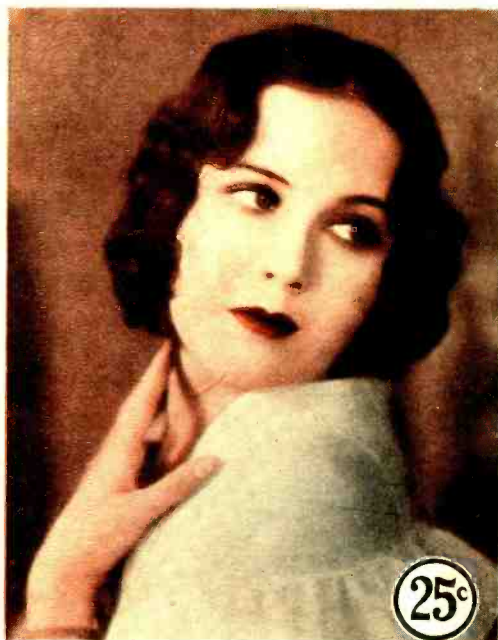


THE APRIL 1930

RADIO INDEX

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IN
THIS
ISSUE:

{ Can You Use Screen Grid Tubes?
A Radio Vision Set for the Home
The Radio DX League of the World
Attaching Head Phones to Modern Sets
Crystal Set Brings in Ninety Stations

My **NEW BOOK** is ready for you

You will find a true picture of Radio's many opportunities for a good job in this book. Send for a copy. Simply clip and mail the coupon below. There is no obligation. After you have read it you can decide one way or another. I am showing hundreds every year how to make more money in Radio than they were making in other fields. If you are making less than \$50 a week this book will probably show you how you can increase your salary \$1,000 or more in due time also.

**Radio's growth is opening many
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every year**

Broadcasting stations use engineers, operators, station managers, and pay \$1,800 to \$5,000 a year. Radio manufacturers employ testers, inspectors, foremen, engineers, service men, buyers and managers for jobs paying up to \$15,000 a year. Shipping companies use hundreds of operators, give them world-wide travel and \$85 to \$200 a month besides. Radio dealers and jobbers (there are over 35,000) are continually on the lookout for good service men, salesmen, buyers, managers, and pay \$30 to \$100 a week for good men. Commercial land stations now being built will probably need 1000 trained men in the next two years. Talking movies pay as much as \$75 to \$200 a week to men with radio training. Besides there are opportunities almost everywhere for you to have a spare time or full time radio business of your own—to be your own boss.

**I will train you at home — Give you
practical Radio experience**

Hold your job until you are ready for another. Give me only part of your spare time. I'll give you what you need to know to break into Radio. My 8 Outfits of Radio Parts, given without extra



charge, enable you to build over 100 circuits, including the latest features and sets. My book tells you about 17 other features I offer with my course, including life-time Employment Service to all graduates and my agreement to refund your money if you are not satisfied with my Lessons and Instruction Service upon completion.

**Many make \$10 to \$30 a week
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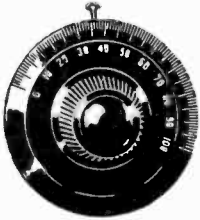
THE APRIL 1930

RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



SIXTH YEAR

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See Subscription Blank on page 34

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Using Headphones on Modern Receivers

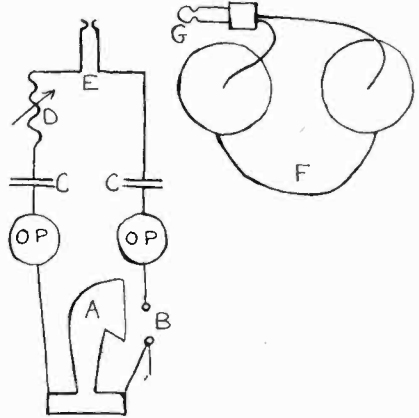
By J. B. SMITH

ON most modern receivers no provision is made for connecting a headset and it cannot very well be connected to the regular loudspeaker terminals as the phones would soon be ruined by this practice. However, DX fans, who usually are busy fishing for far off stations late at night, prefer the use of headphones as the signals are more readily detected than with a loudspeaker. The use of phones is also preferable at night as the raucous voice of a speaker is highly objectionable to members of the family who have already retired. The absence therefore, of a headset connection, such as a jack on the panel, has given rise to a problem which many of our readers have presented to us for a solution.

Well, the solution is comparatively simple, and there are two methods that can be followed by any radio fan. Get a 500,000-ohm variable resistor, two .005-mfd. fixed condensers and a single-circuit switch of any type. One terminal of one condenser is connected to one output terminal of the set and the other condenser is similarly connected to the second output terminal. One terminal of the variable resistor is run to the unconnected side of the first condenser. The headphone cord is run to the unconnected side of the second condenser and to the unconnected side of the resistor. The switch is cut in one of the lines supplying the speaker, enabling the user to cut it out.

Instead of connecting the headset cord directly to the condenser and resistor, some fans may desire to install a jack on the panel, from which these connections are made, a plug on the cord making contact with the jack (See Figure A). Similarly, the resistor can be mounted on the panel. The jack and resistor must be well insulated from the panel if the latter is metal, which is the case in most modern receivers. Special fiber bushings and washers are obtainable for the purpose. Unless carefully insulated in this way, serious trouble will result, owing to a feedback from the power

stage, and a direct short-circuit between the B-negative and B-positive.



A loud speaker; B switch; CC .005 fixed condensers; D 500,000-ohm variable resistor; E Jack; F phones; G plug; OP output binding posts. Phones may be attached at E without jack or plug.

Another method of connecting the headphones is to cut them into the circuit directly after the detector tube, or, if desired, after the first audio stage, the advantage of the latter hookup being greater amplification of the signal. Get a three-contact jack of the type that breaks a circuit between two terminals when a plug is inserted. A Carter No. 102A jack is of this type. Connect the lowest lug of the jack to the B-positive terminal of the audio transformer or resistor unit following either the detector or the first audio stage, depending on where it is desired to make the connection. The other lead to this terminal of the transformer supplying the B-positive, should be left in place.

Remove the lead running from the P-terminal of the transformer or resistor to the P-terminal on the tube socket. Run a lead from the P-terminal on the socket to the top lug of the jack, and another lead from the P-terminal of the transformer to the middle lug of the jack. The wiring is then complete.

(Continued on page 23)

Radio DX League of the World

ORGANIZATION is the order of the day. In Radio the manufacturers have their associations, the broadcasters are organized, and the amateurs have their American Radio Relay League. Only the radio users, the listeners-in, the DXers are unorganized. We have received many letters from readers suggesting the formation of a DX Club and we have given the suggestion a great deal of thought. In these letters the writers have given suggestions

Perhaps verifications could all be cleared through the Secretary instead of each member having to write all the different stations.

Bulletin the time on the air of the principal foreign stations.

Work out with the Broadcasters Association harmonious relations relative to verification of reception.

Cooperate with local clubs which have already been established in many cities.



*"Well, boys, she was a pretty staunch craft and—"
Down in the mess room of the "Spray," Captain Haft popularly called "Old Forty Fathoms," gathers the members of his crew together and spins his yarns of the sea. Every Wednesday at 8:30 p.m., E.S.T., over the CBS.*

regarding activities for such an organization which they think would be of great interest and help to DX fans.

Among the suggestions received are the following:

Issue a weekly bulletin of new stations and changes in old ones throughout the world.

Issue a complete corrected list of stations monthly.

Issue a list of world stations quarterly.

Provide uniform verification cards for use of members.

Provide club stationery for members' use.

Instead of DXers corresponding with each other, letters to be sent to Club Secretary who will compile them and send a multigraphed copy to each member.

Work out plans for reducing interference and man-made static through cooperation of public utility companies.

Create a Club department in RADEX for notes regarding the activities of the members.

Secure the friendly sympathy and cooperation of those broadcasting stations which now fail or delay responding to requests for verification.

Establish contests in reception under official rules similar to those established in their fields by the automobile, aeronautic and sports associations.

Many other activities will suggest themselves to others or will appear as the Club goes on. Now the question is, do the DXers want such a League — a

Radio League of the World with members in every land under the sun, united in the great field of international converse? To carry out any such program as that which has been outlined by our correspondents, would require an organization equal in scope to that of the American Radio Relay League for instance. This would mean the loyal support of the members and provision of finances necessary to carry on the work in a way its importance justifies. Let us hear from you, DXers of North America. What do you think of the suggestion? What other activities can you see that would be helpful? What would you be willing to pay as dues? Write us promptly in order that the organization plans may go forward during the summer and the League be ready to function at the beginning of the next radio season.

The following quotation from a letter written by Ray E. Everly, Ph.G., Newton, Ills., indicates what DXers are up against in the one matter of securing verifications, "I have followed DXing for over a year now and have a total of 267 stations verified in my RADEX and while that isn't nearly as many as some of the fans have, nevertheless I know what the real DXer wishes he could get.

"What we would like to see is a station check up a verification that is sent to them and to send an Ekko stamp if the necessary dime is enclosed. I have sent as many as three dimes for an Ekko stamp and then did not get it. Even if a person does not send for a stamp he would appreciate a card verifying his reception. I know a station's mail is enormous but all of them like to have people listen to them and it would take but a minute to return a card as KJR, KVI and KDYL do and that surely would be appreciated by the radio fan. Some stations are fine to deal with and send a nice card of thanks for your letter and some never answer you.

"Let RADEX spread the word to all broadcasting stations asking them just to drop a card to an anxious DX fan who has heard them. If a dime is enclosed send us a stamp but anyway send us a printed card with the station's letters."

Radio Sets for Farm Lighting Plants

FROM a reader in the North West comes the following inquiry: "We have a 32-volt d.c. farm-lighting plant and would like to get an all-electric receiver and a B-Eliminator that will operate on the current supplied by this plant. Are any such manufactured?"

We suppose there are easily a million farm-lighting plants in operation in this country and Canada, perhaps more. RADEX has a great many readers who live on the farms and we feel we will be serving them by answering this correspondent through our columns.

This reader faces a special problem for he has a d.c. supply where most electric receivers are a.c. Then he has a 32-volt supply where a.c. is usually 110-volt and battery sets are but six-volt. Upon investigation, however, we find that at least one firm has prepared to meet this situation. We have not tested his product and can only pass on his claims to our readers for their consideration.

This manufacturer is the Kato Engineering Co. of Mankato, Minn. We quote from his statement:

"The Kato Konverter has been perfected to operate an all-electric radio from a 32-volt farm lighting plant. The Kato Konverter is just what the name implies. It 'converts' or changes the electricity from 32-volt at the lighting plant to 110-volt for the radio. That means that you can use the same a.c. radio that is used in city homes.

"Kato Konverters use little current. They have no transformers, taking the current direct from the armature. The filter system is simple and positive, allowing smooth a.c. flow to the set at all times. These Konverters are similar in appearance to one-quarter h.p. motors."

The same company also manufactures both A and B battery 32-volt eliminators, replacing batteries in non-electric sets.

As a rule RADEX does not care to mention products of a particular manufacture as we cannot even tacitly seem to recommend them without the opportunity of a test but in this case we find a single product that seems to fill a very general need.

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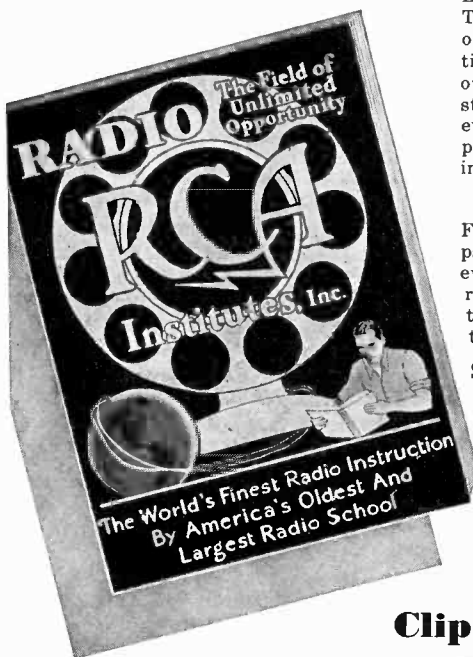
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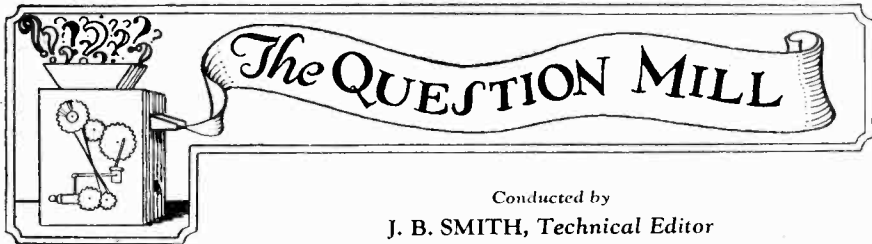
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Address.....



Conducted by

J. B. SMITH, Technical Editor

We are glad to publish replies in this column to questions asked by any reader. We cannot promise, however, to reply by mail to other than yearly subscribers. If you are not a subscriber and desire personal reply, please send your subscription with your question. You will find blank for this purpose on page 34.

I have a Radiola No. 28 all-electric superheterodyne receiver and have trouble with the stations coming in too broad on the lower end of the dial, which the second harmonic complicates still more. Can I substitute another tuning coil? The loop is a bank-wound affair. Will a S.L.W. condenser help?

Across terminals 6 and 8 you will find a compensating condenser, which is adjustable. While the set is in operation, carefully adjust this condenser until the stations come in more sharply. Do not substitute another oscillator coil as the set is designed to operate on the one already installed. Mechanical difficulties would be encountered if you attempted changing the oscillator condenser to one of the straight-line-wavelength type, as it would be hard to get one of suitable size and shape to fit in your set. It will help to some extent to use a pancake style of loop instead of the bank-wound type.

I have a Radiola No. 64, which I believe to be one of the best sets made, but it does not seem to be entirely perfect. When tuning in certain stations, I often get a little whistle or squeal just before and after the point of tuning the signal in perfectly, and sometimes even at that point, which, of course, slightly interferes with reception. The noise is not a heterodyne whistle caused by other stations, but resembles the whistle caused by a regenerative set. Can I balance the condensers for perfect resonance and what instrument must be used for this purpose? Kindly advise me what to do.

An all-electric superheterodyne receiver such as the Radiola 64 is really too complicated an instrument for a radio layman to adjust, and if he does so he has no claim to the service guarantee which usually accompanies the better grade of receivers. The slight whistle evidenced in tuning, is not entirely a fault but is characteristic of most superheterodyne receivers. However, it may be minimized by careful adjustment of the compensating condenser in the oscillator stage. If the variable condensers are not properly aligned and balanced such trouble may also occur. In any case, however, it is best to call in the service department of the local concern that handles this make of receiver, as authorized dealers have qualified men especially trained to make such minor adjustments without any guesswork.

I have a seven-tube Fada receiver with an enclosed loop. Station WSPD, Toledo, Ohio, at 1340 kilocycles or 223.7 meters is the lowest station I can get, the dial reading then being zero. On the other hand, station KSD St. Louis, Mo., at 550 kilocycles or 545.1 meters, comes in at 87 on the dial, and the space above this seems entirely wasted. I would like to tune in stations lower than 223.7 meters and would like to know what changes are necessary to be able to do this?

First of all examine the dials and condenser on your set as it is possible that the dials have slipped and are now out of step with the condensers, which would account for your trouble. When the condensers are in mesh, that is, when the

whole surface of the rotor plates is fully between the stator plates. The set should tune to approximately 600 meters, and the dial reading should be at its highest point. When the rotor and stator plates of the condensers are entirely separated, the dial reading should be at zero. If you find that the dial reads 87 when the condensers are nearly in mesh which

lower wave lengths than 223.7 meters, by taking a few turns of wire off the loop, one at a time, noting the result after each turn has been removed. If this does not bring entirely satisfactory results, remove the same number of turns from the secondary winding of the tuning coils. However, for that I suggest that you call in the help of a

Here is a scene from "Arabesque," a regular feature of the CBS, which celebrated its first year on the air last month. Written and directed by Yolande Langworthy, this modern "1001 Nights" is considered one of the most popular programs that radio brings. Sunday evenings at 10.30 E.S.T.



would be the case when tuning in station KSD at 545.1 meters, loosen the set-screw that holds the dial in place on the condenser shaft and then change the dial to read 100 when the condensers are fully in mesh. Of course, this procedure will change the logging of your set, and the stations will come in at higher points than before the change was made. If the fault does not lie in the alignment of the dials and condensers, you can shift the stations up a few points on the dials and thus make it possible to get those of

reputable radio service man, acquainted with Fada receivers.

On our Philco all-electric receiver which is a 1929 model equipped with CX326 tubes in the r.f. stages, I would like to install screen-grid tubes, as I have heard that better results can be obtained from them. Kindly advise what connections to make.

It is not advisable for the layman to install screen-grid tubes in receivers not especially designed for their use. The advantages of screen-grid tubes are usually exaggerated and the improve-

ment possible by using them would not justify the expense and trouble you would encounter in making the change and the resulting difficulty in balancing the receiver after the change was made.

We are organizing a radio club to promote better radio reception, and we intend to trace and remedy all kinds of interference. Can you suggest a test set for locating interference? Kindly suggest anything that you think will be helpful to us for the purpose.

In the January issue of RADEX, on page 12, you will find a question similar to yours on locating interference, and the answer tells how to use a loop receiver for the purpose. As a help for your club in determining how to prevent and how to eliminate all kinds of interference I suggest that you obtain a copy of "Radio Noises and Their Cure," a booklet that can be obtained for 25 cents from Tobe Deutschmann Corp., Filterette Division, Canton, Mass. Another booklet entitled "Better Radio Reception Manual," dealing with interference and its remedy, can be purchased for the same price from the Radio Manufacturers' Association, Inc., 32 West Randolph St., Chicago, Ill. Another book, which goes into considerable detail, is a 350-page volume, entitled "Radio Trouble Shooting," which sells for \$3.00, and can be obtained through RADEX.

I have a model 35 Atwater Kent radio receiver using 135 volts of B-potential and a 9½-volt C battery on the last audio stage in which a UX112 tube is used. The first tube that we used for this stage is not as efficient as it should be but seems to be the only tube we can use without burning out in a comparatively short time. We have tried two or three others of the same type but they have all burned out. What is the trouble?

There is no reason why a perfectly good tube of exactly the same type as the old one will not work satisfactorily in your set without burning out so soon. However, the fault may be in the tube socket, owing to a loose prong, which may occasionally shift against another, allowing plate voltage to enter the filament line of the tube, causing it to burn out.

I have a Spartan Equasonne No. 930 receiver and it is impossible to get any distance with it. Besides, it tunes very broad and local stations overlap each other on the dial so that I cannot get between them in order to obtain distant stations. Will you tell me where the trouble lies?

The band-pass filter of your Spartan Equasonne receiver is out of balance, which accounts for the broadness with which you are receiving signals. Ordinarily, careful adjustment of the trimmer condensers in this section of the receiver will give you the necessary selectivity. However, if such adjustment does not take care of the trouble, the band-pass filter section may be defective and should be tested. This can be done by removing the antenna lead from its usual location and connecting it to the connection between the selector and the amplifier units. With the antenna in this position, signals from the local broadcasting stations should be heard in a jumble provided the amplifier and power convertor are in good condition. If you find the band-pass filter section defective, call in the Spartan dealer and have it replaced or repaired. Increasing the selectivity of the set should enable you to tune between local stations in order to get the distant ones.

Recently I purchased a Brunswick A.C. model 14 receiver equipped with a dynamic speaker. It functions perfectly but there is a hum in the loudspeaker. We have tried some of the remedies given in your recent article entitled "Curing Noises in Radio Receivers" but have thus far not succeeded in eliminating the trouble. My set has two potentiometers or hum balancers and we have adjusted them to the very peak of efficiency. My loudspeaker has 45 volts across the field, and we have tried the method of connecting two condensers in series, across the rectifier output, but have not grounded the frame, as mentioned in the article. The condensers used were of 600 volts breakdown test, but as the rectifier delivers only 45 volts for the field of the speaker winding, we thought that the condensers were too large for the purpose, and cannot get 50-volt condensers. The voltage supplied to our

(Continued on page 21)

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ONE reader commented a month or two ago that "What's on the Air Tonight?" might be omitted in view of the fact that it was subject to frequent change and the daily newspapers carried this material anyway. This letter has stirred up a lot of protests. From Jas. J. Richter, Reading, Pa., comes the following: "It does occupy one-eighth of your standard 64 pages. But how many papers give an accurate, complete program listing all stations? The Graphic, of New York City, doesn't. The Daily News, of Philadelphia, doesn't. And our two local papers, though showing hour-by-hour daily programs, give only a few stations."

And N. G. McCreden, of Albuquerque, N. Mex., says: "Please do not discontinue this feature. This is fine for us in towns where the newspapers do not give reliable lists and must be much more appreciated by your many country subscribers who do not get the dailies."

We are convinced that the very large majority of our readers would seriously miss this program feature and it will therefore be continued.

That New Arrangement

But what a hornet's nest we stirred up when we gave the channels in March instead of the call letters. One good friend, Adrian R. Wilson, of Racine, Wis., hails the change thusly: "Say, you may think you are improving your RADEX but I and plenty of others think not. Of course we all make mistakes and I hope you will admit you are not immune. Well, what is the idea of changing the way of listing 'What's on the Air Tonight?' Everybody has become accustomed to using call letters to find what stations they want to tune in so why substitute kilocycles for call letters?"

"I am sure this is an experiment on your part and I'm also sure it is not welcomed

by your subscribers. In all other respects RADEX has them all beat, so please keep it up to the old standard."

And to add to our cup of sorrow, Joe Onicek, of our own fair city, does this: "The new arrangement is rotten. There is more than one chain station on some channels; how are we going to know which one is carrying the program?"

From Tulsa, Okla., a reader brings up our own previous position: "You have protested against manufacturers marking their dials in kilocycles and I agree with you that this should not be done as very few, if any, radios will tune in correctly using the kilocycle method. Then why list the stations only by kilocycles? I believe you will find that very few radio fans can tell you off hand just what frequency any station has. I know I cannot tell more than six or eight. By listing stations by call letters, one can see at a glance the stations giving a program and can set the dial instantly."

And A. A. Nelson, Laconia, N. H., points out: "With the new plan you never know whether it is a station you can get or not and you tune in a frequency only to find it is some station away off." From Janet E. Cole, Oshkosh, Wis., "I have always liked any changes that you have made in this magazine before, but I do not like this at all."

What To Do

On the above evidence a judge would probably issue an injunction against us immediately, but wait! Here's the other side: "When I first purchased a RADEX in 1928, it was admitted then by all to be the best published, but there has been a 100 per cent improvement since then and the latest, programs in kilocycles, is the peak." So writes an old friend, W. M. Johnson, of Grayville, Ill.

From Battle Creek, Mich., Ray Simmons comments: "I especially desire to congratulate you on the new system of

giving radio programs by kilocycles. I think them very helpful and convenient. Please do not discontinue this wonderful system as it saves a lot of time looking up a station frequency."

So what is a poor editor to do whose principal purpose in life is trying to please his readers? We ask you. It was an experiment, we admit. We do feel that this program feature ought to be arranged in a more convenient manner but it is a very difficult thing to do particularly in view of the fact that we hold the presses each month till the very last minute for this program information and we must then get it in type quickly.

daily in its efforts to improve radio reception and to eliminate interference, it is impossible to issue a call book free from errors. That fact that so few appear in RADEX is a great compliment to your intelligence and industry."

As we mentioned in the March issue, many readers called our attention to the fact that we had moved stations KOMO, KJR and KVI and that these stations denied having moved. The commission advises us that after they had changed the frequencies of these stations, KJR appealed to the courts and obtained a stay order restraining the Commission from putting the changes

These instrumentalists and vocalists, all descendants of the original race of Aztecs, have established themselves as favorites of the CBS audience.

Kneeling in the center is Luis Samudio, the director of the group, who has forsaken the revolutionary business in Mexico for the healthier and more remunerative work in radio. The two standing are Rafael Almaure and Gilberto De Jesus, while Carlos Carrillo and Juarez H. Garua are shown seated.



Well, we will experiment a little further and see how the arrangement in this number will please our readers.

99.58 Per Cent Perfect

A revised list of stations just issued by the Radio Commission was carefully checked with the March edition. We found a difference in only three stations — WGHP Detroit, WSPD Toledo and KGCU Mandan, N. D. An official of the Commission wrote us that these three stations had been shifted in accordance with their listing in RADEX but after a tryout had been replaced on their former channels and no notice had been sent out. This official added: "Since the Commission is shifting stations almost

into effect. That order is still pending. This explains the discrepancies.

WCHI Unmasked

"In regard to the station that announces itself as WCHI Chicago, I have logged it several times in the last two weeks. Last evening I heard WORD announce. At nine o'clock they signed off; about twenty minutes later I picked up WCHI a few points higher on the dial. This seems to indicate that the latter is not taking the place of WORD." Thus writes Byron Donel, Washington, Pa. Several other correspondents verify this and we have at last discovered that

(Continued on page 13)

Can I Use Screen Grid Tubes?

By J. B. SMITH

ON circuits especially designed for its use, the screen-grid tube has been found highly successful as its amplification factor is many times greater than the amplification factor of other tubes used for radio-frequency amplifiers. The A.C. screen-grid tube has a standard base with five pins and a fifth connection is provided at the top through a metal cap. Its feature is an extra grid which shields the plate. The usual grid lead is connected to the additional cap on the tube and the screen-grid connection is made to the G-terminal on the tube socket. The use of this tube eliminates howling caused by uncontrollable oscillation of the r.f. stages, and it effectively blocks a feedback of the signal, which causes reradiation common to the regenerative type of receivers.

It has been found absolutely necessary to shield this tube effectively and also advisable to shield the grid leads connected to it in order to obtain the desired efficiency. However, screen-grid tubes have an inherent tendency to broaden the tuning of a receiver and special precautions are taken to offset this effect in successful manufactured sets. It is a matter of considerable dispute whether or not the average radio fan, whose receiver is not equipped with screen-grid tubes, should install them.

From a number of observations, I should emphatically discourage the idea, because of the difficulties involved in making the circuit changes necessary, especially in the case of manufactured receivers, and the consequent trouble encountered in balancing the set after the change has been made. To merely insert the tubes in the present sockets and only make an additional connection, is entirely out of the question; the whole radio-frequency section of the receiver must be rewired, following a special circuit design for use with this type of tube. The r.f. coils must be tapped and blocking condensers must be used. The work of making such changes is all right for the chronic experimenter, who enjoys it, but not for the average radio fan, who desires satisfactory results im-

mediately after making the change. Besides, screen-grid tubes have been hailed to perform miracles which is a highly disappointing illusion, as proved by the fact that there are many receivers not equipped with these tubes which produce better tone quality, are just as selective and have a greater distance range than many of the newer models using screen-grid tubes. This is, of course, not detracting in any way from the value of these tubes, but only goes to show that they will not produce superior results in every circuit.

March Changes

A LARGE number of station changes again this month is evidence that the Radio Commission is still seeking to eliminate interference and better radio conditions. Among the important corrections in RADEX will be found the following:

CJBC Toronto, Ontario, with its four listings is being deleted.

New stations or new call letters include the following: WRDA Buffalo, N. Y.; KGMP Elk City, Okla.; WCSC Charleston, S. C.; WSPA Spartanburg, S. C.; and three as yet unnamed stations in Grant City, Mo., Dodge City, Kansas, and North Platte, Neb.

Changes and corrections in frequencies are CFRK Kingston, Ont., from 1120 to 930; CKPR Midland, Ont., 1120 to 930; KGCU Mandan, N. D., from 1210 to 1200; KFIO Spokane, Wash., from 1230 to 1120; WSPD Toledo, Ohio, from 1240 to 1340; WGHP Detroit, Mich., from 1340 to 1240.

Changes in call letters: WSOA Chicago, to WCHI; KOQ Phoenix, Ariz., to KOY; KGRC San Antonio, Tex., to KONO; KFUI Juneau, Alaska, to KFIU; WGTB Columbia, S. C., to WIS; WHDH Gloucester, Mass., to WEPS.

Increases in power are granted to WGBS New York City; WCAE Pittsburgh, KGFV Ravenna, Neb., WGHP Detroit, and KIT Yakima, Wash.

Reductions in power affect WBAP Fort Worth, Tex., KOMO Seattle, Wash., WCSH Portland, Me.

"Dear Mr. Editor"

(Continued from page 11)

WCHI replaces WSOA and not WORD. The change appears in this issue.

"Have also logged a station on 840 kcys., WGM, Adamsburg, Pa., which is not listed," adds Mr. Donel. His inquiry and others are answered by Lawrence R. Pavlick, Swissvale, Pa. "Yes, there is a station WGM at Adamsburg, Pa., and they operate on the same channel as WOOP, Jeanette, Pa. I have tuned both of these stations on 840, 850 and 870 kcys. They both must have some antique transmitting apparatus to vary that much on their frequency, don't you think? The station WGM was on the air in 1924, 1925 and 1926 and then for some reason discontinued broadcasting. I remember, when I first heard them, the announcer would say 'This is station WGM, The World's Greatest Mistake' and I am inclined to think he was right! This station now has a studio in Jeanette also." Neither WGM nor WOOP appear in the records of the Radio Commission. How come?

Other Station Queries

"We are anxious to know the identity of station WCK coming in around 700 meters. It appears to be a police station. We do not locate it in RADEX." Thus comments J. W. Murphy of Akron, Ohio. Most the large cities now have police broadcasting stations assigned to short waves below the broadcasting band. We do not list them for two reasons, first, they are not broadcasting stations, and second, they do not want the general public to tune them in as they desire privacy. They broadcast only to the automobile cruisers as explained in an article in a recent edition.

Writes Cecil Jones, Wichita, Kans.: "I have logged a station operating at or around 1440 kcys., the announcer of which gives no information as to identity except to say 'The Voice of South Carolina.' Would appreciate information regarding this station." This is WSPA Spartanburg, S. C., a new station on 1420 kcys. It will be found in this month's index.

Some friend whose letter we have lost reports hearing a station with the

call letters WKOC, The Knights of Columbus. Can any one identify this station?

C. M. Falconer, of Baltimore, tells us that WEHC at Emory, Va., has recently moved from 1370 to 1200 kcys. No notice from the Commission and we are checking with the station.

"About a month ago I got CJCA Edmonton, Alta., on 930 and you still have it on 580 in the February issue. CKX



Maurice Chevalier, the French musical comedy star, whose work in the talkies has established him as a favorite with the American public, particularly the feminine portion. A short time ago his voice was picked up in Paris and broadcast throughout America over the Columbia network.

Brandon, Man., has also changed to 1010." So we are advised by Keith McVay of Cando, N. D. A list just received from the Canadian government shows no change in these two stations. We are checking.

Frank Scott, of Newark, N. J., receives a letter from the Jarvis Street Baptist Church of Toronto saying: "CJBC has never been on the air and I do not know where the confusion arises as we have been receiving many letters from people saying they receive programs

from our call letters." Another mystery. We are canceling the four calls assigned to CJBC until such time as they become something more than a paper station.

The March Shuffle

"You have shuffled the 1470, 1480 and 1490 key. groups all up in the March issue," writes Fay L. Garton, of Blackwell, Okla. And Mrs. Clara Kibblehouse, of West Philadelphia, Pa., writes us to the same effect. On page 63 of the March edition, we warned our readers the Commission was making some last-minute changes. We got notice of them just as we were ready to go to press and as the notice from the Commission read: "It is therefore *ordered* that the following changes in frequency assignments of stations operating on 1490, 1480, 1470, 1460, 1410, 1370, 1360 and 1310 keys. be, and the same are hereby made, said changes to be effective on and after 3 a.m., Sunday, March 2, 1930," we made the reallocation accordingly. Has some court issued another injunction?

Mr. Garton also says that KFPL Dublin, Tex., advises him that station is only a fifteen-watter and never has been anything else. Now KFPL ought to know, but the Commission in a new list received today, gives them 100 watts. At least they are licensed to use that power, although of course they may not do so. If RADEX gives its readers information 99.58 per cent pure from the Commission records, can man do more?

Hours of Operation

Every month we get letters like the following, also from Mr. Garton: "Personally I would like to have a list of stations telling when each station was on the air. I am missing some stations simply because I don't know when to go after them. If you have or ever do have such a list, ship it to me c.o.d." If we thought this information could be worked up satisfactorily, neither labor nor expense would prevent our furnishing it to our readers. But even the Radio Commission does not have this information. Hours of operation are entirely in the control of each station subject to its allotment. When it shares a wave with another stations, the two then apportion the time. These hours are subject to constant change with notice to no one

nowhere! Such a list would be out of date before it was printed. Then where could we possibly find room for it? Here is just one sample: A certain station broadcasts during three periods Sunday, five Monday, four Tuesday, four Wednesday, three Thursday, five Friday and six Saturday. This would require a paragraph under each station. Seven hundred paragraphs would take 64 pages and there would be no room for RADEX!

DXtra

Another comment from Mr. Garton: "Information as to when to fish for foreign stations is always worth space in RADEX; don't omit any of that dope that comes in over your leased wire." If you receive a program from a foreign station, let us know the day and hour, we'll publish it.

"I've been listening to a station on 1020 keys., same as KYW. Is it CMBZ Havana? I've heard him talk Spanish." This from Chris Tom Banakas, Memphis, Tenn. Probably, CMBZ is on 1027.

Earl T. Mills, of Brandon, Man., wants to know what DXers think of the programs they receive from CKX? He seems to think they are pretty bad and says the local fans have been protesting vociferously. Anyone having any comments may address him at 451 Third Street.

Joseph Stokes, Swissvale, Pittsburgh, gives a list of his distant reception and adds, "Four of these were verified without hearing the call letters. All I did was trust to the accuracy of RADEX. I have verified a lot of stations in this way." He adds: "WMAQ and WOR have DX clubs, the former broadcasting every Tuesday, 11:45 to midnight E.S.T. and the latter on Saturdays, at 9:55 p.m. E.S.T."

