fathom Trawlers  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WHP WJAS WLBW WFBL WHEC WKBW  
 WADC WHK WKRC WGHF WOWO WFBM  
 WMAQ KMOX WSPD  
 9:00-9:30 Halsey, Stuart Program  
 WEA F WEEL WJAR WTAG WCSH WLIT  
 WRC WGY WCAE WGR WWJ WSAI  
 KSD WOC WOV KSTP WJAX WHAS  
 WMC WSB WSMB KVOO KOA KPRC  
 WOAI KGO KOMO KHQ KGW WSM  
 KSL CKGW KECA WTMJ WHO  
 9:00-9:30 Gold Medal Fast Freight  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WJAS WLBW WFBL WKBW WADC WHK  
 WKRC WAU WCAH KFBC WOWO WFBM  
 WBBM KMOX KOIL KSCJ KMBC WISN  
 WCCO KMJ KFH WSPD WTAR WDBJ  
 WREC WLAC WLAP KRLD KLRA KFJF  
 KLZ KDYL KHJ KFRC KOIN KVI  
 KPFP WBT WPG WXYZ KOL  
 9:15-9:30 O Cedar Time  
 WJZ WBZ WBZA WLS KWK WREN  
 KDKA WHAM WJR  
 9:30-10:00 La Palma Smoker  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WJAS WLBW WFBL WMAK WADC WHK  
 WKRC WGHF WOWO WMAQ KMOX KOIL  
 KMBC WISN WCCO WSPD WREC  
 9:30-10:30 Camel Pleasure Hour  
 WJZ WBZ WBZA WHAM KDKA WREN  
 WLW KYW WSJS WPTF WRVA WJR  
 KWK  
 9:30-10:30 Palmolive Hour  
 WEA F WEEL WTIC WJAR WTAG WCSH  
 WLIT WRC WGY WGR WCAE WWJ  
 WSAI WGN KSD WOC WOV WSMB  
 KSTP WTMJ WHAS WSM WMC WHO  
 WSB WJAX KVOO WOAI KOA KSL  
 KGO KGW KOMO KHQ WFAA KECA  
 KPRC  
 10:00-11:00 Voice of Columbia  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WMAL WJAS WLBW WFBL WHEC WKBW  
 WADC WHK WKRC WAU WOWO WFBM  
 WMAQ KMOX KOIL KSCJ KMBC WISN  
 WIBW KFH WBCM WSPD WMT WWNC  
 WTAR WDBJ WDOO WLAC KRLD KLRA  
 KFJF KLZ KDYL KPFP WBT WPG  
 WNAX WDAY WORC WXYZ KOL  
 10:30-11:00 Coca Cola Program  
 WEA F WEEL WTIC WJAR WTAG WCSH  
 WLIT WRC WGR WCAE WWJ WSAI  
 WOC KYW KSD WBEBC KSTP WRVA  
 WJAX WIOD WSM WSMB WKY KTHS  
 KPRC WOAI KOA KSL KGO KECA  
 KGW KHQ KOMO WJDX WGY CKGW  
 WDAF WHAS WPTF WTMJ KVOO WTAM  
 WHO WOV KFSD WMC WSB  
 11:00-11:15 Vincent Lopez Orchestra  
 WEA F WFLA WSUN WRC WCAE WWJ  
 WSAI KSD WOC WHO WOV WBEBC  
 WJDX WKY

**11:30-12:00 California Melodies**  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WMAL WADC WFBM KOIL KMBC WISN  
 WCCO WIBW WBCM WSPD WMT WWNC  
 WTAR WDBJ WGST WBRW WDOD WREC  
 WLAC KLRA KFJF KLZ KDYL KHJ  
 KFRC KFPY KOL WNAX WDAY WORC  
 WBT

**12:00-12:30 Bert Low and His Orchestra**  
 WABC WEAN WNAC WLBZ WCAO WMAL  
 WADC WHK WKRC WKBN WFBM KOIL  
 KMBC WISN WCCO WIBW KFH WBCM  
 WSPD WMT WWNC WTAR WDBJ WBRW  
 WDOD WREC KRLL KLRA KFJF KFPY  
 KOL WNAX WDAY WBT

## Thursday

**10:15-10:30 O Cedar Time**  
 WJZ WBZ WBZA WHAM KDKA WJR  
 WLW WREN WRVA WPTF WJAX WIOD  
 WSM WMC WSB WJDX WSMB KVOO  
 WKY WTMJ KFJK KWK KSTP WEBC  
 WFLA WSUN KPRC KFAB

**11:00-11:15 Bon Ami Radio Matinee**  
 WEAF WJAR WTAG WCSH WLIT WRC  
 WGY WGR WCAE WTAM WWJ WSAI  
 WOC KYW KSD WDAF WEBC WRVA  
 WJAX WIOD WHAS WSM WMC WSB  
 WAPI WSMB KVOO KTHS WCAI WOA  
 CKGW WJDX WTIC WKY WHO KSTP

**11:30-11:45 Ipana Troubadours**  
 WJZ WJR WBZ WBZA WHAM KWK  
 WREN KDKA KYW WCKY

**4:30-5:00 Melody Magic**  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WMAL WHP WFBL WMAK WADC WHK  
 WKRC WAIU WOWO KOIL KSCJ KMBC  
 WISN WCCO WIBW WBCM WSPD WMT  
 WWNC WTAR WDBJ WGST WBRW WDOD  
 WREC WLAC KRLL KLRA KFJF KLZ  
 KDYL KVI KFPY WBT WPG WDAY  
 WORC WXYZ KOL

**5:00-5:30 In the Spotlight**  
 WEAF WEEI WTIC WJAR WLIT WRC  
 WGY WGR WCAE WFJC WWJ WSAI  
 WOC WHO WTAG WTAM WJAX KOA  
 KGO KTAR KFSD

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

**7:00-7:30 Mid-Week Federation Hymn Sing**  
 WEAF WMC WBO WWJ WGR WJAR  
 WHAS KSD KOA

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

**8:00-8:30 Toscha Seidel and Concert Orchestra**  
 WABC WEAN WNAC WFAN WMAL WHP  
 WJAS WLBW WHEC WKBW WADC WKRC  
 WAIU WKBN WOWO WFBM WBBM KMOX  
 KOIL KSCJ WISN WCCO WIBW KFH  
 WBCM WSPD WMT WWNC WTAR WDBJ  
 WBRW WDOD KLRA KLZ KHJ KFRC  
 KVI KFPY WBT WPG WNAX WDAY  
 WXYZ KOL WORC

**8:00-9:00 Fleischmann Hour—Rudy Vallee**  
 WEAF WEEI WTAG WJAR WCSH WFI  
 WRC WGY WGR WCAE WFJC WHO  
 WOW WDAF WWJ WTMJ WJAX WIOD  
 WJDX WHAS WMC WSB WSMB WKY  
 WSAI KOA WEBC WRVA KSL KOMO  
 WOA WSM KGO KHQ WBAP KTHS  
 WAPI KECA KSD CKGW WTAM KGW  
 KSTP WGN WPTF KPRC WOC KTAR

**8:00-9:00 B. A. Rolfe and Lucky Strike Orchestra**  
 WJZ WBAL WHAM KDKA WJR KYW  
 WKC WREN

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

**8:45-9:00 Hamilton Watch Program**  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WJAS WLBW WFBL WKBW WADC WHK  
 WKRC WOWO KMOX KOIL KMBC WJDX  
 WSPD WXYZ

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

**9:00-9:30 Arco Birthday Party**  
 WEAF WEEI WJAR WTAG WCSH CKGW  
 WFI WRC WGY WGR WSB WSM  
 WIOD WJAX WOA KOA KSL WKY  
 WBAP WRVA WWJ WSAI KSD WDAF  
 KYW WCAE WEBC WSMB WJDX WOC  
 WPTF WFJC WTMJ WMC KGO KECA  
 KOMO KHQ KGW WHO WOW WAPI  
 KSTP

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

**9:30-10:00 Jack Frost's Melody Moments**  
 WEAF WJAR WWJ WTAG WCSH WFI  
 WRC WGY WGR WCAE WSAI WTAM  
 WBO

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

**9:30-10:00 Maxwell House Ensemble**  
 WJZ WBZ WBZA WBAL WLW KSTP  
 WKY WTMJ WEBC WHAS WSM KPRC  
 KOA WJAX WRVA WSB WBAP KYW  
 KWK WREN WIOD WJL WSMB WOA  
 KGO KECA KGW KOMO KHQ WAPI  
 WPTF CKGW WMC WHAM KDKA KSL

**10:00-11:00 Victor Herbert Opera Series**  
 WJZ WBAL WHAM WCKY WREN CKGW  
 KDKA

**10:00-10:30 Burbig's Syncopated History**  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WMAL WHP WJAS WLBW WFBL WHEC  
 WKBW WADC WHK WKRC WFBM KMOX  
 KOIL KSCJ KMBC WISN WCCO WIBW  
 KFH WBCM WSPD WMT WTAR WDBJ  
 WDOD KRLL KLRA KFJF KLZ KFRC  
 WPPY WBT WNAX WDAY WORC WXYZ  
 KOL

**10:00-11:00 RCA Hour**  
 WEAF WEEI WJAR WTAG WCSH WFI  
 WRC WGY WGR WCAE WFJC WWJ  
 WSAI KSD WOW WKY WOA KOA  
 KSL WTMJ WIOD WHAS WSM WMC  
 WSMB KYW WDAF WJAX KTHS WTAM  
 KSTP KGO KGW KFI KOMO KHQ  
 WJDX WEBC WRVA WAPI WFLA WSUN  
 WBAP WSB

**11:00-11:15 Hotel Paramount Orchestra**  
 WEAF WFI WRC WGR WCAE WWJ  
 WSAI KSD WOC WHO WMC WSMB  
 WJDX

**11:00-11:15 Bert Low and His Biltmore Orchestra**  
 WABC WEAN WNAC WLBZ WCAO WMAL  
 WHP WLBW WFBL WHEC WKRC WKBN  
 WOWO KOIL KSCJ KMBC WISN WCCO  
 WIBW KFH WBCM WSPD WMT WWNC  
 WTAR WDBJ WDOD WREC WLAC KLRA  
 KFJF KLZ KDYL KHJ KFPY WBT  
 KOL WPG WNAX WDAY WORC WXYZ

**11:30-12:00 Ted Weems and His Orchestra**  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WMAL WHP WLBW WFBL WHEC WADC  
 WKBN KOIL KSCJ KMBC WISN WCCO  
 WIBW KFH WBCM WSPD WMT WWNC  
 WTAR WDBJ WGST WBRW WDOD WREC  
 WLAC KLRA KFJF KLZ KDYL KHJ  
 KFRC KFPY WBT WPG WNAX WDAY  
 WORC WXYZ KOL

11:30-12:00 **Don Bigelow and His Orchestra**  
 WEAF WRC WGR WWJ KSTD WJDX  
 WOC WHO WOW CKGW WFI KSTP

12:00-12:30 **Paul Tremaine and His Orchestra**  
 WABC WEAN WNAC WLBZ WCAU WMAL  
 WLBW WADC WKRC WFBM KOIL KMBC  
 WISN WCCO WBWB KFH WSPD WMT  
 WWNC WTAR WDBJ WGST WBRC WDOD  
 WREC KLRA KFJF KLZ KDYL WBT  
 KVI KFPY WDAY WNAX

## Friday

11:45-12:00 **Los Argentinos**  
 WEAF WEEL WRC WTAM WWJ WSM  
 KSTP WAPI WJDX WCFL WDAF WSMB  
 WRVA KOA

1:00-2:00 **Palais d'Orchestra**  
 WEAF WGY WRC WTAM KSTP KSD  
 KYW WOC WHO WOW WDAF

4:00-5:00 **Dancing Melodies**  
 WEAF WFJC KSD WDAF WRC WCAE  
 WOC WHO

7:15-7:30 **Ted Fiorito and His Orchestra**  
 WABC WNAC WLBZ WCAO WHP WJAS  
 WLBW WFBL WKBW WADC KSCJ WISN  
 WCCO WGL WBCM WMT WWNC WDBJ  
 WBRC WDOD WREC KLRA KFJF KLZ  
 KDYL KFRC KFPY WDAY WORC KOL

8:00-8:30 **Nestle's Program**  
 WJZ WBZ WBZA WHAM WKY WBO  
 KWK WREN KFAB WJR

8:00-8:30 **Nit Wit Hour**  
 WABC WLBZ WHP WJAS WLBW WHEC  
 WKBW WADC WHK WKRC WAIU WOWO  
 WFBM KMOX WISN WCCO WBWB WBCM  
 WSPD WMT WWNC WTAR WDBJ WDOD  
 WREC KLRA KLZ KHJ KFRC KVI  
 KFPY WPG KOL WDAY WORC WBT

8:00-9:00 **Cities Service Concert Orchestra**  
 WEAF WEEL WTIC WLIT WRC WGR  
 WCAE WTAM WJAR WCHS KYW KSD  
 WOW WDAF KSTP WBSH WKY WWJ  
 WOC KOA WFAA WSAI WERC WOAI  
 KOMO KGO KGW KHQ KPRC KSL  
 WTAG CKGW KECA WHO

8:30-9:00 **Dixie Echoes**  
 WABC WEAN WLBZ WMAL WHP WJAS  
 WLBW WFBL WKBW WADC WKRC WAIU  
 WOWO WFBM WMAQ KOIL KSCJ KMBC  
 WISN WCCO WBCM WSPD WWNC WTAR  
 WDBJ WDOD WNAX KLRA KFJF KLZ  
 KDYL KFRC KVI KFPY WBT WDAY  
 WORC WXYZ KOL

8:45-9:00 **Natural Bridge Program**  
 WJZ WPTF WHAM KDKA KWK WRVA  
 WJAX WIOD KFAB WIBO WREN WLW  
 WBZ WBZA

9:00-9:30 **Clicquot Club Eskimos**  
 WEAF WEEL WTIC WJAR WTAG WCHS  
 WLIT WRC WGY WOW WCAE WSAI  
 WIBO KSD WWJ WGR WDAF WOC  
 WHO

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

9:00-10:00 **True Story Hour**  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WJAS WLBW WFBL WMAK WADC WHK  
 WKRC WHPW WOWO WMAQ KOIL  
 KMBC WSPD

9:30-10:00 **Eversharp Men**  
 WEAF WEEL WTIC WJAR WTAG WCHS  
 WLIT WRC WGY WGR WCAE WFJC  
 WWJ WSAI WOW WHO WOC WDAF

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

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

10:00-10:30 **The Radio Follies**  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WHP WJAS WFBL WHEC WKBW WADC  
 WHK WKRC KOL WOWO WMAQ KMBC  
 KOIL KMBC WISN WCCO WSPD WTAR  
 WGST KLZ KDYL KHJ KFRC KOIN  
 KVI KFPY WXYZ WPG WBT KMJ  
 KFBC

10:30-10:45 **Wrigley Football Program**  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WJAS WLBW WFBL WKBW WADC WHK  
 WKRC WOWO WBBM KMOX KOIL KMBC  
 WSPD KLZ KDYL KHJ KFRC KOIN  
 KVI KFPY WXYZ WPG WBT KOL

10:30-11:00 **Under the Jolly Roger**  
 WJZ WHAM KDKA KWK WJAX WIOD  
 WBZ WBZA WLW WREN KSTP

11:00-11:15 **Elgin Program**  
 WJZ WBZ WBZA WHAM KDKA KWK  
 WREN KFAB WEBC WRVA WJAX WIOD  
 WSM WSB WJDX WSMB KVOO WKY  
 KTHS KPRC WOAI KOA KSL KGO  
 KBCA KGW KOMO KHQ WBO WLW  
 WBAP WMC KFSD KSTP

11:00-11:15 **Vincent Lopez Orchestra**  
 WEAF CKGW WOW WWJ WDAF WRC  
 KSD WTIC WOC WHO KSTP KOA

11:00-11:15 **Bert Lown and His Orchestra**  
 WABC WEAN WNAC WLBZ WCAO WMAL  
 WLBW WKRC KOIL KMBC WISN WCCO  
 WBWB WBCM WSPD WMT WWNC WTAR  
 WDBJ WGST WDOD WREC WLAC KLRA  
 KFJF KLZ KFRC KFPY WPG WBT  
 WNAX WDAY WORC

11:30-12:00 **Will Osborne and His Orchestra**  
 WABC WEAN WNAC WLBZ WCAO WMAL  
 WMAL WHEC WADC KOIL KMBC WISN  
 WCCO WBWB WBCM WMT WWNC WTAR  
 WDBJ WGST WBRC WDOD WREC WLAC  
 KLRA KFJF KLZ KDYL KFPY WBT  
 KOL WNAX WDAY WORC

12:00-12:30 **Cotton Club Band**  
 WABC WEAN WNAC WLBZ WCAU WMAL  
 WADC WHK WKRC KOIL KMBC WISN  
 WCCO WBWB KFH WBCM WSPD WMT  
 WWNC WTAR WDBJ WGST WBRC WDOD  
 WREC KLRA KFJF KLZ KDYL KFPY  
 WBT WNAX WDAY

## Saturday

10:30-11:00 **New World Salon Orchestra**  
 WABC WEAN WNAC WCAU WCAO WMAL  
 WHP WJAS WFBL WHEC WKBW WADC  
 WHK WKRC WAIU KMOX KOIL KSCJ  
 KMBC KFH WBCM WSPD WMT WWNC  
 WDBJ WGST WBRC WDOD WREC WLAC  
 KRLD KLRA KFJF KDYL WBT WPG  
 WORC WXYZ

2:30-3:00 **Columbia Salon Orchestra**  
 WABC WEAN WNAC WLBZ WCAU WCAO  
 WMAL WHP WJAS WFBL WHEC WMAK  
 WADC WHK WKRC WAIU WMAQ WBCM  
 WSPD WWNC WTAR WDBJ WBRC WDOD  
 WLAC KLRA WBT WPG WORC WXYZ

**4:00-5:00 Merry Makers — Dance Band**

WJZ WLW KDKA WBAP KFAB KOA  
WBZ WBZA KYW WHAM WTMJ

**4:30-5:00 Spanish Serenade**

WABC WEAN WNAC WLBZ WCAU WCAO  
WMAL WHP WFLB WMAK WADC WHK  
WKRC WAIU WKBN WFBM KOIL KSCJ  
KMBC WISN WCCO WIBW WBCM WSPD  
WMT WNBC WTAR WDBJ WGST WBRC  
WDOD WREC WLAC KRLD KLRA KFJF  
KLZ KDYL KHJ KVI KFPY WBT  
WPG WDAY WXYZ KOL

**4:30-5:00 Mellow Melodies**

WEAF WVIC WCAE WTAM WDAF WRC  
KSTP KTHS WFAA WTMJ WTAG WBAP  
WSB

**5:30-6:00 Blue Aces**

WJZ WBZ WBZA WHAM WHAS KWK  
WSB WFAA

**5:45-6:00 Columbia Educational Features**

WABC WFAN WCAO WHP WJAS WFBL  
WKBW WADC WAIU KOIL KSCJ KMBC  
WISN WCCO WIBW WBCM WSPD WMT  
WNBC WTAR WDBJ WGST WDOD WREC  
WLAC KRLD KLRA KFJF KLZ KVI  
KFPY WBT WDAY WXYZ

**6:00-6:15 The Jameses**

WEAF WEEI WJAR WFI WGY WRC  
WWJ KSD CKGW KOA KGO WCAE  
WMC KTAR WHAS WFAA WOV

**6:00-6:40 Jack Albin's Hotel Bossert Orchestra**

WJZ WBZ WBZA WHAM KWK KFAB

**6:15-6:45 Ted Husing's Sportslants**

WABC WMAL WHP WJAS WLBW WHEC  
WKBW WAIU WOV KMOX KMBC WISN  
WIBW KFH WBCM WMT WNBC WGST  
WBRC WDOD WREC KRLD KLRA KFJF  
KLZ KHJ KVI KFPY KOL WDAY  
WBT

**7:15-7:30 Ted Fiorito and His Orchestra**

WABC WNAC WLBZ WHP WJAS WLBW  
WPBL WHEC WKBW WADC WOV KSCJ  
WISN WCCO WIBW KFH WBCM WNBC  
WDBJ WBRC WDOD WREC KRLD KLRA  
KFJF KLZ KDYL KHJ KPRC KFPY  
WBT WDAY WORC KOL

**7:30-8:00 The Fuller Man**

WJZ WBZ WBZA WHAM WLW CKGW  
WREN KFAB KWK KOA KSL KGO  
KECA KGW KHQ WEBC KOMO KYW  
KSTP KVOO KPRC WTMJ KDKA

**7:30-8:00 Phil Spitalny's Music**

WEAF WJAR WTAG WGY WTAM WWJ  
WRVA WGR WRC WCSH WHO WOC  
WOW

**8:00-8:15 Dixies Circus**

WJZ WLW KDKA KYW WBAL WHAM  
WJR WBZ WBZA WBAP KSTP KVOO  
WOA KPRC WKY

**8:00-9:00 "Pop" Concert**

WEAF WEEI WJAR WTAG WCSH WFI  
WRC WGY WGR WCAE WSBM WSAI  
WTMJ WJDX KOA KGO KGW KSD  
WOC WHO WOV WDAF WWJ

**8:15-8:30 Wonder Dog**

WJZ WBAL WHAM KDKA WLW KYW  
WREN KFAB WJR KWK

**8:30-8:45 Johns Manville Program**

WABC WEAN WNAC WCAU WCAO WJAS  
WFBL WKBW WHK WKRC WOV WMAQ  
KMOX KOIL KSCJ KFH WGST WBRC  
WDSU WRR KPRC KOIN WXYZ KTRH  
WPG WBT WNAX WDAY

**8:30-9:00 Pickard Family**

WJZ WREN WLS WHAM KFAB KDKA

**9:00-9:30 Silver Flute**

WEAF WEEI WJAR WTAG WCSH WRC  
WFI WGR WGY WWJ WSAI KSD  
WOC WHO WOV

**9:00-10:00 Hank Simmons' Show Boat**

WABC WEAN WNAC WLBZ WCAU WCAO  
WMAL WHP WJAS WLBW WADC WHK  
WKRC WKBN WOV WFBM WMAQ KMOX  
KOIL KMBC WISN WCCO WIBW KFH  
WBCM WSPD WMT WNBC WTAR WDBJ  
WGST WBRC WDOD WREC WLAC KLRA  
KFJF KLZ KDYL KHJ KPRC KVI  
KFPY WPG WNAX WDAY WORC WBT

**9:30-10:00 General Electric Band**

WEAF WEEI WJAR WTAG WCSH WFI  
WRC WGY WCAE WTAM WJX KSD  
WOW WDAF WTMJ WEBC WWJ WHAS  
WSB KPRC WOAI WRVA WSAI KSTP  
WAPI WKY KOA KGW KOMO KHQ  
KSL KGO WSMB WBO WMC WBAP  
KECA KFSD KTAR WGR WOC WHO