Short Wavers

Mr. H. N. Fricke, of North Bergen, N. J., wonders, "if any of your readers have had any experience with the Super-Wasp short wave receivers. I was thinking of buying one but I believe that a rather long aerial is necessary to pick up the lower waves or am I wrong? I will have to be content with an aerial of about 100 feet having a fifty foot lead-in." This is about equivalent to

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Ninety Stations on a Crystal Set

By J. E. SMITH, *National Radio Institute*

IN the early days of radio broadcasting, thousands of people experienced, perhaps for the first time, the joy of creation. Building their own sets gave them their first outlet for the creative instinct which is dormant in most folks. While a large number of experimenters are still at work, trying out new designs and seeking constantly to improve upon existing sets, most people have given up the pleasure of building their own. The modern radio receiver is so beautiful in its appointments, so efficient in operation and so reasonable in price, that only the most inveterate experimenter can hope to equal let alone surpass them. But there are thousands of radio lovers, both young and old, who still feel the urge to build something of their own and yearn to feel again the thrill of hearing distant stations over a device of their own creation.

The success of Alan Leighton in building a crystal set with which he tuned in ninety stations, points the way to a field for experimentation that is not only inexpensive but full of the promise of real thrills. When Mr. Leighton's accomplishment was first given publicity in the *Pictorial Mid-Weekly*, he was flooded with letters from interested readers in all parts of the continent. Other papers reproduced the story and accompanying pictures and the mail grew and then visitors began to come — people from distant cities who wanted to see the set which, without batteries or tubes, could accomplish such wonders.

Verification of reception reports must usually be accomplished by mail but in Mr. Leighton's case, unknown friends all over the country took it upon them-

selves to visit broadcasting stations and verify his reception for him. He was overwhelmed with questions as to his aerial and his ground and his crystal and his hook-up. Alan Leighton, closeted in his daily work in the scientific laboratories of the Bureau of Dairy Industry, United States Department of Agriculture, was thus thrown into the spotlight of radiodom.

Modestly, Mr. Leighton denies any



Alan Leighton with his record-breaking crystal set and wavetrap.

special credit for the achievements of this crystal set, contending that it was freakish reception due perhaps to a particularly favorable geographical location, but this did not serve to diminish radio fan interest or lessen the volume of inquiries and applause cards contributed to this modest fan's mail bag. The lowly crystal or piece of galena had been glorified and everywhere other experimenters feel that what Mr. Leighton had done they might do.

Just how is it done? Let Mr. Leighton tell the story:

"The original circuit was sent to me by the Carborundum Company. It consists of a .0005 variable condenser in series with the aerial and a slide contact on an 80 turn coil of No. 18 bare copper wire which was wound in such a way that

its length was about nine inches, diameter 4 inches. One end of the coil was grounded, the other was connected through the crystal, to the phones to the ground. I added jack switches that permitted me to short out the condenser or use a carborundum crystal or cat-whisker crystal at will. I also had two phone outlets with a switch to short the second pair when not in use.

"In addition to the set proper I used two conventional wave traps, housed in the top box of the set with which to trap out the two local stations. These consisted of a forty turn coil of No. 30 wire wound four inches in diameter and connected to the terminals of .0005 variable condensers. On top of these coils were twelve turn No. 24 wire tapped coils which were in series with the aerial and the set.

"I regret very much that I tore the set down to try a later model Carborundum Company set and I never got the results that I did with the first one. I am using a tube set, but have carefully saved the panel etc. of the of the old set and shall rebuild it some day. I never had any condenser in the ground circuit.

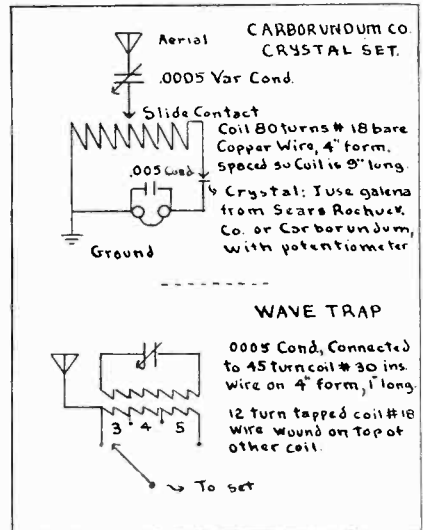
"The greatest distance that I ever heard was 1,130 miles from Havana, which reception was confirmed. In one of the very early radio magazines I once read of a man who received 1,147 miles with a crystal set so I can't claim the record.

"I also heard Hastings, Nebraska, New Orleans, Toronto and Florida stations and closer stations to the total of slightly less than 100. Through some peculiarity of my set at a slide setting corresponding to a wave length slightly less than that of WGY, I frequently heard KDKA short wave transmission. I remember particularly one night when they were arranging a South African broadcast. I wrote them of the occurrence and received a most courteous letter from Mr. Horne who confirmed the fact that it had been a short wave broadcast.

"My aerial is mounted upon the ridge pole of the bungalow type house in which I live. It consisted at that time of a twenty-two foot pole. I made two wooden triangles three feet in length on each

side. One was suspended at the top of the pole, the other at the bottom, the pole passing through the center of each triangle. The aerial wire, No. 12 enameled copper started at one corner of the top triangle, came down to the lower, went across to another corner, up to the top triangle again over and down again, and then to my set. One solid wire was used directly to the set. It was approximately 100 feet in total length.

"Cottage City is located about a mile from the north-eastern edge of the District of Columbia and has an elevation of about 40 feet above sea level. The strata underlying the top soil at a depth of three to four feet is a coarse wet gravel as if a river once coursed through here. This may explain why my water-pipe ground was so efficient.



"I used a .005 mfd. condenser across the phones. When I shorted out one pair of phones this meant that I had the .005 condenser straight across the Baldwin phones with which I did my listening.

"I omitted to mention a midget condenser which was in parallel with the .0005 condenser of the aerial circuit.

"At the extreme right, as you look at the photograph, is the dial of the aerial condenser. Just to the left of this at the

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And Now The Radio Talkies!

Out of the Laboratory into the Home

SYNCHRONIZED sight and sound broadcasting left the laboratory and appeared before the public for the first time recently. A demonstration of equipment now available for home use, was given in the Lauter Auditorium at Newark, N. J., before an interested group composed of the radio trade, the public and the press.

That the demonstration is not so much a technical advance as it is a practical exhibition, is the point emphasized by D. E. Replogle of the Jenkins Television Corporation. It is pointed out that while other demonstrations of radio television or radiovision have been given in the past, the Newark exhibition is the first public demonstration of combined and synchronized sight and sound broadcasting, utilizing equipment now offered to the public for use in the average home within those territories served by an electric power system common with that of the transmitter. Such a demonstration, therefore, is not to be confused with the excellent but costly laboratory demonstrations heretofore staged for the press and engineering groups, without immediate applicability to average home use.

The radio talkie programs for the Newark demonstration were broadcast simultaneously through the Jenkins radio television station, W2XCR at Jersey City, on 139 meters, and the DeForest radio telephone station, W2XCD on 187 meters. The programs originated in the Jenkins studio, in the form of sound films and silent films run through the television pick-up apparatus. The sound signals were flashed over direct wire to the radio telephone transmitter at Passaic. Louis A. Witten, well-known broadcast program announcer, acted as guest announcer for the debut of the radio talkies.

At the receiving end, two separate and distinct radio sets were employed. First a standard broadcast receiver was employed to tune in the radio telephone signals of Station W2XCD on 187 meters, these signals being received on a

standard home broadcast set at the bottom of the tuning dial. Secondly, a Jenkins short-wave receiver, covering the 100-150 meter band, was tuned to the radiovision signals of W2XCR, amplified, and passed on to a battery of standard Jenkins home radiovisors. The radiovisors were mounted on a stand above the heads of the spectators, and properly tilted, so that successive groups



A Jenkins Model 200 Radiovisor in the home. The front of the cabinet contains a shadowbox leading to a large recessed magnifying lens through which the radiovision images are viewed in enlarged form.

of thirty or more persons could follow the pictures flashed by three cabinet radiovisors. The nearby broadcast receiver supplied the sound accompaniment.

The program was one of considerable interest, even though the means rather than the end might well dominate the situation. Dr. Lee DeForest, inventor of the present-day vacuum tube or foundation of radio and other arts, addressed the audience by picture and voice. The possibilities of applying

radiovision to popular broadcast features was demonstrated by two comedians, reproduced half-length, who cracked jokes and sang for the "lookers-in." Several half-tone pictures and shadow-graphs followed, with incidental music for some and descriptive announcements of Mr. Witten, for others.

Two Jenkins home radiovisors were shown. Model 200 Radiovisor is in the form of a cabinet with shadowbox and simple control panel, intended for those interested primarily in radiovision entertainment. The pictures in magnified form may be followed by several persons at a time. Model 100 Radiovisor is in the form of a simple, exposed assembly, with provisions for changing scanning disks and rotors, adding another form of synchronizing device if desired, and making whatever changes may suit the experimentally inclined. The pictures are so magnified that one or two persons may follow them at a time. Because of the limited magnification, the pictures are exceptionally bright and clear. The driving mechanism is an unique form of Faraday eddy current motor, which is simple, silent and efficient. Both models depend upon synchronous motors, operating on the same alternating current power system as the transmitter, for automatic synchronization. Due to the extensive Public Service power system and its interconnections with other power systems, a wide and densely populated section of the country can be covered by the Jenkins station in Jersey City, with automatic synchronization.

The Jenkins officials wish to make clear that no technical advance is claimed for the demonstration just given. Better pictures have already been shown to public and press. Better results are being obtained regularly under more favorable conditions. However, the demonstration was made under typical, everyday conditions, with equipment that can be bought for the average home in those areas served by the same electric power system. The Jenkins Television Corporation plans to show technical advances from time to time. The recent demonstration was only an introduction to home radiovision, with sound accompaniment.

Reallocation Planned

THE greatest shake-up in frequencies since the earthquake of November 11, 1928, is being hatched. The Radio Commission has accepted the recommendation of its engineers to broaden the distance in frequencies between a number of major stations which, it is felt, are altogether too close both geographically and in kilocycles. Finding it impossible to move the cities geographically, the Commission has addressed the stations to be affected, asking them to show cause why they should not be moved in accordance with the engineer's findings.

Says the Commission: "There are 13 channels involved in the rearrangement. On nine of the thirteen frequencies stations are now suffering from and causing cross-talk with stations on adjacent channels. This interference is due mainly to insufficient frequency separation for the geographical separation between the stations. In some cases the interference has been aggravated by one station installing the most modern equipment and thus extending its service area while the stations on adjacent channels have made no change in equipment. The only course which the Commission can pursue in relieving the existing cross-talk is to change the frequency assignment of the necessary number of stations and thus gain greater frequency separation between the interfering stations.

"The Commission feels this plan when inaugurated will remedy the present difficulty and allow the stations involved to render better service to the public thereby."

Following are the changes proposed to which the Commission hopes to gain the approval and support of the stations concerned. These stations in some cases will have to make extensive changes in their equipment and the reallocation will therefore not take effect for some time. Watch your RADEX for further developments.

	<i>Present Proposed</i>	
WHAS-----	820	1020
KTHS-KRLD	1040	1070
WBT-----	1080	1040

(Continued on page 20)

Regulating the Voltage

SO many of the inquiries addressed to The Question Mill indicate that the trouble lies in uneven flow of current to the receiver, and we have had so many requests for information as to voltage regulators, that we have decided to inform our readers of certain devices now on the market. We have not had an opportunity to test any of these devices and therefore cannot recommend them, but we believe their makers to be reputable concerns whose advertisements are appearing regularly in the trade papers. Any good dealer can secure these and probably other devices for any readers who desire to experiment with them.

Our technical editor has often pointed out that the 110-volt current may easily mount to 120 particularly at times other than the early evening when the load is heaviest and that this increase is sufficient to cause serious trouble and annoyance in the operation of an a. c. set. The manufacturers of the devices described claim that their use will provide a smooth, even flow of current to the set regardless of the load condition.

The devices differ materially in form and operation but the description of one will suffice to give an idea of the claims of all.

"The new Amperite self-adjusting line control is a recently perfected device constructed in glass bulb form. The Amperite resistance unit is enclosed in a bulb of standard dimensions filled with an inert gas. The operation of this device assures a constant, reliable, instantaneous response to even slight fluctuations in line voltage.

"The Amperite Line Control is provided with the UX type base but with only two prongs. These are the plate and filament prongs which fit into any make of standard UX socket. The two contacts connect directly in series with the primary of the line or power transformer.

"For general radio purposes Amperite Line Controls are designed to handle a fluctuation of about 30 volts (for examples 95 to 125) and to regulate the

current (or voltage) to a constancy of within 10 per cent over this range of fluctuation.

"A number of the leading manufacturers of radio sets are now equipping their receivers with Amperite Controls, but any set may be equipped by having the line or power transformer wound or tapped for a primary of 80 volts. Transformers may be secured already tapped in this way in the primary winding."

The Amperite Self-Adjusting Line



"Ugh, Ugh, heap Big Chief" Ben Selvin costumed in complete Indian regalia, conducts his *DeVoe Redskins* in a program of old and new dance tunes on Thursday evenings at 9:30 E.S.T. over WABC and the Columbia chain.

Voltage Control is manufactured by the Amperite Corporation, 561 Broadway, New York City.

The Vitrohm 507-109A Unit is made by the Ward Leonard Electric Co., Mt. Vernon, N. Y.

There are doubtless other devices descriptions of which have not been received.

Installing Radio in Automobiles in the May RADEX.

The Newark News Club

THERE are a number of radio clubs in the various cities of the United States and an outstanding example is that one of Newark. The Newark News Radio Club, was organized in December, 1927, when 55 enthusiastic readers of the News radio page gathered in the editorial rooms and formed what they believed to be the first club ever banded together solely in the interests of DX reception.

The club has often been referred to as the brain-child of Charlotte Geer, who conducts the Broadcasts Winnowed radio column of the News, and rightfully so, for it was the personal DX experiences which she described that were responsible for its organization.

The officers of the club have spoken on numerous occasions over WOR and also the NBC chain and each talk resulted in many applications for membership being received, many from far distant points.

Since the club was organized many stations at distant points have cooperated by broadcasting "Courtesy Programs" after midnight at various times, especially for the reception of the members.

The Club meets each first Thursday night monthly, except in July and August. After the business of the club is transacted, entertainment is furnished by radio artists from the various metropolitan stations. Manufacturers of receivers, batteries, tubes, etc., supply speakers who not only give interesting and instructive talks but demonstrate their products as well.

Members of the club may obtain DX qualification certificates in four classes, as follows: "Junior DXer" for logging 100 stations; "Master DXer" for logging 200 stations and having one verification from a station located more than 2,000 miles distant. "Past-Master DXer" for logging 300 stations and have at least five distant verifications. "DX Ace" for logging 400 stations and having at least ten distant verifications.

Once a month the club holds a DX contest for the Newark Evening News

DX Trophy. Members may select any six consecutive hours during the Saturday night designated and must have their lists in the mail not later than the following Monday. All stations listed must be located at least a hundred miles from point of reception and no station can be logged while broadcasting a chain program.

From an interesting letter by John Macaulay, Jr., of Phillipsburg, N. J., we quote the following:

"We now have a membership of some 600 DXers from all over the North American continent. I attended a club banquet in Newark last Saturday and we had such celebrities of the radio world as Phil Cook, Caroline Gray, Bob McGrimsey, Norman Sweetser, and a host of others.

"We run a column every day in the Newark Evening News devoted to the record of members and other DX gossip"

Reallocation Planned

(Continued from page 18)

WRVA	1110	1150
WAPI-KVOO	1140	1130
WOWO-WWVA	1160	1180
KOB-KEX	1180	1170
WJJD	1130	1090
KYW	1020	1140
WTAM	1070	1080
KMOX	1090	1110
KSL	1130	1090
WHAM	1150	1160
WCAU	1170	820
WMBI-WCBD	1080	1040
WHDI-WDGY	1180	1170

Two for One

The weekly Radio World, the best technical magazine, \$6.00 a year, and RADEX, \$1.75 a year—

Both for \$6.00.

The Question Mill

(Continued from page 8)

house-lighting circuit is 120. Would this make a difference?

Receivers designed for use on 110-volt lighting circuits often develop a hum if the applied voltage is greater than this. It is highly probable that this is the source of your trouble. Get an automatic voltage regulator, which will reduce the voltage to the proper value and will also take care of fluctuations due to varying loads, at all times keeping the voltage applied to the set at 110. Operating your set at 120 volts will also cause the tubes to burn out prematurely, which can be prevented by using the voltage regulator. If, however, the installation of this device does not entirely eliminate your trouble the pole piece of the speaker should be examined for it is probably out of adjustment. This piece of the speaker is held in place by means of a bolt running through it lengthwise, which must be loosened in order to adjust it. You can readily determine whether or not the pole piece is out of adjustment by pressing the cone of the speaker evenly on both sides toward the front and rear just a trifle while the set is in operation. If this decreases the hum, there is sufficient proof of poor adjustment. Then proceed to correct this fault, taking care to get the pole piece properly centered in the voice coil or rattling will result. This can be done by wrapping a piece of thin cardboard around the pole piece several times until the wrapping fits snugly in the voice-coil frame. Then tighten the adjusting bolt on the pole piece and remove the cardboard.

Can you supply me with the address of some concern that supplies refills for B-eliminators? I would also like to know if I could add a power tube to my 5-tube Stewart-Warner receiver, which is battery-operated?

Manufacturers usually attach to their products a nameplate bearing their name and address so that replacement parts can be obtained from them. In the absence of a nameplate ask the radio dealer from whom you purchased the eliminator, where replacement parts can be obtained, or tell us what make of eliminator you have and we will supply you with this

information. Many eliminators are assembled from standard parts but there are also a number of manufacturers who employ parts especially designed and fitted to their products. You can add a power tube to your receiver, substituting it for the last audio tube used at present. However, a C-battery of correct voltage for the particular power tube you wish to use must be cut in the grid circuit of the last audio stage. I suggest that you do not use a power tube requiring a high C-bias and would therefore advise the use of a UX112A tube, which requires 9 volts of C-bias at a plate voltage of 135, the latter voltage being obtained by hooking an additional B-battery to the two used at present, the negative terminal of the additional battery being connected to the 90-volt terminal. The change required in the wiring of the grid circuit is made as follows: Disconnect the lead on the F-negative post of the last audio transformer and substitute a lead connected to the C-battery negative. Then run the first lead, which was disconnected from the transformer, to the positive terminal of the C-battery.

At regular intervals of 2 or 2½ minutes there is a loud click in my receiver, an all-electric 8-tube set called the "Sky Rover." The click somewhat resembles the snap of a guitar or banjo string. When this happens the reception will almost die out and then in a minute or so there will be another snap and the signal will get louder and louder until it again reaches full strength. I have had this receiver about a year and have always had very good reception, and the trouble has only commenced recently. When I disconnect the ground lead to the set, reception comes in very faintly and the snapping noises are not eliminated, although they are then weak, corresponding to the strength of the signal. When I disconnect the aerial no signals come in at all. Can you advise me where to look for the trouble?

The regularity with which the snapping noises occur in your receiver indicates that in all probability the trouble lies in the set itself, instead of in the aerial and ground circuit, as the noise persists when the aerial is disconnected. The trouble has all the earmarks of an

open grid circuit in the audio stages which would account for the clicks you have experienced. Carefully trace the wiring from the G-terminal of each audio tube for a loose connection or break. If audio transformers are used in your set test the secondary windings for continuity. If your audio amplifier is of the resistance-coupled type, substitute new resistors in the grid circuits. Then trace the lines connected to the F-negative post of the transformers or the corresponding terminals on resistance units, to determine whether they are connected to the ground line of the receiver, as they should be in all-electric receivers. If the cause of the trouble has not been ascertained up to this point, examine the center-tapped resistors which control the grid bias to the audio tubes and most likely one of them will be open, probably burned out. An overloaded detector tube having too high a grid resistance, may cause the same trouble.

My radio set is a Radiola No. 16, electrified with 110-volts direct current. Local stations come in too loud. To control the volume I have connected a Pilot Resistograd across the aerial and ground but, of course, this arrangement allows the tubes to burn full. Is there any better method of controlling the volume of the signals which would cause the tubes to burn dimmer? I am located in New York City and the furthest I have tuned in are stations KTHS, WCCO, WOS, WFIW and almost all of the Chicago stations. How much distance can I reasonably expect from this set?

There are several methods of reducing the volume of your receiver. One method giving the results you desire, consists of connecting a 3-ohm rheostat in series with the fixed resistor or ballast now found in your A-positive line near the binding post. However, burning tubes too low, or rather below the rated capacity, is injurious to the filaments, according to tube manufacturers and ballast makers. Another method of controlling the volume is to cut a variable resistor such as a Clarostat in the B-positive line supplying plate voltage to the radio-frequency stages. A variable resistor cut in one of the

loudspeaker lines will also be capable of cutting down the volume. However, in your case, it might be best to erect a very short aerial and use it in conjunction with the Resistograd arrangement for tuning in local stations, and a long aerial for tuning in distant stations. Your distance record is not particularly alarming, although under good conditions you may, by extremely careful tuning, get farther than 1500 miles.

"Dear Mr. Editor"

(Continued from page 14)

an aerial of 150 feet in length and should be ample for any short wave set.

However, this length may make it difficult to bring in stations in the upper waves of the broadcasting band.

C. S. Wells, 15 Academy Street, Concord, N. H., would like to hear from Leon V. Garland regarding the sort of set on which such excellent results were being secured.

Mrs. C. Kibblehouse, of West Philadelphia, asks for the short wave letters of WHAS at Louisville. Who has received them?

Here we are at the end of our space and we haven't finished half the letters yet. Nothing to do but carry them over to May. We'll just have to find more space somewhere for these interesting comments by RADEX friends.

Attaching Head Phones

(Continued from page 2)

Use soldering lugs under the nuts on the transformer and socket terminals, and solder the leads to the lugs to insure good electrical contact. Inserting the phone plug in the jack disconnects the upper two jack contacts, breaking the plate circuit to the following stages and thus automatically keeping the signal from passing beyond the headphones although the tubes will continue to light.

BOYS

A fine leather football free for only two subscriptions to RADEX.

KEY TO CHAIN STATIONS

CFRB	25	KOIN		WBRC	27	WFAN		WJAX	29 1/2	WOC	32
960 C		940 C		930 C		610 C		900 N		1000 N	
CKAC	50	KOMO		WBT	18	WFBL		WJDX		WOW	81
730 C		920 N		1080 N		1360 C		1270 N		590 N	
CKGW	57	KPO		WBZ	22 1/2	WFBM		WJJD		WOWO	14 1/2
690 N		680 N		990 N		1230 C		1130 C	16	1160 C	
KDKA	23 1/2	KPRC		WBZA	22 1/2	WFI		WJR	47	WPTF	59
980 N		920 N		990 N		560 N		750 N		680 N	
KDYL		KRID	20	WCAE	13 1/2	WFIW	26	WJZ	46	WRC	25 1/2
1290 C		1040 C		1220 N		940 C		760 N		950 N	
KECA		KSCJ		WCAH		WFJC		WKBN	58	WREC	78
1430 N		1330 C		1430 C		1450 N		570 C		600 C	
KFAB		KSD		WCAO		WGHP	11 3/4	WKBW	53	WREN	
770 N		550 N		600 C		1240 C		1480 C		1220 N	
KFHM	10	KSL		WCAU	14	WGL		WKRC	92	WRHM	
1300 C		1130 N		1170 C		1370 C		550 C		1250 C	
KFJF		KSTP		WCCO	38 1/2	WGN		WKY	900 N	1280 C	
1480 C		1460 N		810 C		720 N	51 1/2	WLAC	5 1/2	WRVA	17
KFKX		KTHS		WCFL		WGR	96	1470 C		1110 N	
1020 N		1040 N	20	970 N		550 N		WLAP		WSAI	9
KFI	17 1/2	KTSA		1490 N	5 1/2	890 C		1200 C		1330 N	
640 N		1290 C		WCSH		790 N	41	WLBW	11	WSAZ	84
KFPY		760 C		WDAF	75	WHAM	15	1260 C		580 C	
1340 C		KVOO	15 1/2	610 N		1150 N	39 1/2	WLBZ		740 N	48 1/2
KFRG		KWK		WDBJ	27	820 N	6 1/2	620 C		WSM	65
610 C		1350 N		930 C		1440 C		720 N		650 N	
KGO		KXA		WDEL		1120 C		WLT		1320 N	
790 N		570 C		1120 C		1280 C		560 N		WSPD	8 3/4
KGW		KYW	21	WDOO		1390 C		870 N	32	1340 C	
620 N		1020 N		1280 C		1000 N	22	700 N	2 1/2	580 N	
KHJ		WABC	33	WDSU		1430 C	63	900 C	29 1/2	1070 N	18 1/2
900 C		860 C		1250 C		560 N	91 1/2	630 C		780 C	
KHQ		WADC	9 1/2	WEAF		WIBO	91 1/2	WMAK	29 1/2	WTAM	
590 N		1320 C		660 N	63	560 N	84	900 C		1070 N	
KLRA		WAIU	67 1/2	WEAN		WIBW		WMAQ	61	WTAR	
1390 C		640 C		780 C		580 C		670 C		780 C	
KLZ		WAPI	15 1/2	WEAR		1000 N		WMC	42 1/2	WTIC	19
560 C		1140 N		1070 N		1300 N	70	780 N		1060 N	
KMBC		WBAL	19	WECB		WISN		600 C		1230 C	
950 C		1060 N		1290 N		1120 C		1230 C	12	570 C	
KMOX	17 1/2	WBAP	39 1/2	WEEL	81	WJAR		1190 N			
1090 C		800 N		WENR	32	890 N					
KNX	19 1/2	WBBM	44 1/2	WFAA	39 1/2	1290 C	104				
1050 C		770 C		800 N							
KOA	36	WBCM		1410 C							
830 N											
KOIL											
1260 C											

ENTER YOUR DIAL NUMBERS IN THESE SPACES

510	610	710	810	910	1010	1110	1210	1310	1410
	75	52 1/2	32	29				10	
520	72	51 1/2	32	28	1020	1120	1220	1320	1420
	70	50	30	27				9	
530	630	730	830	930	1030	1130	1230	1330	1430
	67 1/2	48 1/2	33	30				8 3/4	
540	640	740	840	940	1040	1140	1240	1340	1440
	76	47	32 1/2	25 1/2				8 3/4	
550	650	750	850	950	1050	1150	1250	1350	1450
	91 1/2	63	42	33	25	19		8 3/4	6
560	660	760	860	960	1060	1160	1260	1360	1460
	88	61	41	32				8	
570	670	770	870	970	1070	1170	1270	1370	1470
	84	60	40	31				8	
580	680	780	880	980	1080	1180	1280	1380	1480
	81	57	40	22 1/2	17 1/2	13 1/2	10 1/2	7 1/2	5 1/2
590	690	790	890	990	1090	1190	1290	1390	1490
	78	55	39	22	17	13	10	7	5
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. After the last Sunday in April subtract an additional hour for Daylight Saving Time.

Lists beginning with WFAF and WJZ are the National Broadcasting Co., while those beginning with WABC are the Columbia Broadcasting System.

These programs are correct to April first but are subject to change daily thereafter

Daily (Except Saturday and Sunday)

6:45-8:00 Tower Health Exercises
WFAF WEEL WCAE WFI WRC WGY

8:00-8:15 The Aunt Jemima Man
WJZ WBAL WHAM KDKA WJR WBZ
WBZA CKGW WRC

8:00-8:30 Organ Reveille
WABC WCAU WCAO WHP WJAS WFBL
WMAK WHK WKRC WGHP WKBN KOIL
KMBC WIBW KFH WBCM WSPD WMT
WWNC WBRC WDOD WREC WLAC KLRA

8:30-8:45 Morning Devotions
WABC WCAU WHP WFBL WMAK WKRC
WGHP KOIL KMBC KFH WBCM WSPD
WWNC WDBJ WBRC WDOD WREC WLAC

8:30-9:00 Cheerio
WFAF WEEL WCKY WRC WGY WGR
WJAR WTAG WCSH WCAE WWJ WOF
WDAF KSTP WFTF WAPI KPRC WFI
WSB WJAX WTAM WRVA WHAS CKGW

9:30-10:00 Morning on Broadway
WABC WCAU WHP WFBL WMAK WKRC
WGHP WBBM KMOX KOIL WGL WBCM
WSPD WWNC WDBJ WBRC WFIW WDCD
WREC WLAC KLRA KDYL

10:00-10:30 Ida Bailey Allen
WABC WEAN WNAC WCAU WCAO WMAL
WJAS WLWB WFBL WMAK WADC WHK
WKRC WGHP WOWO WBBM KMOX KOIL
KMBC WISN WCCO WSPD

10:00-11:00 National Home Hour
WFAF WEEL WJAR WTAG WCSH WFI
WRC WTAM WGY WGR WCAE WWJ
WSAI WHO KFKX WCFL

11:00-11:30 Forecast School of Cookery
WJZ WBZ WBZA WHAM KDKA WLW
KWK WREN WJR WGN

11:15-11:30 Radio Household Institute
WFAF WEEL WTAG WCSH WLIT WRC
WGY WGR WCAE WTAM WWJ WSAI
KVOO KSD WTMJ KSTP WJAR WHO
WDAF WIBC WHAS WSM WMC WSK
WAPI WSBM KPRC WOAI WKY KFBX

12:00-12:30 Columbia Revue
WABC WEAN WFAN WCAO WMAL WHP
WJAS WLWB WFBL WMAK WADC WGHP
WKBN WOWO KMBC WCCO WBCM WMT
WWNC WDBJ WBRC WFIW WDOD WREC
KLRA KLZ KHJ KFRC KFPY

12:30-1:30 Yoeng's Restaurant Orchestra
WABC WEAN WNAC WLWB WCAU WCAO
WMAL WHP WJAS WLWB WFBL WMAK
WADC WKRC WGHP KOIL KMBC WCCO
KFH WBCM WSPD WMT WWNC WBRC
WFIW WDOD WREC WLAC KLRA KLZ

12:45-1:30 National Farm and Home Hour
WJZ WHAM KDKA WJR WLW KSTP
WBC WRVA WPTF WBT WJAX WHAS
WSM WMC WSB KVOO WKY WOAI
WRC WHO WOW WDAF KPRC WJDX
WBAL WBAP WSBM WIOD KFKX KWK
WREN KOA WLS

1:30-2:00 Harold Stern and Ambassador Orchestra
WABC WEAN WLWB WCAU WCAO WMAL
WHP WJAS WLWB WFBL WMAK WADC

WKRC WGHP WBCM WSPD WWNC WDBJ
WBRC WDOD WLAC KLRA

2:45-3:45 Band of a Thousand Melodies
WJZ WBAL WJR KDKA KWK WAPI
KYW WSM

3:00-3:30 Columbia Ensemble
WCAO WMAL WHP WJAS WFBL WMAK
WADC WGHP WKBN WFBM KMOX KMBC
WISN WIBW WGL WBCM WSPD WMT
WWNV WDBJ WBRC WDOD WREC WLAC
KLRA KLZ KVI KFPY

3:30-4:00 Columbia Educational Features
WABC WCAU WCAO WMAL WHP WFBL
WMAK WADC WKRC WKBN WFBM WMAQ
KOIL KMBC WIBW WGL WBCM WSPD
WMT WWNC WDBJ WBRC WDOD WREC
WLAC KLRA KLZ KDYL KVI KFPY

4:00-5:00 U.S. Band Concert
WABC WEAN WNAC WLWB WCAU WCAO
WMAL WHP WFBL WMAK WADC WHK
WKRC WGHP WFBM WMAQ WBBM KMOX
KOIL KMBC WISN WIBW WGL WBCM
WSPD WMT WWNC WDBJ WBRC WDOD
WREC WLAC KLRA KLZ KDYL KPRC

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

11:30-11:45 Amos 'n' Andy
KYW KWK WREN WTMJ KSTP WEBC
WKY WFAA KPRC WOAI KOA KSL
WDAF WMAQ KECA KGO KOMO KGW
KHQ WHAS WSM WMC WSB WSMB

Sunday

1:30-2:00 Ballad Hour
WLWB WCAU WCAO WHP WFBL WKBW
WADC WKRC WGHP WKBN KMBC WISN
WCCO WIBW WBCM WSPD WMT WWNC
WDBJ WBRC WFIW WDOD WLAC KLRA
KLZ KVI KFPY

2:00-3:00 Roxy Symphony Concert
WJZ WBZA WBZ WBAL KDKA WLW
KYW WRC WFAA WEBC KFAB CKGW
WHAS KSTP

2:00-3:00 Montreal Symphony Orch., Edmund Trudel, Dir.
WABC WEAN WNAC WLWB WCAU WCAO
WMAL WHP WFBL WKBW WADC WKRC
WGHP WKBN WFBM KMBC WISN WCCO
WIBW WBCM WSPD WMT WWNC WDBJ
WBRC WFIW WDOD WLAC KLRA KLZ
KDYL KVI KFPY WMAQ KMOX

3:00-3:30 Columbia Male Chorus
WABC WLWB WCAU WCAO WMAL WHP
WJAS WFBL WKBW WADC WHK WKRC
WGHP WKBN WOWO WFBM WMAQ KMOX
KOIL KMBC WISN WCCO WIBW KFH
WBCM WSPD WMT WWNC WDBJ WBRC
WFIW WDOD WREC WLAC KLRA KLZ
KDYL KVI KFPY

3:00-4:00 Chicago Symphony Orchestra
KSD WOC WOW WDAF KSTP WTMJ
WEBC WJR WGN

3:00-4:00 National Youth Conference
 WJZ WBAL WRVA WPTF WSB WOAI WBLW WGL WBCM WMT WWNC WDBJ
 KFAB KDKA WLW KWK WREN KVOO WFIW WDDO WREC KLRA KLZ KDYL
 KPRC KSL KGO KGW KOMO WBT

3:30-4:00 Conclave of Nations
 WABC WLBZ WCAU WCAO WMAL WHP WRC
 WJAS WFLB WKBW WADC WHK WKRC
 WGHP WFKN WQOW WDFB WMAQ KOIL
 KMBC WISN WCCO WIBW KFH WBCM
 WSPD WMT WWNC WDBJ WBRW WFIW
 WDDO WREC WLAC KLRA KLZ KVI