**9:30-10:00 Dutch Masters Minstrels**

WJZ WBAL WHAM KDKA WLW WJR  
KWK KYW WREN WBZ WBZA

**10:00-10:15 Cub Reporter**

WJZ KDKA WCKY WREN CKGW WBZ  
WBZA

**10:00-10:30 Chicago Variety Program**

WABC WEAN WNAC WLBZ WCAU WCAO  
WMAL WHP WJAS WLBW WFBL WHEC  
WKBW WADC WHK WKRC WAIU WKBN  
WOWO WFBM WBBM KMOX KOIL KSCJ  
KMBC WISN WCCO WIBW KFH WBCM  
WSPD WMT WNBC WTAR WDBJ WGST  
WBRC WDOD WREC WLAC KRLD KLRA  
KFJF KLZ KDYL KHJ KPRC KFPY  
WBT WNAX WDAY WORC WXYZ KOL

**10:00-11:00 B. A. Rolfe's Lucky Strike Orchestra**

WEAF WEEI WJAR WTAG WFI WRC  
WGY WGR WCAE WWJ WGN KSD  
WHO WOV WDAF WIOD KSTP WTMJ  
WSMB WJAX WHAS WSB KPRC WMC  
WOAI WKY WAPI WSAI WFJC KOA  
KGO KSL KGW KOMO KHQ WEBC  
WJDX WPTF WRVA WCSH WFLA WSUN  
WOC KFI KTAR KFSD WBAP

**10:15-10:30 Broadway Lights**

WJZ KDKA KWK WREN CKGW

**11:00-11:15 Troubadour of the Moon**

WEAF WFI WRC WCAE WOC WHO  
WDAF WIOD KSTP WAPI WSMB

**11:00-11:30 Jack Denny and His Mt. Royal Orchestra**

WABC WEAN WNAC WLBZ WFAN WCAO  
WMAL WHP WJAS WLBW WFBL WHEC  
WADC WHK WKRC WKBN KMOX KOIL  
KSCJ KMBC WISN WCCO WIBW KFH  
WBCM WSPD WMT WNBC WTAR WDBJ  
WGST WBRC WDOD WREC WLAC KLRA  
KFJF KLZ KDYL KHJ KPRC KFPY  
WBT WPG WNAX WDAY WORC WXYZ  
KOL

**11:30-12:00 Guy Lombardo and Royal Canadians**

WABC WEAN WNAC WLBZ WCAU WCAO  
WMAL WHP WLBW WHEC WADC WKBN  
WFBM KMOX KOIL KMBC WISN WCCO  
WIBW KFH WBCM WMT WNBC WTAR  
WDBJ WGST WBRC WDOD WREC WLAC  
KLRA KFJF KLZ KDYL KPRC KFPY  
WNAX KOL WDAY WORC WBT

**12:00-12:30 Bert Lown and His Orchestra**

WABC WEAN WNAC WCAU WMAL WHP  
WHK WKRC WFBM KMOX KOIL KMBC  
WISN WCCO WIBW WBCM WSPD WMT  
WNAC WTAR WDBJ WGST WBRC WDOD  
WREC KRLD KLRA KFJF KLZ KDYL  
WBT KVI KFPY WNAX KOL WDAY

**12:00-1:00 Kay Kyser's Hotel New Yorker Orchestra**

WEAF WTMJ WRC WJDX WFJC WCFL  
WOW WWJ KSD WOC WHO WDAF  
WFLA KSTP WSUN WSB KSD

# INDEX BY FREQUENCIES AND DIAL NUMBERS

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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	---	Corvallis, 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.
WNOX	--	1000	X+	Knoxville, Tenn.
WPCG	*	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	Cazenovia, 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
CNSO	--	500	3	Ottawa, Ont.
KFSO	*--	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.

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

80		
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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.
WLBZ	--	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.
WGFB	†	500	1	Evansville, Ind.
WMAL	--	250	1+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.

72		
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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.  
 KPO † 5000 N San Francisco, Cal.  
 WPTF \* 1000 N Raleigh, N. C.

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

690 kilocycles 434.5 meters

CFAC -- 500 1 Calgary, Alta.  
 CFCN -- 500 1 Calgary, Alta.  
 CHCA -- 500 1 Calgary, Alta.  
 CJCJ -- 500 1 Calgary, Alta.  
 CJSC -- 5000 4 Toronto, Ont.  
 CKGW -- 5000 2N Toronto, Ont.  
 CNRC -- 500 1 Calgary, Alta.  
 CPRO -- 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  
 Canadian Pacific Railways  
 U. S. Navy  
 Canadian Marconi Co.

700 kilocycles 428.3 meters

WLW \* 50000 N Cincinnati, Ohio  
 XEZ -- 500 697 Mexico City, Mex.

Crosley Radio Corp.  
 Joaquin Zamacona

710 kilocycles 422.3 meters

KMPC -- 500 --- 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.  
 WLIB -- 25000 N Chicago, Ill.  
 8WMC -- 500 722 St. Johns, N. F.

Chicago Tribune  
 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  
 Sprott-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.

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.

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

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

## 790 kilocycles 379.5 meters

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

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

## 800 kilocycles 374.8 meters

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

Carter Publications, Inc.  
News & Journal  
Natalio Ulibarri

## 810 kilocycles 370.2 meters

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

Northwestern Broadcasting, Inc.  
Eastern Broadcasters, Inc.

## 820 kilocycles 365.6 meters

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

## 830 kilocycles 361.2 meters

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

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

## 840 kilocycles 356.9 meters

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

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

## 850 kilocycles 352.7 meters

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

Hello World Broadcasting Corp.  
United States Navy  
Loyola University

## 860 kilocycles 348.6 meters

KMO	--	500	+	Tacoma, Wash.
WABC	--	5000	1XC	New York City
WBQO	--	5000	1X	New York City
WHB	*	500	D	Kansas City, Mo.
XEJ	--	101	857	C. Juarez, Chih.

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

## 870 kilocycles 344.6 meters

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

Great Lakes Broadcasting Co.  
Agricultural Broadcasting Co.

## 880 kilocycles 340.7 meters

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

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

KCYS.  
880  
MTRS.  
340.7  
DIAL

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

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

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

### 890 kilocycles 336.9 meters

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

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	CP1	Buffalo, N. Y.
WJAX	*	1000	N	Jacksonville, Fla.
WKY	*	1000	N	Oklahoma City
WLBL	*	2000	D	Stevens Point, Wis.

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.

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

### 920 kilocycles 325.9 meters

CMHD	--	250	---	Caibarien, Cuba
HHK	--	1000	---	Port au Prince, Haiti
KFEL	+	500	1	Denver, Colo.
KFXF	*	500	1	Denver, Colo.
KOMO	+	1000	N	Seattle, Wash.
KPRC	--	1000	2+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.

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

### 930 kilocycles 322.4 meters

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

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

### 940 kilocycles 319.0 meters

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

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

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950 kilocycles 315.6 meters

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

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

960 kilocycles 312.3 meters

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

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

970 kilocycles 309.1 meters

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

--	--	--

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

980 kilocycles 305.9 meters

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

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

990 kilocycles 302.8 meters

WBZ	*	15000	INY	Springfield, Mass.
WBZA	*	500	INY	Boston, Mass.

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

1000 kilocycles 299.8 meters

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

--	--	--

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

1010 kilocycles 296.8 meters

CFLC	--	50	3	Prescott, Ont.
CKCR	--	50	3	Waterloo, Ont.
CMBZ	--	100	---	Havana, Cuba
CMCF	--	250	---	Havana, Cuba
KGGF	--	500	2Y	Ficher, Okla.
KQW	*	500	---	San Jose, Cal.
WPH	--	250	1	New York City
WIS	--	500	C+	Columbia, S. C.
WNAD	--	500	2	Norman, Okla.
WPAP	--	250	1	New York City
WQAO	--	250	1	New York City
WRNY	--	250	1	New York City

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Radio Association  
John Patterson  
Manuel y G. Salas  
Raul Karmen  
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	Chicago, Ill.
KYW	--	10000	1N	Chicago, Ill.
WRAX	--	250	D	Philadelphia, Pa.

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

1030 kilocycles 291.1 meters

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

--	--	--

Canadian Marconi Co.  
Canadian National Railways

1040 kilocycles 288.3 meters

KRLD	*	10000	1C	Dallas, Texas
KTHS	§	10000	1N	Hot Springs, Ark.
WKAR	--	1000	D	East Lansing, Mich.

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KRLD Radio Corp.  
Chamber of Commerce  
Michigan Agricultural College

KCYS.  
1040  
MTRS.  
288.3  
DIAL

CUT OUT ON DOTTED LINES

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1050 kilocycles 285.5 meters

KFKB -- 5000 X  
KNX \* 5000

Milford, Kansas  
Hollywood, Cal.

--	--	--

KFKB Broadcasting Assn., Inc.  
Western Broadcast Co.

1060 kilocycles 282.8 meters

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

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

--	--	--

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

1070 kilocycles 280.2 meters

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

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

--	--	--

Julius Brunton & Sons Co.  
Superior Broadcasting Service  
James L. Bush  
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 \* 5000 1CX  
XEL -- 10 ---

St. Louis, Mo.  
Saltillo, Coah.

--	--	--

Voice of St. Louis, Inc.  
Antonio Garza Castro

1100 kilocycles 272.6 meters

KGDM 1 \* 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.

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N. S. Dagleish & 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  
WQV -- 1000 D  
XEF -- 105 1131

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

--	--	--

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.

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Jose Ganduxa  
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

Muscataine, Iowa  
 Philadelphia, Pa.

Norman Baker  
 Universal Broadcasting Co

### 1180 kilocycles 254.1 meters

KEX -- 5000 2  
 KOB -- 20000 2  
 WDGY \* 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

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  
 KGFF † 100 ---  
 KGHI -- 100 ---  
 KGY -- 10 +  
 KMLB -- 50 DCP  
 KSMR -- 100 ---  
 KVOS -- 100 ---  
 KWG \* 100 ---  
 WABI † 100 ---  
 WABZ -- 100 1  
 WBBZ -- 100 ---  
 WCAT -- 100 ---  
 WCAX \* 100 2  
 WCLO † 100 ---  
 WCOD † 100 3  
 WEHC \* 100 +X  
 WEPS 100 ---  
 WFBC -- 50 ---  
 WFBE -- 100 +  
 WHBC -- 10 4S  
 WHBY -- 100 ---  
 WIBX -- 100 +  
 WIL -- 100 5+  
 WJBC \* 100 6  
 WJBL -- 100 6  
 WJBW -- 100 1  
 WKJC -- 100 3  
 WLAP -- 100 +  
 WLBG † 100 +  
 WMAZ \* 100 5+  
 WNEO \* 100 4  
 WNBW † 10 ---  
 WNBX -- 10 2  
 WORC -- 100 X  
 WDPF \* 100 8  
 WRAF \* 100 8  
 WRBL -- 50 ---  
 WWAE -- 100 8  
 XEA -- 101 ---  
 XES -- 250 ---  
 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.  
 C. Lerdo Dgo.  
 Wingham, Ont.

W. J. Beard's Temple of Music  
 The Hawkins-Craig Syndicate  
 Marshall Electric Co., Inc.  
 St. Louis Truth Center, Inc.  
 Mandan Radio Association  
 Jaren Drug Co.  
 J. Albert Loesch and George W. Wright  
 Beehler Elec. Equipment Co.  
 City of Fort Morgan  
 Ben S. McGlashan  
 Berean Bible Class  
 St. Martin's College  
 G. C. Limer  
 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 Sauza  
 Cerveceria de Durango, S. A.  
 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

--	--	--	--

CFCO	--	100	---
CFNB	--	50	---
CHWK	+	5	---
CJOR	*	50	---
CKMC	--	15	---
CKPC	+	25	---
KDFN	+	100	---
KDLR	--	100	---
KFOR	--	100	---
KFVS	--	100	+
KFXM	--	100	6
KGCR	--	100	9
KGMP	§	100	---
KGNO	---	100	---
KMJ	*	100	---
KPPC	§	50	---
KWEA	§	100	9
WALR	*	100	---
WBAX	---	100	1
WBBL	+	100	7S
WCBS	+	100	2
WCOH	* 100	3	---
WCRW	* 100	4	---
WDWF	--	100	5
WEBQ	--	100	6
WEDC	--	100	4
WGBB	* 100	3	---
WGCM	--	100	---
WHBF	--	100	---
WHBU	+	100	---
WIBA	--	500	XZ
WJBI	--	100	3
WJBU	--	100	1
WJBY	--	50	---
WJW	* 100	---	---
WLCI	* 50	---	---
WLSI	--	100	5
WMAN	+	50	X
WMBG	--	100	7
WMRJ	--	100	3
WOCL	--	25	---
WQMT	--	100	---
WPAW	* 100	5	---
WQDX	--	50	---
WRBQ	+	100	X+
WRBU	--	100	---
WSBC	* 100	4	---
WSIX	--	100	---
WTAX	--	50	2X

Chatham, Ont.
Fredericton, N. B.
Chilliwick, B. C.
Sea Island, B. C.
Cobalt, Ont.
Preston, Ont.
Casper, Wyo.
Devils Lake, N. D.
Lincoln, Nebr.
Cape Girardeau, Mo.
San Bernardino, Cal.
Watertown, S. D.
Elk City, Okla.
Dodge City, Kans.
Fresno, Cal.
Pasadena, Cal.
Shreveport, La.
Zanesville, Ohio
Wilkes-Barre, Pa.
Richmond, Va.
Springfield, Ill.
Yonkers, N. Y.
Chicago, Ill.
Providence, R. I.
Harrisburg, Ill.
Chicago, Ill.
Freeport, N. Y.
Gulfport, Miss.
Rock Island, Ill.
Anderson, Ind.
Madison, Wis.
Red Bank, N. J.
Lewisburg, Pa.
Gadsden, Ala.
Mansfield, Ohio
Ithaca, N. Y.
Providence, R. I.
Columbus, Ohio
Richmond, Va.
Jamaica, N. Y.
Jamestown, N. Y.
Manitowoc, Wis.
Pawtucket, R. I.
Thomasville, Ga.
Greenville, Miss.
Gastonia, N. C.
Chicago, Ill.
Springfield, Tenn.
Springfield, Ill.

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

1220 kilocycles 245.8 meters

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CMBC	*	100	1225
KFKU	--	1000	1
KWSC	--	500	X+
WCAD	--	500	D
WCAE	* 1000	N	---
WDAE	* 1000	C	---
WREN	* 1000	1N	---

Havana, Cuba
Lawrence, Kans.
Pullman, Wash.
Canton, N. Y.
Pittsburgh, Pa.
Tampa, Fla.
Lawrence, Kans.

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

1230 kilocycles 243.8 meters

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KFQD	--	100	---
KGGM	--	250	+
KYA	--	1000	---
WBIS	--	1000	2
WFBM	* 1000	1C	---
WNAC	* 1000	2C	---
WPCB	--	500	D
WSBT	* 500	1	---

Anchorage, Alaska
Albuquerque, N. Mex.
San Francisco, Cal.
Boston, Mass.
Indianapolis, Ind.
Boston, Mass.
State College, Pa.
South Bend, Ind.

Anchorage Radio Club
New Mexico Broadcasting Co.
Pacific Broadcasting Corp.
Shepard Broadcasting Service, Inc.
Indianapolis Power & Light Co.
Shepard Broadcasting Service, Inc.
Pennsylvania State College
South Bend Tribune

1240 kilocycles 241.8 meters

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KTAT	--	1000	1
WACO	+	1000	1
WXYZ	+	1000	C

Ft. Worth, Texas
Waco, Texas
Detroit, Mich.

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1250 kilocycles 239.9 meters

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

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

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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
KRGV	*	500	1
KVOA	--	500	D
KWWG	--	500	1
WLBW	--	500	C+
WTOC	*	500	C

Council Bluffs, Iowa
Harlingen, Texas
Tucson, Ariz.
Brownsville, Texas
Oil City, Pa.
Savannah, Ga.

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

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

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

1280 kilocycles 234.2 meters

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

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

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

1290 kilocycles 232.4 meters

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

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

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

1300 kilocycles 230.6 meters

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

Wichita, Kansas
Portland, Ore.
Los Angeles, Cal.
Los Angeles, Cal.
Portland, Ore.
Brooklyn, N. Y.
New York City
New York City
Troy, N. Y.
Miami Beach, Fla.
Kansas City, Mo.

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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	---
KFBK	--	100	---
KFGQ	--	100	7
KFIU	--	10	---
KFJY	§	100	7

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

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

KCY.S.  
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
KFXJ	--	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. Dearn
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.
WAGM	†	50	---	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WBOW	*	100	---	Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE	---	100	---	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	*	100	1	Joliet, Ill.	WCLS, Inc.
WDAH	---	100	2	El Paso, Texas	Eagle Broadcasting Co.
WEBR	*	100	+	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WFBG	---	100	3	Altoona, Pa.	Wm. F. Gable Co.
WFDF	---	100	---	Flint, Mich.	Frank D. Fallain
WFKD	---	50	4	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.
WNBJ	---	100	---	Knoxville, Tenn.	Stewart 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.
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
					Saenger Theatre & Maison Blanche Co.

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### 1330 kilocycles 225.4 meters

KGB	*	250	X	San Diego, Cal.	Pickwell 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.	Jesus R. Benavides

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### 1340 kilocycles 223.7 meters

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

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### 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.
WKBO	---	250	1	New York City	Standard Cahill Co., Inc.
WMSG	--	250	1	New York City	Madison Sq. Garden Brdcastg. Corp.

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## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1360 kilocycles 220.4 meters

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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

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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	---
KMAC	--	100	5
KONO	†	100	5
KOOS	--	100	---
KRE	--	100	6
KVL	--	100	3
KWKC	--	100	---
KZM	--	100	6
WBGF	†	50	---
WBTM	†	100	---
WCBM	--	100	+Z
WELK	--	100	+
WFDV	--	100	---
WGL	*	100	---
WHBD	*	100	---
WHBQ	--	100	---
WHDF	--	100	+
WIBM	--	100	1
WJBK	--	50	1
WLEY	--	100	+
WLVA	†	100	7
WMBR	†	100	---
WPOE	†	100	---
WQDM	*	5	D
WRAC	--	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  
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  
W. W. McAllister  
Mission Broadcasting Co.  
H. H. Hanseth, Inc.  
First Congregational Church  
KVL, Inc.  
Wilson Duncan Broadcasting Co.  
Leon P. Tenney  
W. N. Parker and H. H. Metcalfe  
Clarke Electric Co.  
Baltimore Broadcasting Corp.  
WELK Broadcasting Station, Inc.  
Dolies Goings  
Fred C. Zieg  
F. P. Moler  
Broadcasting Station WHBQ, Inc.  
Upper Michigan Broadcasting Co.  
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	---
KOV	†	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	CX

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

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

CUT OUT ON  
DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1400 kilocycles 214.2 meters

CMBY	--	200	1405
KLO	--	500	X
KOCW	*	250	+
WBAA	--	500	1
WBBC	--	500	2
WBCU	--	500	2
WCMA	--	500	1
WKBF	*	500	1
WLTH	*	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.

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

### 1410 kilocycles 212.6 meters

KFLV	†	500	4
KGRS	--	1000	1
WBCM	--	500	C
WDAG	--	250	1X
WBHL	*	500	4
WLEX	--	500	2
WMAF	--	500	2
WODX	--	500	3
WRBX	--	250	---
WSFA	†	500	3
WSSH	†	500	2

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

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

### 1420 kilocycles 211.1 meters

KBPS	--	100	4
KFIZ	--	100	---
KFOU	*	100	5X
KFOU	*	100	---
KFXD	--	100	XY
KFXV	--	100	---
KFYO	--	100	+
KGFF	--	100	---
KGCC	--	100	---
KGIW	--	100	5
KGIX	--	100	---
KGKX	--	100	---
KICK	*	100	---
KLPM	†	100	---
KORE	†	100	---
KTAP	§	100	---
KXL	--	100	4
KXYZ	--	100	X
WEDH	*	30	---
WEHS	--	100	2
WELL	--	50	X
WFDW	*	100	---
WHDL	§	10	D
WHFC	--	100	---
WHIS	†	100	2
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  
Steubenville, 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
WBKA	--	500	1X+
WCAH	*	500	1C
WGBC	*	500	2
WHP	*	500	1C
WNBR	*	500	2

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

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1440 kilocycles 208.2 meters

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

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Warner Bros.  
Hickson Electric & Radio Corp.  
B. B. Musselman  
Hickson Electric & Radio Corp.  
Peoria Heights Radio Laboratory  
North Carolina Broadcasting Co.  
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.
WCSO	--	500	1	Springfield, Ohio
WFJC	*	500	2N	Akron, 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.
WTFT	--	500	--	Toccoa, Ga.

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Tri-State Broadcasting System, Inc.  
WBMS Broadcasting Corp.  
Wittenberg College  
W. F. Jones Broadcast, Inc.  
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.