4:00-5:00 Cathedral Hour
 WABC WEAN WNAC WLBZ WCAU WCAO
 WMAL WHP WJAS WLBW WFLB WKBW
 WADC WHK WKRC WGHP WKBN WQOW
 WFBM KMOX KOIL KMBC WISN WCCO
 WIBW KFH WBCM WSPD WMT WWNC
 WDBJ WBRW WFIW WDDO WREC WLAC
 KLRA KLZ KDYL KVI KFPY

4:00-5:00 Dr. S. Parkes Cadman
 WEAJ WEEI WJAR WTAG WCSH WGY
 WGR WCAE WOW WRVA WPTF WJAX
 WBT WSM WMC WSB WKY WQAI
 KGO KOMO KHQ WSAI WHAS WAPI
 KVOO KPRC KOA WBBE KGW WFCJ

5:00-5:30 McKeason News Reel
 WABC WEAN WNAC WCAU WMAJ WJAS
 WLBW WFLB WHEC WKBW WADC WHK
 WKRC WGHP WQOW WMAQ KMOX KOIL
 KMBC WISN WCCO KFH WSPD WWNC
 WTAR WBJ WBRW WDDO WREC WLAC
 WDSU KRLL KLRA KFJF KTSa KLZ
 KDYL KHL KFRK KOIN KVI KFPY

5:00-6:00 Davey Hour
 WEAJ WEEI WJAR WTAG WCSH WFI
 WIC WGY WGR WCAE WFCJ WSAI
 KSD WOV WDAF WTAM WENR WOC

5:00-6:00 National Religious Service
 WJZ WBZ WBZA WBAL WHAM KFAB
 WLW KWK WBBE WJAX WSBM KOA

5:30-6:00 Sermon by Rev. Donald Grey Barnhouse
 WABC WEAN WNAC WCAU WCAO WMAL
 WHP WJAS WLBW WFLB WKBW CFRB
 WADC WKRC WGHP WQOW WFBM WMAQ

6:00-7:00 Catholic Hour
 WEAJ WEEI WJAR WTAG WCSH WRC
 WGY WWJ KSD WBBE WBT WIOD
 WSM WAPI WKY WJDX KGO KFO
 KHQ KOMO KGW WSAI WHO WLIT
 WGR KOA WFCJ CKGW

6:30-7:00 O Cedar Time
 WABC WEAN WNAC WCAU WMAL WJAS
 WLBW WFLB WKBW WADC WHK WKRC
 WGHP WQOW WMAQ KMOX KOIL KMBC

7:00-7:30 Durant Heroes of the World
 WEAJ WJAR WTAG WCSH WRC WGY
 WCAE WFCJ WWJ WSAI WLS KSD
 KOA WDAF WBBE WRVA KSTP WPTF
 WBT WJAX WIOD WHAS WSM WMC
 WSB WSBM WKY KPRC WQAI WFAA
 WGR WEEI WAPI WOV WLIT WTMJ

7:00-7:30 The Globe Trotter
 WFAN WMAL WHP WJAS WFLB WKBN
 KMOX WISN WBW WBCM WSPD WMT
 WWNC WDBJ WPIW WDDO KLRA KIZ

7:30-7:45 Twimplex Twins
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLBW WFLB WHEC WADC WKRC
 WGHP KMOX KOIL WJDX

7:30-8:00 Williams' Oilomatics
 WJZ WBZ WBZA WBAL WJR WGN
 KWK KOA KSL WHAM WLW WREN

7:30-8:00 Major Bowes' Family
 WEAJ WJAR WRC WGY WCAE WWJ
 WSAI WJDX KSD WOV WFCJ WIOD
 WHAS WMC WSB WKY WTAM KTHS
 WQAI WSBM KSTP WCSH WTMJ WHO

7:45-8:00 The World's Business
 WABC WEAN WNAC WCAU WMAL WJAS
 WLBW WFLB WADC WKRC WGHP WKBN
 WMAQ KMOX KOIL KMBC WISN WCCO

8:00-8:15 Enna Jettick Melodies
 WJZ WBZ WBZA WHAM WKY WJR
 KWK WREN WFAA KPRC WQAI WHAS
 WSM WTMJ KSTP WMC KOA KYW
 WBBE WIOD KTHS WSBM KPO KOMO
 KFI KGW KSL CKGW WJDX KDKA

8:00-8:30 La Palina Rhapsodizers
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLBW WFLB WMAK WADC WHK
 WKRC WGHP WFBM KMOX KOIL KMBC
 WISN WJDX WSPD

8:00-9:00 Heroes of the Church
 WABC WEAN WNAC WHP WFLB WFBM
 KMOX KMBC WIBW WBCM WSPD WWNC
 WBRW WDDO WLAC

8:15-9:15 Collier's Radio Hour
 WJZ WBZ WBZA WHAM KDKA WJR
 KYW KWK WREN KOA KSL KGW
 KOMO KHQ KPO KFI WCKY

8:30-9:00 In a Russian Village
 WABC WEAN WNAC WFAN WCAO WMAL
 WHP WJAS WLBW WFLB WMAK WADC
 WHK WKRC WGHP WKBN WFBM KMOX
 KOIL KMBC WISN WGL WBCM WSPD
 WMT WWNC WDBJ WDDO WLAC KLRA
 KLZ KDYL KHJ KFRK KVI KFPY

8:30-9:00 Chase and Sanborn Choral Orchestra
 WEAJ WJAR WTAG WCSH WRC WGY
 WGR WCAE WFCJ WAPI WWJ WSAI
 KSD WOV WLS WDAF WIOD WHAS
 WBBE WMC WSB CKGW WMB WKY
 KTHS KPRC WQAI WBT WTMJ WJDX
 WTAM KSTP WLIT WIBO WHO WPTF

9:00-9:15 "Our Government"
 WEAJ WJAR WTAG WCSH WRC WGY
 WCAE KSD WHAS WKY WSAI WFCJ
 WSB WBT WMC WSM WFAA WOV
 WQAI WWJ WSBM WVIC WBBE
 WJDX KVOO WLIT WOC WPTF

9:00-10:00 Majestic Theatre of the Air
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLBW WFLB WMAK WDEL CFRB
 CKAC WADC WHK WKRC WHP WQOW
 WFBM WBBM KMOX KOIL KMBC WISN
 WCCO WBW WSPD WWNC WSAZ WTAR
 WDBJ WBRW WDDO WREC WLAC WDSU
 KRLL KLRA KFJF KTSa KLZ KDYL
 KHJ KFRK KOL KOIN KFPY CNRO

9:15-10:15 Atwater Kent Hour
 WEAJ WEEI WRC WFI WGY WGR
 WCAE WTAM WWJ WSAI WGN KSD
 WOV KSTP KOA KSL KFI KGW
 KOMO KPO KHQ WSM WMC WSB
 WFAA KPRC WQAI WKY WSBM WBT
 WHAS WDAF WHO

10:00-10:30 Royal's Poet of the Organ
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLBW WFLB WKBW WADC WHK
 WKRC WGHP WQOW WFBM WBBM KMOX
 KOIL KMBC WSPD KLZ KDYL KHJ
 KPRC KOL KOIN KFPY

10:15-10:45 Studebaker Champions
 WEAJ WFCJ WTAG WFI WCSH WRC
 WGY WGR WCAE WTAM WWJ WGN
 KSTP WJAR WTMJ WBBE KOA KGO
 KGW KOMO KFI KHQ WOV WEEI
 WDAF WFCJ WSAI WHO

10:30-11:00 Arabesque
 WABC WEAN WNAC WCAO WMAL WHP
 WJAS WLBW WFLB WKBW WADC WKRC
 WGHP WKBN WQOW WFBM WMAQ KMOX
 KOIL KMBC WISN WBW KFH WBCM
 WSPD WMT WDBJ WBRW WPIW WDDO
 WLAC KLRA KLZ KDYL KFPY

10:45-11:15 Sunday at Seth Parker's
 WEAJ WCAE WHAS WJAX WOV WKY
 WWJ WFCJ WGY WRC KOA KGO
 WEEI WIOD WGR KPRC WMC WSB

11:00-12:00 Back Home Hour
 WABC WMAL WHP WLBW WKBW WADC
 WGHP WKBN WFBM WISN WCCO KPH

WBMC WSPD WDBJ WFIW WDOD WREC
 KLRA KPFI WKH
 11:15-11:45 Russian Cathedral Choir
 WFAF WJAX WJW WOV WBAP WGY
 KSTP WRC WGR WMC WHO

Monday

11:15-11:30 Senator Arthur Capper
 WABC WEAN WNAC WLBZ WCAO WMAL
 WJAS WLWB WFBL WMAK WGHP KMBC
 WIBW WBCM WSPD WNNC WDBJ WFIW
 WDOD WREC KLRA KDYL KVI KFPY

11:30-11:45 Children's Corner
 WABC WEAN WNAC WLBZ WCAO WMAL
 WHP WJAS WLWB WFBL WMAK WGHP
 WKBN KMBC WBCM WMT WNNC WDBJ
 WFIW WDOD WREC KLRA KLZ KHJ
 KFRC KVI KFPY

11:45-12:00 Your Diet
 WABC WEAN WNAC WLBZ WCAO WMAL
 WHP WJAS WLWB WFBL WMAK WGHP
 WKBN WBCM WMT WNNC WDBJ WFIW
 WDOD WREC KLRA KVI KFPY

2:00-2:30 The Honoluluans
 WABC WLBZ WFAN WCAO WMAL WHP
 WJAS WFBL WMAK WADC WGHP WKBN
 WFBM WBBM KOIL WISN WBCM WSPD
 WMT WNNC WDBJ WBRC WDOD WREC
 WLAC KLRA KLZ KDYL KHJ KFPY

2:30-3:00 Ann Leaf at the Organ
 WABC WEAN WNAC WLBZ WCAO WCAO
 WMAL WHP WJAS WFBL WMAK WADC
 WHK WKRC WGHP WKBN WGOV WFBM
 WBBM KOIL KMBC WISN WIBW KFH
 WBCM WSPD WMT WNNC WDBJ WBRC
 WDOD WREC WLAC KLRA KLZ KDYL
 KHJ KVI KFPY

3:45-4:00 "Gardening for Recreation"
 WJZ KDKA WJR KYW KWK KSTP
 WHAS WSM WJAX WPTF WRC WMC

4:00-5:00 U.S. Marine Band
 WJZ WBAL WREN KWK WCFL WRC

4:15-5:00 Pacific Vagabonds
 WFAF KOA KGO KGW WDAF WAPI
 KSD WIBO WCSH KSTP WSM WHO

5:00-5:45 National Student Federation
 WABC WFAN WCAO WMAL WHP WJAS
 WFBL WMAK WKRC WGHP WKBN WMAQ
 KMOX KMBC WISN WGL WBCM WMT
 WNNC WDBJ WDOD WREC KLRA KLZ

6:00-6:30 Mormon Tabernacle Choir
 WJZ WBAL WSM KWK KOA KSL
 KGO KOMO KFAB WAPI KDKA KSTP
 WREN WRVA WIBO KGW KPO WLW

6:00-6:30 Jan Garber and His Hollywood Orchestra
 WABC WHP WLWB WFBL WMAK WADC
 WGHP WKBN WBBM KMBC WCCO WGL
 KFH WBCM WMT WDBJ WBRC WFIW
 WDOD WREC KLRA KLZ KVI KFPY

6:30-7:00 Yeong's Restaurant Orchestra
 WCAU WMAL WHP WJAS WLWB WMAK
 WKRC WGHP WFBM KOIL KMBC WISN
 WGL KFH WBCM WNNC WDBJ WBRC
 WFIW WDOD KLRA KLZ KVI KFPY

7:15-7:30 The World Today
 WFAF WJAR WCSH WFI WRC WCAE
 WWJ WSAI KSD WEBC WBT WSB
 WWSB WOAI WJDX KSTP

7:30-8:00 Voices from Filmland
 WABC WHP WJAS WADC WHK WKRC
 WGHP WAIU WFBM WMAQ KMOX KMBC
 WISN WCCO WVBW KFH WBCM WSPD
 WSAZ WBRC WDOD WREC WLAC WLAF
 KRLD KLRA KFJF KLZ KDYL KHJ
 KFRC KOIN KVI KFPY

7:30-8:00 Roxy and His Gang
 WJZ WBZ WREN WBZA WHAM KWK
 WSB WSM WWSB WPTF WIBO WJDX

7:45-8:00 Back of the News in Washington
 WFAF WOC WEBC WJAR WCSH WGR
 WSAI KVOO WDAF WCAE WRC WOV
 KGO KGW KSD KSTP

8:00-8:30 Henry-George
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WMAK WADC WHK
 WKRC WGHP WFBM WMAQ KMOX KOIL
 KMBC WISN WCCO WGL KFH WSPD

8:00-8:30 Voice of Firestone
 WFAF WEEI WTIC WJAR WTAG WCSH
 WLIT WRC WGY WGR WCAE WJW
 WSAI KSD WOC WOV WDAF WJDX
 KTHS WWSB KSTP WTMJ WEBC WJAX
 WHAM WSM WMC WBS WBT WRVA
 KVOO KPRC WOAI WKY WFJC WTAM
 WFAA WJDX CKGW KYW WPTF

8:30-9:00 Ingram Shavers
 WJZ WBZ WBZA WHAM KWK WHAS
 WJR WLW WREN KDKA KYW WIOD
 WRVA WJAX WMC WSB WKY KTHS
 KPRC KFAB WBT WEBC WSM WWSB
 WOAI WTMJ KOA

8:30-9:00 Cecco Couriers
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WMAK WADC WHK
 WKRC WGHP WFBM WMAQ KMOX KOIL
 KMBC WCCO WSPD

8:30-9:30 A. & P. Gypsies
 WFAF WEEI WTIC WJAR WTAG WCSH
 WLIT WRC WGY WGR WCAE WJW
 WSAI WGN KSD WOC WDAF WTAM

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

9:00-9:30 Physical Culture Magazine Hour
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WMAK WADC WHK
 WKRC WGHP WMAQ KMOX KOIL KMBC

9:30-10:00 Chesebrough Real Foks
 WJZ WBZ WBZA WHAM KDKA KWK
 KYW WLW WJR CKGW WREN

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

9:30-10:00 An Evening in Paris
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WMAK CFRE WADC
 WHK WKRC WGHP WOVO WMAQ KMOX

10:00-10:30 Stromberg-Carlson Program
 WJZ WBZ WBZA WHAM KDKA WJR
 KYW KWK WREN WTMJ WEBC WRVA
 WBT WJAX WIOD WHAS WSM WMC
 WSB WAPI WWSB WKY KTHS WBAP
 KPRC WOAI KOA KGO KFI KGW
 KHQ KOMO WJDX KSTP

10:00-10:30 Whittall Anglo-Persians
 WFAF WEEI WTIC WJAR WTAG WCSH
 WLIT WGY WGR WCAE WJW
 WSAI KSD WOC WOV WDAF WRC

10:00-10:30 Robert Burns' Panatela Program
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WMAK WADC WHK
 WKRC WGHP WOVO WFBM WMAQ KMOX
 KOIL KMBC WSPD

10:30-11:00 Empire Builders
 WJZ WBZ WBZA WHAM KDKA WJR
 KYW KWK WREN WTMJ KSTP WLW
 WEBC WKY WFAA KPRC WOAI KOA
 KSL KGO KFI KOMO KHQ KGW

10:30-11:00 Gold Strand Crusaders
 WABC WEAN WNAC WCAU WCAO WMAL
 WHP WJAS WLWB WFBL WHEC WMAK
 WADC WHK WKRC WGHP WOVO WFBM
 WMAQ KMOX KOIL KMBC WISN WCCO
 KFH WSPD WNNC WJAR WDBJ WBRC
 WDOD WREC WLAC WDSU KRLD KLRA
 KFJF KTSa KLZ KDYL KHJ KFRC
 KOL KOIN KFPY

11:00-11:30 **The Columbians**
WABC WEAN WNAC WCAU WCAO WMAL WHK WKRC WSPD WDBJ WBRC WDOOD
WLBW WFBL WMAK WHK WKRC WGHF WJZ WBZ WBZA WBAW WHAM KDKA
WKBW WOVW WFBM KOIL KMBC WISN WJRC WLVW WKW KYW WHAS WSM
WCCO WIBW KFH WBCM WSPD WMT WMC WSB WSMB KOA KSL KGO
WVNC WDBJ WFIW WDOD WREC KLRA
KLZ KDYL KFPY

11:30-12:00 **Roy Ingraham's Paramount Orchestra**
WABC WEAN WCAO WMAL WLBW WFBL WKBW WADC WGHF WKBW WOVW WFBM
KOIL KMBC WISN WIBW KFH WBCM WSPD WMT WNC WDBJ WBRG WFIW
WDOD WREC KLRA KLZ KDYL KFPY

11:45-12:00 **Literary Digest Prohibition Poll**
KWK WENR WREN KFAB KSTP WEBC WTMJ WHAS WSM WMC WSB WJDX WAPI WSBM KPRC WFAA WOAI WKY

Tuesday

9:30-9:45 **U.S. Army Band Concert**
WABC WMAL WHP WLBW WFBL WKBW WGHF WBBM KMOX KOIL WGL WBCM WSPD WNC WDBJ WBRG WFIW WDOD WREC WLAC KLRA KDLX

11:00-11:15 **"Your Child"**
WEAF WRC WOC WGY WWJ KSD WSM KSTP WJAR WTAG WCSH WCAE WSAI WBC WPTF WBT WJAX WIOD WHAS WKY KTHS

11:00-11:30 **Air-Way House Cleaning**
WABC WEAN WNAC WCAU WCAO WMAL WJAS WLBW WFBL WHEC WKBW WADC WKRC WGHF WOVW WFBM WBBM KMOX KOIL KMBC WSPD

4:30-5:00 **Auction Bridge Game**
WEAF WEEI WTIC WJAR WTAG WCSH WLIT WRC WGY WGR WCAE WTAM WWJ WSAI WGN KSD WOC WOW WDAF WRVA WBT WJAX WHAS WSM WMC WSB WAPI KVOO WKY KTHS WFAA KPRC WOAI

5:30-6:00 **Club Plaza Orchestra**
WFAN WCAO WMAL WHP WJAS WFBL WKBW WGHF WKBW WOVW WMAQ KMBC WCCO WBCM WMT WDOD WREC KLRA

6:30-7:00 **Charles Dorenberger's Orchestra**
WABC WHP WJAS WLBW WFBL WKBW WKRC WKBW WOVW WFBM KMBC KPH WBCM WDBJ WBRG WFIW WDOD KLRA KLZ KPRC KVI KFPY

6:45-7:00 **Literary Digest Prohibition Poll**
WJZ WBZ WBZA WLW WHAM KDKA WJR WRVA WPTF WBT WJAX WIOD

7:00-7:30 **Bernhard Levitow's Commodore Ensemble**
WLBZ WCAO WMAL WHP WJAS WLBW WKBW WKBW WKBW WBCM WMT WDBJ WBRG WDOD KLRA KLZ KPRC KVI KFPY

7:00-7:30 **Voters' Service**
WEAF WJAR WTAG WCSH WGR WWJ WSAI WOW WDAF WBC WHAS WMC WSBM WFAA WSB WOAI KGO KGW KOMO KHQ KOA WHO WJDX

7:30-8:00 **Manhattan Moods**
WLBZ WFAN WCAO WHP WLBW WKBW WKBW WKBW WBCM WMT WDBJ WBRG WDOD WREC WLAC KLRA KLZ

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

8:00-8:30 **Pure Oil Orchestra**
WJZ WBAL WHAM KDKA WJR KYW KWK WREN KSTP WTMJ WEBC WHAS WMC WBT WJAX WRVA WSM WSB WCKY WIOD KFAB WJDX

8:00-8:30 **Blackstone Program**
WABC WEAN WNAC WCAU WCAO WMAL WHP WJAS WLBW WFBL WHEC WKBW WGHF KOIL KMBC WRHM WMT

8:30-9:00 **Romyan Patteran**
WABC WEAN WNAC WCAU WCAO WMAL WHP WJAS WLBW WFBL WKBW WADC

WHK WKRC WKBW KMOX KOIL KMBC WDOOD
WIBW WBCM WSPD WDBJ WBRC
WREC WLAC KLRA KLZ KFPY

8:30-9:00 **Around the World with Libby**
WJZ WBZ WBZA WBAW WHAM KDKA
WJR WLVW WKW KYW WHAS WSM
WMC WSB WSMB KOA KSL KGO
KGW KOMO KHQ KECA WREN

8:30-9:00 **Florsheim Frolic**
WEAF WEEI WJAR WTAG WCSH WFI
WRC WGY WGR WCAE WWJ WSAI
WGN KSD WOW WDAF WEBC WLVW
WBT WJAX WIOD WKY WOAI WBP
WHO WPTF KSTP KPRC

9:00-9:30 **Ereedy Program**
WEAF WEEI WFI WRC WGY WGR
WCAE WTAM WWJ WGN KSD WHO
WDAF WHAS WSM WMC WSB WJAR
KOA KSL KGO KFI KGW KOMO
KHV WSMB WJDX WCSH WJJC WSAI

9:00-9:30 **Johnson and Johnson**
WJZ WBZ WBZA WBAW WHAM KDKA
KYW KWK WLW CKGW WREN

9:00-10:00 **Old Gold-Paul Whiteman Hour**
WABC WEAN WNAC WCAU WCAO WMAL
WHP WJAS WLBW WFBL WHEC WKBW
WADC WHK WKRC WGHF WKBW WOVW
WFBM WBBM KMOX KOIL KSCJ KMBC
WISN WCCO KFH WBCM WSPD WMT
WVNC WTAAR WDBJ WGST WBRG WFIW
WDOD WREC WLAC WDSU RRLD KLRA
KFJF KTSK KLZ KDYL KHJ KFRC
KXA KOIN KFPY

9:30-10:00 **Sunoco Show**
WJZ WBZ WBAW WHAM KDKA WJR
WKY KYW CKGW

9:30-10:00 **Happy Wonder Bakers**
WEAF WJAR WEEI WTAG WCSH WRC
WGY WGR WCAE WTAM WFJC WWJ
WSAI WIBO KSD WHO WHAS WDAF
WTMJ KSTP WEBC WLVW WOVW WMC
WSB WSMB KVOO WKY WOAI KOA
KSL WJDX KGO KOMO KECA KGW
KHQ WBAW WFI

10:00-10:30 **Westinghouse Salute**
WJZ WBZ WBZA WBAW KDKA WJR
KYW KWK WEBC WBT WJAX WHAS
WSM WMC KECA WAPI WSMB KGW
KPRC KOA KSL KGO KHQ KOMO
WHAM WREN WRVA WKY WOAI WSB

10:00-10:30 **Graybar's, "Mr. and Mrs."**
WABC WEAN WNAC WCAU WCAO WMAL
WJAS WLBW WFBL WKBW WADC WHK
WKRC WGHF WKBW WOVW WFBM WBBM
KMOX KOIL KMBC WISN WCCO WLBW
WSPD WNC WDBJ WBRG WDOD KLRA
KFJF KTSK KLZ KDYL KHJ KFRC
KOL KOIN KFPY

10:30-11:00 **Columbia Symphony Orchestra**
WABC WEAN WNAC WFAN WCAO WMAL
WHP WJAS WLBW WFBL WKBW WHK
WKBW WBRG WFIW WREC WLAC KLRA

10:30-11:30 **Radio-Keith-Orpheum Hour**
WEAF WEEI WJAR WTAG WCSH WFI
WRC WGY WGR WCAE WFJC WWJ
WSAI KSD WHO WOW WAPI WSMB
WFAA KPRC WOAI WKY KTHS KOA
KSL KGO KGW KOMO KHQ WIBO
WTAM WJDX WTMJ KSTP WRVA WBT
WJAX WIOD WHAS WSM WMC WSB
WDAF WEBC KECA

11:00-11:30 **Ted Weems and His Orchestra**
WABC WEAN WFAN WCAO WMAL WHP
WLBW WFBL WKBW WGHF KOIL KMBC
WISN WIBW KFH WBCM WSPD WMT
WDBJ WBRG WFIW WDOD WREC KLRA
KLZ KDYL KFPY

11:30-12:00 **Phil Spitalny's Music**
WEAF WFI WGR WFJC WWJ WOW
KSD CKGW WDAF

Wednesday

10:30-11:00 Interior Decorating
 WABC WEAN WNAC WCAU WCAO WMAL
 WHP WJAS WLWB WFBL WMAK WADC
 WHK WKRC WGHF WOWO WFBM WBBM
 KMOX KOIL KMBC WISN WSPD

2:30-3:00 Syncopated Silhouettes
 WABC WEAN WNAC WCAU WCAO WMAL
 WHP WJAS WFBL WMAK WADC WHK
 WKRC WGHF WKBN WFBM WBBM KOIL
 KMBC WISN WBW WGL KFH WBCM
 WSPD WMT WWNC WDBJ WBRC WDDO
 WREC WLAC KLRA KLZ KDYL KVI
 KFPY

2:45-3:45 U.S. Navy Band
 WJZ WBAL KDKA KWK WRVA KOA

5:00-5:15 Columbia Grenadiers
 WABC WEAN WFAN WMAL WHP WFBL
 WMAK WGHF WKBN WMAK KMOX KMBC
 WISN WCCO WSPD WMT WWNC WDDO
 WREC KLRA KLZ

5:00-5:15 National Woman's Party
 WJZ WBAL WHAM WLW WMAK
 WBC WBT WJAX WHAS WMC WSB
 KVOO WBAP WSM KPRC WOAI KOA
 KGO WRC WJDX KOMO WSM

5:15-5:45 Twilight Troubadors
 WFAN WMAL WHP WJAS WFBL WMAK
 WGHF WKBN WMAK KMOX KMBC WISN
 WCCO WGL WBCM WMT WWNC WDDO
 WREC KLRA KLZ

6:15-6:30 "Going to Press"
 WABC WLWB WFBL WADC KMBC KFH
 WBCM WMT WWNC WDBJ WFIW WDDO
 WREC KLRA KLZ KDYL KVI KFPY

6:30-7:00 Roy Ingraham's Paramount Orchestra
 WABC WHP WJAS WBW WFBL WMAK
 WKRC WKBN KOIL KMBC WGL KFH
 WBCM WWNC WDBJ WBRC WFIW WDDO
 KLRA KLZ KFRC KVI KFPY

7:00-7:30 Bernhard Levitt and His Ensemble
 WABC WLWB WMAL WHP WJAS WLWB
 WMAK WHK WFBM KOIL WISN WCCO
 WGL WBCM WMT WWNC WDBJ WBRC
 WDDO KLRA KLZ KHJ KFRC KVI

7:30-7:45 Adventures of Colonel Powell
 WABC WLWB WLWB WFBL KMBC WCCO
 WBCM WMT WWNC WDBJ WDDO WLAC
 KLRA KLZ KHJ KFRC KVI KFPY

7:45-8:00 The Shoe-Flyer
 WABC WEAN WNAC WCAU WCAO WFBL
 WHEC WHK WKRC WGHF WFBM WMAK
 KMOX WISN WCCO WDSU KRLD KLZ
 KDYL KHJ KFRC KOIN KVI KFPY

7:45-8:00 Wilbur Coon Flyers
 WEAF WTIC WJAR WTAG WCSH WRC
 WGY WGR WCAE WFJC WJW WSAI
 WIBO KSD WOC WOW WDAF

8:00-8:30 General Mills Fast Freight
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WKBW WADC WHK
 WKRC WGHF WAU WFBM WMAK KMOX
 KOIL KSCJ KMBC WISN WCCO KFH
 WWNC WTAR WDBJ WBRC WDDO WREC
 WLAC WDSU WLP WRLD KFJF KLZ
 KDYL KHJ KFRC KOIN KVI KFPY

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

8:30-9:00 Forty Fathom Trawlers
 WABC WEAN WNAC WCAU WCAO WMAL
 WHP WJAS WLWB WFBL WHEC WKBW
 WADC WHK WKRC WGHF WFBM WMAK
 KMOX WGL WSPD

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

8:30-9:00 Sylvania Foresters
 WJZ WBZ WBZA WHAM KDKA KWK
 WREN KYW KFAB

9:00-9:30 Van Heusen Program
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WMAK WADC WHK
 WKRC WGHF WOWO WMAK KMOX KOIL
 KMBC WSPD

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

9:30-10:00 Cuckoo
 WJZ KDKA WCKY WIBO WREN KWK
 WBZ WBZA WHAM

9:30-10:00 La Palina Smoker
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WMAK WADC WHK
 WKRC WGHF WOWO WMAK KMOX KOIL
 KMBC WISN WCCO WSPD WREC

9:30-10:30 Palmolive Hour
 WEAF WEEI WTIC WJAR WTAG WCSH
 WLIT WRC WGY WGR WCAE WTAM
 WWJ WSAI WGN KSD WOC WOW
 WDAF WSBM KSTP WHAS WSM WMC
 WSB WBT WJAX KVOO KPRC WOAI
 KOA KSL KGO KFI KGW KOMO
 KHQ WFAA

10:00-10:30 Philco Hour
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WHEC WMAK CFRB
 CKAC WADC WHK WKRC WGHF WOWO
 WFBM WMAK KMOX KOIL KMBC WISN
 WCCO WLWB WSPD WWNC WTAR WDBJ
 WBRC WDDO WREC WLAC WDSU KRLD
 KLRA KFJF KTSB KLZ KDYL KHJ
 KFRC KOL KOIN KFPY

10:30-11:00 Vincent Lopez and His Orchestra
 WJZ WHAM WREN KDKA WLW KWK
 WBZ

10:30-11:00 Coca Cola Topnotchers
 WEAF WEEI WTIC WJAR WTAG WCSH
 WLIT WRC WGR WCAE WWJ WSAI
 KYW KSD WOC KSTP WBC WRVA
 WBT WJAX WIOD WSM WMC WSB
 WAPI WSBM WKY KTHS KPRC WOAI
 KOA KSL KGO KECA KGW KHQ
 KOMO WJDX WGY WDAF CKGW WPTF
 WVOO

10:30-11:00 Grand Opera Concert
 WABC WEAN WNAC WCAU WMAL WJAS
 WLWB WFBL WMAK WADC WHK WKRC
 WGHF WFBM KMOX KOIL KMBC WISN
 WBW WBCM WSPD WMT WWNC WDBJ
 WBRC WFIW WDDO WREC WLAC KLRA
 KLZ KDYL KFRC KFPY

11:00-11:30 Mystery House
 WEAF WJAR WCAE WTAG WRC WGR
 WWJ KSD WOC WDAF WEBC WJDX

11:00-12:00 Hank Simmons' Show Boat
 WABC WEAN WNAC WCAU WCAO WMAL
 WLWB WFBL WMAK WADC WHK WKRC
 WGHF WKBN WOWO KOIL KMBC WISN
 WCCO WLWB KFH WBCM WSPD WMT
 WWNC WDBJ WBRC WFIW WDDO WREC
 KLRA KLZ KDYL KHJ KFRC KFPY

Thursday

9:00-10:00 U.S. Marine Band
 WJZ WBZ WBZA WREN WRC KWK
 KSTP

11:00-11:15 Boni and Ami
 WEAF WJAR WTAG WCSH WLIT WRC
 WGY WGR WCAE WTAM WWJ WSAI
 KYW KSD WOC WDAF WTMJ KSTP
 WEBC WRVA WBT WJAX WIOD WHAS
 WSM WMC WSB WAPI WSBM KVOO
 WKY KTHS KPRC WOAI CKGW WJDX
 KOA KSL KPO KGO KFI KOMO
 KGW KHO

11:30-11:45 Du Barry Beauty Talk
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WKBW WADC WHK

WKRC WGHP WAIU WOWO WBBM KOIL
 KMBC WISN WSPD

4:00-5:00 U.S. Army Band
 WJZ WJR WCFE WSM KWK WREN
 WLW KOA KGO KOMO WRC WBZ
 WBZA KSTP WSM KGW KOMO

5:00-5:30 Radio-Keith-Orpheum Program
 WEAF WEEL WTIC WJAR KSD WLIT
 WRC WCAE WFJC WSAI WNH WOC
 WOW WTAG WGY WWJ WDAF WGR
 WTAM KYW

5:15-6:00 Governor Clinton Hotel Orchestra
 WABC WFAN WMAL WHP WFBL WKBW
 WGHP WKBN WOWO KMOX KMBC WISN
 WCCO WBCM WSPD WMT WWNC WDOO
 WREC KLRA KLZ

5:30-5:45 The Toddy Party
 WEAF WEEL WTIC WJAR WTAG WCHS
 WLIT WRC WGY WGR WCAE WFJC
 WWJ WSAI KYW KSD WOC WDAF

6:00-6:30 Hotel Shelton Orchestra
 WABC WHP WLWB WFBL WKBW WADC
 WHK WOWO WBBM KMBC KFH WBCM
 WMT WWNC WDBJ WBRW WFIW WDOO
 WREC KLRA KLZ KVI KFPY

7:00-7:30 Mid-Week Federation Hymn Sing
 WEAF WCHS WMC WJAR WIBO WJDX
 WWJ WHAS

7:30-8:00 In the Nation's Capital
 WEAF WSMB WOIA WIBC WMC WJAR
 WTAG WRC WSAI WIBO WJDX KOA
 KFO KGO KGW KECA KOMO KHQ
 WJAX WBT KPRC

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

8:00-8:15 The Vagabonds
 WEAN WNAC WCAO WMAL WLWB WKBW
 WKRC WKBN WFBM WISN WIBW KFH
 WBCM WMT WDBJ WFIW WDOO WREC
 KLRA KLZ KEJ KFRK KVI KFPY

8:00-9:00 Fleischmann Hour
 WEAF WEEL WTAG WJAR WCHS WFI
 WRC WGY WGR WCAE WFJC WHO
 WOW WDAF WWJ WTMJ WBT WJAX
 WIOD WJDX WHAS WMC WSB WSMB
 WKY WSAI KPRC KOA WIBC WBRV
 KSL KOMO WOI WSM KGO KHQ
 WBAF KTHS WAPI KECA WIBO KSD
 CKGW WTAM KGW KSTP WPIF

8:15-8:30 Columbia Educational Features
 WABC WEAN WNAC WFAN WCAO WMAL
 WJAS WLWB WFBL WKBW WHK WKRC
 WGHP WKBN WOWO WFBM KOIL WISN
 WCCO WIBW KFH WBCM WMT WWNC
 WDBJ WFIW WDOO WREC WLAC KLRA
 KLZ KDYL KEJ KFRK KFPY

8:30-9:00 Douglas Shoemakers
 WABC WEAN WNAC WFAN WCAO WMAL
 WJAS WLWB WFBL WKBW WADC WHK
 WKRC WGHP WOWO WMAQ KMOX KOIL
 KMBC WIBW WSPD WWNC WTAR WDBJ
 WBRW WDOO WREC WLAC WDSU KLRA
 WRR KFJF

8:30-9:00 Champion Sparkers
 WJZ WBZ WBZA WBAL WHAM KDKA
 WLW WLS WSK WREN WJR KFAB

9:00-9:30 Smith Brothers
 WJZ WBZ WBZA WBAL WHAM KDKA
 WJR WIBO KWK WREN WCKY

9:00-9:30 True Detective Mysteries
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WIBC WKBW WADC
 WHK WKRC WGHP WOWO WFBM WBBM
 KMOX KOIL KMBC WISN WCCO WSPD

9:00-9:30 Seiberling Singers
 WEAF WEEL WJAR WTAG WCHS WFI
 WRC WGY WGR WCAE WTAM WWJ
 WSAI KYW KSD WHO WOW WDAF
 KSTP WTMJ WHAS WIOD WSM WMC
 WSB WBT WJAX KOA KGO KFI
 KGW KOMO KHQ WSMB WAPI WOI
 WBAF KPRC WKY WRVB

9:30-10:00 De Voe Redskins
 WABC WEAN WNAC WCAU WCAO WMAL
 WJAS WLWB WFBL WKBW WADC WHK
 WKRC WGHP WOWO WBBM KMOX KOIL
 KMBC WSPD

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

9:30-10:00 Maxwell House Melodies
 WJZ WBZ WBZA WBAL WHAM KDKA
 WJR WLW KSTP WKY WTMJ WBBM
 WHAS WSM WMC WBT KPRC KOA
 WJAX WRVB WSB KYW KWK WREN
 WIOD WSMB WOI KGO KECA KGW
 KSL KOMO KHQ WBAF

10:00-10:30 Voice of Columbia
 WABC WEAN WNAC WFAN WCAO WMAL
 WHP WLWB WFBL WKBW WADC WHK
 WKRC WGHP WKBN KMOX KOIL KMBC
 WISN WIBW WBCM WSPD WMT WWNC
 WDBJ WDOO WLAC KLRA KLZ KDYL

10:00-11:00 RCA Victor Hour
 WEAF WEEL WJAR WTAG WCHS WFI
 WRC WGY WGR WCAE WFJC WWJ
 WSAI KSD WOW WIBC WRVB WHO
 WBT WKY KPRC WOI KOA KSL
 WTMJ WBAF WJAX WIOD WHAS WSM
 WMC WSB WSMB KYW WDAF KVOO
 KTHS WTAM KSTP KGO KGW KFI
 KOMO KHQ WJDX

10:00-11:00 Atwater Kent Mid-Week Program
 WJZ WBZ WBZA WBAL WHAM KDKA
 WJR KWK WREN WGN WCKY

10:30-11:00 Columbia Educational Features
 WABC WEAN WNAC WFAN WCAO WMAL
 WHP WLWB WFBL WKBW WADC WHK
 WKRC WKBN WOWO KMOX KOIL KMBC
 WISN WIBW KFH WBCM WSPD WMT
 WWNC WDBJ WBRW WFIW WDOO WREC
 WLAC KLRA KLZ KDYL KFRK KFPY

11:00-11:30 Dream Boat
 WABC WEAN WFAN WCAO WMAL WHP
 WLWB WFBL WKBW WKRC WGHP WFBM
 KMBC WISN WIBW WGL KFH WBCM
 WSPD WMT WWNC WDBJ WBRW WFIW
 WDOO WREC KLRA KLZ KDYL KFPY

11:00-11:30 Conoco Adventures
 WLS KWK WDAF WREN WOW WHO
 WLW WMC KVOO WKY WFAA KTHS
 KPRC WOI KOA KSL WHAS

11:00-12:00 National Grand Opera
 WEAF WFI WRC WGR WWJ KSD
 WRVB CKGW WBT WTAM WDAF

11:30-12:00 Will Osborne and His Orchestra
 WABC WEAN WFAN WCAO WMAL WHP
 WLWB WFBL WKBW WGHP WFBM KOIL
 KMBC WISN WCCO WGL KFH WBCM
 WSPD WMT WWNC WDBJ WBRW WFIW
 WDOO WREC KLRA KLZ KDYL KFPY

Friday

10:45-11:00 Columbia Salon Orchestra
 WABC WEAN WNAC WCAU WCAO WMAL
 WLWB WFBL WMAK WADC WHK WGHP
 WOWO KMOX KOIL KMBC WBCM WSPD
 WWNC WDBJ WFIW WDOO WLAC KLRA
 KLZ

11:00-12:00 NBC Music Appreciation Hour
 WJZ WEAF WBZ WBZA WBAL WHAM
 KDKA WJR WLW KWK WREN WHK
 WFJC KSL WKY WIOD WSMB WAPI
 WPTF KTHS WEEL WJAR WTAG WCHS
 WLIT WRC WGY WGR WCAE WTAM
 WWJ WGN KSD WHO WDAF
 KSTP WTMJ KOA WHAS WSM WMC
 WSB WBT KVOO WFAA KPRC WOI
 WJAX WRVB WIBC WJDX KFXX WSAI

3:00-4:00 U.S. Marine Symphony Orchestra
 WEAF WTAM WWJ KSD WHO WOW
 KYW WRC WCHS

4:00-4:30 Light Opera Gems
 WABC WEAN WNAC WLWB WCAU WMAL
 WHP WFBL WMAK WADC WGHP WFBM

WBBC	KOIL	KMBC	WISN	WCCO	WIBW	WOAI	KTHS	WKY	WSMB	KOA	KSL
WGL	WBCM	WSPD	WMT	WVNC	WDBJ	KGO	KFI	KGW	KOMO	KHQ	WMC
WBRC	WDDO	WREC	WLAC	KLRA	KLZ	WBAP	WLW				
KDYL	KFRK	KVI	KFPY								
4:30-5:00	Club Plaza Orchestra										
WABC	WNAC	WCAU	WMAL	WHP	WFBL	WABC	WEAN	WNAC	WCAU	WCAO	WMAL
WMAK	WADC	WKRC	WGHP	KMOX	KOIL	WHP	WJAS	WLBW	WFBL	WMAK	WADC
KMBC	WISN	WCCO	WIBW	WGL	WBCM	WKRC	WGHP	WOWO	WMAQ	KMOX	KOIL
WSPD	WMT	WVNC	WDBJ	WBYC	WDDO	WISN	WCCO	WIBW	KFH	WSPD	WVNC
WREC	WLAC	KLRA	KLZ	KDYL	KVI	WTAR	WGST	WBRC	WREC	WLAC	WDBJ
						KLRA	WRR	KFPY	KLZ	KDYL	KHJ
						KPRC	KOIN	KFPY	WQAM	WDBO	WTOC
						WDAE	KTRH	KOL			
5:15-5:45	Governor Clinton Hotel Orchestra										
WABC	WFAN	WCAO	WMAL	WHP	WJAS	WABC	WEAN	WNAC	WCAU	WCAO	WMAL
WFBL	WMAK	WKRC	WGHP	WVNC	KMOX	KMBC	WISN	WCCO	WGL	WBCM	WMT
WVNC	WDDO	WREC	KLRA	KLZ							
6:00-6:15	Musical Foursome										
WABC	WCAU	WHP	WLBW	WFBL	WMAK	WABC	WEAN	WNAC	WCAU	WCAO	WMAL
WADC	WKBN	KMBC	WBCM	WMT	WVNC	WDBJ	WBRC	WFIV	WDDO	WREC	KLRA
KLZ	KFRK	KVI	KFPY								
6:30-7:00	Don Bigelow and His Orchestra										
WCAO	WHP	WJAS	WLBW	WFBL	WMAK	WABC	WEAN	WNAC	WCAU	WCAO	WMAL
WKRC	WFBN	KMBC	WISN	WGL	KFH	WBCM	WVNC	WDBJ	WBRC	WFIV	WDDO
KLRA	KLZ	KFRK	KVI	KFPY							
7:00-7:30	Roy Ingraham's Paramount Orchestra										
WABC	WLBZ	WMAL	WHP	WJAS	WLBW	WABC	WEAN	WNAC	WCAU	WCAO	WMAL
WMAK	WGHP	WFBN	KOIL	WISN	WCCO	WGL	WBCM	WMT	WVNC	WDBJ	WBRC
WDDO	KLRA	KLZ	KHJ	KFRK	KVI						
7:30-8:00	Raybestos Twins										
WEAF	WTIC	WCSH	WLIT	KOA	WRC	WCAE	WVJ	WSAI	WIBO	KSD	WOW
WDAF	CKGW	WGR	WGY	WSM	WMC	WSB	WAPI	WSMB	WHAS	WJDX	
8:00-9:00	Cities Service Concert Orchestra										
WEAF	WEEI	WTIC	WLIT	WRC	WGR	WCAE	WTAM	WJAR	WCSH	KYW	WSP
WOW	WDAF	KSTP	WTMJ	WKY	WVJ	WOC	KOA	WFAA	WSAI	WBEBC	KOMO
KGO	KGW	KHQ	WOAI	KPRC	KSL	WTAG	CKGW	KECA			
8:30-9:00	U.S. Army Band Concert										
WABC	WEAN	WNAC	WCAO	WMAL	WJAS	WLBW	WFBL	WMAK	WADC	WHK	WKRC
WGHP	WFBM	WMAQ	KMOX	KOIL	KMBC	WIBW	KFH	WBCM	WSPD	WDBJ	WDDO
WLAC	KLRA	KLZ	KFPY								
8:45-9:00	Natural Bridge Program										
WJZ	WBZ	WBZA	WHAM	KDKA	WLW	KWK	WRVA	WJAX	WIOD	KFAB	WIBO
WBT	WREN	WTFP									
9:00-9:30	Cliquot Club Eskimos										
WEAF	WEEI	WTIC	WJAR	WTAG	WCSH	WLIT	WRC	WGY	WOW	WCAE	WSAI
WIBO	KSD	FWJ	WGR	WDAF	WOC						
9:00-9:30	Interwoven Pair										
WJZ	WBZ	WBZA	WHAM	KDKA	WMC	WKY	WREN	KPRC	WOAI	KOA	WHAS
WSM	WSB	WBT	WJAX	KWK	WRVA	KSL	KGO	KOMO	KHQ	KGW	WAPI
WSMB	WIOD	WLW	WFAA	WJR	CKGW	KSTP	WBEBC	KYW			
9:00-10:30	True Story Hour										
WABC	WEAN	WNAC	WCAU	WCAO	WMAL	WJAS	WLBW	WFBL	WHEC	WMAK	WADC
WHK	WKRC	WGHP	WOWO	WMAQ	KMOX	KOIL	KMBC	WISN	WCCO	KFH	WSPD
KRLD	KLRA	KFPY	KTSA	KLZ	KDYL	KHJ	KFRK	KOIN	KVI	KFPY	
9:30-10:00	Old Company's Songlueue										
WEAF	WEEI	WTIC	WJAR	WCSH	WLIT	WRC	WGY				
9:30-10:00	Armour Program										
WJZ	WBZ	WBZA	WJR	KYW	WREN	KSTP	WBEBC	WRVA	WMC	WSB	WSMB
KPRC	WOAI	KOA	KSL	WSM	WKY	WBT	WHAS	KGO	KFI	KGW	KOMO
KHQ	WJAX	WJDX	WIOD	KDKA	WTMJ	WAPI	WHAM	KWK			
10:00-10:30	Armstrong Quakers										
WJZ	WBZ	WBZA	KDKA	KYW	KWK	WREN	KPRC	WHAN	WJR	KSTP	WTMJ
WABC	WHAS	WSM	WSB	WBT	KVOO						
10:00-10:30	At the Sign of the Green and White										
WABC	WEAN	WNAC	WCAU	WCAO	WMAL	WHP	WJAS	WLBW	WFBL	WMAK	WADC
WKRC	WGHP	WOWO	WMAQ	KMOX	KOIL	WISN	WCCO	WIBW	KFH	WSPD	WVNC
WTAR	WGST	WBRC	WREC	WLAC	WDBJ	KLRA	WRR	KFPY	KLZ	KDYL	KHJ
KPRC	KOIN	KFPY	WQAM	WDBO	WTOC	WDAE	KTRH	KOL			
10:30-11:00	Smith Ballew and His Orchestra										
WJZ	WHAM	KDKA	KWK	WREN	WJR	KGO	KHQ				
10:30-11:00	Curtis Institute of Music										
WABC	WEAN	WNAC	WCAU	WCAO	WMAL	WJAS	WLBW	WFBL	WMAK	WADC	WHK
WKRC	WGHP	KMOX	KOIL	KMBC	WISN	WIBW	WBCM	WSPD	WMT	WVNC	WDBJ
WBRC	WFIV	WDDO	WREC	WLAC	KLRA	KLZ	KDYL	KFPY			
11:00-11:15	Hamilton-Brown Sketch Book										
WJZ	WBZ	WBZA	WHAM	KDKA	WJR	WBO	KWK	WRFN	KOA	KSL	KGO
KFCA	KGW	KHQ	KOMO	KFAB	WKCY	WBY	WVVO	WBAP	WHAS	WSM	WJDX
WSMB	KTHS	WMC	WSB								
11:00-11:30	Will Osborne and His Orchestra										
WABC	WEAN	WCAO	WLBW	WFBL	WMAK	WADC	WKRC	WGHP	KOIL	KMBC	WISN
WIBW	WGL	KFPY	KFH	WBCM	WSPD	WMT	WVNC	WDBJ	WBRC	WFIV	WDDO
WREC	KLRA	KLZ	KDYL								
11:00-12:00	Vincent Lopez and His Orchestra										
WEAF	CKGW	WSM	WGY	WFJC	WWJ	WOW	WDAF				
11:30-12:00	Bert Lown and His Orchestra										
WABC	WEAN	WCAO	WLBW	WFBL	WHK	WGHP	KOIL	KMBC	WISN	WIBW	KFH
WBCM	WSPD	WMT	WVNC	WDBJ	WBRC	WFIV	WDDO	WREC	KLRA	KLZ	KDYL
Saturday											
10:00-10:30	Saturday Syncopators										
WABC	WEAN	WNAC	WLBZ	WCAU	WCAO	WMAL	WHP	WJAS	WLBW	WFBL	WKBW
WHK	WGHP	WFBM	WBBM	KMOX	KOIL	KMBC	WCCO	WGL	WBCM	WSPD	WVNC
WFIV	WDDO	WLAC	KLRA	KDYL							
10:30-11:00	Columbia Grenadiers										
WABC	WEAN	WNAC	WLBZ	WCAU	WCAO	WMAL	WHP	WJAS	WLBW	WFBL	WKBW
WHK	WFBM	WBBM	KMOX	KOIL	KMBC	WCCO	WGL	KFH	WBCM	WSPD	WVNC
WFIV	WDDO	WLAC	KLRA								
11:00-12:00	U.S. Army Band Concert										
WABC	WEAN	WNAC	WLBZ	WCAU	WCAO	WMAL	WHP	WJAS	WFBM	WGL	WBCM
WFBM	KOIL	KMBC	WIBW	WGL	WBCM	WSPD	WMT	WVNC	WDBJ	WFIV	WDDO
WREC	KLRA	KLZ	KHJ	KFRK	KVI						
12:00-12:30	Adventures of Helen and Mary										
WABC	WEAN	WNAC	WFAN	WMAL	WHP	WJAS	WFBM	WKBW	WADC	WGHP	WKBW
WFBM	KOIL	KMBC	WIBW	WGL	WBCM	WSPD	WMT	WVNC	WDBJ	WFIV	WDDO
WREC	KLRA	KLZ	KHJ	KFRK	KVI						
2:00-2:30	Ann Leaf at the Organ										
WABC	WCAU	WCAO	WMAL	WHP	WJAS	WFBL	WKBW	WADC	WGHP	WKBW	WOWO
WBBM	KMOX	KOIL	WCCO	WBCM	WSPD	WMT	WVNC	WDBJ	WBRC	WDDO	WREC
WLAC	KLRA	KLZ	KDYL	KHJ	KFPY						
2:30-3:00	Dominion Male Quartet										
WABC	WEAN	WNAC	WCAU	WCAO	WMAL	WHP	WJAS	WFBM	WKBW	WADC	WHK
WKRC	WGHP	WKBW	WOWO	WBBM	KMOX	KOIL	WCCO	WIBW	KFH	WBCM	WSPD
WMT	WVNC	WDBJ	WBRC	WDDO	WREC	WLAC	KLRA	KLZ	KDYL	KHJ	KVI

AIR-LINE DISTANCES IN STATUTE MILES

Atlanta, Ga.	Baltimore, Md.	Boise, Idaho	Boston, Mass.	Brownsville, Tex.	Buffalo, N. Y.	Chicago, Ill.	Cincinnati, Ohio	Cleveland, Ohio	Denver, Colo.	Des Moines, Iowa	Detroit, Mich.	El Paso, Tex.	Farago, N. Dak.	Fort Worth, Tex.	Galveston, Tex.	Hastings, Neb.	Hot Springs, Ark.	Houghton, Mich.	Jacksonville, Fla.	Kansas City, Mo.	Los Angeles, Calif.	Louisville, Ky.	Memphis, Tenn.	Miami, Fla.	Minneapolis, Minn.	Missoula, Mont.	Nashville, Tenn.	New Orleans, La.	New York, N. Y.	Norfolk, Va.	Oklahoma, Okla.	Omaha, Nebr.	Philadelphia, Pa.	Phoenix, Ariz.	Pittsburgh, Pa.	Portland, Me.	Portland, Ore.	Richmond, Va.	St. Louis, Mo.	Salt Lake City, Utah	San Francisco, Calif.	Schenectady, N. Y.	Seattle, Wash.	Shreveport, La.	Spokane, Wash.	Springfield, Mass.	Vermillion, S. Dak.	Washington, D.C.				
1273	1670	774	1967	838	1577	1126	1248	1417	832	833	1360	228	968	561	803	588	773	1252	1492	717	663	1174	938	1710	980	895	1117	1030	1810	1696	518	718	1748	330	1498	2015	1107	1628	938	483	893	1023	1178	764	1028	1889	742	1648				
-	575	1830	933	960	695	583	368	500	1208	738	595	1293	1112	750	688	901	498	947	286	675	1935	317	335	610	905	1790	218	227	747	507	753	815	663	1592	520	1022	2172	470	467	1580	2133	840	2180	548	1960	863	917	542				
-	2055	358	1525	273	603	423	305	1505	913	398	1750	1143	1239	1245	1154	964	808	682	962	2313	498	792	958	948	1947	597	1001	170	167	1173	1026	90	2002	194	446	2367	128	1389	292	516	2120	405	1433	290	2196	973	2045	Boise, Idaho				
-	2246	1610	1872	1453	1663	1754	367	1155	1671	969	975	1263	1538	934	1384	1367	2098	1168	663	1623	1506	2368	1140	252	1631	1713	2133	327	1138	1044	2113	2883	476	100	2553	471	1036	2099	2696	150	2508	1404	2279	79	1314	392	Boston, Mass.					
-	1081	398	849	737	1384	500	1766	1159	613	2067	1304	1574	1598	1415	1302	922	1015	1250	2590	823	1131	1258	1125	2124	941	1359	188	467	1490	1280	268	2295	476	100	2553	471	1036	2099	2696	150	2508	1404	2279	79	1314	392	Brownsville, Tex.					
-	1575	1234	1184	1402	1047	1102	1398	638	1445	471	287	1013	650	1543	1221	1289	1019	956	560	802	862	2195	483	802	1184	733	1740	626	1087	291	435	1117	863	1164	1614	1023	1424	1961	1944	1428	975	1317	1675	1770	2015	100	1858	1805	1161	1493		
-	454	392	175	1368	762	218	1690	923	1821	1289	1019	956	560	802	862	2195	483	802	1184	733	1740	626	1087	291	435	1117	863	1164	1614	1023	1424	1961	1944	1428	975	1317	1675	1770	2015	100	1858	1805	1161	1493								
-	292	307	175	1368	762	218	1690	923	1821	1289	1019	956	560	802	862	2195	483	802	1184	733	1740	626	1087	291	435	1117	863	1164	1614	1023	1424	1961	1944	1428	975	1317	1675	1770	2015	100	1858	1805	1161	1493								
-	218	1090	509	234	1333	818	839	897	742	569	599	628	541	1842	92	410	957	603	1578	239	708	568	474	755	620	501	1578	258	802	1987	399	308	1450	2037	605	1743	490	1567	2163	408	2025	904	1804	473	785	303	Chicago, Ill.					
-	607	1153	554	642	643	925	353	749	970	1468	555	828	1035	878	1732	699	670	1018	1079	1628	1562	503	485	1875	585	1320	1803	985	1488	793	32	946	1618	1020	793	827	1692	468	1490	799	827	1692	468	1490	799	827	1692	468	1490			
-	545	980	697	640	851	256	488	458	1024	180	1433	477	485	1338	235	1074	523	825	1023	983	469	122	972	1154	718	1197	1479	905	270	92	1547	1012	1470	624	1243	1085	187	895	624	1243	1085	187	895	624	1243	1085	187	895				
-	1475	745	1018	1111	800	761	427	832	643	1976	315	621	1156	542	1552	468	938	483	522	905	666	444	1685	208	657	1975	445	452	1490	2087	467	1945	891	1715	540	705	397	752	1338	1990	920	1726	891	1715	540	705	397	752	1338	1990	920	1726
-	1161	543	723	757	802	1422	1481	836	702	1253	976	1662	1156	1111	1769	988	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	

How To Use Your RADEX

ALL stations in America are listed in RADEX in three tables:

- 1st by Frequencies.
- 2nd by Call Letters.
- 3rd by States and Cities.

The Index by Frequencies is the one to be used, the other two are merely supplementary.

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

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

Let us assume that the station we are hearing is WEAF in New York. First we must ascertain the frequency for this station. Look it up under WEAF in the Index by Call Letters or under New York in the Index by States and Cities. In either of these indexes we find that the frequency of WEAF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEAF is one of the two stations which have been assigned the 660 kcys. 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 mmeters) 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 kcys. We turn to 630 in the Index by Frequencies and enter our dial readings for this band which on the set we are using was 72-70.

We now have found that the dial numbers for 630 kcys. are 72-70 and the dial numbers for 660 kcys. are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 650 kcys. 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 kcys. Now it is clear that if we reset our dials at 71-69 our set will be tuned to 640 kcys. and at that point KFI of Los Angeles will be heard, always assuming of course that it is on the air and within range of our particular set.

Now we tune in some other station, proceeding

as before until after an 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 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.

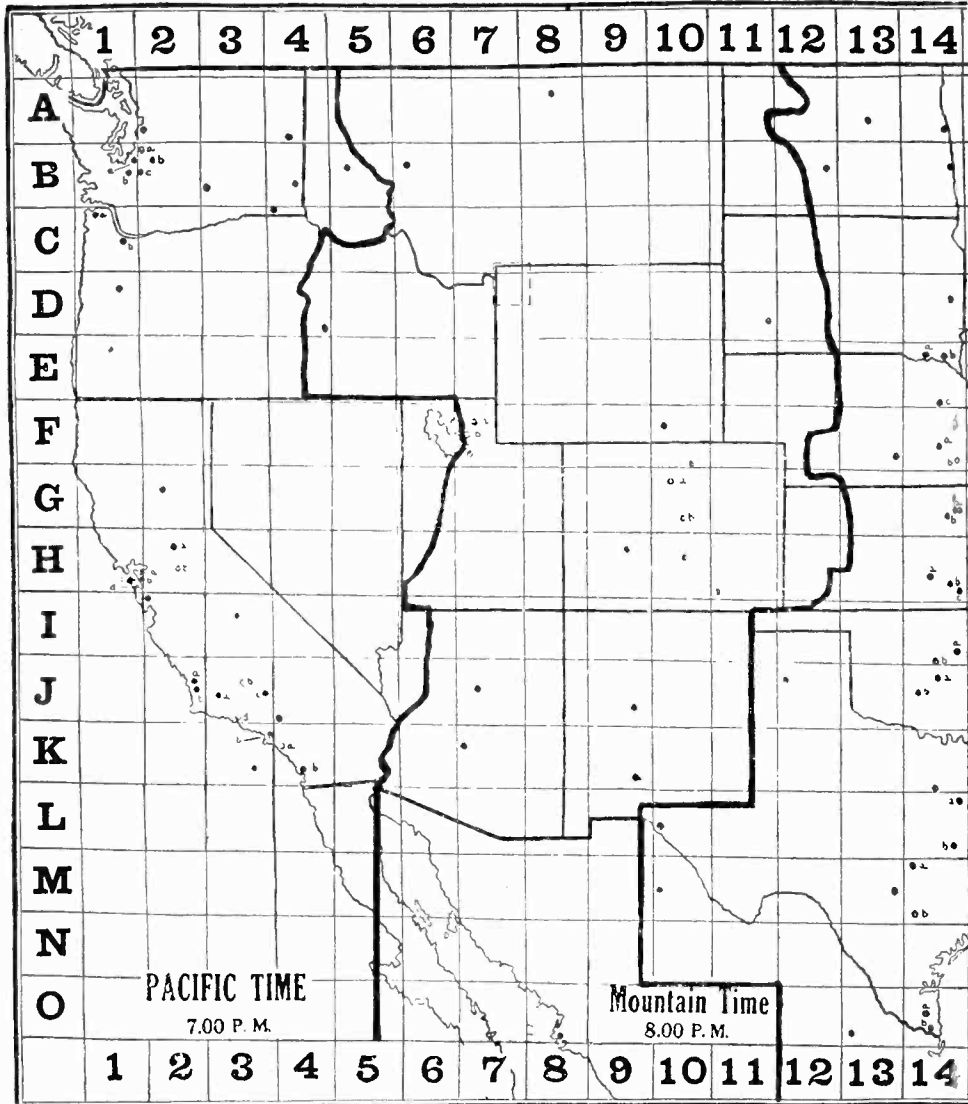
The second column in the index by Frequencies, as we have seen, gives the power of the station as measured in watts. This power also aids us in

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
KLO 1000 Spokane, Wash. MCAF 900 Lincoln, Neb. WEEI 300 Houston, Texas WQW 1000 Berrien Springs, Mich.	Louis Warner, Inc. Telephone-Teletype University Edison Elec. Illuminating Co. Headquarters of the World Emmanuel Missionary College	
600 kilocycles	499.7 meters	75-73
CFCH 250 Topeka Falls, Ont. KFBU 500 Lorain, Wis. MCAF 900 Lincoln, Neb. WEEI 300 Houston, Tex. WQW 1000 Berrien Springs, Mich.	Abilotti Power & Paper Co. Bishop N. S. Thomas Airline Radio Corp. National Radio Co., Inc. National School of Wireless Vaulgren School of Wireless WERC, Inc. Hazard, Tenn. Hartford, Conn.	
610 kilocycles	491.5 meters	74-72
EFTC 1000 San Francisco, Calif. WEFM 4000 Kansas City, Mo. WFAA 200 Philadelphia, Pa. WLF 300 Philadelphia, Pa. WOO 200 Kansas City, Mo.	Don Lee, Inc. Kansas City Star Co. Reynolds Broadcasting Co., Inc. Crigfield Bros., Inc. Unity School of Christianity	
620 kilocycles	483.6 meters	73-71
EFAD 500 Phoenix, Ariz. KFW 1200 St. Paul, Minn. WIAE 1000 Toronto, Ont. WJED 1000 Washington, D. C. WLF 300 Denver, Colo. WMSJ 1000 Milwaukee, Wis.	Electrical Equipment Co. Oregonian Publishing Co. Ziegler Publishing Co. Canadian National Railway Canadian National Railway University of Chicago Stephens College Washington Post & Times Herald State Marketing Bureau	
630 kilocycles	475.9 meters	72-70
CFCH 250 Topeka Falls, Ont. KFBU 500 Lorain, Wis. MCAF 900 Lincoln, Neb. WEEI 300 Houston, Tex. WQW 1000 Berrien Springs, Mich.	Abilotti Power & Paper Co. Bishop N. S. Thomas Airline Radio Corp. National Radio Co., Inc. National School of Wireless Vaulgren School of Wireless WERC, Inc. Hazard, Tenn. Hartford, Conn.	
640 kilocycles	468.5 meters	
EFTC 1000 San Francisco, Calif. WEFM 4000 Kansas City, Mo. WFAA 200 Philadelphia, Pa. WLF 300 Philadelphia, Pa. WOO 200 Kansas City, Mo.	Don Lee, Inc. Kansas City Star Co. Reynolds Broadcasting Co., Inc. Crigfield Bros., Inc. Unity School of Christianity	
650 kilocycles	461.3 meters	70-68
WSM 3600 Nashville, Tenn.	National Life & Accident Ins. Co.	
660 kilocycles	454.3 meters	69-67
WFAA 200 Philadelphia, Pa. WEFM 4000 Kansas City, Mo.	Don Lee, Inc. Reynolds Broadcasting Co., Inc.	
670 kilocycles	447.5 meters	68-66
WMAO 5600 Chicago, Ill.	Chicago Daily News, Inc.	
680 kilocycles	440.9 meters	67-65
KFO 5000 San Francisco, Calif. WFTF 5600 Raleigh, N. C.	Hearst Corp. & The Chronicle Durham Life Insurance Co.	



The Radex Press,
1367 East 6th Street,
Cleveland, Ohio

Enclosed find \$..... Enter
my subscription as shown.

Write Name Plainly.....

Street and No.....

City and State.....

Leatherette cover.....\$0.50
Next five issues.....1.00
Next ten issues.....1.75
Next twenty issues and cover free.....3.50
Two yearly subscriptions and cover.....3.50
Begin with No. 38. No. 39.