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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	X+	Corpus Christi, Texas
KGFK	†	50	--	Moorhead, Minn.
KGIZ	--	50	--	Grant City, Mo.
KGKB	--	100	--	Brownwood, Texas
KGKY	--	100	--	Scottsbluff, Nebr.
KPJM	*	100	--	Prescott, Ariz.
KPQ	†	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.
WLXB	--	100	1	Long Island City, N. Y.
WLOE	*	100	2+	Boston, Mass.
WMBB	--	100	--	Newport, R. I.
WMBJ	†	100	--	Pittsburgh, Pa.
WMBQ	--	100	1	Brooklyn, N. Y.
WMPC	†	100	--	Lapeer, Mich.
WNBF	--	100	--	Binghamton, N. Y.
WOPI	--	100	--	Bristol, Tenn.
WPEN	*	100	+	Philidelphia, Pa.
WRDW	*	100	CP	Augusta, Ga.
WRRL	--	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  
Wescoast Broadcasting Co.  
Pacific Western Broadcasting  
Columbia Broadcasting Co., Inc.  
Rice Hotel  
E. R. Irey and F. M. Bowles  
Arthur Faske  
Blair & Anderson  
Knox Battery & Electric Co.  
K. L. Ashbacher  
John N. Brahy  
Boston Broadcasting Co.  
LeRoy Joseph Beebe  
Rev. J. W. Sproul  
Paul J. Gollhofer  
First M. P. Church  
Hewitt-Wood Radio Co., Inc.  
Radiophone 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		Kcys.				
<b>ALABAMA</b>							
Birmingham O-21	5000	WAPI	1140	San Jose J-1	500	KQW	1010
	500	WBRC	930	Santa Ana M-3	100	KREG	1500
	100	WBBC	1310	Santa Barbara M-2	100	KDB	1500
Gadsden O-21	50	WJBY	1210	Santa Maria L-2	100	KSMR	1200
Mobile O-20	500	WODX	1410	Stockton J-2	250	KGDM	1100
Montgomery P-21	500	WSFA	1410		100	KWG	1200
Talladega O-21	100	WFDW	1420	<b>CANAL ZONE</b>			
				Balboa FF-26	750	NBA	850
<b>ALASKA</b>							
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
					100	KFUP	1310
<b>ARIZONA</b>							
Flagstaff M-7	100	KFXV	1420		500	KKFX	920
Jerome M-6	100	KCRJ	1310		1000	KLZ	560
Phoenix N-6	500	KOY	1390		12500	KOA	830
	500	KTAR	620		500	KPOF	880
Prescott M-6	100	KPJM	1500	Edgewater K-10	50	KFXJ	1310
	100	KGAR	1370	Fort Morgan J-11	100	KGWJ	1200
Tucson O-7	500	KVOA	1260	Greely J-11	500	KFKA	880
				Gunnison K-9	50	KFHA	1200
				Pueblo L-11	250	KGHF	1320
				Trinidad L-11	100	KGIV	1420
				Yuma J-12	50	KGEK	1200
<b>ARKANSAS</b>							
Blytheville M-19	50	KLCN	1290	<b>CONNECTICUT</b>			
Fayetteville M-16	1000	KUOA	1390	Bridgeport H-27	500	WICC	1190
Fort Smith N-16	50	KFPW	1340	Hartford H-27	50000	WTIC	1060
Hot Springs N-17	10000	KTHS	1040	New Haven H-27	500	WDRG	1330
Little Rock N-17	100	KGHI	1200	Storrs H-28	250	WCAC	600
	250	KGJF	890				
	1000	KLRA	1390	<b>DELAWARE</b>			
	500		1250	Wilmington J-26	250	WDEL	1120
Paragould M-18	100	KBTM	1200		100	WILM	1420
<b>CALIFORNIA</b>							
Berkeley J-2	100	KRE	1370	<b>DISTRICT OF COLUMBIA</b>			
Burbank M-3	500	KELW	780	Washington J-26	250	WMAL	630
Culver City M-3	250	KFVD	1000		500	WRC	950
El Centro N-4	100	KXO	1500		100	WOL	1310
Fresno K-2	100	KMJ	1210	<b>FLORIDA</b>			
Hayward J-1	100	KZM	1370	Clearwater R-24	1000	WFLA	620
Hollywood M-3	1000	KFWB	950	Gainesville Q-24	5000	WRUF	830
	5000	KNX	1050	Jacksonville Q-24	1000	WJAX	900
Holy City M-3	100	KFOU	1420	Miami T-25	1000	WQAM	560
Inglewood M-3	500	KMFC	1120	Miami Beach T-25	1000	WIOD	1300
Long Beach M-3	1000	KFOX	1250	Orlando R-24	500	WDBO	1120
	1000	KGER	1360	St. Petersburg S-24	1000	WSUN	620
Los Angeles M-3	1000	KECA	1430	Tampa R-24	1000	WDAE	1220
	5000	KFI	640		100	WMBR	1370
	500	KFSG	1120	<b>GEORGIA</b>			
	1000	KGFE	1300	Atlanta O-22	250	WGST	890
	100	KGfJ	1200		5000	WSB	740
	1000	KHJ	900	Augusta O-23	100	WRDW	1500
	500	KMPC	710	Columbus O-22	50	WRBL	1200
	500	KMTR	570	Macon O-23	250	WMAZ	890
	500	KTM	780	Rome N-22	100	WFDV	1370
	1000	KTBI	1300	Savannah O-24	500	WTQC	1260
Oakland J-1	250	KLS	1440	Thomasville Q-22	50	WQDX	1210
	500	KLX	880	Toccoa N-23	500	WTFI	1450
	500	KROW	930	<b>HAWAII</b>			
Pasadena M-3	50	KPPC	1210	Honolulu	500	KGMB	1320
	1000	KPSN	1360		500	KGU	940
Sacramento J-2	100	KFBK	1310	<b>IDAHO</b>			
San Bernardino M-3	100	KFXM	1210	Boise G-5	1000	KIDO	1250
San Diego N-3	500	KFSD	600	Idaho Falls G-7	500	KID	1320
	250	KGB	1330	Nampa G-5	50	KFXD	1420
San Francisco J-1	1000	KRFC	610	Pocatello H-7	250	KSEI	900
	500	KFWI	930	Sand Point D-6	100	KGKX	1420
	100	KGGC	1420	Twin Falls H-6	250	KGIQ	1320
	7500	KGO	790				
	100	KJBS	1070				
	5000	KPO	680				
	1000	KTAB	560				
	1000	KYA	1230				





## INDEX BY LOCATIONS WITH MAP KEY

New York City I-27	5000	WABC	860			
	250	WBNY	1350			
	5000	WBOQ	860			
	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			
	100	WPOE	1370			
	Patchogue I-27	500	WOKO	1440		
	Poughkeepsie H-27	500	WABO	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	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	WURL	1500			
Yonkers I-27	100	WCOH	1210			
<b>NORTH CAROLINA</b>						
Asheville M-23	1000	WWNC	570			
Charlotte M-24	5000	WBT	1080			
Gastonia M-24	100	WRBU	1210			
Greensboro M-24	500	WNRC	1440			
Raleigh M-25	1000	WPTF	680			
Wilmington N-26	100	WRBT	1370			
Winston-Salem M-24	100	WSJS	1310			
<b>NORTH DAKOTA</b>						
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			
<b>OHIO</b>						
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	1000	WHK	1390			
	500	WJAY	610			
	50000	WTAM	1070			
Columbus J-22	500	WAIU	640			
	500	WCAH	1430			
	750	WEO	570			
	50	WMAN	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			
Steubenville J-23	50	WIBR	1420			
Toledo I-22	500	WSPD	1340			
Youngstown I-23	500	WKBN	570			
Zanesville J-23	100	WALR	1210			
<b>OKLAHOMA</b>						
		Watts		Kcys.		
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			
<b>OREGON</b>						
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			
<b>PENNSYLVANIA</b>						
Adamsburg I-26	100	WGM	940			
Allentown J-26	250	WCBA	1440			
	250	WSAN	1440			
Altoona I-25	100	WFBG	1310			
Carbondale H-26	10	WNBW	1200			
Elkins Park I-26	50	WIBG	930			
Erie H-24	30	WEDH	1420			
Grove City I-26	100	WSAJ	1310			
Harrisburg I-25	500	WBAK	1430			
	100	WCOD	1200			
	500	WHP	1430			
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			
	500	KOV	1380			
	1000	WCAE	1220			
	1000	WJAS	1290			
	100	WMBJ	1500			
Reading I-26	50	WRAW	1310			
Scranton H-26	250	WGBI	880			
	250	WQAN	880			
State College I-25	500	WPSC	1230			
Washington J-24	100	WNBO	1200			
Wilkes-Barre I-26	100	WBAX	1210			
	100	WBRE	1310			
Williamsport I-25	50	WRAC	1370			
<b>PORTO RICO</b>						
San Juan W-34	500	WKAQ	890			
<b>RHODE ISLAND</b>						
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
	100	WNBJ	1310
	1000	WNOX	560

Lawrenceburg N-20	500	WOAN	600
Memphis M-19	500	WGBC	1430
	100	WHBQ	1370
	500	WMC	780
	500	WNBR	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
	100	KUT	1500
Austin Q-14	500	KFDM	560
Beaumont R-17	500	KWWG	1260
Brownsville U-15	100	KGKB	1500
Brownwood P-14	500	WTAW	1120
College Sta. Q-15	100	KGFI	1500
Corpus Christi S-14	10000	KRLD	1040
Dallas P-15	50000	WFAA	800
	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	KFUL	1290
Greenville O-15	15	KFPM	1310
Harlingen T-14	500	KRGV	1260
Houston R-16	1000	KPRC	920
	500	KTRH	1120
	100	KXYZ	1420
	100	KTLC	1310

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

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

### UTAH

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

<b>VERMONT</b>			
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
	250	WDBJ	930
	250	WRBX	1410

Roanoke L-24	250	WDBJ	930
	250	WRBX	1410

### WASHINGTON

Aberdeen D-2	75	KXRO	1310
Bellingham C-3	100	KVOS	1200
Everett C-3	50	KFBL	1370
Lacey D-3	10	KGY	1200
Longview D-3	100	KUJ	1500
Pullman E-5	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
	100	KFIO	1120
	1000	KFPY	1340
	5000	KGA	1470
	1000	KHQ	596
	500	KMO	860
	1000	KVI	700
	50	KPQ	1500
	50	KIT	1310

Spokane D-5	100	KFIO	1120
	1000	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	1210
	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			PRINCE EDWARD ISLAND		
	Watts	Kcys.		Watts	Kcys.
<b>ALBERTA</b>			Charlottetown C-31	250	CFCY 960
Calgary B-7	500	CFAC 690		30	CHCK 960
	500	CFCN 690	Summerside C-31	100	CHGS 1120
	500	CHCA 690	<b>QUEBEC</b>		
	500	CJJC 690	Montreal E-26	500	CFCF 1030
	500	CNRC 690		5000	CHYC 730
Edmonton A-8	250	CHMA 580		5000	CKAK 730
	500	CJCA 930		5000	CNRM 730
	500	CKUA 580	Quebec D-27	100	CHRC 880
Lethbridge C-8	50	CJOC 1120		22	CKCI 880
Red Deer A-8	1000	CHCT 840		50	CKCV 880
	1000	CKLC 840		50	CNRQ 880
	1000	CNRD 840	<b>SASKATCHEWAN</b>		
<b>BRITISH COLUMBIA</b>			Fleming C-13	500	CJRW 600
Chilliwack B-3	5	CHWK 1210	Moose Jaw C-11	500	CJRM 600
Kamloops B-5	15	CFJC 1120	Pilot Butte	500	CHWC 960
Sea Island	50	CJOR 1210	Regina C-12	500	CJBR 960
Vancouver B-3	50	CHLS 730		500	CKCK 960
	50	CKCD 730	Saskatoon B-11	500	CNRR 960
	50	CKFC 730		500	CFQC 910
	50	CKMO 730	Yorkton C-13	500	CNRS 910
	100	CKWX 730			CJGX 630
	500	CNRV 1030	<b>HAITI</b>		
Victoria C-3	500	CFCT 630	Port au Prince X-30	1000	HHK 920
<b>MANITOBA</b>			<b>MEXICO</b>		
Brandon D-14	500	CKX 540	Chihuahua, Chih. R-9	250	XFF 920
Winnipeg D-15	5000	CKY 780	Guadalajara, Jal. X-10	101	XEA 1200
	5000	CNRW 780	Jalapa, Ver. Y-14	350	XFC 630
			Jalapa, Ver. Y-14	101	XEJ 860
			Juarez, Chih.	105	XEY 550
			Merida, Yuc. X-19	1000	XEB 670
			Mexico City Y-13	1000	XEN 730
				101	XEO 980
				101	XER 1070
				500	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
			Salttillo, Coah.	10	XEL 1090
			Tampico, Tams.	501	XEM 840
				500	XES 890
			Toluca, Mex.	50	XEC 1330
			Veracruz, Ver.	101	XEU 800
			Villahermosa, Tab.	250	XFE 920
<b>NEW BRUNSWICK</b>			<b>CUBA</b>		
Fredericton D-29	50	CFNB 1210	Caibarien W-25	250	CMHD 920
Moncton D-30	500	CNRA 630	Cienfuegos W-25	200	CMHA 1150
St. John D-30	50	CFBO 890	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
				2000	CMK 730
				100	CMQ 1220
				1000	CMW 600
				500	CMX 900
				150	CMKC 1360
				500	CMHC 790
			Santiago X-28		
			Tuinucu		
<b>NEWFOUNDLAND</b>			<b>COSTA RICA</b>		
St. Johns A-35	500	8WMC 720	San Jose FF-23	50	TIX 750
<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	CKLJ 580			
	5000	CKGW 690			
	500	CKNC 580			
	4000	CNRT 840			
	5000	CNRY 960			
	50	CKCR 1010			
Waterloo G-23	50	CKCR 1010			
Wingham G-23	25	10-BP 1200			

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

**KFSD** 600  
 San Diego, Cal.  
**KFSG** 1120  
 Los Angeles, Cal.  
**KFUL** 1290  
 Galveston, Tex.  
**KFUM** 1270  
 Col. Spgs., Colo.  
**KFUO** 550  
 St. Louis, Mo.  
**KFUP** 1310  
 Denver, Colo.  
**KFVD** 1000  
 Culyer City, Cal.  
**KFVS** 1210  
 Cape Gir'rd'u, Mo  
**KFWB** 950  
 Hollywood, Cal.  
**KFWF** 1200  
 St. Louis, Mo.  
**KFWI** 930  
 San F'n'cisco, Cal.  
**KFXD** 1420  
 Nampa, Idaho  
**KFXF** 920  
 Denver, Colo.  
**KFXJ** 1310  
 Edgewater, Colo.  
**KFXM** 1210  
 San Ber'd'no, Cal.  
**KFXR** 1310  
 Oklahoma City  
**KFYX** 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 P't, Mont.  
**KGDA** 1370  
 Mitchell, S. D.  
**KGDE** 1200  
 Ferg's F'ls, Minn  
**KGDM** 1100  
 Stockton, Cal.  
**KGDY** 1200  
 Huron, S. D.  
**KGFE** 1300  
 Los Angeles, Cal.  
**KGFK** 1200  
 Yuma, Colo.  
**KGFR** 1360  
 Long Beach, Cal.  
**KGFW** 1200  
 Ft. Morgan, Colo.  
**KGEX** 1310  
 Kalispell, Mont.