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--------------------------------|---------------------------------------------------------------------------------------|
| 4:00-4:30 The Aztecs
WABC WEAN WNAC WLBZ WCAU WCAO
WMAL WHIP WFLB KKBW WADC WHK
WGHP WKBN WBBM KOIL KMBC WCCO
WLBW WBCM WSPD WMT WWNC WDBJ
WBRC WDOD WREC WLAC KLRA KLZ
KDYL KHJ KFRC KVI KFPY | 4:30-5:00 Yonkers Madrigal Society
WJZ KDKA WLW KYW KWK KSTP
WFAA | 4:30-5:00 Club Plaza Orchestra
WABC WEAN WCAU WCAO WMAL WHP
WFLB WKBW WADC WKRC WGHP KMOX
KOIL KMBC WCCO WLBW WBCM WSPD
WMT WWNC WDBJ WBRC WDOD WREC
WLAC KLRA KLZ KDYL KFRC KVI | 5:00-5:30 French Trio
WABC WFAN WCAO WMAL WHP WFLB
WKBW WGHP WOWO WMAQ KMOX KMBC
WCCO WBCM WSPD WMT WWNC WDOD
WREC KLRA KLZ KHJ KFRC KVI | 5:30-5:45 Quiet Harmonies
WABC WFAN WCAO WMAL WHP WJAS
WFLB WKBW WKRC WGHP WKBW WOWO
WMAQ KMBC WCCO WLBW WBCM WSPD
WMT WWNC WDOD WREC KLRA KLZ
KHJ KFRC KVI KFPY | 5:45-6:00 Skinner Concert
WEAF WLIT WRC WGY WCAE WSAI
KYW KSD WEEI | 6:00-6:30 Hotel Shelton Orchestra
WABC WHIP WLBW WFLB WKBW WADC
WFBM WBBM KMBC WLBW WBCM
WWNC WDBJ WBRC WFIW WDOD WREC
KLRA KLZ KHJ KFRC KVI KFPY | 6:30-7:00 "Ted Husling's Sportslants"
WABC WHIP WJAS WLBW WKBW WKRC
WKBW WFBM KOIL KMBC KFH WBCM
WMT WWNC WDBJ WBRC WFIW WDOD
KLRA KLZ KHJ KVI KFPY | 7:00-7:15 Floyd Williams
WEAF WEEI WJAR WCSH WGY WWJ
WOW WSM WMC WSB WSMB | 7:00-8:00 Bernhard Levitov's Commodore Ensemble
WABC WLBZ WCAO WMAL WHP WJAS
WLBW WKBW WKBN WFBM WISN KFH
WBCM WMT WWNC WDBJ WBRC WDOD
KLRA KLZ KHJ KFRC KVI KFPY | 7:15-7:30 The Jameses
WEAF WTAG WGY WWJ WOW CKGW
WJAR | 7:15-7:30 RCA Theremin Music
WJZ WREN KWK KFAB KSTP WEBC
WPTF WBT WSM WIOD WHAS WSB
WSMB KVOO KPRC WOAI KOA KSL
WMC KTHS | 7:30-8:00 Phil Spitaloy's Music
WEAF WJAR WCSH WGY WWJ WHO
WRVA WPTF WTAG KSTP | 7:30-8:00 The Fuller Man
WJZ WBZ WBZA WBAL WHAM KDKA
WLW KYW CKGW WREN KFAB KWK
KOA KSL KGO KECA KGW KHQ | 8:00-8:15 Dixies Circus
WJZ WBZ WBZA KDKA WLW KYW | 8:00-8:15 Columbia Educational Features
WABC WEAN WNAC WLBZ WCAU WCAO
WMAL WJAS WLBW WFLB WKBW WADC
WKRC WKBW WFBM KOIL KMBC WISN
WCCO WLBW KFH WBCM WSPD WMT
WWNC WDBJ WDOD WREC WLAC KLRA
KLZ KDYL KHJ KFRC KVI KFPY | 8:00-8:30 The New Business World
WEAF WJAR WTAG WFI WCSH WRC
WGY WGR WWJ WSAI WOW WDAF
WRVA WPTF WBT WMC WSMB KOA
WCAE WOAI KTHS WFJC KSD WHO
WJAX KPRC KGO KGW KHQ KOMO
KECA KSL WCAE KSTP | 8:15-8:30 Babson Finance Period
WABC WEAN WNAC WCAU WCAO WMAL
WJAS WLBW WFLB WKBW WADC WHK | WKRC WGHP WOWO WMAQ KMOX KOIL
KMBC WCCO WSPD
WDBJ
KLZ | 8:30-9:00 Lauderland Lyrics
WEAF WEEI WJAR WTAG WCSH WRC
WGY WGR WCAE WJZ WSAI KSD
WHO WOW WDAF WJAX WBSB WBT
WBT WJAX WIOD WHAS WSM WMC
WSB WAPI WSMB WKY KTHS WBAP
KPRC WOAI KOA KSL WSBT WBO | 8:30-9:00 The Silver Flute
WJZ WHAM WJR KWK CKGW KOA
KDKA | 8:30-9:00 Dixie Echoes
WABC WEAN WLBZ WFAN WCAO WMAL
WJAS WLBW WFLB WKBW WADC WKRC
WGHP WKBW WFBM KMOX KOIL KMBC
WISN WCCO WLBW WBCM WSPD WMT
WWNC WDBJ WBRC WDOD WREC WLAC
KLRA KLZ KHJ KVI KFPY | 9:00-9:30 Nit Wit Hour
WABC WEAN WNAC WLBZ WCAU WCAO
WMAL WHIP WJAS WLBW WFLB WKBW
WADC WHK WKRC WGHP WKBN WOWO
WFBM WMAQ KMOX KOIL KMBC WISN
WCCO WLBW KFH WBCM WSPD WMT
WWNC WDBJ WBRC WFIW WDOD WREC
WLAC KLRA KLZ KDYL KHJ KFRC | 9:00-10:00 General Electric Hour
WEAF WEEI WJAR WTAG WCSH WFI
WRC WGY WGR WCAE WTAM WWJ
KSD WHO WOW WDAF WTMJ WEBC
WJAX WHAS WSB WBT KPRC WOAI
WRVA WSAI KSTP WAPI WKY KOA
KGW KOMO KHQ KSL KGO KFI
WSMB WBO WMC WFAA | 9:30-10:00 Dutch Masters Minstrels
WJZ WBZ WBZA WBAL WHAM KDKA
WLW WJR KWK KYW WREN | 9:30-10:00 Around the Samovar
WABC WEAN WNAC WLBZ WCAO WMAL
WHP WJAS WLBW WFLB WKBW WADC
WHK WKRC WGHP WKBW WOWO WFBM
WMAQ KMOX KOIL KMBC WISN WLBW
KFH WBCM WMT WWNC WDBJ WBRC
WDOD WREC WLAC KLRA KLZ KDYL
KHJ KFPY | 10:00-11:00 B. A. Rolfe and His Orchestra
WEAF WEEI WJAR WTAG WCSH WFI
WRC WGY WGR WCAE WTAM WWJ
KSD WHO WOW WDAF WIOD KSTP
WTMJ WSMB WJAX WHAS WSB WBT
KPRC WMC WOAI WKY WAPI WSAI
WFJC KOA KGO KFI KSL KGW
KOMO KHQ WEBC WJDX WRVA WFAA | 10:00-11:00 Paramount Public Hour
WABC WEAN WNAC WLBZ WCAU WCAO
WMAL WHP WJAS WLBW WFLB WKBW
WKBW CFRB WADC WHK WKRC WGHP
WCAH WKBW WIOD WFBM WBBM KMOX
KOIL KSCJ KMBC WISN WCCO WLBW
KFH WBCM WSPD WMT WWNC WTAR
WDBJ WBRC WFIW WDOD WREC WLAC
WDSU KRLL KLRA KFLD KTHS KLZ
KDYL KHJ KFRC KOL KNX KOIN
KFPY | 11:00-11:30 Roy Ingraham's Paramount Orchestra
WABC WEAN WLBZ WCAU WCAO WMAL
WHP WLBW WFLB WKBW WKRC WGHP
KOIL KMBC WISN WLBW WBCM WMT
WWNC WDBJ WBRC WFIW WDOD WREC
KLRA KLZ KDYL KFPY WADC WHK
KNX | 11:30-12:00 Guy Lombardo and His Royal Canadians
WABC WCAU WCAO WMAL WHP WLBW
WFLB WKBW WKRC WGHP KOIL KMBC
WISN WLBW WBCM WMT WWNC WBRC
WFIW WDOD WREC KLRA KLZ KDYL
KFPY | 12:00-1:00 Rudy Vallee and His Orchestra
WEAF WRC WTAM KSD WHO KSTP
WJAX |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------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4:00-4:30 The Aztecs
 WABC WEAN WNAC WLBZ WCAU WCAO WKRC WGHF WOCO WMAQ KMOX KOIL
 WMAL WHP WFBL WKBW WADC WHK
 WGHF WKBN WBBM KOIL KMBC WCCO
 WIBW WBCM WSPD WMT WNBC WDBJ
 WBRC WDDO WREC WLAG KLRA KLZ
 KDYL KHJ KFRC KVI KFPY

4:30-5:00 Yonkers Madrigal Society
 WJZ KDKA WLW KYW KWK KSTP
 WFAA

4:30-5:00 Club Plaza Orchestra
 WABC WEAN WCAU WCAO WMAL WHP
 WFBL WKBW WADC WKRC WGHF KMOX
 KOIL KMBC WCCO WIBW WBCM WSPD
 WMT WNBC WDBJ WBRC WDDO WREC
 WLAC KLRA KLZ KDYL KFRC KVI

5:00-5:30 French Trio
 WABC WFAN WCAO WMAL WHP WFBL
 WKBW WGHF WQOW WMAQ KMOX KMBC
 WCCO WBCM WSPD WMT WNBC WDDO
 WREC KLRA KLZ KHJ KFRC KVI

5:30-5:45 Quiet Harmonies
 WABC WFAN WCAO WMAL WHP WJAS
 WFBL WKBW WKRC WGHF WKBN WQOW
 WMAQ KMBC WCCO WIBW WBCM WSPD
 WMT WNBC WDDO WREC KLRA KLZ
 KHJ KFRC KVI KFPY

5:45-6:00 Skinner Concert
 WEAF WLIT WRC WGY WCAE WSAI
 KYW KSD WEEI

6:00-6:30 Hotel Shelton Orchestra
 WABC WHP WLBW WFBL WKBW WADC
 WFBM WBBM KMBC WIBW KFH WBCM
 WNBC WDBJ WBRC WPIW WDDO WREC
 KLRA KLZ KHJ KFRC KVI KFPY

6:30-7:00 "Ted Husing's Sportslants"
 WABC WHP WJAS WLBW WKBW WKRC
 WKBN WFBM KOIL KMBC KFH WBCM
 WMT WNBC WDBJ WBRC WPIW WDDO
 KLRA KLZ KHJ KVI KFPY

7:00-7:15 Floyd Williams
 WEAF WEEI WJAR WCSH WGY WWJ
 WOW WSM WMC WSB WSMB

7:00-8:00 Bernhard Levitov's Commodore Ensemble
 WABC WLBZ WCAO WMAL WHP WJAS
 WLBW WKBW WKBN WFBM WISN KFH
 WBCM WMT WNBC WDBJ WBRC WDDO
 KLRA KLZ KHJ KFRC KVI KFPY

7:15-7:30 The Jameses
 WEAF WTAG WGY WWJ WOW CKGW
 WJAR

7:15-7:30 RCA Theremin Music
 WJZ WREN KWK KFAB KSTP WEBG
 WPTF WBT WSM WIOD WHAS WSB
 WSMB KVOO KPRC WOAI KOA KSL
 WMC KTHS

7:30-8:00 Phil Spitaloy's Music
 WEAF WJAR WCSH WGY WWJ WHO
 WRVA WPTF WTAG KSTP

7:30-8:00 The Fuller Man
 WJZ WBZ WBZA WBAL WHAM KDKA
 WLW KYW CKGW WREN KFAB KWK
 KOA KSL KGO KECA KGW KHQ

8:00-8:15 Dixies Circus
 WJZ WBZ WBZA KDKA WLW KYW

8:00-8:15 Columbia Educational Features
 WABC WEAN WNAC WLBZ WCAU WCAO
 WMAL WJAS WLBW WFBL WKBW WADC
 WKRC WKBN WFBM KOIL KMBC WISN
 WCCO WIBW KFH WBCM WSPD WMT
 WNBC WDBJ WDDO WREC WLAC KLRA
 KLZ KDYL KHJ KFRC KVI KFPY

8:00-8:30 The New Business World
 WEAF WJAR WTAG WPI WCSH WRC
 WGY WGR WWJ WSAI WOW WDAF
 WRVA WPTF WBT WMC WSMB KOA
 WCAE WOAI KTHS WFJC KSD WHO
 WJAX KPRC KGO KGW KHQ KOMO
 KECA KSL WCAE KSTP

8:15-8:30 Babson Finance Period
 WABC WEAN WNAC WCAU WCAO WHK
 WJAS WLBW WFBL WKBW WADC

8:30-9:00 Launderland Lyrics
 WEAF WEEI WJAR WTAG WCSH WRC
 WGY WGR WCAE WWJ WSAI KSD
 WHO WOW WDAF WDTW WBBM WQOW
 WBT WJAX WIOD WHAS WSM WMC
 WSB WAPI WSMB WKY KTHS WBAI
 KPRC WOAI WSOB KSL WSBT WBO

8:30-9:00 The Silver Flute
 WJZ WHAM WJR KWK CKGW KOA
 KDKA

8:30-9:00 Dixie Echoes
 WABC WEAN WLBZ WFAN WCAO WMAL
 WJAS WLBW WFBL WKBW WADC WKRC
 WGHF WKBN WFBM KMOX KOIL KMBC
 WISN WCCO WIBW WBCM WSPD WMT
 WNBC WDBJ WBRC WDDO WREC WLAC
 KLRA KLZ KHJ KVI KFPY

9:00-9:30 Nit Wit Hour
 WABC WEAN WNAC WLBZ WCAU WCAO
 WMAL WHP WJAS WLBW WFBL WKBW
 WADC WHK WKRC WGHF WKBN WQOW
 WFBM WMAQ KMOX KOIL KMBC WISN
 WCCO WIBW KFH WBCM WSPD WMT
 WNBC WDBJ WBRC WPIW WDDO WREC
 WLAC KLRA KLZ KDYL KHJ KFRC

9:00-10:00 General Electric Hour
 WEAF WEEI WJAR WTAG WCSH WPI
 WRC WGY WGR WCAE WTAM WWJ
 KSD WHO WOW WDAF WTMJ WEBG
 WJAX WHAS WSB WBT KPRC WOAI
 WRVA WSAI KSTP WAPI WKY KOA
 KGW KOMO KHQ KSL KGO KFI
 WSMB WBO WMC WFAA

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

9:30-10:00 Around the Samovar
 WABC WEAN WNAC WLBZ WCAO WMAL
 WHP WJAS WLBW WFBL WKBW WADC
 WHK WKRC WGHF WKBN WQOW WFBM
 WMAQ KMOX KOIL KMBC WISN WIBW
 KFH WBCM WMT WNBC WDBJ WBRC
 WDDO WREC WLAC KLRA KLZ KDYL
 KHJ KFPY

10:00-11:00 B. A. Rolfe and His Orchestra
 WEAF WEEI WJAR WTAG WCSH WPI
 WRC WGY WGR WCAE WWJ WGN
 KSD WHO WOW WDAF WIOD KSTP
 WTMJ WSMB WJAX WHAS WSB WBT
 KPRC WMC WOAI WKY WAPI WSAI
 WFJC KOA KGO KFI KSL KGW
 KOMO KHQ WEBG WJDX WRVA WFAA

10:00-11:00 Paramount Public Hour
 WABC WEAN WNAC WLBZ WCAU WCAO
 WMAL WHP WJAS WLBW WFBL WBCM
 WKBW CFRB WADC WHK WKRC WGHF
 WCAH WKBN WQOW WFBM WBBM KMOX
 KOIL KSCJ KMBC WISN WCCO WIBW
 KFH WBCM WSPD WMT WNBC WTAR
 WDBJ WBRC WPIW WDDO WRFC WLAC
 WDSU KRLD KLRA KFPY KTHS KLZ
 KDYL KEJ KFRC KOL KNX KOIN
 KFPY

11:00-11:30 Roy Ingraham's Paramount Orchestra
 WABC WEAN WLBZ WCAU WCAO WMAL
 WHP WLBW WFBL WKBW WKRC WGHF
 KOIL KMBC WISN WIBW WBCM WMT
 WNBC WDBJ WBRC WPIW WDDO WREC
 KLRA KLZ KDYL KFPY WADC WHK
 KNX

11:30-12:00 Guy Lombardo and His Royal Canadians
 WABC WCAU WCAO WMAL WHP WLBW
 WFBL WKBW WKRC WGHF KOIL KMBC
 WISN WIBW WBCM WMT WNBC WBRC
 WPIW WDDO WREC KLRA KIZ KDYL
 KFPY

12:00-1:00 Rudy Vallee and His Orchestra
 WEAF WRC WTAM KSD WHO KSTP
 WJAX

Atlanta, Ga.	1273	1670	774	1967	836	1577	1126	1248	1417	332	833	1360	228	968	561	803	588	773	1252	1492	717	663	1174	936	1710	980	895	1
Baltimore, Md.	-	575	1830	933	960	695	583	368	550	1208	738	595	1293	1142	750	688	901	498	947	286	675	1935	317	335	610	905	1790	
Boise, Idaho	-	2055	588		1325	273	603	423	305	1605	1133	318	1750	1142	1233	1245	1154	964	808	682	962	2313	498	792	958	948	1790	
Boston, Mass.	-	2266			1610	1872	1453	1663	1754	637	1155	1671	969	975	1263	1538	394	1394	1367	2098	1150	663	1623	1506	2368	1440	252	1
Brownsville, Tex.	-	1891	398	449	737	550				1766	1159	613	2067	1304	1574	1598	1415	1302	922	1015	1250	2590	823	1133	1258	1125	2124	1
Buffalo, N. Y.	-	1575	1234	1184	1402					1047	1102	1398	628	1445	471	287	1013	650	1543	1025	923	1370	1093	777	1100	1335	1706	1
Chicago, Ill.	-	454	392	175		1368	762	218	1690	1367	862	218	1690	571	1221	1289	1019	956	560	880	862	2195	483	802	1184	733	1740	1
Chicago, Ill.	-	249	307			918	310	236	1249	571				820	954	566	585	367	861	413	1741	268	481	1190	356	1348	1	
Chicago, Ill.	-	218	109			234	1333	818		839	897	742	569	589	839	897	742	569	589	628	541	1842	92	410	957	603	1578	1
Chicago, Ill.	-	1223	617			607	1153	554	642	1046	1116	871	787	518	643	925	353	749	970	1468	555	828	335	878	1732	699	670	1
Chicago, Ill.	-	607	1153	554	642					640	851	256	498	458	640	851	256	498	458	1024	180	1433	477	485	1938	235	1074	1
Chicago, Ill.	-	545	980	397						1018	1111	800	761	427	543	723	757	802	1422	1481	836	702	3153	978	1662	1156	1115	1
Chicago, Ill.	-	1475	745							-	1161				-	283	544	273	1093	943	460	1212	751	448	1150	870	1312	1
Chicago, Ill.	-	808	375	1277						-	808	375	1277		-	808	375	1277		799	677	1423	807	492	941	1087	1595	1
Chicago, Ill.	-	513	668							-	513	668			-	513	668			1178	226	1177	693	591	1468	399	891	1
Chicago, Ill.	-	901								-	901				-	901				1178	226	1177	693	591	1468	399	891	1
Chicago, Ill.	-	1216	633	1787	636	830	1545	872	1208	-	1216	633	1787	636	830	1545	872	1208		1216	633	1787	636	830	1545	872	1208	1
Chicago, Ill.	-	952	2153	595	591	328	1192	2070		-	952	2153	595	591	328	1192	2070			952	2153	595	591	328	1192	2070		1
Chicago, Ill.	-	1352	480	370	1247	413	1117			-	1352	480	370	1247	413	1117				1352	480	370	1247	413	1117			1
Chicago, Ill.	-	1825	1602	3555	1522	910	1			-	1825	1602	3555	1522	910	1				1825	1602	3555	1522	910	1			1
Chicago, Ill.	-	319	923	605	1550					-	319	923	605	1550						319	923	605	1550					1
Chicago, Ill.	-	878	700	1483						-	878	700	1483							878	700	1483						1
Chicago, Ill.	-	1516	2359							-	1516	2359								1516	2359							1
Chicago, Ill.	-	1040								-	1040									1040								1

How To Use Your RADEX

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.

INDEX BY FREQUENCIES AND DIAL NUMBERS	
590 kilocycles 508.2 meters	<u>76 74</u>
600 kilocycles 499.7 meters	<u>75 73</u>
610 kilocycles 491.5 meters	<u>74 72</u>
620 kilocycles 483.6 meters	<u>73 71</u>
630 kilocycles 475.9 meters	<u>72 70</u>
640 kilocycles 468.5 meters	<u>71 69</u>
650 kilocycles 461.3 meters	<u>70 68</u>
660 kilocycles 454.3 meters	<u>69 67</u>
670 kilocycles 447.5 meters	<u>68 66</u>
680 kilocycles 440.9 meters	<u>67 65</u>

Let us assume that the station we are hearing is WEAF in New York. First we must ascertain the frequency for this station. Look it up under WEAF in the Index by Call Letters or under New York in the Index by States and Cities. In either of these indexes we find that the frequency of WEAF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEAF is one of the two stations which have been assigned the 660 kcys. 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 kcys. We turn to 630 in the Index by Frequencies and enter our dial readings for this band which on the set we are using was 72-70.

We now have found that the dial numbers for 630 kcys. are 72-70 and the dial numbers for 660 kcys. are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 660 kcys. 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 660 kcys. Now it is clear that if we reset our dials at 71-69 our set will be tuned to 640 kcys. and at that point KFI of Los Angeles will be heard, always assuming of course that it is on the air and within range of our particular set.

Now we tune in some other station, proceeding

N STATUTE MILES

117	1030	1810	1696	518	718	1748	330	1498	2015	1107	1628	938	483	893	1823	1178	764	1028	1889	742	1648	Albuquerque, N. Mex.	
118	427	747	507	753	815	663	1592	520	1022	2172	470	467	1580	2133	840	2180	548	1960	863	917	542	Atlanta, Ga.	
597	1001	170	167	1173	1026	90	2002	194	446	2367	128	731	1858	2451	278	2341	1064	2110	282	1083	33	Baltimore, Md.	
631	1713	2153	2137	1138	1044	2113	1733	1863	2282	349	2060	1389	292	516	2120	405	1433	290	2198	973	2045	Boise, Idaho	
41	1359	188	467	1490	1280	268	2295	478	100	2553	471	1036	2099	2696	150	2508	1410	2279	79	1214	392	Boston, Mass.	
52	536	1695	1465	659	1061	1614	1023	1424	1961	1944	1428	975	1317	1675	1770	2015	510	1858	1805	1161	1493	Brownsville, Tex.	
326	1087	291	435	1117	883	278	1904	178	438	2167	375	662	1701	2298	249	2130	1080	1900	325	916	290	Buffalo, N. Y.	
139	931	711	696	689	432	664	1451	411	892	1165	618	259	1260	1855	702	1743	725	1514	774	479	594	Chicago, Ill.	
236	708	568	474	755	620	501	1578	258	802	1987	399	308	1450	2037	605	1974	688	1746	659	694	403	Cincinnati, Ohio	
159	922	404	429	946	738	343	1745	115	603	2063	353	490	1567	2163	408	2035	904	1804	473	785	303	Cleveland, Ohio	
018	1079	1628	1562	503	485	1575	585	1320	1803	985	1488	793	372	946	1618	1020	799	827	1692	468	1490	Denver, Colo.	
566	288	1415	1195	456	828	1335	1065	1140	1678	1895	1154	670	952	1547	1012	1470	624	1243	1085	187	895	Des Moines, Iowa	
168	938	483	522	905	666	444	1685	208	657	1875	445	452	1490	2087	467	1945	911	1715	540	705	397	Detroit, Mich.	
69	986	1902	1755	578	875	1834	347	1592	826	1286	1695	1033	689	993	1930	1373	752	1838	1990	920	1726	El Paso, Tex.	
00	1221	1813	1258	786	390	1186	1225	952	1313	1248	1180	658	865	1447	1157	1260	1002	978	1240	284	1411	Fargo, N. Dak.	
843	470	1398	1226	188	590	1334	1858	1097	1642	1612	1170	568	977	1454	1445	1658	508	1470	1493	689	1210	Fort Worth, Tex.	
523	825	1023	983	469	122	972	1154	718	1197	1479	905	670	1249	1693	1467	1938	233	1753	1584	938	1214	Galveston, Tex.	
497	870	1275	1216	357	135	1222	901	967	1454	1271	1142	455	708	1297	1267	1288	415	1061	1340	1467	1139	Hastings, Nebr.	
70	358	1125	955	260	490	1051	1094	825	1371	1733	897	325	1116	1648	1175	1759	142	1552	1824	605	936	Hot Springs, Ark.	
160	1187	849	946	926	547	827	1550	630	924	1638	870	591	1242	1833	776	1588	1043	1360	860	510	613	Houghton, Mich.	
502	511	838	548	988	1098	758	1800	703	1113	2442	953	755	1840	2375	960	2450	733	2239	957	1203	647	Jacksonville, Fla.	
472	678	1097	1009	293	165	1037	1045	780	1300	1397	937	238	922	1500	1107	1505	326	1286	1173	880	943	Kansas City, Mo.	
777	1675	2446	2352	1182	1312	2388	575	2135	2431	625	2283	1585	577	345	2445	956	1420	939	2515	1291	2295	Los Angeles, Calif.	
153	623	450	528	675	579	580	1518	345	892	1953	457	242	1400	1983	695	1945	598	1720	745	683	473	Louisville, Ky.	
195	358	953	778	482	529	878	1248	660	1025	1852	722	242	1250	1800	1010	1857	272	1652	1055	642	763	Memphis, Tenn.	
621	681	1095	802	1233	1402	1023	1998	1014	1357	2716	831	1067	2098	2203	1229	2740	950	2528	1210	1510	927	Miami, Fla.	
695	1050	1019	1047	692	291	985	1279	745	1145	1435	968	464	988	1585	975	1403	859	1173	1056	238	936	Minneapolis, Minn.	
582	1733	2030	2045	1162	978	1997	932	1754	1133	430	1967	1331	435	762	1978	395	1457	170	2060	887	1940	Missoula, Mont.	
4	470	758	586	602	604	683	1445	922	1015	1970	526	253	1390	1958	820	1973	470	1752	863	704	567	Nashville, Tenn.	
		1173	932	575	845	1090	1318	923	1445	2063	899	599	1433	1923	1259	2098	280	1898	1287	960	968	New Orleans, La.	
		293	1324	1144	813	2142	313	277	2455	287	873	1972	2568	142	2419	1230	2190	120	1189	204		New York, N. Y.	
		1186	1095	220	2027	316	565	2458	79	79	771	1925	2510	426	2440	1037	2211	411	1166	143		Norfolk, Va.	
		405	1856	843	1013	1550	1488	1122	456	862	1386	1354	1523	327	1149	1205	115	1012				Oklahoma, Okla.	
		1094	1692	837	1318	1373	1020	1020	652	1425	1313	652	833	1425	1133	1572	312	833	1425	1133	1572	Omaha, Nebr.	
		2079	254	360	2419	205	608	1923	2518	205	2388	1153	2159	807	1143	122	1153	2159	807	1143	122	Philadelphia, Pa.	
		1829	2945	1007	1960	1270	504	652	2152	1112	1067	1020	2220	1043	1980	1067	1020	2220	1043	1980		Phoenix, Ariz.	
		545	2174	242	1094	2127	2725	197	2515	561	1670	2264	350	2143	939	1918	400	891	188			Pittsburgh, Pa.	
		2563	565	2381	1723	636	536	2405	143	1723	636	536	2405	143	1763	295	8488	1293	2360			Portland, Me.	
		699	1850	2436	406	2362	985	2133	407	1089	96	1158	1738	898	1722	466	1500	958	450	710		Portland, Ore.	
		592	1950	697	1155	548	2027	785	1845	1655	730	2625	1383	2437	1155	548	2027	785	1845			Richmond, Va.	
		2548	680	2363	1220	2339	1220	2339	1220	2339	1220	2339	1220	2339	1220	2339	1220	2339	1220	2339			St. Louis, Mo.
		2363	1220	2339	86	1165	313	1220	2339	86	1165	313	1220	2339	86	1165	313	1220	2339	86	1165	313	Salt Lake City, Utah
		1820	229	2445	1282	2339	1220	2339	1220	2339	1220	2339	1220	2339	1220	2339	1220	2339	1220	2339			San Francisco, Calif.
		1621	1333	726	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035			Schenectady, N. Y.
		2216	1055	2105	1242	321	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073			Seattle, Wash.
		1842	321	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073			Shreveport, La.
		1242	321	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073			Spokane, Wash.
		1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073			Springfield, Mass.
		1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073	1073			Vermillion, S. Dak.

before un-
after an eve-
g or two, we have
nks filled on every
e. We are now able to
our dials for any frequency
desire and consequently any
tion we may want whether we have
r received it before or not.

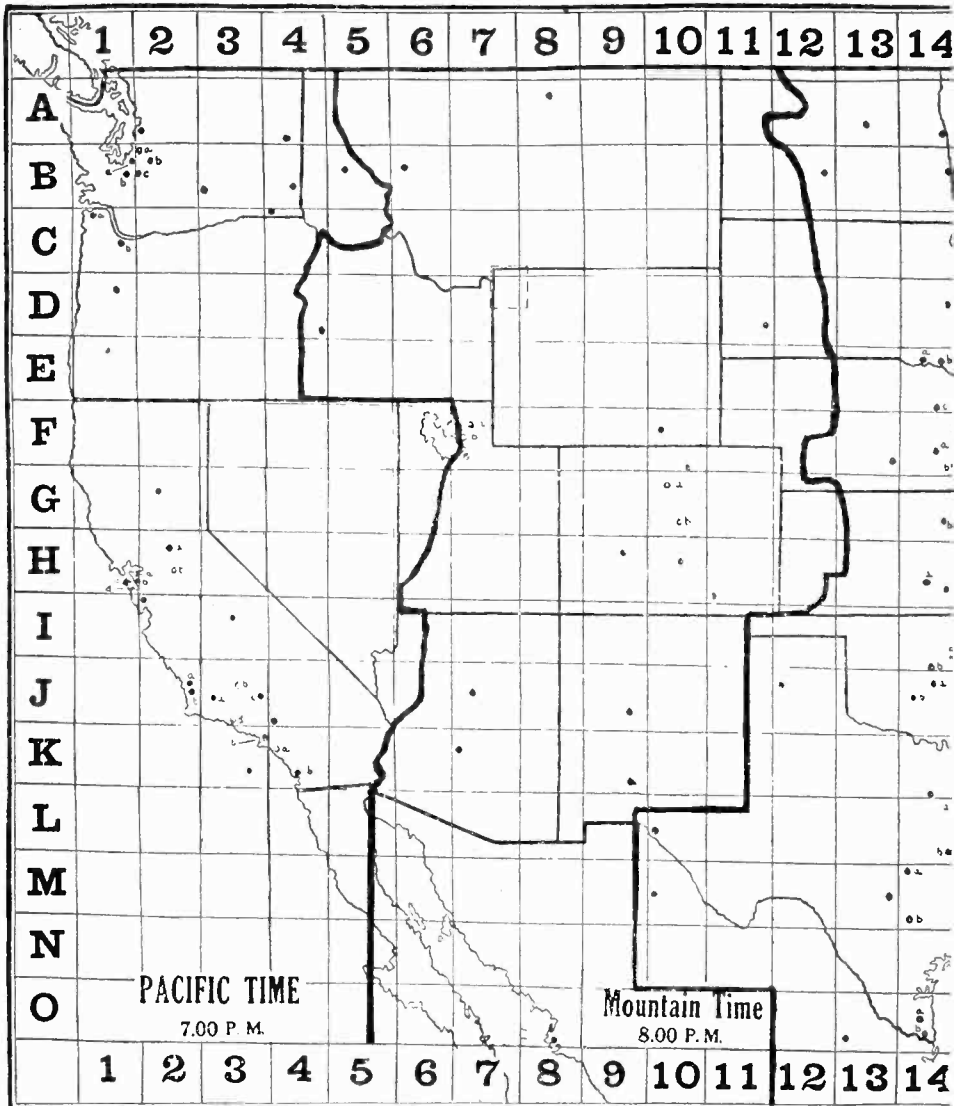
Our index now becomes of great value to us identifying programs. Let us say that we hear six at 67-65 on our dials. We refer to our set by Frequencies and Dial Numbers and we know that we are in tune to 680 kilocycles. On this set there are two stations: KPO at San Francisco and WPTF at Raleigh, N. C. 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 would not interfere. When two stations in the same locality have the same frequency, they are required to divide time. In this case of course it is not possible to tell which one of the two stations is broadcasting at the particular moment but we do know it is one or the other of them.

The second column in the index by Frequencies, 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.



The Radex Press,
1367 East 6th Street,
Cleveland, Ohio

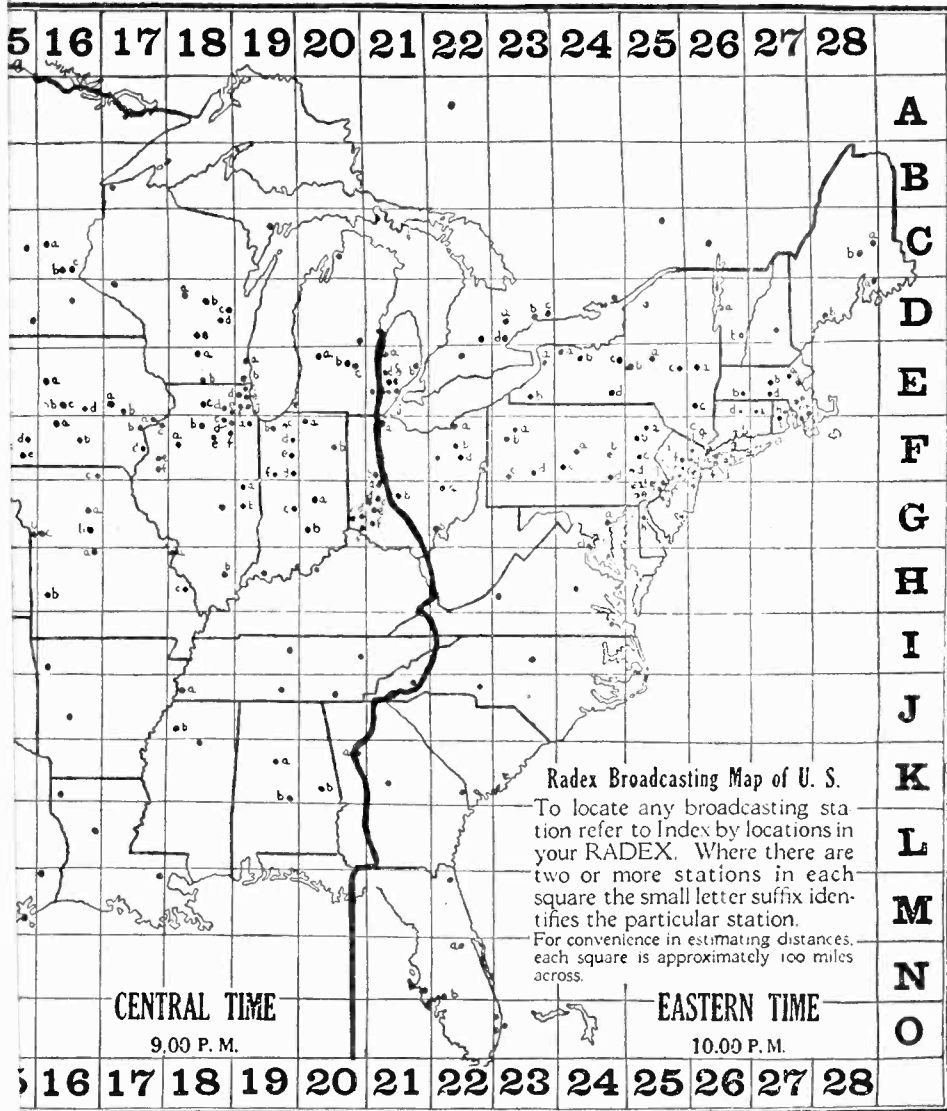
Enclosed find \$..... Enter
my subscription as shown.

Write Name Plainly.....

Street and No.....

City and State.....

- Leatherette cover \$0.50
- Next five issues 1.00
- Next ten issues 1.75
- Next twenty issues and cover free 3.50
- Two yearly subscriptions and cover 3.50
- Begin with No. 38. No. 39.



Radio is in a constant process of change. New developments and changes in stations, are taking place monthly. If you are one of those who like to be intelligent in your interests, you cannot afford to miss a single copy of this magazine.

RADEX is published monthly excepting in July and August. The price is 25c per copy. Subscription prices are shown in coupon on opposite page. Fill it out and mail it at once.

We can provide you with a beautiful leatherette cover stamped in gold to protect your RADEX from wear, give solid backing for making entries and add attractiveness to your set. Price, 50c each or we will give one free as shown on coupon.

INDEX BY FREQUENCIES AND DIAL NUMBERS

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KEY

Frequency in kilocycles. Wave lengths in meters. Second column shows night power in watts. Third 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.

540 kilocycles 555.6 meters

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

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Manitoba Telephone System
Sria. de Agricultura y Fomento

550 kilocycles 545.1 meters

KFDY	500	1+	Brookings, S. D.
KFUO	500	2+	St. Louis, Mo.
KFYR	500	1	Bismarck, N. D.
KOAC	1000	---	Corvallis, Ore.
KSD	500	2N	St. Louis, Mo.
WGR	1000	N	Buffalo, N. Y.
WKRC	500	XC	Cincinnati, Ohio
KEY	105	---	Merida, Yucatan

96		
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S. D. State College
Concordia Theological Seminary
Hoskins-Meyer
State Agricultural College
Pulitzer Publishing Co.
Radio Station WGR, Inc.
WKRC Incorporated
Partido Socialista del Sureste

560 kilocycles 535.4 meters

KFDM	500	X+	Beaumont, Texas
KLZ	1000	C	Denver, Colo.
KTAB	1000	---	Oakland, Cal.
WEBW	500	3D	Beloit, Wis.
WFI	500	1N	Philadelphina, Pa.
WIBO	1000	3+N	Chicago, Ill.
WLIT	500	1N	Philadelphina, Pa.
WNOX	1000	X+	Knoxville, Tenn.
WPCC	500	3S	Chicago, Ill.
WQAM	1000	---	Miami, Fla.