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

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

**KPJM** 1500  
 Prescott, Ariz.  
**KPO** 680  
 San F'n'cisco, 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't'n, Kans.  
**KSCJ** 1330  
 Sioux City, Ia.  
**KSD** 550  
 St. Louis, Mo.  
**KSEI** 900  
 Pocatello, Idaho  
**KSL** 1130  
 Salt Lake City  
**KSMR** 1200  
 Santa Maria, Cal.  
**KSO** 1380  
 Clarinda, Iowa  
**KSOO** 1110  
 Sioux Falls, S.D.  
**KSTP** 1460  
 St. Paul, Minn.  
**KTAB** 560  
 San F'n'cisco, 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.  
**KTLC** 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	WCAE 1220 Pittsburgh, Pa.	WDEL 1120 Wilmington, Del.
KTSM 1310 El Paso, Texas	WABI 1200 Bangor, Maine	WCAH 1430 Columbus, Ohio	WDGY 1180 Minneap., Minn.
KTW 1270 Seattle, Wash.	WABO 1440 Rochester, N. Y.	WCAJ 590 Lincoln, Nebr.	WDIX 1500 Tupelo, Miss.
KUJ 1500 Longview, Wash.	WABZ 1200 New Orleans, La.	WCAL 1250 Northfield, Minn.	WDOD 1280 Chattan'ga, Tenn
KUOA 1390 Fayetteville, Ark.	WACO 1240 Waco, Texas	WCAM 1280 Camden, N. J.	WDRC 1330 N. Haven, Conn.
KUSD 890 Vermillion, S. D.	WADC 1320 Akron, Ohio	WCAO 600 Baltimore, Md.	WDSU 1250 New Orleans, La.
KUT 1500 Austin, Texas	WAGM 1310 Royal Oak, Mich.	WCAP 1280 Asbury Pk., N. J.	WDWF 1210 Providence, R. I.
KVI 760 Tacoma, Wash.	WAIU 640 Columbus, Ohio	WCAT 1200 Rapid City, S. D.	WDZ 1070 Tuscola, Ill.
KVL 1370 Seattle, Wash.	WALR 1210 Zanesville, Ohio	WCAU 1170 Philadelphia, Pa.	WEAF 660 New York City
KVOA 1260 Tucson, Arizona	WAPI 1140 Birmingham, Ala.	WCAX 1200 Burlington, Vt.	WEAI 1270 Ithaca, N. Y.
KVOO 1140 Tulsa, Okla.	WASH 1270 Gr. Rapids, Mich.	WCAZ 1070 Carthage, Ill.	WEAN 780 Providence, R. I.
KVOS 1200 Bellingh'm, Wash.	WBAA 1400 Lafayette, Ind.	WCB 1440 Allentown, Pa.	WEAO 570 Columbus, Ohio
KWCR 1310 Cedar Rapids, Ia.	WBAK 1430 Harrisburg, Pa.	WCB 1080 Zion, Ill.	WEBC 1290 Superior, Wis.
KWEA 1210 Shreveport, La.	WBAL 1060 Baltimore, Md.	WCBM 1370 Baltimore, Md.	WEHQ 1210 Harrisburg, Ill.
KWG 1200 Stockton, Cal.	WBAP 800 Fort Worth, Tex.	WCB 1210 Springfield, Ill.	WEHR 1310 Buffalo, N. Y.
KWJJ 1060 Portland, Ore.	WBAX 1210 Wilkes-Barre, Pa.	WCCO 810 Minneap., Minn.	WEDC 1210 Chicago, Ill.
KWK 1350 St. Louis, Mo.	WBBC 1400 Brooklyn, N. Y.	WCDA 1350 New York City	WEDH 1420 Erie, Pa.
KWK 1370 Kansas City, Mo.	WBBL 1210 Richmond, Va.	WCFL 970 Chicago, Ill.	WEI 590 Boston, Mass.
KWKH 850 Shreveport, La.	WBMM 770 Chicago, Ill.	WCGU 1400 Brooklyn, N. Y.	WEHC 1200 Emory, Va.
KWLC 1270 Decorah, Iowa	WBRR 1300 Brooklyn, N. Y.	WCKY 1490 Covington, Ky.	WEHS 1420 Evanston, Ill.
KWSC 1220 Pullman, Wash.	WBZF 1200 Ponca City, Okla.	WCLB 1500 Long Beach, N. Y.	WELK 1370 Philadelphia, Pa.
KWWG 1260 Brownsville, Tex.	WBCM 1410 Bay City, Mich.	WCLO 1200 Janesville, Wis.	WELL 1420 BattleCreek, Mich
KXA 570 Seattle, Wash.	WBEN 900 Buffalo, N. Y.	WCLS 1310 Joliet, Ill.	WENR 870 Chicago, Ill.
KXL 1420 Portland, Ore.	WBGF 1370 Glens Falls, N. Y.	WCM 1400 Culver, Ind. N. Y.	WEPS 1200 Worcester, Mass.
KXO 1500 El Centro, Cal.	WBIS 1230 Boston, Mass.	WCOC 880 Meridian, Miss.	WEVD 1300 New York City
KXRO 1310 Aberdeen, Wash	WBMS 1450 Hackensack, N.J.	WCOD 1200 Harrisburg, Pa.	WEW 760 St. Louis, Mo.
KXYZ 1420 Houston, Texas	WBNY 1350 New York City	WCOH 1210 Yonkers, N. Y.	WFAA 800 Dallas, Texas
KYA 1230 San F'nsciso, Cal.	WBOQ 860 New York City	WCRW 1210 Chicago, Ill.	WFAN 610 Philadelphia, Pa.
KYW 1020 Chicago, Ill.	WBOW 1310 Terre Haute, Ind.	WCSC 1360 Charleston, S. C.	WFBC 1200 Knoxville, Tenn.
KZM 1370 Hayward, Cal.	WBRC 930 Birmingham, Ala.	WCSH 940 Portland, Maine	WFBE 1200 Cincinnati, Ohio
NAA 690 Arlington, Va.	WBRE 1310 Wilkes-Barre, Pa.	WCOS 1450 Springfield, Ohio	WFBG 1310 Altoona, Pa.
NBA 850 Balboa, C. Z.	WBSS 920 Well'TyH's, Mass	WDAE 1220 Tampa, Fla.	WFB 1360 Syracuse, N. Y.
TIX 750 San Jose, C. R.	WBT 1080 Charlotte, N. C.	WDAF 610 Kansas City, Mo.	WFBM 1230 Indianapolis, Ind.
VAS 690 Louisburg, N. S.	WBTM 1370 Danville, Va.	WDAG 1410 Amerillo, Texas	WFR 1270 Baltimore, Md.
WAFF 920 Chicago, Ill.	WBZ 990 Springfield, Mass.	WDAH 1310 El Paso, Texas	WDFD 1310 Flint, Mich.
WAAM 1250 Newark, N. J.	WBZA 990 Boston, Mass.	WDAY 940 Fargo, N. D.	WFDV 1370 Rome, Ga.
WAAT 940 Jersey City, N. J.	WCAC 600 Storrs, Conn.	WDBJ 930 Roanoke, Va.	
WAAW 660 Omaha, Nebr.	WCAD 1220 Canton, N. Y.	WDBO 1120 Orlando, Fla.	

WFDW 1420  
Talladega, Ala.  
WFI 560  
Philadelphia, Pa.  
WFIW 940  
Hopkinsville, Ky.  
WFJC 1450  
Akron, Ohio  
WFKD 1310  
Philadelphia, Pa.  
WFLA 620  
Clearwater, Fla.  
WGAL 1310  
Lancaster, Pa.  
WGBB 1210  
Freeport, N. Y.  
WGBC 1430  
Memphis, Tenn.  
WGBF 630  
Evansville, Ind.  
WGBI 880  
Scranton, Pa.  
WGBS 600  
New York City  
WGCM 1210  
Gulfport, Miss.  
WGCP 1250  
Newark, N. J.  
WGES 1360  
Chicago, Ill.  
WGH 1310  
Newsp't News, Va.  
WGL 1370  
Ft. Wayne, Ind.  
WGM 840  
Adamsburg, Pa.  
WGMS 1250  
St. Paul, Minn.  
WGN 720  
Chicago, Ill.  
WGR 550  
Buffalo, N. Y.  
WGST 890  
Atlanta, Ga.  
WGY 790  
Schenec'd'y, N. Y.  
WHA 940  
Madison, Wis.  
WHAD 1120  
Milwaukee, Wis.  
WHAM 1150  
Rochester, N. Y.  
WHAP 1300  
New York City  
WHAS 820  
Louisville, Ky.  
WHAT 1310  
Philadelphia, Pa.  
WHAZ 1300  
Troy, N. Y.  
WHB 860  
Kansas City, Mo.  
WHBC 1200  
Canton, Ohio  
WHBD 1370  
Mt. Orab, O.  
WHBF 1210  
Rock Island, Ill.  
WHBL 1410  
Sheboygan, Wis.  
WHBQ 1370  
Memphis, Tenn.  
WHBU 1210  
Anderson, Ind.  
WHBY 1200  
Green Bay, Wis.

WHDF 1370  
Calumet, Mich.  
WHDH 830  
Boston, Mass.  
WHDI 1180  
Minneapolis, Minn.  
WHDL 1420  
TupperLake, N. Y.  
WHEC 1440  
Rochester, N. Y.  
WHFC 1420  
Cicero, Ill.  
WHIS 1420  
Bluefield, W. Va.  
WHK 1390  
Cleveland, Ohio  
WHN 1010  
New York City  
WHO 1000  
Des Moines, Ia.  
WHOM 1450  
Jersey City, N. J.  
WHP 1430  
Harrisburg, Pa.  
WIAS 1420  
Ottumwa, Iowa  
WIBA 1210  
Madison, Wis.  
WIBG 930  
Elkins Park, Pa.  
WIBM 1370  
Jackson, Mich.  
WIBO 560  
Chicago, Ill.  
WIBR 1420  
Steubenville, O.  
WIBU 1310  
Poynette, Wis.  
WIBW 580  
Topeka, Kansas  
WIBX 1200  
Utica, N. Y.  
WICC 1190  
Bridgeport, Conn.  
WIL 1200  
St. Louis, Mo.  
WILL 890  
Urbana, Ill.  
WILM 1420  
Wilmington, Del.  
WIOD 1300  
Miami Beh., Fla.  
WIP 610  
Philadelphia, Pa.  
WIS 1010  
Columbia, S. C.  
WISJ 780  
Madison, Wis.  
WISN 1120  
Milwaukee, Wis.  
WJAC 1310  
Johnstown, Pa.  
WJAG 1060  
Norfolk, Nebr.  
WJAK 1310  
Marion, Ind.  
WJAR 890  
Providence, R. I.  
WJAS 1290  
Pittsburgh, Pa.  
WJAX 900  
Jacksonville, Fla.  
WJAY 610  
Cleveland, Ohio  
WJAZ 1490  
Chicago, Ill.

WJBC 1200  
La Salle, Ill.  
WJBI 1210  
Red Bank, N. J.  
WJBK 1370  
Detroit, Mich.  
WJBL 1200  
Decatur, Ill.  
WJBO 1420  
New Orleans, La.  
WJBT 770  
Chicago, Ill.  
WJBU 1210  
Lewisburg, Pa.  
WJBW 1200  
New Orleans, La.  
WJBY 1210  
Gadsden, Ala.  
WJDX 1270  
Jackson, Miss.  
WJDD 1130  
Mooseheart, Ill.  
WJKS 1360  
Gary, Ind.  
WJR 750  
Detroit, Mich.  
WJSV 1460  
Alexandria, Va.  
WJW 1210  
Mansfield, Ohio  
WJZ 760  
New York City  
WKAQ 890  
San Juan, P. R.  
WKAR 1040  
E. Lansing, Mich.  
WKAV 1310  
Laconia, N. H.  
WKBB 1310  
Joliet, Ill.  
WKBC 1310  
Birmingham, Ala.  
WKBF 1400  
Indianapolis, Ind.  
WKBB 1380  
La Crosse, Wis.  
WKBI 1420  
Chicago, Ill.  
WKBN 570  
Youngstown, O.  
WKBO 1450  
Jersey City, N. J.  
WKBRQ 1350  
New York City  
WKBS 310  
Galesburg, Ill.  
WKBY 1500  
Cannonsville, Ind.  
WKBW 1480  
Buffalo, N. Y.  
WKBZ 1500  
Ludington, Mich.  
WKJC 1200  
Lancaster, Pa.  
WKRC 550  
Cincinnati, O.  
WKY 900  
Oklahoma City  
WKZO 590  
Be'n Spgs., Mich.  
WLAC 1470  
Nashville, Tenn.  
WLAP 1200  
Louisville, Ky.  
WLB 1250  
St. Paul, Minn.

WLBC 1310  
Muncie, Ind.  
WLBF 1420  
Kansas City, Ks.  
WLBG 1200  
Ettrick, Va.  
WLBL 900  
Stevens Pt., Wis.  
WLBW 1260  
Oil City, Pa.  
WLBX 1500  
L.I. City, N. Y.  
WLBZ 620  
Bangor, Me.  
WLCI 1210  
Ithaca, N. Y.  
WLEX 1410  
Lexington, Mass.  
WLEY 1370  
Lexington, Mass.  
WLIB 720  
Chicago, Ill.  
WLIT 560  
Philadelphia, Pa.  
WLOE 1500  
Boston, Mass.  
WLS 870  
Chicago, Ill.  
WLSI 1210  
Providence, R. I.  
WLTH 1400  
Brooklyn, N. Y.  
WLVA 1370  
Lynchburg, Va.  
WLW 700  
Cincinnati, Ohio  
WLWL 1100  
New York City  
WMAC 570  
Cazenovia, N. Y.  
WMAF 1410  
S. D'rtm'th, Mass.  
WMAL 630  
Washington, D. C.  
WMAN 1210  
Columbus, Ohio  
WMAQ 670  
Chicago, Ill.  
WMAY 1200  
St. Louis, Mo.  
WMAZ 890  
Macon, Ga.  
WMBA 1500  
Newport, R. I.  
WMBC 1420  
Detroit, Mich.  
WMBD 1440  
Peoria Hghts., Ill.  
WMBG 1210  
Richmond, Va.  
WMBH 1420  
Joplin, Mo.  
WMBI 1080  
Chicago, Ill.  
WMBJ 1500  
Pittsburgh, Pa.  
WMBO 1310  
Auburn, N. Y.  
WMBQ 1500  
Brooklyn, N. Y.  
WMBR 1370  
Tampa, Fla.  
WMC 780  
Memphis, Tenn.  
WMCA 570  
New York City

WMMN 890	WORD 1490	WRHM 1250	WTNT 1470
Fairmont, W. Va.	Chicago, Ill.	Minneap., Minn.	Nashville, Tenn.
WAPC 1500	WOS 630	WRJN 1370	WTCC 1260
Lapeer, Mich.	Jeff's'n City, Mo.	Racine, Wis.	Savannah, Ga.
WMRJ 1210	WOV 1130	WRNY 1010	WWAE 1200
Jamaica, N. Y.	New York City	New York City	Hammond, Ind.
WMSG 1350	WOW 590	WRR 1280	WWJ 920
New York City	Omaha, Nebr.	Dallas, Texas	Detroit, Mich.
WMT 600	WOWO 1160	WRUF 830	WWL 850
Waterloo, Iowa	Ft. Wayne, Ind.	Gainesville, Fla.	New Orleans, La.
WNAC 1230	WPAD 1420	WRVA 1110	WWNC 570
Boston, Mass.	Paducah, Ky.	Richmond, Va.	Asheville, N. C.
WNAD 1010	WPAP 1010	WSAI 1330	WWRL 1500
Norman, Okla.	New York City	Cincinnati, Ohio	Woodside, N. Y.
WNAX 570	WPAW 1210	WSAJ 1310	WWVA 1160
Yankton, S. D.	Pawtucket, R. I.	Grove City, Pa.	Wheeling, W. Va.
WNBF 1500	WPCC 560	WSAN 1440	WYXZ 1240
Bingh'tn'n, N. Y.	Chicago, Ill.	Allentown, Pa.	Detroit, Mich.
WNBH 1310	WPCH 810	WSAR 1450	XEA 1200
New B'd'rd, Mass.	New York City	Fall River, Mass.	Guadalajara, Jal.
WNBJ 1310	WPDF 1200	WSAZ 580	XEB 670
Knoxville, Tenn.	Flint, Mich.	Hunt'gton, W. Va.	Mexico City
WNBO 1200	WPEN 1500	WSB 740	XEC 1330
Washington, Pa.	Philadelphia, Pa.	Atlanta, Ga.	Toluca, Mex.
WNRH 1430	WPGL 1100	WSBC 1210	XED 770
Memphis, Tenn.	Atl'ntic City, N.J.	Chicago, Ill.	Reynosa, Tams.
WNBW 1200	WPOE 1370	WSBT 1230	XEF 1130
Carbondale, Pa.	Patchogue, N. Y.	South Bend, Ind.	Oaxaca, Oax.
WNBX 1200	WPOF 780	WSFA 1410	XEH 960
Springfield, Vt.	Norfolk, Va.	Montgomery, Ala.	Monterrey, N. L.
WNBZ 1200	WPSC 1230	WSGH 1400	XEI 1000
Sarasac'L'ke, N. Y.	State College, Pa.	Brooklyn, N. Y.	Morelia, Mich.
WNJ 1450	WPTF 680	WSIX 1210	XEJ 860
Newark, N. J.	Raleigh, N. C.	Springfield, Tenn.	Juarez, Chih.
WNOK 560	WQAM 560	WSJS 1310	XEL 1090
Knoxville, Tenn.	Miami, Fla.	Winst.-Sal., N. C.	Saltillo, Coah.
WNRC 1440	WQAN 880	WSM 650	XEM 840
Greensboro, N. C.	Scranton, Pa.	Nashville, Tenn.	Tampico, Tams.
WNYC 570	WQAO 1010	WSMB 1320	XEN 730
New York City	New York City	New Orleans, La.	Mexico City
WOAI 1190	WQDM 1370	WSMK 1380	XEO 980
San Antonio, Tex.	St. Albans, Vt.	Dayton, Ohio	Mexico City
WOAN 600	WQDV 1500	WSPA 1420	XER 1070
Law'nceb'g, Tenn.	Tupelo, Miss.	Spartanburg, S.C.	Mexico City
WOAX 1280	WQDX 1210	WSPD 1340	XES 890
Trenton, N. J.	Thomasville, Ga.	Toledo, Ohio	Tampico, Tamp.
WOBT 1310	WRAF 1200	WSSH 1410	XET 620
Union City, Tenn.	La Porte, Ind.	Boston, Mass.	Monterrey, N. L.
WOBU 580	WRAK 1370	WSUI 880	XEU 800
Charlest'n, W. Va.	Williamsport, Pa.	Iowa City, Ia.	Veracruz, Ver.
WOC 1000	WRAW 1310	WSUN 620	XEW 780
Davenport, Iowa	Reading, Pa.	St. Petersbg, Fla.	Mexico City
WOCL 1210	WRAX 1020	WSVS 1370	XEX 920
Jamestown, N. Y.	Philadelphia, Pa.	Buffalo, N. Y.	Mexico City
WODA 1250	WRBJ 1370	WSYR 570	XEY 550
Paterson, N. J.	Hattiesburg, Miss	Syracuse, N. Y.	Merida, Yuc.
WODX 1410	WRBL 1200	WTAD 1440	XEZ 700
Mobile, Ala.	Columbus, Ga.	Quincy, Ill.	Mexico City
WOI 640	WRBQ 1210	WTAG 580	XFA 540
Ames, Iowa	Greenville, Miss.	Worcester, Mass.	Mexico City
WOKO 1440	WRBT 1370	WTAM 1070	XFC 630
P'ghkeepsie, N. Y.	Wilmington, N. C.	Cleveland, Ohio	Jalapa, Ver.
WOL 1310	WRBU 1210	WTAQ 1330	XFE 920
Washington, D. C.	Gastonia, N. C.	Eau Claire, Wis.	Villahermosa, Tab
WOMT 1210	WRBX 1410	WTAR 780	XFF 920
Manitowoc, Wis.	Roanoke, Va.	Norfolk Va.	Chihuahua, Chih.
WOOD 1270	WRC 950	WTAW 1120	XFG 640
Gr. Rapids, Mich.	Washington, D. C.	College Sta., Tex.	Mexico City
WOOP 840	WRDO 1370	WTAX 1210	XFI 590
Jeannette, Pa.	Augusta, Me.	Springfield, Ill.	Mexico City
WOPI 1500	WRDW 1500	WTBO 1420	XFX 840
Bristol, Tenn.	Augusta, Ga.	Cumberland, Md.	Mexico City
WOQ 1300	WREC 600	WTFI 1450	8WMC 720
Kansas City, Mo.	Memphis, Tenn.	Toccoa, Ga.	St. Johns, N. F.
WOR 710	WREN 1220	WTIC 1060	10BP 1200
Newark, N. J.	Lawrence, Kans.	Hartford, Conn.	Wingham, Ont.
WORC 1200		WTMJ 620	
Worcester, Mass.		Milwaukee, Wis.	