915		
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Magnolia Petroleum Co.
Reynolds Radio Co., Inc.
Associated Broadcasters
Beloit College
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	---	Hollywood, Cal.
KXA	500	---	Seattle, Wash.
WEO	750	1	Columbus, Ohio
WKBN	500	1C	Youngstown, Ohio
WMAC	250	2	Cazenovia, N. Y.
WMCA	500	3	New York City
WNAX	1000	---	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.
CJCA	500	4	Edmonton, Alta.
CJSC	500	4	Toronto, Ont.
CKCL	500	3	Toronto, Ont.
CKNC	500	3	Toronto, Ont.
CKUA	500	4	Edmonton, Alta.
CNRE	500	4	Edmonton, Alta.
KGFX	200	D	Pierre, S. D.
KSAC	500	2+	Manhattan, Kans.
WIBW	500	2+C	Topeka, Kansas
WOBW	250	1	Charleston, W. Va.
WSAZ	250	1	Huntington, W. Va.
WTAG	250	N	Worcester, Mass.

83 1/2		
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Dominion Battery Co.
Christian and Missionary Alliance
The Edmonton Journal, Ltd.
The Evening Telegram
The Dominion Battery Co.
Canadian National Carbon Co., Ltd.
University of Alberta
Canadian National Railways
Dana McNeil
State Agricultural College
Topeka Broadcasting Assn., Inc.
Charleston Radio Broadcasting Co.
WSAZ, Inc.
Telegram Publishing Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

KHQ	1000	X+N
WCAJ	500	1
WEEL	1000	N
WEMC	1000	D
WOW	1000	1N
XFI	1000	X
-----	500	CP

Spokane, Wash.
Lincoln, Nebr.
Boston, Mass.
Berrien Springs, Mich.
Omaha, Nebr.
Mexico City
Lynchburg, Va.

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Louis Wasmer, Inc.
Nebraska Wesleyan University
Edison Elec. Illuminating Co.
Emmanuel Missionary College
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
CJRM	500	4
CJRW	500	4
CMW	1000	---
CNRO	500	3
KFSD	500	+
WCAC	250	2+
WCAO	250	C
WGBS	600	2+
WMT	500	X
WOAN	500	1
WREC	500	1+C

Iroquois Falls, Ont.
Moose Jaw, Sask.
Fleming, Sask.
Havana, Cuba
Ottawa, Ont.
San Diego, Cal.
Storrs, Conn.
Baltimore, Md.
New York City
Waterloo, Iowa
Lawrenceburg, Tenn.
Memphis, Tenn.

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

610 kilocycles 491.5 meters

CMBY	200	612
KFRC	1000	C
WDAF	1000	N
WFAN	500	2C
WIP	500	D
WJAY	500	2

Havana, Cuba
San Francisco, Cal.
Kansas City, Mo.
Philadelphia, Pa.
Philadelphia, Pa.
Cleveland, Ohio

75		
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Lino E. Cosculluala
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	X+N
KTAR	500	+
WFLA	1000	1+
WLBZ	500	---
WSUN	1000	1+
WTMJ	1000	+N

Portland, Ore.
Phoenix, Arizona
Clearwater, Fla.
Bangor, Maine
St. Petersburg, Fla.
Milwaukee, Wis.

72		
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Oregonian Publishing Co.
KAR Broadcasting Co.
Chamber of Commerce
Maine Broadcasting Co., Inc.
Chamber of Commerce
Milwaukee Journal

630 kilocycles 475.9 meters

CFCT	500	---
CJGX	500	---
CNRA	500	---
KFRU	500	1
WGBF	500	1
WMAL	250	1+C
WOS	500	1+
XFC	350	---

Victoria, B. C.
Yorkton, Sask.
Moncton, N. B.
Columbia, Mo.
Evansville, Ind.
Washington, D. C.
Jefferson City, Mo.
Jalapa, Ver.

70		
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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 Estado de Veracruz

640 kilocycles 468.5 meters

CMCF	250	643
KFI	5000	N
WAIU	500	C
WOI	5000	D
XFG	2000	---

Havana, Cuba
Los Angeles, Cal.
Columbus, Ohio
Ames, Iowa
Mexico City

67 1/2		
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Raul Karmen
Earle C. Anthony, Inc.
American Insurance Union
State College of Agriculture
Sria, de Guerra y Marina

650 kilocycles 461.3 meters

WSM	5000	N
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Nashville, Tenn.

65		
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National Life & Accident Ins. Co.

660 kilocycles 454.3 meters

WAAW	500	D
WEAF	50000	N

Omaha, Neb.
New York City

63		
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Omaha Grain Exchange
National Broadcasting Co., Inc.

670 kilocycles 447.5 meters

WMAQ	5000	C
XEB	1000	---

Chicago, Ill.
Mexico City

61		
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Chicago Daily News, Inc.
E. Buen Tono, S. A.

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.
-----	250	CP	Gueda Springs, Kans.

59		
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Scroggin & Co. Bank
Hale Bros. & The Chronicle
Durham Life Insurance Co.
R. E. Campbell and F. L. Stallard

690 kilocycles 434.5 meters

CFAC	500	1	Calgary, Alta.
CFCN	500	1	Calgary, Alta.
CHCA	500	1	Calgary, Alta.
CJCT	500	1	Calgary, Alta.
CKGW	5000	2N	Toronto, Ont.
CNRC	500	1	Calgary, Alta.
CNRX	5000	2	Toronto, Ont.
NAA	1000	---	Arlington, Va.
VAS	500	---	Louisburg, N. S.

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The Calgary Herald
Western Broadcasting Co.
The Western Farmer
Albertan Publishing Co., Ltd.
Gooderham & Worts, Ltd.
Canadian National Railways
Canadian National Railways
U. S. Navy
Department of Fisheries

700 kilocycles 428.3 meters

WLW	5000	N	Cincinnati, Ohio
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55		
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Crosley Radio Corp.

710 kilocycles 422.3 meters

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

53		
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R. S. MacMillan
Bamberger Broadcasting Service, Inc.

720 kilocycles 416.4 meters

WGN	25000	N	Chicago, Ill.
WLIB	25000	N	Chicago, Ill.

57		
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Chicago Tribune
Chicago Tribune

730 kilocycles 410.7 meters

CHLS	50	1	Vancouver, B. C.
CHYC	5000	2	Montreal, Que.
CKAC	5000	2C	Montreal, Que.
CKCD	500	1	Vancouver, B. C.
CKFC	50	1	Vancouver, B. C.
CKMO	50	1	Vancouver, B. C.
CKWX	100	1	Vancouver, B. C.
CMK	2000	---	Havana, Cuba
CNRM	5000	2--	Montreal, Que.
XEN	1000	---	Mexico City

53		
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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
General Electric, S. A.

740 kilocycles 405.2 meters

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

48		
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The M. M. Johnson Co.
Atlanta Journal Co.

750 kilocycles 399.8 meters

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

47		
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WJR, The Goodwill Station, Inc.

760 kilocycles 394.5 meters

KVI	1000	C	Tacoma, Wash.
WEW	1000	D	St. Louis, Mo.
WJZ	3000	N	New York City

45		
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Puget Sound Broadcasting Co., Inc.
St. Louis University
Radio Corp. of America, Inc.

770 kilocycles 389.4 meters

KFAB	5000	1N	Lincoln, Nebr.
WBMM	25000	1C	Chicago, Ill.
WJBT	25000	1S	Chicago, Ill.

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Nebraska Buick Automobile Co.
The Atlass Co., Inc.
The Atlass Co., Inc.

780 kilocycles 384.4 meters

CKY	5000	3	Winnipeg, Manitoba
CNRW	5000	3	Winnipeg, Manitoba
KELW	500	2	Burbank, Cal.
KTM	500	2+	Los Angeles, Cal.
WEAN	250	+C	Providence, R. I.
WMC	500	+N	Memphis, Tenn.
WPOR	500	1	Norfolk, Va.
WTAR	500	1C	Norfolk, Va.

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Manitoba Telephone System
Canadian National Railways
Earl L. White
Pickwick Broadcasting Corp.
The Shepard Co.
Memphis Commercial-Appeal
WTAR Radio Corp.
WTAR Radio Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

790 kilocycles 379.5 meters

CMHC	500	791	Tuinucu, Cuba
KGO	7500	N	Oakland, Cal.
WGY	50000	N	Schenectady, N. Y.

271		
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Frank H. Jones
General Electric Co.
General Electric Co.

800 kilocycles 374.8 meters

WBAP	5000	1XN	Fort Worth, Texas
WFAA	5000	1XN	Dallas, Texas

395		
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Carter Publications, Inc.
News & Journal

810 kilocycles 370.2 meters

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

385		
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Northwestern Broadcasting, Inc.
Eastern Broadcasters, Inc.

820 kilocycles 365.6 meters

CMI	500	815	Havana, Cuba
WHAS	10000	N	Louisville, Ky.

375		
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Instituto Provincial
Courier-Journal & Times

830 kilocycles 361.2 meters

CMGA	300	834	Colon, Cuba
KOA	12500	N	Denver, Colo.
WEPS	1000	D	Gloucester, Mass.
WRUF	5000	---	Gainesville, Fla.

36		
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Leopoldo V. Figueros
General Electric Co.
Alfred F. Kleindinst
University of Florida

840 kilocycles 356.9 meters

CFCA	500	1	Toronto, Ont.
CHCT	1000		Red Deer, Alta.
CKLC	1000	2	Red Deer, Alta.
CKOW	500	1	Toronto, Ont.
CMC	500	---	Havana, Cuba
CNRD	1000	2	Red Deer, Alta.
CNRT	500	1	Toronto, Ont.
WGM	100	3	Adamsburg, Pa.
WOP	100	3	Jeannette, Pa.

35		
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Star Publishing & Ptg. Co.
G. F. Tull & Ardern Ltd.
Alberta Pacific Grain Co., Ltd.
Nestle's Food Co.
Cuban Telephone Co.
Canadian National Railways
Canadian National Railways
Oakford-Olympia Park Corp.
Oakford-Olympia Park Corp.

850 kilocycles 352.7 meters

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

345		
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W. K. Henderson
Loyola University

860 kilocycles 348.6 meters

KFOZ	250	---	Los Angeles, Cal.
KMO	500	+	Tacoma, Wash.
WABC	5000	1XC	New York City
WBOQ	5000	1X	New York City
WHB	500	D	Kansas City, Mo.

33		
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Taft Radio & Broadcasting Co., Inc.
KMO, Inc.
Atlantic Broadcasting Corp.
Atlantic Broadcasting Corp.
WHB Broadcasting Co.

870 kilocycles 344.6 meters

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

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Great Lakes Broadcasting Co.
Agricultural Broadcasting Co.

880 kilocycles 340.7 meters

CHCS	10	4	Hamilton, Ont.
CHML	50	4	Hamilton, Ont.
CHRC	100	3	Quebec, Que.
CJCB	50	---	Sydney, N. S.
CKCI	22.5	3	Quebec, Que.
CKCV	50	3	Quebec, Que.
CKOC	50	4	Hamilton, Ont.
CNRQ	50	3	Quebec, Que.
KFKA	500	2+	Greeley, Colo.
KLX	500	---	Oakland, Cal.
KPOF	500	2	Denver, Colo.
WCOC	500	+	Meridian, Miss.
WGBI	250	1	Scranton, Pa.
WQAN	250	1	Scranton, Pa.
WSUI	500	---	Iowa City, Iowa

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The Hamilton Spectator
Maple Leaf Radio Co., Ltd.
E. Fontaine
N. Nathanson
Le "Soleil," Ltd.
G. A. Vandry
Wentworth Radio & Auto Sply. Co., Ltd.
Canadian National Railways
State Teachers College
Tribune Publishing Co.
Pillar of Fire, Inc.
Mississippi Broadcasting Co.
Scranton Broadcasters, Inc.
Scranton Times
University of Iowa

KCYS.
880
MTRS.
340.7
DIAL
31

INDEX BY FREQUENCIES AND DIAL NUMBERS

890 kilocycles 336.9 meters

CFBO	50	---
CKCO	100	---
CMBC	100	887
KFNF	500	2+
KGJF	250	---
KUSD	500	2+
WGST	250	1X
WILL	250	2+
WJAR	250	+N
WKAQ	500	---
WMAZ	250	1+
WMMN	250	+

St. John, N. B.
Ottawa, Ont.
Havana, Cuba
Shenandoah, Iowa
Little Rock, Ark.
Vermillion, S. D.
Atlanta, Ga.
Urbana, Ill.
Providence, R. I.
San Juan, P. R.
Macon, Ga.
Fairmount, W. Va.

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C. A. Munro, Ltd.
Dr. G. M. Geldert
D. Fernandez Cruz
Henry Field Seed 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.

900 kilocycles 333.1 meters

KGBU	500	---
KHI	1000	C--
KSEI	250	C--
WJAX	1000	N--
WKY	1000	N--
WLBL	2000	D--
WMAK	750	C1
WRDA	1000	CP1

Ketchikan, Alaska
Los Angeles, Cal.
Pocatello, Idaho
Jacksonville, Fla.
Oklahoma City
Stevens Pt., Wis.
Buffalo, N. Y.
Buffalo, N. Y.

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

910 kilocycles 329.6 meters

CFQC	500	1
CJGC	500	2
CJHS	250	1
CNRL	500	2
CNRS	500	1
XFX	1000	---

Saskatoon, Sask.
London, Ont.
Saskatoon, Sask.
London, Ont.
Saskatoon, Sask.
Mexico City

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The Electric Shop, Ltd.
Free Press Printing Co., Ltd.
Radio Service, Ltd.
Canadian National Railways
Canadian National Railways
Sria, de Educacion Publica

920 kilocycles 325.9 meters

CMHD	250	---
CMX	250	916
HHK	1000	---
KFEL	500	1
KFXF	500	1
KOMO	1000	N
KPRC	1000	+N
WAAF	500	D
WBSO	250	DX
WWJ	1000	N
XEX	500	---
XFF	250	---

Caibarien, Cuba
Havana, Cuba
Port au Prince, Haiti
Denver, Colo.
Denver, Colo.
Seattle, Wash.
Houston, Texas
Chicago, Ill.
Wellesley Hills, Mass.
Detroit, Mich.
Mexico City
Chihuahua, Chih.

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Manuel A. Alvarez
Francisco Lavin
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 Estado de Chihuahua

930 kilocycles 322.4 meters

CFRC	500	3
CHNS	500	---
CKIC	50	---
CKPR	50	3
KFWI	500	1
KFWM	500	1+
KGBZ	500	2+
KMA	500	2+
WBRC	500	+C
WDBJ	250	+C
WIBG	50	D

Kingston, Ont.
Halifax, N. S.
Wolfville, N. S.
Midland, Ont.
San Francisco, Cal.
Oakland, Cal.
York, Nebr.
Shenandoah, Iowa
Birmingham, Ala.
Roanoke, Va.
Elkins Park, Pa.

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

940 kilocycles 319.0 meters

KGU	1000	---
KOIN	1000	C--
WCSS	500	XN
WDAY	1000	---
WFIW	1000	C
WHA	750	D

Honolulu, Hawaii
Portland, Ore.
Portland, Maine
Fargo, N. D.
Hopkinsville, Ky.
Madison, Wis.

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Marion A. Mulrony
KOIN, Inc.
Congress Square Hotel Co.
WDAY, Inc.
The Acme Mills, Inc.
University of Wisconsin

950 kilocycles 315.6 meters

CMCB	150	952
KFWB	1000	---
KGHL	500	---
KMBC	1000	N
WRC	500	C

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

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Jose Fernandez Suviaur
Warner Bros. Broadcasting Corp.
Northwestern Auto Supply Co., Inc.
Midland Broadcasting Co., Inc.
Radio Corp. of America

INDEX BY FREQUENCIES AND DIAL NUMBERS

960 kilocycles 312.3 meters

CFCR	500	3	Regina, Sask.
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.
XEE	101	---	Pueblo, Pue.

55		
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Sydney I. Robinson
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
Ramon Huerta G.

970 kilocycles 309.1 meters

KJR	5000	D	Seattle, Wash.
XEH	1000	N	Monterey, N. L.
WCFL	1500	N	Chicago, Ill.

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

980 kilocycles 305.9 meters

KDKA	5000	N	Pittsburgh, Pa.
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34		
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Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

WBZ	15000	1N	Springfield, Mass.
WBZA	500	1N	Boston, Mass.

23		
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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	---	Morelia, Mexico

22		
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Los Angeles Broadcasting Co.
Central Broadcasting Co.
Central Broadcasting Co.
Carlos Gutierrez M.

1010 kilocycles 296.8 meters

CFLC	50	3	Prescott, Ont.
CKCR	50	3	Waterloo, Ont.
CKSH	50	---	St. Hyacinthe, Que.
KGGF	500	2--	Picher, Okla.
KQW	500	---	San Jose, Cal.
WHN	250	1--	New York City
WIS	500	CP+	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
City of St. Hyacinthe
D. L. Connell, M. D.
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	Philadelphina, Pa.

21		
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Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.
Berachah Church, Inc.

1030 kilocycles 291.1 meters

CFCF	1650	---	Montreal, Que.
CJOR	50	---	Sea Island, B. C.
CMBW	50	1027	Marianao, Cuba
CMBZ	100	1027	Havana, Cuba
CNRY	500	---	Vancouver, B. C.

20 1/2		
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Canadian Marconi Co.
G. C. Chandler
Modesto Alvarez
Manuel y G. Salas
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.
WKEN	1000	---	Buffalo, N. Y.

20		
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KRLD Radio Corp.
Chamber of Commerce
Michigan Agricultural College
Radio Station WKEN, Inc.

1050 kilocycles 285.5 meters

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

19 1/2		
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KFKB Broadcasting Assn., Inc.
Western Broadcast Co.

KCY5.
1050
MTRS.
285.5
DIAL

192

INDEX BY FREQUENCIES AND DIAL NUMBERS

1060 kilocycles 282.8 meters

KWJJ	500	---	Portland, Ore.
WBAL	10000	1N	Baltimore, Md.
WJAG	1000	---	Norfolk, Nebr.
WTIC	5000	1N	Hartford, Conn.

19		
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KWJJ Broadcast Co., Inc.
Consolidated Gas Elec. & Pwr. Co.
Norfolk Daily News
Travelers Broadcasting Service Corp.

1070 kilocycles 280.2 meters

KJBS	100	D	San Francisco, Cal.
WAAT	300	D	Jersey City, N. J.
WCAZ	50	D	Carthage, Ill.
WDZ	100	D	Tuscola, Ill.
WEAR	1000	1ND	Cleveland, Ohio
WTAM	5000	1N	Cleveland, Ohio

18		
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Julius Brunton & Sons Co.
Bremer Broadcasting Corp.
Superior Broadcasting Service
James L. Bush
WTAM and WEAR, Inc.
WTAM and WEAR, Inc.

1080 kilocycles 277.6 meters

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

18		
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Station WBT, Inc.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

KFOA	5000	1SX	St. Louis, Mo.
KMOX	5000	1CX	St. Louis, Mo.

173		
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Voice of St. Louis, Inc.
Voice of St. Louis, Inc.

1100 kilocycles 272.6 meters

CMCE	100	1098	Havana, Cuba
KGDM	250	DX	Stockton, Cal.
WLWL	5000	1	New York City
WPG	5000	1	Atlantic City, N. J.

175		
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Julio E. Poffer
E. F. Peffer
Missionary Society of St. Paul
Municipality of Atlantic City

1110 kilocycles 270.1 meters

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

17		
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Sioux Falls Broacasting Assn., Inc.
Larus & Bros, Co., Inc.

1120 kilocycles 267.7 meters

CFJC	15	---	Kamloops, B. C.
CHGS	25	---	Summerside, P. E. I.
CJOC	50	---	Lethbridge, Alta.
KFIO	100	D	Spokane, Wash.
KFSG	500	3	Los Angeles, Cal.
KMIC	500	3	Inglewood, Cal.
KRSC	50	D	Seattle, Wash.
KTRH	500	2CP	Austin, Texas
WDBO	500	+	Orlando, Fla.
WDEL	250	+	Wilmington, Del.
WHAD	250	1	Milwaukee, Wis.
WISN	250	1C	Milwaukee, Wis.
WTAW	500	2	College Station, Texas
-----	150	CP	Rayne, La.

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N. S. Dalgleish & Sons
R. T. Holman, Ltd.
Harold R. Carson
Spokane Broadcasting Corp.
Echo Park Evag. 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

1130 kilocycles 265.3 meters

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

16		
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Radio Service Corp. of Utah
Loyal Order of Moose
International Broadcasting Corp.
Federico Zorrilla

1140 kilocycles 263.0 meters

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

155		
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Southwestern Sales Corp.
Alabama Polytechnic Institute

1150 kilocycles 260.7 meters

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

15		
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Jose Gandux
Stromberg-Carlson Tel. Mfg. Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

WOWO 10000 1C Ft. Wayne, Ind.
 WWVA 5000 1 Wheeling, W. Va.

14 1/2		
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Main Auto Supply Co.
 West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

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

14		
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Norman Baker
 Universal Broadcasting Co.

1180 kilocycles 254.1 meters

KEX 5000 2 Portland, Ore.
 KOB 20000 2 State College, N. M.
 WDGY 1000 1 Minneapolis, Minn.
 WHDI 500 1 Minneapolis, Minn.

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

1190 kilocycles 252.0 meters

WICC 500 D Bridgeport, Conn.
 WOAI 5000 XN San Antonio, Texas

13 1/2		
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Bridgeport Broadcasting Station, Inc.
 Southern Equipment Co.

1200 kilocycles 249.9 meters

KBTM 100 CPD Paragould, Ark.
 KFHA 50 --- Gunnison, Colo.
 KFJB 100 + Marshalltown, Iowa
 KFWF 100 5 St. Louis, Mo.
 KGCU 100 --- Mandan, N. D.
 KGDE 100 X+ Fergus Falls, Minn.
 KGDY 15 --- Oldham, S. D.
 KGEK 50 9 Yuma, Colo.
 KGEW 100 9 Fort Morgan, Colo.
 KGJF 100 --- Los Angeles, Cal.
 KGFK 50 --- Hallock, Minn.
 KGHI 100 --- Little Rock, Ark.
 KGY 10 + Lacey, Wash.
 KSMR 100 --- Santa Maria, Cal.
 KVOS 100 --- Bellingham, Wash.
 KWG 100 --- Stockton, Cal.
 KXO 100 --- El Centro, Cal.
 WABI 100 --- Bangor, Maine
 WABZ 100 1 New Orleans, La.
 WBBY 75 --- Charleston, S. C.
 WBBZ 100 --- Ponca City, Okla.
 WCAT 100 --- Rapid City, S. D.
 WCAX 100 2 Burlington, Vt.
 WCLO 100 --- Kenosha, Wis.
 WCOD 100 3 Harrisburg, Pa.
 WEHC 100 --- Emory, Va.
 WFBC 50 --- Knoxville, Tenn.
 WFBE 100 --- Cincinnati, Ohio
 WHBC 10 4S Canton, Ohio
 WHBY 100 --- Green Bay, Wis.
 WIBX 100 + Utica, N. Y.
 WIL 100 5+ St. Louis, Mo.
 WJBC 100 6 La Salle, Ill.
 WJBL 100 6 Decatur, Ill.
 WJBW 30 1 New Orleans, La.
 WKJC 100 3 Lancaster, Pa.
 WLAP 30 --- Louisville, Ky.
 WLBG 100 + Petersburg, Va.
 WMAY 100 5+ St. Louis, Mo.
 WNBO 100 4 Washington, Pa.
 WNBW 10 --- Carbondale, Pa.
 WNBX 10 2 Springfield, Vt.
 WORC 100 X Worcester, Mass.
 WRAF 100 8 La Porte, Ind.
 WRBL 50 --- Columbus, Ga.
 WWAE 100 8 Hammond, Ind.
 XEA 101 --- Guadalupe, Jal.
 XES 250 --- C. Lerdo Dgo.

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W. J. Beard's Temple of Music
 Western College of Colorado
 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
 Lautzenheiser & Mitchell
 Berean Bible Class
 St. Martin's College
 Santa Maria Valley R. R. Co.
 KVOS, Inc.
 Portable Wireless Tel. Co., Inc.
 E. R. Irely and F. M. Bowles
 First Universalist Church
 Coliseum Place Baptist Church
 Washington Light Infantry
 C. L. Carrell
 State School of Mines
 University of Vermont
 C. E. Whitmore
 Norman R. Hoffman
 Emory & Henry College
 First Baptist Church
 WFBE, Inc.
 St. John's Catholic Church
 St. Norbert's College
 WIBX, Inc.
 Missouri Broadcasting Corp.
 Hummer Furniture 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
 The Radio Club, Inc.
 David Parmer
 Hammond-Calumet Broadcasting Corp.
 Alberto Palos Souza
 Cervceria de Durango, S. A.

KCYS.
 1200
 MTRS.
 249.9
 DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

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

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Western Ontario "Better Radio" Club
 James S. Neill & Sons, Ltd.
 Chilliwack Broadcasting Co., Ltd.
 R. L. MacAdam
 Wallace Russ
 Donald Lewis Hathaway
 Radio Electric Co.
 Howard A. Shuman
 Hirsch Battery & Radio Co.
 J. C. & E. W. Lee
 Cui-ry's Radio Brdcastg. Service, Inc.
 Bryant Radio & Electric Co.
 Melvin A. McCollum
 James McClatchy Co.
 Pasadena Presbyterian Church
 William E. Antony
 John H. Stenger, Jr.
 Grace Covenant Presbyterian Church
 H. L. Dewing & Chas. Messer
 Westchester Broadcasting Corp.
 Clinton R. White
 Dutee W. Flint
 Roy W. Waller
 First Trust & Savings Bank
 Emil Denemark, Inc.
 Harry H. Carman
 Great Southern Land Co., Inc.
 Beardsley Specialty Co.
 Citizens Bank
 Capital Times
 Robert S. Johnson
 Bucknell University
 Gadsden Broadcasting Co., Inc.
 Mansfield Broadcasting Assn.
 Lutheran Assn. of Ithaca
 The Lincoln Studios, Inc.
 General Broadcasting Co.
 Havens & Martin, Inc.
 A. E. Newton
 Francis M. Kadow
 Shartenburg & Robinson Co.
 J. Pat Scully
 A. J. Kirby Music Co.
 World Battery Co., Inc.
 638 Tire & Vulcanizing Co.
 Williams Hardware Co.

1220 kilocycles 245.8 meters

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

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

1230 kilocycles 243.8 meters

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

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

1240 kilocycles 241.8 meters

KSAT	1000	1	Ft. Worth, Texas
WACO	1000	1	Waco, Texas
WGHP	1000	C	Detroit, Mich.

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Texas Air Transport Brdcast.
 Central Texas Broadcasting Co., Inc.
 American 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	500	2X
WLB	500	2X
WODA	1000	1
WRHM	1000	2C
---	500	CP

Northfield, Minn.
Long Beach, Cal.
Boise, Idaho
Newark, N. J.
Northfield, Minn.
New Orleans, La.
Newark, N. J.
Minneapolis, Minn.
Minneapolis, 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
WLWB	500	C+
WTOC	500	---

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

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Mona Motor Oil Co.
Valley Radio-Electric Corp.
Robert M. Riculfi
Chamber of Commerce
Radio-Wire Program Corp.
Savannah Broadcasting Co.

1270 kilocycles 236.1 meters

KFUM	1000	---
KGCA	50	2D
KOL	1000	3
KTW	1000	3
KWLC	100	2D
WASH	500	1
WEAI	500	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

KFBB	1000	+
WCAM	500	1
WCAP	500	1
WDOD	1000	+C
WOAX	500	1
WRR	500	---

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

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Buttrety Broadcast, Inc.
City of Camden
Radio Industries Broadcast Co.
Chattanooga Radio Co., Inc.
Franklyn J. Wolff
City of Dallas

1290 kilocycles 232.4 meters

KDYL	1000	C
KFUL	500	1
KLCN	50	D
KTSA	1000	1+C
WEBC	1000	X+N
WJAS	1000	C
WNBZ	500	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. L. Lintzenich
Lone Star Broadcast Co.
Head of Lake Broadcasting Co.
Pittsburgh Radio Supply House
Smith & Mace

1300 kilocycles 230.6 meters

KFH	1000	2C
KFJR	500	3
KGEF	1000	4
KTBI	750	4
KTBR	500	3
WBRR	1000	1
WEVD	500	1
WHAP	1000	1
WHAZ	500	1
WIOD	1000	N
WQO	1000	2

Wichita, Kansas
Portland, Ore.
Los Angeles, Cal.
Los Angeles, Cal.
Portland, Ore.
Rossville, 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 Co.
Unity School of Christianity

1310 kilocycles 228.9 meters

KFBK	100	---
KFGQ	100	7--
KFIU	10	---
KFIJ	100	7--
KFPL	100	---
KFPM	15	---

Sacramento, Cal.
Boone, Iowa
Juneau, Alaska
Ft. Dodge, Iowa
Dublin, Texas
Greenville, Texas

10		
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Jas. McClatchy Co.
Boone Biblical College
Alaska Electric Light & Power Co.
C. S. Tunwall
C. C. Baxter
The New Furniture Co.

KCYS.
1310
MTRS.
228.9
DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

KFUP	100	8	Denver, Colo.	Fitzsimmons General Hospital
KFXJ	50	8	Edgewater, Colo.	R. G. Howell
KFXR	100	X +	Oklahoma City	Exchange Ave. Baptist Church
KGBX	100	---	St. Joseph, Mo.	Foster-Hall Tire Co.
KGCX	100	+	Wolf Point, Mont.	First State Bank of Vida
KGEZ	100	X	Kalispell, Mont.	Chamber of Commerce
KGFV	100	---	Ravenna, Neb.	Otto F. Sothman and Roy H. McConnel
KGHG	50	CP	McGehee, Ark.	Chas. W. McCollum
KGMC	100	CP	Jerome, Ariz.	Charles C. Robinson
KIT	50	---	Yakima, Wash.	Carl E. Haymond
KMED	50	---	Medford, Ore.	Mrs. W. J. Virgin
KRMD	50	9	Shreveport, La.	Robert M. Dean
KTSL	100	9	Shreveport, La.	Houseman Sheet Metal Works, Inc.
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.
WCSC	100	CP +	Charleston, S. C.	Fred Jordon & Lewis Burk
WDAH	100	2	El Paso, Texas	Trinity Methodist Church
WEBR	100	+	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WFBG	100	3	Altoona, Pa.	Wm. F. Gable Co.
WFDL	100	---	Flint, Mich.	Frank D. Fallain
WFKD	50	4	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
WGAL	15	5X	Lancaster, Pa.	WGAL, Inc.
WGH	100	---	Newport News, Va.	Virginia Broadcasting Co., Inc.
WHAT	100	4X	Philadelphia, Pa.	Albert A. Walker
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.
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	50	---	Knoxville, Tenn.	Lonsdale Baptist Church
WOBT	100	+	Union City, Tenn.	Tittsworth's Radio & Music Shop
WOL	100	---	Washington, D. C.	American Broadcasting Co.
WRWA	100	5	Reading, Pa.	Avenue Radio & Electric Shop
WRBI	20	---	Tifton, Ga.	Kent's Furniture and Music Store
WRK	100	---	Hamilton, Ohio	Hamilton Radio Service
WSAJ	100	---	Grove City, Pa.	Grove City College
WSJS	100	CP	Winston-Salem, N. C.	Winston-Salem Journal Co.

1320 kilocycles 227.1 meters

KGHB	500	---	Honolulu, Hawaii	Honolulu Broadcasting Co., Ltd.
KGHF	250	X +	Pueblo, Colo.	C. P. Ritchie & J. E. Finch
KGIO	250	1	Twin Falls, Idaho	Radio Broadcasting Corp.
KGMB	506	---	Honolulu, Hawaii	Honolulu Broadcasting Co., Ltd.
KID	500	1 +	Idaho Falls, Idaho	Jack W. Duckworth, Jr.
WADC	1000	C	Akron, Ohio	Allen T. Simmons
WSMB	500	N	New Orleans, La.	Saenger Theatre & Maison Blanche Co.

1330 kilocycles 225.4 meters

KGB	250	---	San Diego, Cal.	Pickwick Broadcasting Corp.
KSCJ	1000	1C + X	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.

1340 kilocycles 223.7 meters

KFPW	50	D	Siloam Springs, Ark.	Rev. Lannie W. Stewart
KFPY	1000	CX	Spokane, Wash.	Symons Broadcasting Co.
WCOA	500	---	Pensacola, Fla.	City of Pensacola
WSPD	500	C +	Toledo, Ohio	Toledo Broadcasting Co.

1350 kilocycles 222.1 meters

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

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KGER 1000 4X Long Beach, Cal.
 KGIR 500 --- Butte, Mont.
 KPSN 1000 4 Pasadena, Cal.
 WFBL 1000 C Syracuse, N. Y.
 WGES 500 1+ Chicago, Ill.
 WJKS 500 1+ Gary, Ind.
 WQBC 300 --- Vicksburg, Miss.

C. Merwin Dobyms
 KGIR, Inc.
 Pasadena Star-News
 The Onondaga Co., Inc.
 Oak Leaves Broadcasting Station, Inc.
 Johnson-Kennedy Radio Corp.
 Delta Broadcasting Co.