# The World Stations by Countries

Country and City	Call	Kcys.	Watts	Country and City	Call	Kcys.	Watts
<b>OCEANIA AND AFRICA</b>				<b>HONG KONG</b>			
<b>AUSTRALIA</b>				Victoria Peak	ZBW	857	1500
Adelaide	5CL	733	2500	<b>INDIA</b>			
	5DN	958	250	Bombay	VUB	840	3000
	5KA	1199	500	Calcutta	VUC	810	3000
Bathurst	2MK	1153	125	<b>JAPAN</b>			
Brisbane	4QG	779	2500	Hirasio	JHBB	7995	-----
Hobart	7ZL	581	1500	Hiroshima	JOFK	849	10000
Melbourne	3AR	620	2500	Kumamoto	JOJG	789	10000
	3DB	1176	250	Nagoya	JOCK	810	10000
	3LO	9369	2500	Osaka	JOJB	750	10000
		808	-----	Sapporo	JOIK	831	10000
Perth	6WF	689	2500	Sendai	JOHK	769	10000
Sydney	2BL	9225	2500	Taihoku	JFAK	353	1000
		849	-----	Taipeh	JFAB	7590	-----
	2FC	10520	2500	Tokyo	JOAK	869	10000
		665	-----	<b>KWANGTUNG</b>			
	2GB	949	1500	Dairen	JQAK	759	5000
	2KY	1071	750	<b>NETHERLAND EAST</b>			
	2ME	10520	-----	<b>INDIES</b>			
	2UE	1023	125	Bandoeng	IBR	5170	1000
	2UW	1123	250	Batavia	PK1AA	3998	500
<b>NEW ZEALAND</b>				Djokjakarta	PK2AF	5996	500
Auckland	1YA	900	500	Makassar	PK6KZ	7313	500
	1ZQ	1188	-----	Malabar	PLF	17640	-----
Christchurch	3YA	980	500	Palembang	PK4PA	59964	240
	3ZC	5996	250	Semarang	PK2AG	-----	-----
		1199	-----	Surabaya	PH3CH	6662	250
Dunedin	4YA	648	500			2142	500
Gisborne	2ZM	1147	160	<b>SOUTHERN EUROPE</b>			
Palmerston	2ZF	1049	150	<b>ALBANIA</b>			
Wellington	2YA	718	5000	Tirana	-----	-----	300
<b>ALGERIA</b>				<b>AUSTRIA</b>			
Algiers	8DB	967	100	Graz	-----	851	7000
		823	12000	Innsbruck	-----	1058	500
<b>CANARY ISLANDS</b>				Klagenfurt	-----	662	500
Las Palmas	EAR5	857	200	Linz	-----	1220	500
<b>EGYPT</b>				Vienna	-----	581	15000
Cairo	-----	869	-----	<b>FRANCE</b>			
		909	-----	Agen	F2BD	963.1	480
<b>KENYA</b>						9761	-----
Nairobi	7LO	8950	2000	Angers	-----	1091	250
		750	-----	Beziers	-----	1364.3	1500
<b>MOROCCO</b>				Biarritz	-----	1515	250
Casablanca	AIN	5879	-----	Bordeaux	-----	1199.5	5000
Rabat	-----	6877	2500			986	1500
		724	-----	Caen	-----	1030	200
<b>TUNISIA</b>				Grenoble	-----	914.1	1500
Carthage	TNU	162	-----	Juan les Pins	-----	1219	250
Constantine	8KR	7005	-----	Lille	-----	1132.1	500
Tunis	TUA	240	500	Limoges	-----	1022	500
<b>UNION OF SOUTH AFRICA</b>				Lyon	YN	644	3000
Cape Town	ZTC	800	1000		YR	1029.9	500
Durban	ZTD	789	1000			7462.7	-----
Johannesburg	ZTJ	9369	15000	Marsan	-----	750	250
		676	-----	Marseilles	-----	950	500
				Montpellier	-----	1049	200
<b>ASIA</b>				Nancy	-----	19355	-----
<b>BRITISH MALAYA</b>				Nice (see Juan les Pins)			
Singapore	VS1AB	7260	-----	Nimes	-----	1250	500
Johore	VS3AB	7055	-----	Nogent-sur-Seine	F8AV	3750	-----
<b>CEYLON</b>				Paris	FL	9375	15000
Colombo	-----	375	1750			214.4	-----
<b>CHINA</b>						113.2	-----
Canton	CAB	689	1000		FPTT	671	1000
Hangchow	XGY	895	250		F8GC	825	1500
Harbin	COHB	674	1000			4262.3	-----
Mukden	COMK	714	2000			905.2	500
Nanking	XGZ	606	500			174	13500
Peking	COPK	937	1000			967.8	2000
Shanghai	KRC	887	250			7317.1	-----
Tientsin	CRC	1071	500			1103	1500
	COTN	625	500	Rennes	-----	777.2	500
<b>CHOSEN (KOREA)</b>				Rheims	-----	1363.6	250
Heijo (Seoul)	JODK	714	1000	St. Etienne	-----	1200	500
<b>FRENCH INDO CHINA</b>				Toulon	-----	1175	1500
Haiphong	-----	3446	2500	Toulouse	MRD	770.2	8000

Country and City	Call	Keys.	Watts	Country and City	Call	Keys.	Watts
<b>HUNGARY</b>				<b>Norddeich</b> ----- 167 1000			
Budapest	-----	545	20000	Nuremberg	-----	1254	1000
<b>ITALY</b>				Schaerbeck	-----	1304	-----
Bolzano	IBZ	662	200	Stettin	-----	1059	750
Genoa	IGE	779	1200	Stuttgart	-----	833	4000
Milan	IMI	599	7000	<b>IRISH FREE STATE</b>			
Naples	INA	905.2	1500	Cork	6CK	1337	1000
Rome	IRO	680	3000	Dublin	2RN	940	1500
<b>PORTUGAL</b>				<b>LUXEMBURG</b>			
Lisbon	PIAA	983.6	500	Luxemburg	LOAA	1344	10000
<b>RUMANIA</b>				<b>NETHERLANDS</b>			
Bucharest	-----	758.9	12000	Hilversum	PFBI	280	7000
<b>SPAIN</b>				Huizen	PHI	17778	40000
Almeria	EAJ18	1195.2	200		PH9	1006	6200
Barcelona	EAJ1	855	7500	Scheveningen	PCF	160	1500
	EAJ13	1119.4	10000	<b>UNITED KINGDOM</b>			
Madrid	EAJ2	750	750	Aberdeen	2BD	995	1000
	EAJ7	707.6	1500	Belfast	2BE	1238	1000
	EAM	9772	-----	Bournemouth	6BM	1040	1000
San Sebastian	EAJ5	809.2	1000	Cardiff	5WA	968	1000
Seville	-----	809.2	-----	Daventry	5XX	193	25000
<b>SWITZERLAND</b>					5GB	626	25000
Basel	-----	297	250	Dundee	2DE	1040	130
Berne	-----	743	1000	Edinburgh	2EH	1040	350
	-----	9375	-----	Glasgow	5SC	752	1000
Geneva	-----	395	250	Hull	6KH	1040	130
Lausanne	-----	441	600	Leeds & Bradford	2LS	1500	130
Zurich	H9XD	3529.4	-----		-----	1040	-----
	-----	9375	-----	Liverpool	6LV	1040	130
	-----	653	630	London	2LO	842	30000
<b>YUGOSLAVIA</b>					-----	1150	-----
Belgrade	-----	695	2500	Manchester	2ZY	797	1000
Ljubljana	-----	527.3	3000	Newcastle	5NO	1148	1000
Zagreb	-----	977	700	Plymouth	5PY	1040	130
	-----	-----	-----	Sheffield	6FL	1040	130
	-----	-----	-----	Stoke on Trent	6ST	1040	130
	-----	-----	-----	Swansea	5SX	1040	130
<b>WESTERN EUROPE</b>							
<b>BELGIUM</b>				<b>NORTHERN EUROPE</b>			
Brussels	ON4GT	1375	100	<b>CZECHOSLOVAKIA</b>			
	ON4RB	589	3600	Bratislava	OKR	1075	12500
Chatelineau	ON4CE	1388	200	Brunn	OKB	877	2500
Ghent	ON4RG	1219	400	Kosice	OKK	1023	2500
Liege	ON4RW	1219	200	Prague	OKP	616	5000
<b>DANZIG</b>					OK1MPI	5169	5000
Danzig	PTB	689	500	<b>DENMARK</b>			
<b>GERMANY</b>				Copenhagen	-----	1067	1000
Aix la Chapelle	-----	662	700	Kalundborg	-----	260	7500
Augsburg	-----	535	700	Lyngby	-----	15300	500
Berlin	-----	717	4000		-----	9488	-----
	AFT	5552	10000		-----	6057	-----
	-----	231	-----	Soro	-----	3088	2000
	-----	1635	-----	<b>ESTONIA</b>			
	-----	1059	2000	Tallinn	-----	1013	10000
	-----	119	-----		-----	250	100
Bremen	-----	884	700	Tartu	-----	735	2200
Breslau	-----	1185	4000	<b>FINLAND</b>			
Cologne	-----	1321	4000	Abo	-----	1219	-----
Doberitz	-----	4434	-----	Bjorenborg (Pori)	-----	1219	1500
	-----	7963	-----	Helsingfors	-----	1357	10000
Dortmund	-----	1059	1500	Jakobstad	-----	1219	750
Dresden	-----	940	750	Jyvaskyla	-----	1009	200
Elberfeld	-----	639	750	Lahti	-----	166	40000
Flensburg	-----	1379	1500	Tammerfors	-----	-----	700
Frankfort on Main	-----	769	1500	Vipuri	-----	1030	750
Freiburg	-----	524	1500	<b>ICELAND</b>			
Gleiwitz	-----	925	3000	Akureyri	G2SH	1560	-----
Hamburg	-----	806	4000	Reykjavik	-----	8995	500
Hanover	-----	535	750	<b>LATVIA</b>			
Kaiserslautern	-----	1110	4000	Riga	YLZ	571	10000
Kassel	-----	1219	750	<b>LITHUANIA</b>			
Kiel	-----	1219	700	Kovno	RYK	155	7000
Konigsberg	-----	1086	4000	<b>NORWAY</b>			
Langenburg	-----	634	8000	Aalesund	LKA	671	350
Leipzig	-----	1158	4000	Bergen	LKB	824	1000
Ludwigshaven	-----	1471	1500		LGN	9994	-----
Magdeburg	-----	1059	-----	Fredrikstad	LKF	779	700
Muenster	-----	1281	1500	Hamar	LKH	526	700
Munich	-----	563	4000		-----	-----	-----
Nauen	AGC	17430	-----		-----	-----	-----
	AGJ	5290	-----		-----	-----	-----





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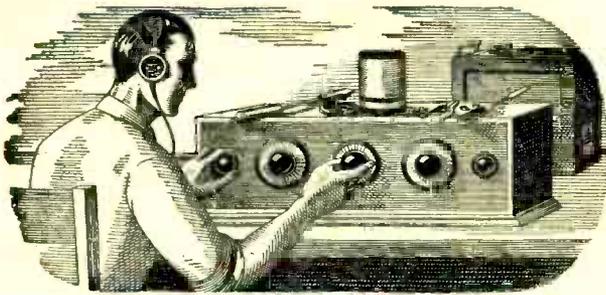
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*If all the Radio sets I've "fooled" with in my time were piled on top of each other, they'd reach about half way to Mars. The trouble with me was that I thought I knew so much about Radio that I really didn't know the first thing. I thought Radio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

# I Thought Radio Was a Plaything

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

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

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

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

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

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

Up to a year ago, I was just a dabbler—I thought Radio was a plaything. I never realized what an enormous, fast-growing industry Radio had come to be—employing thousands and thousands of trained men. I usually stayed home in the evenings after work, because I didn't make enough money to go out very much.

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

"You're kidding me," I said.

"I'm not," he replied. "Take a look at this ad."

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

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

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

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

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

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

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

Take another tip—No matter what your plans are, no matter how much or how little you know about Radio—clip the coupon below and look their free book over. It is filled with interesting facts, figures, and photos, and the information it will give you is worth a few minutes of anybody's time. You will place yourself under no obligation—the book is free, and is gladly sent to anyone who wants to know about Radio. Just address J. E. Smith, President, National Radio Institute, Dept. OL52, Washington, D. C.

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National Radio Institute, Dept. OL52,  
Washington, D. C.

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

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