1370 kilocycles 218.7 meters

8		
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KCRC 100 2+ Enid, Okla.
 KFBL 50 3 Everett, Wash.
 KFJI 100 --- Astoria, Ore.
 KFJM 100 --- Grand Forks, N. D.
 KFJZ 100 --- Ft. Worth, Texas
 KFLX 100 --- Galveston, Texas
 KGAR 100 X+ Tucson, Ariz.
 KGGI 100 5 San Antonio, Texas
 KGDA 50 --- Dell Rapids, S. D.
 KGFG 100 2 Oklahoma City
 KGFL 50 --- Raton, N. M.
 KGKL 100 --- San Angelo, Texas
 KLO 100 + Ogden, Utah
 KOH 100 --- Reno, Nevada
 KONO 100 5 San Antonio, Texas
 KOOS 100 --- Marshfield, Ore.
 KRE 100 6 Berkeley, Cal.
 KVL 100 3 Seattle, Wash.
 KWKC 100 --- Kansas City, Mo.
 KZM 100 6 Haywood, Cal.
 WBTM 100 CP7 Danville, Va.
 WCBM 100 + Baltimore, Md.
 WELK 100 --- Philadelphia, Pa.
 WFDV 100 --- Rome, Ga.
 WGL 100 --- Fort Wayne, Ind.
 WHBD 100 --- Mount Orab, Ohio
 WHBQ 100 --- Memphis, Tenn.
 WHDF 100 +X Calumet, Mich.
 WIBM 100 1 Jackson, Mich.
 WJBK 50 1 Ypsilanti, Mich.
 WLEY 100 + Lexington, Mass.
 WLVA 100 CP7 Lynchburg, Va.
 WMBR 100 --- Tampa, Fla.
 WPOE 100 --- Patchogue, N. Y.
 WQDM 5 CPD St. Albans, Vt.
 WRAK 50 --- Erie, Pa.
 WRBJ 10 --- Hattiesburg, Miss.
 WRBT 100 --- Wilmington, N. C.
 WRJN 100 --- Racine, Wis.
 WSVS 50 --- Buffalo, N. Y.

Champlin Refining Co.
 Leese Bros.
 KFJI Broadcasters, Inc.
 University of North Dakota
 H. C. Meacham
 George Roy Clough
 Tucson Motor Service Co.
 Radio Sam Broadcast Co., Inc.
 Home Auto Co.
 Faith Tabernacle Assn.
 W. E. Whitmore
 KGKL, Inc., Opr. by Ragsdale Auto
 Peery Building Co.
 Jay Peters
 Eugene J. Roth
 H. H. Hanseth
 First Congregational Church
 KVL Inc.
 Wilson Duncan Broadcasting Co.
 Leon P. Tenney
 Clarke Electric Co.
 Baltimore Broadcasting Corp.
 Howard R. Miller
 Dolies Goings
 Fred C. Zieg
 F. P. Moler
 Broadcasting Station WHBQ, Inc.
 Upper Michigan Broadcasting Co.
 C. L. Carrell
 James F. Hopkins
 Lexington Air Stations
 Ed. A. & Philip P. Allen
 F. J. Reynolds
 Nassau Broadcasting Corp.
 A. J. St. Antoine
 G. R. Cummins
 Woodruff Furniture Co., Inc.
 Wilmington Radio Association
 Racine Broadcasting Corp.
 Seneca Vocational School

1380 kilocycles 217.3 meters

737		
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KQV 500 2 Pittsburgh, Pa.
 KSO 500 1 Clarinda, Iowa
 WKBH 1000 1 La Crosse, Wis.
 WSMK 200 2 Dayton, Ohio

Doubleday-Hill Electric Co.
 Berry Seed Co.
 Callaway Music Co.
 Stanley M. Krohn, Jr.

1390 kilocycles 215.7 meters

75		
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KLRA 1000 1C Little Rock, Ark.
 KOY 500 --- Phoenix, Ariz.
 KUOA 1000 1 Fayetteville, Ark.
 WHK 1000 CX Cleveland, Ohio

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

KCYS.
 1390
 MTRS.
 215.7
 DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

1400 kilocycles 214.2 meters

KOCW	250	+
WBAA	500	1
WBBC	500	2
WCGU	500	2
WCMA	500	1
WKBF	500	1
WLTH	500	2
WSGH	500	2

Chickasha, Okla.
Lafayette, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.
Culver, Ind.
Indianapolis, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.

College for Women
Purdue University
Brooklyn Broadcasting Corp.
U. S. Broadcasting Corp.
Culver Military Academy
Indianapolis Broadcasting, Inc.
The Voice of Brooklyn, Inc.
Amateur Radio Specialty Co.

1410 kilocycles 212.6 meters

KFLV	500	4
KGRS	1000	1
WBCM	500	C
WDAG	250	1
WHBL	500	4
WLEX	500	2
WMAF	500	2
WODX	500	3
WSFA	500	3CP
WSSH	500	2

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

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

1420 kilocycles 211.1 meters

KFIF	100	4
KFIZ	100	---
KFQU	100	5
KFQW	100	---
KFXD	50	---
KFXV	100	---
KFYO	100	+
KGFF	100	---
KGGC	50	5
KGIW	100	---
KGIX	100	CP
KGXK	100	---
KICK	100	---
KLPM	100	---
KORE	100	---
KTAP	100	---
KTUE	100	X
KXL	100	4
WEDH	30	---
WEHS	100	2
WFDW	100	CP
WHDL	10	---
WHFC	100	2
WHIS	100	---
WIAS	100	---
WIBR	50	---
WILM	100	---
WJBO	100	---
WKBI	50	2
WKBP	50	---
WLBK	100	---
WMBC	100	X+
WMBH	100	+
WMRJ	10	---
WOBZ	60	1
WSPA	100	+
WTBO	50	X

Portland, Ore.
Fond du Lac, Wis.
Holy City, Cal.
Seattle, Wash.
Jerome, 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
Houston, Texas
Portland, Ore.
Erie, Pa.
Evanston, Ill.
Talladega, Ala.
Tupper Lake, N. Y.
Cicero, Ill.
Bluefield, W. Va.
Ottumwa, Iowa
Steubenville, Ohio
Wilmington, Del.
New Orleans, La.
Chicago, Ill.
Battle Creek, Mich.
Kansas City, Kas.
Detroit, Mich.
Joplin, Mo.
Jamaica, N. Y.
Weirton, W. Va.
Spartanburg, S. C.
Cumberland, Md.

Benson Polytechnic Institute
Reporter Printing Co.
W. E. Riker
KFQW, Inc.
Service Radio Co.
Mary M. Costigan
T. E. Kirksey
KGFF Broadcasting Co.
Golden Gate Broadcasting Co.
Leonard E. Wilson
Las Vegas, Nevada, Radio Corp.
C. E. Twiss and F. H. McCann
Red Oak Radio Corp.
E. C. Reineke
Eugene Broadcasting Station
Alamo Broadcasting Co.
Uhalt Electric
KXL Broadcasters, Inc.
Erie Dispatch-Herald
Victor C. Carlson
Raymond G. Hammett
George Franklin Bissell
Triangle Broadcasters
Daily Telegraph
Poling Electric Co.
George W. Robinson
Delaware Broadcasting Co., Inc.
Valdemar Jensen
Fred L. Schoenwolf
Enquirer-News Co.
WLBK Broadcasting Co.
Michigan Broadcasting Co., Inc.
Edwin Dudley Aber
Peter J. Prinz
J. H. Thomson
Voice of South Carolina
Associated Broadcasting Corp.

1430 kilocycles 209.7 meters

KECA	1000	N
KGNF	500	CPD
WBKA	500	IX+
WBRL	500	---
WCAH	500	1C
WGBC	500	2
WHP	500	1C
WNBR	500	2

Los Angeles, Calif.
North Platte, Neb.
Harrisburg, Pa.
Tilton, N. H.
Columbus, Ohio
Memphis, Tenn.
Harrisburg, Pa.
Memphis, Tenn.

Pacific Development Radio Co.
Herbert Logan Spencer
Penna. State Police
Booth Radio Laboratories
Commercial Radio Service Co.
First Baptist Church
Pennsylvania Broadcasting Co.
John Ulrich

1440 kilocycles 208.2 meters

KLS	250	D
WABO	500	2
WCBA	250	1
WHCC	500	2C

Oakland, Cal.
Rochester, N. Y.
Allentown, Pa.
Rochester, N. Y.

Warner Bros.
Hickson Electric & Radio Corp.
B. B. Musselman
Hickson Electric & Radio Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

WMBD 500 3+
WNRC 500 ---
WKOK 500 2--
WSAN 250 1
WTAD 500 3

Peoria Heights, Ill.
Greensboro, N. C.
Poughkeepsie, N. Y.
Allentown, Pa.
Quincy, Ill.

Peoria Heights Radio Laboratory
Wayne M. Nelson
Hudson Valley Broadcasting Co.
Allentown Call Publishing Co., Inc.
Ills. Stock Medicine Broadcasting Co

1450 kilocycles 206.8 meters

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KTBS 1000 ---
WBMS 250 1
WCSO 500 2
WFJC 500 2N
WIBS 250 1
~~**WKBO**~~ 250 1
WNJ 250 1
WSAR 250 ---
WIFI 500 ---

Shreveport, La.
Hackensack, N. J.
Springfield, Ohio
Akron, Ohio
Jersey City, N. J.
Jersey City, N. J.
Newark, N. J.
Fall River, Mass.
Toccoa, Ga.

Elliott & Steere
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

6		
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~~**KSTP**~~ 10000 N
~~**WJSV**~~ 10000 ---

St. Paul, Minn.
Mt. Vernon Hills, Va.

National Battery Broadcasting Co.
Independent Publishing Co.

1470 kilocycles 204.0 meters

534		
-----	--	--

~~**KGA**~~ 5000 ---
~~**WLAC**~~ 5000 1C
~~**WTNT**~~ 5000 ---

Spokane, Wash.
Nashville, Tenn.
Nashville, Tenn.

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

1480 kilocycles 202.6 meters

532		
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~~**KFJF**~~ 5000 C
~~**WKBW**~~ 5000 C

Oklahoma City
Buffalo, N. Y.

National Radio Mfg. Co.
Churchill Evangelistic Assn., Inc.

1490 kilocycles 201.2 meters

534		
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KPWF 5000 CP
WCHI 5000 1
~~**WCKY**~~ 5000 1N
WJAZ 5000 1
WORD 5000 1

Westminster, Cal.
Chicago, Ill.
Covington, Ky.
Chicago, Ill.
Chicago, Ill.

Pacific Western Broadcasting Fed.
Radiophone Broadcasting Corp.
L. B. Wilson, Inc.
Zenith Radio Corp.
People's Pulpit Association

1500 kilocycles 199.9 meters

5		
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KDB 100 ---
KGFI 100 ---
KGIZ 50 CP
KGKB 100 ---
KGKY 100 ---
KGMD 100 CP
KPCB 100 4
KPJM 100 ---
KPQ 50 4
KREG 100 ---
KTLC 100 X
KUJ 100 3
KUT 100 ---
KVEP 15 3
WCLB 100 1
WKBV 100 +
WKBZ 50 ---
WLBX 100 1
WLQE 100 2+
WMBA 100 ---
WMBJ 100 ---
WMBQ 100 1
WMES 50 2
WMFC 100 ---
WNBF 100 X
WOP1 100 ---
~~**WPEN**~~ 100 +
WWRL 100 1

Santa Barbara, Cal.
Corpus Christi, Texas
Grant City, Mo.
Brownwood, Texas
Scottsbluff, Nebr.
Roswell, N. M.
Seattle, Wash.
Prescott, Ariz.
Wenatchee, Wash.
Santa Ana, Calif.
Houston, Texas
Longview, Wash.
Austin, Texas
Portland, Ore.
Long Beach, N. Y.
Cornersville, Ind.
Lucington, Mich.
Long Island City, N. Y.
Boston, Mass.
Newport, R. I.
Wilkinsburg, Pa.
Brooklyn, N. Y.
Boston, Mass.
Lapeer, Mich.
Binghamton, N. Y.
Bristol, Tenn.
Philadelphia, Pa.
Woodside, N. Y.

Santa Barbara Broadcasting Co.
Eagle Broadcasting Co., Inc.
Grant City Park Corp.
Eagle Publishing Co.
Hilliard Co., Inc.
Dispatch Publishing Co.
Wescoast Broadcasting Co.
Miller & Klunn
Wescoast Broadcasting Co.
Pacific Western Broadcasting
Houston Broadcasting Co.
Columbia Broadcasting Co., Inc.
Rice Hotel
Schaeffer Radio Co.
Arthur Faske
Knox Battery & Electric Co.
K. L. Ashbacher
John N. Brahy
Boston Broadcasting Co.
LeRoy Joseph Beebe
Rev. J. W. Sproul
Paul J. Gollhofer
Boston Broadcasting Co.
First M. E. Church
Hewitt-Wood Radio Co., Inc.
Radiophone Brdcastg. Station, Inc.
Wm. Penn Broadcasting Co.
Long Island Broadcasting Corp.

KCYS.
1500
MTRS.
199.9
DIAL

INDEX BY LOCATIONS WITH MAP KEY

ALABAMA			
Birmingham K-19-a	5000	WAPI	1140
	500	WBRC	930
	100	WKBC	1310
Gadsden K-20-a	50	WJBY	1210
Mobile L-19	500	WODX	1410
Montgomery K-20	500	WSFA	1410
Talladega K-20	100	WFDW	1420
ALASKA			
Anchorage	100	KFQD	1230
Juneau	10	KFIU	1310
Ketchikan	500	KGBU	900
ARIZONA			
Flagstaff J-7	100	KFX Y	1420
Jerome J-7	100	KGMC	1310
Phoenix K-7	500	KOY	1390
	500	KTAR	620
Prescott J-6	100	KPJM	1500
Tucson L-7	100	KGAR	1370
	500	KVOA	1260
ARKANSAS			
Blytheville I-18	50	KLCN	1290
Fayetteville I-16	1000	KUOA	1390
Hot Springs J-16	1000	KTHS	1040
Little Rock J-17	100	KGHI	1200
	250	KGJF	890
	1000	KLRA	1390
	500		1250
McGehee K-17	50	KGHG	1310
Paragould I-17	100	KBTM	1200
Siloam Springs I-16	50	KFPW	1340
CALIFORNIA			
Berkeley H-1-a	100	KRE	1370
Burbank J-4	500	KELW	780
Culver City K-3	250	KFVD	1000
El Centro K-5	100	KXO	1200
Fresno I-3	100	KMJ	1210
Hayward H-2	100	KZM	1370
Hollywood K-3	1000	KFWB	950
	500	KMTR	570
	5000	KNX	1050
Holy City I-2	100	KFOU	1420
Inglewood K-4	500	KMIC	1120
Long Beach K-4-a	1000	KFOX	1250
	1000	KGER	1360
Los Angeles K-3-b	1000	KECA	1430
	500	KEJK	710
	5000	KFI	640
	250	KFQZ	850
	500	KFSG	1120
	1000	KGEF	1300
	100	KG FJ	1200
	1000	KHJ	900
	500	KTM	780
	750	KTBI	1300
Oakland H-1-b	500	KFWM	930
	7500	KGO	790
	250	KLS	1440
	500	KLX	880
	1000	KTAB	560
Pasadena J-4	50	KPPC	1210
	1000	KPSN	1360
Sacramento H-2-a	100	KFBK	1310
San Bernardino J-3	100	KFXM	1210
San Diego K-4-b	500	KFSD	600
	250	KGB	1330
San Francisco H-1-c	1000	KFRC	610
	500	KFWI	930
	50	KGGC	1420
	100	KJBS	1070
	5000	KPO	680
	1000	KYA	1230
San Jose I-2	500	KQW	1010
Santa Ana K-4	100	KREG	1500
Santa Barbara J-3	100	KDB	1500
Santa Maria J-2-b	100	KSMR	1200
Stockton H-2-b	250	KGDM	1100
	100	KWG	1200
Westminster	5000	KPWF	1490
CANAL ZONE			
Balboa	750	NBA	850
COLORADO			
Colo. Springs H-10	1000	KFUM	1270
Denver G-10-b	500	KFBL	920
	100	KFPF	1310
	500	KFXF	920
	1000	KLZ	560
	12500	KOA	830
	500	KPOF	880
Edgewater G-10	50	KFXJ	1310
Fort Morgan G-11	100	KGEV	1200
Greeley F-10	500	KFKA	880
Gunnison H-9	50	KFHA	1200
Pueblo H-11	250	KGHF	1320
Trinidad H-10	100	KGIW	1420
Yuma G-11	50	KGEK	1200
CONNECTICUT			
Bridgeport F-26	500	WICC	1190
Hartford E-26-d	50000	WTIC	1060
New Haven F-26-b	500	WDRG	1330
Storrs	250	WCAC	600
DELAWARE			
Wilmington G-25	250	WDEL	1120
	100	WILM	1420
DISTRICT OF COLUMBIA			
Washington G-24-c	250	WMAL	630
	500	WRC	950
	100	WOL	1310
FLORIDA			
Clearwater N-21	1000	WFLA	620
Gainesville M-21	5000	WRUF	830
Jacksonville M-22	1000	WJAX	900
Miami O-23	1000	WQAM	560
Miami Beach O-23	1000	WIOD	1300
Orlando N-22	500	WDBO	1120
Pensacola L-19	500	WCOA	1340
St. Petersburg N-21	1000	WSUN	620
Tampa N-22-b	1000	WDAE	1220
	100	WMBR	1370
GEORGIA			
Atlanta K-20-a	250	WGST	890
	5000	WSB	740
Columbus K-20	50	WRBL	1200
Macon K-21	250	WMAZ	890
Rome J-20	100	WFDV	1370
Savannah K-22	500	WTOG	1260
Tifton L-21	20	WRBI	1310
Toccoa J-21	500	WTFI	1450
HAWAII			
Honolulu	500	KGHV	1320
	500	KGMB	1320
	500	KGU	940
IDAHO			
Boise D-4	1000	KIDO	1250
Idaho Falls D-7	500	KID	1320
Jerome E-5	50	KFXD	1420
Pocatello E-7	250	KSEI	900
Sand Point A-4	100	KGKX	1420
Twin Falls E-5	250	KGIQ	1320

INDEX BY LOCATIONS WITH MAP KEY

ILLINOIS

Carthage F-17-e	50	WCAZ	1070
Chicago E-19-g	10000	KFKX	1020
	10000	KYW	1020
	500	WAAF	920
	25000	WBBM	770
	1000	WCFL	970
	5000	WCHI	1490
	100	WCRW	1210
	100	WEDC	1210
	50000	WENR	870
	500	WGES	1360
	25000	WGN	720
	1000	WIBO	560
	5000	WJAZ	1490
	25000	WJBT	770
	50	WKBI	1420
	25000	WLIB	720
	5000	WLS	870
	5000	WMAQ	670
	5000	WMBI	1080
	5000	WORD	1490
	500	WPCC	560
	100	WSBC	1210
Cicero E-19	100	WHFC	1420
Decatur G-18	100	WJBL	1200
Evanson E-19	100	WEHS	1420
Galesburg F-18-a	100	WKBS	1310
Harrisburg H-18-b	100	WBEQ	1210
Joliet E-19-f	100	WCLS	1310
	100	WKBB	1310
	100	WJBC	1200
La Salle F-18-d	100	WJJD	1130
Mooseheart E-18-e	20000	WMBD	1440
Peoria Heights G-18	500	WTAD	1440
Quincy G-17	500	WTFD	1440
Rockford E-18-c	500	KFLV	1410
Rock Island F-17-c	100	WHBF	1210
Springfield G-18	100	WCBS	1210
Streator F-18-c	50	WTAX	1210
Tuscola G-19-b	100	WDZ	1070
Urbana G-19-a	250	WILL	890
Zion E-19-c	5000	WCBD	1080

INDIANA

Anderson G-20-a	100	WHBU	1210
Connorsville G-20	100	WKBV	1500
Culver F-19-d	500	WCMA	1400
Evansville H-19	500	WGBF	630
Fort Wayne F-20-b	100	WGL	1370
	10000	WOWO	1160
Gary F-19	500	WJKS	1360
Hammond F-19	100	WWAE	1200
Indianapolis G-19-c	1000	WFBM	1230
	500	WKBF	1400
Lafayette G-19	500	WBAA	1400
La Porte F-19-c	100	WRAF	1200
Marion F-20	50	WJAK	1310
Muncie G-20	50	WLBC	1310
South Bend F-20-a	500	WSBT	1230
Terre Haute G-19	100	WBOW	1310
Valparaiso F-19-b	500	WRBC	1240

IOWA

Ames E-16-c	5000	WOI	640
Boone E-16	100	KFGQ	1310
Cedar Rapids E-17-a	100	KWCR	1310
Clarinda E-15-c	500	KSO	1380
Council Bluffs F-15-b	1000	KOIL	1260
Decorah F-17-a	5000	WOC	1000
Davenport D-17	50	KGCA	1270
	100	KWLC	1270
Des Moines F-16-a	5000	WHO	1000
Fort Dodge E-16-a	100	KFJY	1310
Iowa City E-17-b	500	WSUI	880
Marshalltown E-16-d	100	KFJB	1200
Muscatine F-17-b	5000	KINT	1170

Ottumwa F-17	100	WIAS	1420
Red Oak F-15	100	KICK	1420
Shenandoah F-15-c	500	KFPF	890
	500	KMA	930
Sioux City E-15	1000	KSCJ	1330
Waterloo F-17	500	WMT	600

KANSAS

Dodge City H-13	100	KGNO	1210
Gueda Springs	250		680
Kansas City G-15	100	WLBK	1420
Lawrence G-15-a	1000	KFKU	1220
	1000	WREN	1220
Manhattan G-14-a	500	KSAC	580
Milford G-14	5000	KFKB	1050
Topeka G-14	500	WIBW	580
Wichita H-14-a	1000	KFH	1300

KENTUCKY

Covington G-20	5000	WCKY	1490
Hopkinsville I-19	1000	WFIW	940
Louisville H-20	10000	WHAS	820
	30	WLAP	1200

LOUISIANA

New Orleans M-17	100	WABZ	1200
	1000	WDSU	1250
	100	WJBO	1420
	30	WJWB	1200
	500	WSMB	1320
	5000	WWL	850
Rayne M-17	150		1120
Shreveport K-16	50	KRMD	1310
	1000	KTBS	1450
	100	KTSL	1310
	100	KWEA	1210
	10000	KWKH	850

MAINE

Bangor C-28-b	100	WABI	1200
	500	WLBZ	620
Portland D-28-b	500	WCSH	940

MARYLAND

Baltimore G-24-a	10000	WBAL	1060
	250	WCAO	600
	100	WCBM	1370
	250	WFBR	1270
Cumberland G-23	50	WTBO	1420

MASSACHUSETTS

Boston E-27-c	1000	WBIS	1230
	500	WBZA	990
	1000	WEEL	590
	100	WLOE	1500
	50	WMES	1500
	1000	WNAO	1230
	500	WSSH	1410
Fall River E-27	250	WSAR	1450
Gloucester E-27	1000	WEPS	830
Lexington E-27	500	WLBK	1410
	100	WLEY	1370
New Bedford E-27	100	WNBH	1310
S. Dartmouth E-27	500	WNAF	1410
Springfield E-26-b	15000	WBZ	990
Wellesley Hills E-27	250	WBSO	920
Worcester E-27-b	100	WORC	1200
	250	WTAG	580

MICHIGAN

Battle Creek E-20	50	WKBP	1420
Bay City D-21	500	WBCM	1410
Berrien Spgs. E-19	1000	WEMC	590
Calumet B-18	100	WHDF	1370

INDEX BY LOCATIONS WITH MAP KEY

Detroit E-21-g	1000	WGHP	1240
	5000	WJR	750
	100	WMBC	1420
	1000	WWJ	920
East Lansing E-20-b	1000	WKAR	1040
Flint E-21-a	100	WDFD	1310
Grand Rapids E-20-a	500	WASH	1270
	500	WOOD	1270
Jackson E-20	100	WBM	1370
Lapeer E-21	100	WMPC	1500
Ludington D-19	50	WKBZ	1500
Royal Oak E-21-e	50	WAGM	1310
Ypsilanti E-21-f	50	WJBK	1370

MINNESOTA

Fergus Falls B-15	100	KGDE	1200
Hallock A-14	50	KGFK	1200
Minneapolis C-16-b	7500	WCCO	810
	1000	WDGY	1180
	500	WGMS	1250
	500	WHDI	1180
	500	WLB	1250
	1000	WRHM	1250
Northfield D-16	1000	KFMX	1250
	1000	WCAL	1250
St. Paul C-16-c	10000	KSTP	1460

MISSISSIPPI

Greenville K-17	100	WRBQ	1210
Gulfport M-18	100	WGCN	1210
Hattiesburg L-18	10	WRBJ	1370
Jackson L-18	500	WDX	1270
Meridian L-18	500	WCOC	880
Vicksburg K-17	300	WQBC	1360

MISSOURI

Cp. Girardeau H-18-c	100	KFVS	1210
Columbia G-16-b	500	KFRU	630
Grant City F-15	50	KGIZ	1500
Jefferson City H-16-a	500	WOS	630
Joplin H-16	100	WMBH	1420
Kansas City G-15-b	1000	KMBC	950
	100	KWKX	1370
	1000	WDAF	610
	500	WHB	860
	1000	WOQ	1300
St. Joseph G-15	2500	KFEQ	680
	100	KGBX	1310
St. Louis H-18-a	5000	KFOA	1090
	500	KFUO	550
	100	KFWF	1200
	5000	KMOX	1090
	500	KSD	550
	1000	KWK	1350
	1000	WEW	760
	100	WIL	1200
	100	WMAY	1200

MONTANA

Billings C-8	500	KGHL	950
Butte C-7	500	KGIR	1360
Great Falls A-8	1000	KFBB	1280
Kalispell A-5	100	KGEZ	1310
Wolf Point A-10	100	KGCX	1310

NEBRASKA

Clay Center G-14	1000	KMMJ	740
Lincoln F-14-b	5000	KFAB	770
	100	KFOR	1210
	500	WCAJ	590
Norfolk E-14-c	1000	WJAG	1060
North Platte F-13	500	KGNF	1430
Omaha F-15-a	500	WAAW	660
	1000	WOW	590
Ravenna F-13	100	KGFW	1310
Scottsbluff F-11	100	KGKY	1500
York F-13	500	KGBZ	930

NEVADA

Las Vegas I-5	100	KGIX	1420
Reno G-3	100	KOH	1370

NEW HAMPSHIRE

Laconia D-27	100	WKAV	1310
Tilton D-27	500	WBRL	1430

NEW JERSEY

Asbury Park G-26	500	WCAP	1280
Atlantic City G-25	5000	WPG	1100
Camden F-25-f	500	WCAM	1280
Hackensack F-26	250	WBMS	1450
Jersey City F-26-d	300	WAAT	1070
	250	WIBS	1450
	250	WKBO	1450
Newark F-25-h	1000	WAAM	1250
	250	WGCP	1250
	250	WNJ	1450
	5000	WOR	710
Paterson F-26-c	1000	WODA	1250
Red Bank G-26	100	WJBI	1210
Trenton F-25	500	WOAX	1280

NEW MEXICO

Albuquerque J-9	250	KGGM	1230
Raton I-11	50	KGFL	1370
Roswell K-10	100	KGMD	1500
State College K-9	20000	KOB	1180

NEW YORK

Auburn E-24	100	WMBO	1310
Binghamton E-25	50	WNBF	1500
Brooklyn F-26-f	500	WBBC	1400
	500	WCGU	1400
	500	WLTH	1400
	100	WMBQ	1500
	500	WSGH	1400
Buffalo E-23-a	100	WEBR	1310
	1000	WGR	550
	5000	WKBW	1480
	1000	WKEN	1040
	750	WMAK	900
	1000	WRDA	900
	50	WSVS	1370
Canton D-25	500	WCAD	1220
Cazenovia E-25-b	250	WMAC	570
Freeport F-26-1	500	WCGU	1400
Ithaca E-24-d	500	WEAI	1270
	50	WLCI	1210
Jamaica F-26-f	10	WMRJ	1420
Jamestown E-23-b	25	WOCL	1210
Long Island City F-26	100	WLBX	1500
Long Beach F-26	100	WCLB	1500

INDEX BY LOCATIONS WITH MAP KEY

New York City F-26	5000	WABC	860
	250	WBNY	1350
	5000	WBOQ	860
	250	WCDA	1350
	50000	WEAF	660
	500	WEVD	1300
	600	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 F-26	500	WOKO	1440
Poughkeepsie F-26-a	500	WABO	1440
Rochester E-24-b	5000	WHAM	1150
	500	WHEC	1440
Rossville F-26	1000	WBBR	1300
Saranac Lake D-26	50	WNBZ	1290
Schenectady E-25-c	50000	WGY	790
Syracuse E-24-c	1000	WFBL	1360
	250	WSYR	570
	500	WHAZ	1300
Troy E-21-a	500	WHAZ	1300
Tupper Lake D-25	10	WHDL	1420
Utica E-25-a	100	WIBX	1200
Woodside F-26	100	WVRL	1500
Yonkers E-26	100	WCOH	1210

NORTH CAROLINA

Asheville J-21	1000	WWNC	570
Charlotte J-22	5000	WBT	1080
Gastonia J-22	100	WRBU	1210
Greensboro L-22	500	WNRC	1440
Raleigh I-23	1000	WPTF	680
Wilmington J-24	100	WRBT	1370
Winston-Salem I-22	100	WSJS	1310

NORTH DAKOTA

Bismarck B-12	500	KFYR	550
Devils Lake A-13	100	KDLR	1210
Fargo B-14	1000	WDAY	940
Grand Forks A-14	100	KFJM	1370
Mandan B-12	100	KGCU	1200
Minot A-12	100	KLPM	1420

OHIO

Akron F-22-b	1000	WADC	1320
	500	WFJC	1450
Cambridge F-22	100	WEBE	1210
Canton F-22-d	10	WHBC	1200
Cincinnati G-20-e	100	WEBE	1200
	500	WKRC	550
	50000	WLW	700
	500	WSAI	1330
Cleveland F-22-a	1000	WEAR	1070
	1000	WHK	1390
	500	WJAY	610
	50000	WTAM	1070
Columbus G-21-b	500	WAIU	640
	500	WCAH	1430
	750	WEAO	570
	50	WMAN	1210
	200	WSMK	1380
Dayton G-21-e	100	WRK	1310
Hamilton G-20-d	100	WJW	1210
Mansfield F-21	100	WJW	1210
Mount Orab	100	WHBD	1370
Springfield G-21-c	500	WCSO	1450

Steubenville F-22	50	WIBR	1420
Toledo F-21-a	500	WSPD	1340
Youngstown F-22	500	WKBN	570

OKLAHOMA

Alva I-13	100	KGFF	1420
Chickasha J-14-b	250	KOCW	1400
Elk City J-13	100	KGMP	1210
Enid I-14	100	KCRC	1370
Norman J-14-a	500	WNAD	1010
Oklahoma I-14-b	5000	KFJF	1480
	1000	KFXR	1310
	100	KGFG	1370
	1000	WKY	900
Picher I-15	500	KGGF	1010
Ponca City I-14	100	WBBZ	1200
Tulsa I-15	5000	KVOO	1140

OREGON

Astoria C-1-a	100	KFJI	1370
Corvallis D-1	1000	KOAC	550
Eugene D-1	100	KORE	1420
Marshfield E-1	100	KOOS	1370
Medford E-1	50	KMED	1310
Portland C-1-b	5000	KEX	1180
	100	KFIF	1420
	500	KFJR	1300
	1000	KGW	620
	1000	KOIN	940
	500	KTBR	1300
	15	KVEP	1500
	500	KWJJ	1060
	100	KXL	1420

PENNSYLVANIA

Adamsburg	100	WGM	940
Allentown F-25-c	250	WCBA	1440
	250	WSAN	1440
Altoona F-24-c	100	WFBG	1310
Carbondale F-25	10	WNBW	1200
Elkins Park G-25-c	50	WBG	930
Erie E-23	30	WEDH	1420
	50	WRAK	1370
Grove City F-23-b	100	WSAJ	1310
Harrisburg F-24-d	500	WBAK	1430
	100	WOOD	1200
	500	WHP	1430
Jeannette G-23	100	WOOP	840
Johnstown F-23-d	100	WJAC	1310
Lancaster G-24-a	15	WGAL	1310
	100	WKJC	1200
Lewisburg F-24-b	100	WJBU	1210
Oil City F-23-a	500	WLBW	1260
Philadelphia G-25-d	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 F-23-c	50000	KDKA	980
	5000	KQV	1380
	1000	WCAE	1220
	1000	WJAS	1290
Reading F-25-d	100	WRAW	1310
Scranton F-25-a	250	WGBI	880
	250	WQAN	880
State College F-24-a	500	WPSC	1238
Washington F-23	100	WNBO	1200
Wilkes-Barre F-25-b	100	WBAX	1210
	100	WBRE	1310
Wilkesburg F-23	100	WMBJ	1500

INDEX BY LOCATIONS WITH MAP KEY

Poynette D-18-e	100	WIBU	1310
Racine E-19	100	WRJN	1370
Sheboygan C-18	500	WHBL	1410
Stevens Pt. D-18-b	2000	WLBL	900
Superior B-17	1000	WEBC	1290

WYOMING			
Casper	100	KDFN	1210

CANADA

ALBERTA			
Calgary	500	CFAC	690
	500	CFCN	690
	500	CHCA	690
	500	CJ CJ	690
	500	CNRC	690
Edmonton	250	CHMA	580
	500	CJCA	580
	500	CKUA	580
	500	CNRE	580
Lethbridge	50	CJOC	1120
Red Deer	1000	CHCT	840
	1000	CKLC	840
	1000	CNRD	840

BRITISH COLUMBIA			
Chilliwack	5	CHWK	1210
Kamloops	15	CFJC	1120
Sea Island	50	CJOR	1030
Vancouver	50	CHLS	730
	50	CKCD	730
	50	CKFC	730
	50	CKMO	730
	100	CKWX	730
	500	CNRV	1030
Victoria	500	CFCT	630

MANITOBA			
Brandon	500	CKX	540
Winnipeg	5000	CKY	780
	5000	CNRW	780

NEW BRUNSWICK			
Fredericton	50	CFNB	1210
Moncton	500	CNRA	630
St. John	50	CFBO	890

NOVA SCOTIA			
Halifax	500	CHNS	930
Louisburg	500	VAS	690
Sydney	50	CJCB	880
Wolfville	50	CKIC	930

ONTARIO			
Chatham	100	CFCO	1210
Cobalt	15	CKMC	1210
Hamilton	10	CHCS	880
	50	CHML	880
	50	CKOC	880
Iroquois Falls	250	CFCH	600
Kingston	500	CFRC	930
London	500	CJGC	910
	500	CNRL	910
Midland	50	CKPR	930
Ottawa	100	CKCO	890
	500	CNRO	600
Prescott	50	CFLC	1010
Preston	25	CKPC	1210
Toronto	500	CFCA	840
	500	CFCL	580
	4000	CFRB	960
	500	CJSC	580
Toronto	500	CKCL	580

5000	CKGW	690
500	CKNC	580
500	CKOW	840
500	CNRT	840
5000	CNRX	690
50	CKCR	1010

Waterloo			
PRINCE EDWARD ISLAND			
Charlottetown	250	CFCY	960
	30	CHCK	960
Summerside	25	CHGS	1120

QUEBEC			
Montreal	1650	CFCF	1030
	5000	CHYC	730
	5000	CKAC	730
	5000	CNRM	730
Quebec	100	CHRC	880
	22	CKCI	880
	50	CKCV	880
	50	CNRQ	880
St. Hyacinthe	50	CKSH	1010

SASKATCHEWAN			
Fleming	500	CJRW	600
Moose Jaw	500	CJRM	600
Pilot Butte	500	CHWC	960
Regina	500	CFCR	960
	500	CJBR	960
	500	CKCK	960
	500	CNRR	960
Saskatoon	500	CFQC	910
	250	CJHS	910
	500	CNRS	910
Yorkton	500	CJGX	630

HAITI			
Port au Prince	1000	HHK	920

MEXICO			
Chihuahua	250	XFF	920
C. Lerdo, Dgo.	250	XES	1200
Guadalajara, Jal.	101	XEA	1200
Jalapa, Ver.	350	XFC	630
Merida, Yucatan	105	XEY	550
Mexico City	1000	XEB	670
	1000	XEN	730
	500	XEX	920
	50	XFA	540
	2000	XFG	640
	1000	XFI	590
	1000	XFX	910
Monterrey, N. L.	1000	XEH	970
Morelia, Mich.	101	XEI	1000
Oaxaca, Oax.	105	XEF	1130
Puebla, Pue.	101	XEE	960

CUBA			
Caibarien	250	CMHD	920
Cienfuegos	200	CMHA	1150
Colon	300	CMGA	830
Havana	100	CMBC	890
	200	CMBY	610
	100	CMBZ	1030
	500	CMC	840
	150	CMCB	950
	100	CMCE	1100
	250	CMCF	640
	500	CMJ	820
	2000	CMK	730
	1000	CMW	600
	500	CMX	920
Marianao	50	CMBW	1030
Tuinucu	500	CMHC	790

COSTA RICA			
San Jose	50	TIX	750

CFAC 690				CJRM 600				CMI 820				
Calgary, Alta.				Moose Jaw, Sask.				Havana, Cuba				
CFBO 890				CJRW 600				CMK 730				
St. John, N. B.				Fleming, Sask.				Havana, Cuba				
CFCA 840	35			CJSC 580				CMW 600			78	
Toronto, Ont.	20	2		Toronto, Ont.				Havana, Cuba				
CFCE 1030				CKAC 730				CMX 920				
Montreal, Que.				Montreal, Que.		50		Havana, Cuba				
CFCH 600				CKCD 730				CNRA 630				
Iroq's Falls, Ont.				Vancouver, B.C.				Moncton, N.B.				
CFCL 580				CKCI 880				CNRC 690				
Toronto, Ont.				Quebec, Que.				Calgary, Alta.				
CFCN 690				CKCK 960				CNRD 840				
Calgary, Alta.				Regina, Sask.				Red Deer, Alta.				
CFCO 1210				CKCL 580				CNRE 580				
Chatham, Ont.				Toronto, Ont.		84		Edmonton, Alta.				
CFCR 960				CKCO 890				CNRL 910			29	
Regina, Sask.				Ottawa, Ont.				London, Ont.				
CFCT 630				CKCR 1010				CNRM 730				
Victoria, B. C.				Waterloo, Ont.				Montreal, Que.				
CFCY 960				CKCV 880				CNRO 600				
Ch'lottet'n, P.E.I.				Quebec, Que.				Ottawa, Ont.				
CFJG 1120				CKFK 730				CNRQ 880				
Kamloops, B. C.				Vancouver, B.C.				Quebec, Que.				
CFJL 1010				CKGW 690				CNRR 960				
Prescott, Ont.				Toronto, Ont.		57		Regina, Sask.				
CFNB 1210				CKIC 930				CNRS 910				
Fredericton, N.B.				Wolfville, N.S.				Saskatoon, Sask.				
CFQC 910				CKKL 840				CNRT 840			32	
Saskatoon, Sask.				Red Deer, Alta.				Toronto, Ont.				
CFRB 960	25			CKMC 1210				CNRY 1030				
Toronto, Ont.				Cobalt, Ont.				Vancouver, B.C.				
CFRC 930				CKMO 730				CNRW 780				
Kingston, Ont.				Vancouver, B.C.				Winnipeg, Man.				
CHCA 690				CKNC 580				CNRX 690				
Calgary, Alta.				Toronto, Ont.		89		Toronto, Ont.				
CHCK 960				CKOC 880				HHK 920				
Ch'lottet'n, P.E.I.				Hamilton, Ont.		31		Port au Prince, H.				
CHCS 880				CKOW 840				KBTM 1200				
Hamilton, Ont.				Toronto, Ont.				Paragould, Ark.				
CHCT 840				CKPC 1210				KCRC 1370				
Red Deer, Alta.				Preston, Ont.				Enid, Okla.				
CHGS 1120				CKPR 930				KDB 1500				
Sum'rside, P.E.I.				Midland, Ont.				S. Barbara, Cal.				
CHLS 730				CKSH 1010				KDFN 1210				
Vancouver, B.C.				CKUA 580				Casper, Wyo.				
CHMA 580				Edmonton, Alta.				KDKA 980			24	
Edmonton, Alta.				CKWX 730				Pittsburgh, Pa.				
CHML 880	37			Vancouver, B.C.				KDLR 1210				
Hamilton, Ont.				CKX 540				Devils Lake, N.D.				
CHNS 930				Brandon, Man.				KDYL 1290				
Halifax, N.S.				CKY 780				Salt Lake City				
CHRC 880				Winnipeg, Man.				KECA 1430				
Quebec, Que.				CMBC 890				Los Angeles, Cal.				
CHWC 960				Havana, Cuba				KEJK 710				
Pilot Butte, Sask.				CMBW 1030				Los Angeles, Cal.				
CHWK 1210				Marianao, Cuba				KELW 780				
Chilliwack, B.C.				CMBY 610				Burbank, Cal.				
CHYC 730				Havana, Cuba				KEX 1180				
Montreal, Que.				CMBZ 1030				Portland, Ore.				
CJBR 960				Havana, Cuba				KFAB 770				
Regina, Sask.				CMC 840				Lincoln, Nebr.				
CJCA 580				Havana, Cuba		35		KFBB 1280				
Edmonton, Alta.				CMCB 950				Great Fls., Mont.				
CJCB 880				Havana, Cuba				KFBK 1310				
Sydney, N.S.				CMCE 1100				Sacramento, Cal.				
CJGJ 690				Havana, Cuba				KFBL 1370				
Calgary, Alta.				CMCF 640				Everett, Wash.				
CJGC 910				Havana, Cuba				KFDM 560				
London, Ont.	29			CMGA 830				Beaumont, Tex.				
CJGX 630				Colon, Cuba				KFDY 550				
Yorkton, Sask.				CMHA 1150				Brookings, S.D.				
CJHS 910				Cienfuegos, Cuba				KFEL 920				
Saskatoon, Sask.				CMHC 790				Denver, Colo.				
CJOC 1120				CMHD 920				KFEQ 680				
Lethbridge, Alta.				Caibarien, Cuba				St. Joseph, Mo.				
CJOR 1030								KFGQ 1310				
Sea Island, B.C.								Boone, Iowa				

KFH 1300		KFUO 550		KGJ 1200	
Wichita, Kansas	10	St. Louis, Mo.		Los Angeles, Cal.	
KFHA 1200		KFUP 1310		KGFK 1200	
Gunnison, Colo.		Denver, Colo.		Hallock, Minn.	
KFI 640	67 1/2	KFVD 1000		KGFL 1370	
Los Angeles, Cal.		Culver City, Cal.		Raton, N.M.	
KFIF 1420		KFVS 1210		KGFW 1310	
Portland, Ore.		Cape Gir'rd'u, Mo.		Ravenna, Nebr.	
KFIO 1120		KFWB 950		KGFX 580	
Spokane, Wash.		Hollywood, Cal.		Pierre, S.D.	
KFIU 1310		KFWF 1200		KGGC 1420	
Juneau, Alaska		St. Louis, Mo.		San F'nisco, Cal.	
KFIZ 1420		KFWI 930		KGGF 1010	
Fond du Lac, Wis.		San F'nisco, Cal.		Picher, Okla.	
KFJB 1200		KFWM 930		KGGM 1230	
Marshalltown, Ia.		Oakland, Cal.		Alb'g'rque, N.M.	
KFJF 1480		KFXD 1420		KGHB 1320	
Oklahoma City		Jerome, Idaho		Honolulu, T. H.	
KFJI 1370		KFXF 920		KGHF 1320	
Astoria, Ore.		Denver, Colo.		Pueblo, Colo.	
KFJM 1370		KFXJ 1310		KGHG 1310	
Grd. Forks, N.D.		Edgewater, Colo.		McGehee, Ark.	
KFJR 1300		KFXM 1210		KGHI 1200	
Portland, Ore.		San Ber'd'no, Cal.		Little Rock, Ark.	
KFJY 1310		KFXR 1310		KGHL 950	
Fort Dodge, Ia.		KFXZ 1420		Billings, Mont.	
KFJZ 1370		Flagstaff, Ariz.		KGIQ 1320	
Ft. Worth, Tex.		KFYO 1420		Twin Falls, Ida.	
KFKA 880		Abilene, Texas		KGIR 1360	
Greeley, Colo.		KFYR 550		Butte, Mont.	
KFKB 1050	19 3/4	Bismarck, N.D.		KGIW 1420	
Milford, Kansas		KGA 1470		Trinidad, Colo.	
KFKU 1220		Spokane, Wash.		KGIX 1420	
Lawrence, Kans.		KGAR 1370		Las Vegas, Nev.	
KFKX 1020		Tucson, Ariz.		KGIZ 1500	
Chicago, Ill.		KGB 1330		Grant City, Mo.	
KFLV 1410		San Diego, Cal.		KGJF 890	
Rockford, Ill.		KGBU 900		Little Rock, Ark.	
KFLX 1370		Ketchikan, Al'ka.		KGKB 1500	
Galveston, Tex.		KGBX 1310		Brownwood, Tex.	
KFMX 1250		St. Joseph, Mo.		KGKL 1370	
N'thfield, Minn.		KGBZ 930	27	San Angelo, Tex.	
KFNF 890	20 1/2	York, Nebr.		KGKO 570	
Shenandoah, Ia.		KGCA 1270		Wichita Fils., Tex	
KFOR 1210		Decorah, Iowa		KGKX 1420	
Lincoln, Nebr.		KGCI 1370		Sand Point, Ida.	
KFOX 1250		San Ant'nio, Tex.		KGKY 1500	
Long Beach, Cal.		KGCR 1210		Scottsbluff, Nebr.	
KFPL 1310		Watertown, S.D.		KGMB 1320	
Dublin, Texas		KGCU 1200		Honolulu, T. H.	
KFPM 1310		Mandan, N.D.		KGMC 1310	
Greenville, Tex.		KGCX 1310		Jerome, Ariz.	
KFPW 1340		Wolf P't, Mont.		KGMD 1500	
Siloam Spgs., Ark.		KGDA 1370		Roswell, N. M.	
KFPY 1340		Dell Rapids, S.D.		KGMP 1210	
Spokane, Wash.		KGDE 1200		Elk City, Okla.	
KFQA 1090		Ferg's F'ls, Minn		KGNF 1430	
St. Louis, Mo.		KGDM 1100		No. Platte, Neb.	
KFQD 1230		Stockton, Cal.		KGNO 1210	
Anchorage, Alas.		KGDY 1200		DodgeCity, Kans.	
KFQU 1420		Oldham, S.D.		KGQ 790	
Holy City, Cal.		KGEF 1300		Oakland, Cal.	
KFQW 1420		Los Angeles, Cal.		KGRS 1410	
Seattle, Wash.		KGEK 1200		Amarillo, Texas	
KFQZ 860		Yuma, Colo.		KGU 940	
Los Angeles, Cal.		KGER 1360		Honolulu, Hawaii	
KFRC 610		Long Beach, Cal.		KGW 620	
San F'nisco, Cal.		KGEW 1200		Portland, Ore.	
KFRU 630		Ft. Morgan, Colo.		KGY 1200	
Columbia, Mo.		KGEZ 1310		Lacey, Wash.	
KFSD 600		Kalispell, Mont.		KHJ 900	
San Diego, Cal.		KGFF 1420		Los Angeles, Cal.	
KFSG 1120		Alva, Okla.		KHQ 590	
Los Angeles, Cal.		KGFG 1370		Spokane, Wash.	
KFUL 1290		Oklahoma City		KICK 1420	
Galveston, Tex.		KGFI 1500		Red Oak, Iowa	
KFUM 1270		C'pus Ch'sti, Tex.			
Col. Spgs., Colo.					

KID 1320			KPPC 1210			KUJ 1500	
Idaho Falls, Ida.			Pasadena, Cal.			Longview, Wash.	
KIDO 1250			KPQ 1500			KUOA 1390	
Boise, Idaho			Wenatchee, Wash.			Fayetteville, Ark.	
KIT 1310			KPRC 920			KUSD 890	
Yakima, Wash.			Houston, Texas			Vermillion, S.D.	
KJBS 1070			KPSN 1360			KUT 1500	
San F'nscisco, Cal.			Pasadena, Cal.			Austin, Texas	
KJR 970			KPWF 1490			KVEP 1500	
Seattle, Wash.			Westminster, Cal.			Portland, Ore.	
KLCN 1290			KQV 1380			KVI 760	
Blytheville, Ark.			Pittsburgh, Pa.			Tacoma, Wash.	
KLO 1370			KQW 1010			KVL 1370	
Ogden, Utah			San Jose, Cal.			Seattle, Wash.	
KLPM 1420			KRE 1370			KVOA 1260	
Minot, N. Dak.			Berkeley, Cal.			Tucson, Arizona	
KLRA 1390			KREG 1500			KVOO 1140	
Little Rock, Ark.			Santa Ana, Cal.			Tulsa, Okla.	15 2
KLS 1440			KRGV 1260			KVOS 1200	
Oakland, Cal.			Harlingen, Texas			Bellingh'm, Wash.	
KLX 880			KRLD 1040	20		KWCR 1310	
Oakland, Cal.			Dallas, Texas			Cedar Rapids, Ia.	
KLZ 560			KRMD 1310			KWEA 1210	
Denver, Colo.			Shreveport, La.			Shreveport, La.	
KMA 930	27		KRSC 1120			KWG 1200	
Shenandoah, Ia.	25	1/2	Seattle, Wash.			Stockton, Cal.	
KMBC 950			KSAC 580			KWJJ 1060	
Kan. City, Mo.			Manh'tt'n, Kans.			Portland, Ore.	
KMED 1310			KSAT 1240			KWK 1350	
Medford, Ore.			Ft. Worth, Tex.			St. Louis, Mo.	
KMIC 1120			KSCJ 1330			KWKC 1370	
Inglewood, Cal.			KSD 550			KSKH 850	34 1/2
KMJ 1210			Sioux City, Ia.			Shreveport, La.	
Fresno, Cal.			St. Louis, Mo.			KWLC 1270	
KMMJ 740			KSEI 900			Decorah, Iowa	
Clay Ctr., Nebr.			KSL 1130			KWSC 1220	
KMO 860	17	3/4	Pocatello, Idaho			Pullman, Wash.	
Tacoma, Wash.			KSL 1130			KWWG 1260	
KMOX 1090			Salt Lake City			Brownsville, Tex.	
St. Louis, Mo.			KSMR 1200			KXA 570	
KMTR 370			Santa Maria, Cal.			Seattle, Wash.	
Hollywood, Cal.			KSO 1380			KXL 1420	
KNX 1050	19	1/2	Clarinda, Iowa			Portland, Ore.	
Los Angeles, Cal.	36		KSOO 1110			KXO 1200	
KOA 830			Sioux Falls, S.D.			El Centro, Cal.	
Denver, Colo.			KSTP 1460			KXRO 1310	
KOAC 550			St. Paul, Minn.	0		Aberdeen, Wash.	
Corvallis, Ore.			KTAB 560			KYA 1230	
KOB 1180			Oakland, Cal.			San F'nscisco, Cal.	
State Coll., N.M.			KTAP 1420			KYW 1020	21
KOCW 1400			San Antonio, Tex.			Chicago, Ill.	
Chickasha, Okla.			KTAR 620			KZM 1370	
KOH 1370			Phoenix, Ariz.			Hayward, Cal.	
Reno, Nevada			KTBI 1300			NAA 690	
KOIL 1260			Los Angeles, Cal.			Arlington, Va.	
Council Bluffs, Ia.			KTBR 1300			NBA 850	
KOIN 940			Portland, Ore.			Balboa, C. Z.	
Portland, Ore.			KTBS 1450			TIX 750	
KOL 1270			Shreveport, La.			San Jose, C. R.	
Seattle, Wash.			KTBS 1450			VAS 690	
KOMO 920			Hot Spgs., Ark.	23		Louisburg, N. S.	
Seattle, Wash.			KTCS 1040			WAAF 920	
KONO 1370			Hot Spgs., Ark.			Chicago, Ill.	
San Antonio, Tex.			KTLC 1500			WAAM 1250	11 1/2
KOOS 1370			Houston, Texas			Newark, N. J.	
Marshfield, Ore.			KTM 780			WAAT 1070	
KORE 1420			Los Angeles, Cal.			Jersey City, N.J.	
Eugene, Ore.			KTNT 1170			WAAW 660	
KOY 1390			Muscatine, Iowa			Omaha, Nebr.	
Phoenix, Ariz.			KTRH 1120			WABC 860	33
KPCB 1500			Austin, Texas			New York City	
Seattle, Wash.			KTSA 1290			WABI 1200	
KPJM 1500			San Antonio, Tex.			Bangor, Maine	
Prescott, Ariz.			KTSL 1310			WABO 1440	
KPO 680			Shreveport, La.			Rochester, N.Y.	
San F'nscisco, Cal.			KTSM 1310			WABZ 1200	
KPOF 880			El Paso, Texas			New Orleans, La.	
Denver, Colo.			KTUE 1420				
			Houston, Texas				
			KTW 1270				
			Seattle, Wash.				

WACO 1240				WCAP 1280				WDWF 1210			
Waco, Texas				Asbury Pk., N.J.				Providence, R.I.			
WADC 1320	9	5		WCAT 1206				WDZ 1070			
Akron, Ohio				Rapid City, S.D.				Tuscola, Ill.			
WAGM 1310				WCAU 1170	19			WEAF 660	63		
Royal Oak, Mich.				Philadelphia, Pa.				New York City			
WAIU 640	67	5		WCAX 1200				WEAI 1270			
Columbus, Ohio				Burlington, Vt.				Ithaca, N.Y.			
WAPI 1140	15	5		WCAZ 1070				WEAN 780			
Birmingham, Ala.				Carthage, Ill.				Providence, R.I.			
WASH 1270				WCBA 1440				WEAO 570	88		
Gr. Rapids, Mich.				Allentown, Pa.				Columbus, Ohio			
WBAA 1400				WCBD 1080				WEAR 1070			
Lafayette, Ind.				Zion, Ill.				Cleveland, Ohio			
WBAK 1430				WCBM 1370	8			WEBC 1290			
Harrisburg, Pa.				Baltimore, Md.				Superior, Wis.			
WBAL 1060	19			WCBS 1210				WEBE 1210			
Baltimore, Md.				Springfield, Ill.				Cambridge, Ohio			
WBAP 800	39	5		WCCO 810	38	5		WEBQ 1210			
Fort Worth, Tex.				Minneapolis, Minn.				Harrisburg, Ill.			
WBAX 1210				WCDA 1350				WEBR 1310	10		
Wilkes-Barre, Pa.				New York City				Buffalo, N.Y.			
WBBC 1400	7	5		WCFL 970				WEBW 560			
Brooklyn, N.Y.				Chicago, Ill.				Beloit, Wis.			
WBBL 1210				WCGU 1400	7	5		WEDC 1210			
Richmond, Va.				Brooklyn, N.Y.				Chicago, Ill.			
WBBM 770	44			WCHI 1490				WEDH 1420	7		
Chicago, Ill.				Chicago, Ill.				Erie, Pa.			
WBBR 1300	10			WCKY 1490	5	7		WEEI 590			
Rossville, N.Y.				Covington, Ky.				Boston, Mass.	81		
WBBY 1200				WCLB 1500				WEHC 1370			
Charleston, S.C.				Long Beach, N.Y.				Emory, Va.			
WBBZ 1200				WCLO 1200				WEHS 1420			
Ponca City, Okla.				Kenosha, Wis.				Evanston, Ill.			
WBCM 1410				WCLS 1310				WELK 1370			
Bay City, Mich.				Joliet, Ill.				Philadelphia, Pa.			
WBIS 1230				WCMA 1400				WEMC 590			
Boston, Mass.				Culver, Ind.				Ber'n Spgs., Mich.			
WBMS 1450				WCOA 1340				WEPS 830	36		
Hackensack, N.J.				Pensacola, Fla.				Gloucester, Mass.			
WBNY 1350				WCOC 880	31			WENR 870	32		
New York City				Meridian, Miss.				Chicago, Ill.			
WBOQ 860	33			WCOD 1200				WEVD 1300			
New York City				Harrisburg, Pa.				New York City			
WBOV 1310				WCOH 1210				WEW 760			
Terre Haute, Ind.				Yonkers, N.Y.				St. Louis, Mo.			
WBRC 930	27			WCRW 1210				WFAA 800	39	35	
Birmingham, Ala.				Chicago, Ill.				Dallas, Texas			
WBRE 1310				WCSC 1310				WFAN 610			
Wilkes-Barre, Pa.				Charleston, S.C.				Philadelphia, Pa.			
WBRL 1430				WCSH 949				WFBC 1200			
Tilton, N.H.				Portland, Maine				Knoxville, Tenn.			
WBSO 920				WCOS 1450				WEFE 1200			
Well'ty'H's, Mass.				Springfield, Ohio				Cincinnati, Ohio			
WBT 1080	18			WDAE 1220				WFBG 1310			
Charlotte, N.C.				Tampa, Fla.				Altoona, Pa.			
WBTM 1370				WDAF 610	7	5		WFLB 1360			
Danville, Va.				Kansas City, Mo.				Syracuse, N.Y.			
WBZ 990	23			WDAG 1410				WFRM 1230			
Springfield, Mass.				Amarillo, Texas				Indianapolis, Ind.			
WBZA 990	23			WDAH 1310				WFRR 1270	10	37	
Boston, Mass.				El Paso, Texas				Baltimore, Md.			
WCAC 600				WDAY 940				WFDF 1310			
Storrs, Conn.				Fargo, N.D.				Flint, Mich.			
WCAD 1220				WDBJ 930	27			WFDV 1370			
Canton, N.Y.				Roanoke, Va.				Rome, Ga.			
WCAE 1220				WDBO 1120				WFDW 1420			
Pittsburgh, Pa.				Orlando, Fla.				Talladega, Ala.			
WCAH 1430	12			WDEL 1120				WFI 560			
Columbus, Ohio				Wilmington, Del.				Philadelphia, Pa.			
WCAJ 590				WDGY 1180				WFIW 940			
Lincoln, Nebr.				Minneapolis, Minn.				Hopkinsville, Ky.	36		
WCAL 1250				WDOD 1280				WFJC 1450			
Northfield, Minn.				Chattanooga, Tenn.				Akron, Ohio			
WCAM 1280				WDRC 1330				WFKD 1310			
Camden, N.J.				N. Haven, Conn.				Philadelphia, Pa.			
WCAO 600				WDSU 1250				WFLA 620			
Baltimore, Md.				New Orleans, La.				Clearwater, Fla.	72		

WGAL 1310				WHIS 1420				WJBW 1200			
Lancaster, Pa.				Bluefield, W. Va.				New Orleans, La.			
WGGB 1210				WHK 1390	7 1/2			WJBY 1210			
Freeport, N.Y.				Cleveland, Ohio				Gadsden, Ala.			
WGBC 1430				WHN 1010				WJDX 1270			
Memphis, Tenn.				New York City				Jackson, Miss.			
WGBF 630	70			WHO 1000		22		WJJD 1130	16		
Evansville, Ind.				Des Moines, Ia.		4 1/2		Mooseheart, Ill.			
WGBI 880				WHP 1430				WJKS 1360	8	7 1/2	
Scranton, Pa.				Harrisburg, Pa.				Gary, Ind.			
WGBS 600				WIAS 1420				WJR 750			
New York City				Ottumwa, Iowa				Detroit, Mich.	47		
WGCM 1210				WIBA 1210				WJSV 1460	6		
Gulfport, Miss.				Madison, Wis.				Mt. Vern. H'ls, Va.			
WGCP 1250				WIBG 930				WJW 1210			
Newark, N.J.				Elkins Park, Pa.				Mansfield, Ohio			
WGES 1360				WIDM 1370				WJZ 760			
Chicago, Ill.				WIDB 560	9 1/2			New York City	45		
WGH 1310				WIBO 560				WKAQ 890			
Newsp't News, Va.				Chicago, Ill.				San Juan, P.R.			
WGHP 1240	11	3/4		WIBR 1420				WKAR 1040			
Detroit, Mich.				Steubenville, O.				E. Lansing, Mich.			
WGL 1370				WIBS 1450				WKAV 1310			
Ft. Wayne, Ind.				Jersey City, N.J.				Laconia, N.H.			
WGM 840				WIBU 1310				WKBB 1310			
Adamsburg, Pa.				Poynette, Wis.				Joliet, Ill.			
WGMS 1250				WIBW 580	8 1/2			WKBC 1310			
Minneap., Minn.				Topeka, Kansas				Birmingham, Ala.			
WGN 720				WIBX 1290				WKBF 1400			
Chicago, Ill.	51	1/2		Utica, N.Y.				Indianapolis, Ind.			
WGR 550				WICC 1190				WKBH 1380			
Buffalo, N.Y.	96			Bridgeport, Conn.	13	1/2		La Crosse, Wis.			
WGST 890				WL 1290				WKBI 1420			
Atlanta, Ga.				St. Louis, Mo.				Chicago, Ill.			
WGY 790				WILL 890	30	1/2		WKBN 570			
Schnee'd'y, N.Y.	41			Urbana, Ill.				Youngstown, O.	38		
WHA 940				WILM 1420				WKBO 1450			
Madison, Wis.				Wilmington, Del.				Jersey City, N.J.	6	4 1/2	
WHAD 1120				WIOD 1300				WKBP 1420			
Milwaukee, Wis.				Miami Beh., Fla.				Battle Crk., Mich.			
WHAM 1150				WIP 610				WKBBQ 1350			
Rochester, N.Y.	15			Philadelphia, Pa.				New York City			
WHAP 1300				WIS 1010				WKBS 1310			
New York City	10			Columbia, S. C.				Galesburg, Ill.			
WHAS 820	37	1/2		WISN 1120				WKBY 1500			
Louisville, Ky.				Milwaukee, Wis.				Connersville, Ind.			
WHAT 1310				WJAC 1310				WKBW 1480	5	1/2	
Philadelphia, Pa.				Johnstown, Pa.				Buffalo, N.Y.			
WHAZ 1300				WJAG 1060				WKBC 1500			
Troy, N.Y.				Norfolk, Nebr.				Ludington, Mich.			
WHB 860				WJAK 1310				WKEN 1040	20		
Kansas City, Mo.				Marion, Ind.				Buffalo, N.Y.			
WHBC 1200				WJAR 890				WKJC 1200			
Canton, Ohio				Providence, R.I.				Lancaster, Pa.			
WHBD 1370				WJAS 1290				WKRC 550			
Mt. Orab, O.				Pittsburgh, Pa.	10	4		Cincinnati, O.	96		
WHBF 1210				WJAX 900				WKY 900			
Rock Island, Ill.				Jacksonville, Fla.	30			WLA 1470			
WHBL 1410				WJAY 610	75			WLAC 1470			
Sheboygan, Wis.				Cleveland Ohio				Nashville, Tenn.	5 1/2		
WHBQ 1370				WJAZ 1490				WLAP 1200			
Memphis, Tenn.				Chicago, Ill.				Louisville, Ky.			
WHBU 1210				WJBC 1200				WLB 1250			
Anderson, Ind.				La Salle, Ill.				Minneap., Minn.			
WHBY 1200				WJBI 1210				WLCB 1310			
Green Bay, Wis.				Red Bank, N. J.				Muncie, Ind.			
WHDF 1370				WJBK 1370				WLB 1420			
Calumet, Mich.				Ypsilanti, Mich.				Kansas City, Kas.			
WHDI 1180				WJBL 1200				WLBG 1200			
Minneap., Minn.				Decatur, Ill.				Ettrick, Va.			
WHDL 1420				WJBO 1420				WLBL 900			
TupperLake, N.Y.				New Orleans, La.				Stevens Pt., Wis.			
WHEC 1440	6 1/2			WJBT 770		4 1/2		WLBW 1260			
Rochester, N.Y.				Chicago, Ill.				Oil City, Pa.	11		
WHFC 1420				WJBU 1210				WLBX 1500			
Cicero, Ill.				Lewisburg, Pa.				L.I. City, N.Y.			

WSAI 1330 Cincinnati, Ohio	WSV5 1370 Buffalo, N.Y.	WVVA 1160 Wheeling, W.Va.
WSAJ 1310 Grove City, Pa.	WSYR 570 Syracuse, N.Y.	WEA 1200 Guadalajara, Jal.
WSAN 1440 Allentown, Pa.	WTAD 1440 Quincy, Ill.	WEB 670 Mexico City
WSAR 1450 Fall River, Mass.	WTAG 580 Worcester, Mass.	XEE 960 Pueblo, Pue.
WSAZ 580 Huntington, W.Va.	WTAM 1070 Cleveland, Ohio	XEF 1130 Oaxaca, Oax.
WSB 740 Atlanta, Ga.	WTAQ 1330 Eau Claire, Wis.	XEH 970 Monterey, N.L.
WSBC 1210 Chicago, Ill.	WTAR 780 Norfolk, Va.	XEI 1000 Morelia, Mich.
WSBT 1230 South Bend, Ind.	WTAW 1120 College Sta., Tex.	XEN 730 Mexico City
WSFA 1410 Montgomery, Ala.	WTAX 1210 Streator, Ill.	XES 1200 C. Lerdo, Dgo.
WSGE 1400 Brooklyn, N.Y.	WTB 1420 Cumberland, Md.	XEX 920 Mexico City
WSIX 1210 Springfield, Tenn.	WTFI 1450 Toccoa, Ga.	XEY 550 Merida, Yucatan
WSJS 1310 Winst.-Sal., N.C.	WTIC 1060 Hartford, Conn.	XFA 540 Mexico City
WSM 650 Nashville, Tenn.	WTM 620 Milwaukee, Wis.	XFC 630 Jalapa, Ver.
WSMB 1320 New Orleans, La.	WTNT 1470 Nashville, Tenn.	XFF 920 Chihuahua, Chih.
WSMK 1380 Dayton, Ohio	WTOC 1260 Savannah, Ga.	XFG 640 Mexico City
WSFA 1420 Spartanburg, S.C.	WWAE 1200 Hammond, Ind.	XFI 590 Mexico City
WSPD 1340 Toledo, Ohio	WWJ 920 Detroit, Mich.	XFX 910 Mexico City
WSSH 1410 Boston, Mass.	WWL 850 New Orleans, La.	
WSUI 880 Iowa City, Ia.	WWNC 570 Asheville, N.C.	
WSUN 620 St. Petersburg, Fla.	WWRL 1500 Woodside, N.Y.	

The Short Wave Stations

Call	Station	Owner	City and State	Meters	Watts
W1XAA	WRAH	Stanley N. Read	Providence, R. I.		75
W1XAB	WCSH	Congress Square Hotel Co.	Portland, Maine	63.79	250
W1XAE	WBZ	Westinghouse Elec. & Mfg. Co.	Springfield, Mass.	70.0	
W1XAF	WEEL	Edison Elec. Illuminating Co.	Boston, Mass.		
W1XAG		Edison Elec. Illuminating Co.	Boston, Mass.		
W1XY	WBRL	Booth Radio Laboratories	Tilton, N. H.	105-109	250
W2XA	WRMU	Yacht, "MU-1" Grebe Co.	New York		
W2XAC	WGY	General Electric Co.	Schenectady, N. Y.		
W2XAD	WGY	General Electric Co.	Schenectady, N. Y.	19.56	
W2XAE	WGY	General Electric Co.	Schenectady, N. Y.		
W2XAF	WGY	General Electric Co.	Schenectady, N. Y.	31.48	
W2XAG	WGY	General Electric Co.	Schenectady, N. Y.		
W2XAH	WGY	General Electric Co.	Schenectady, N. Y.		
W2XAK	WGY	General Electric Co.	Schenectady, N. Y.		
W2XAL	WRNY	Aviation Radio Station, Inc.	New York	49.67	500
W2XAQ		Atlantic Broadcasting Co.	New York	105.9	100
W2XAQ	WOR	L. Bamberger Co.	Newark, N. J.	65.4	50
W2XAW	WGY	General Electric Co.	Schenectady, N. Y.		
W2XBA	WAAM	WAAM, Inc.	Newark, N. J.	65.18	50
W2XBH	WCGU	Chas. G. Ungar	Coney Island, N. Y.	54.02	150
W2XBR	WBNY	Baruchrome Corp.	New York City	49.83	
W2XCD		DeForest Radio Co.	Passaic, N. J.	187.30	
W2XE	WABC	Atlantic Broadcasting Co.	Richmond Hill, N. Y.	49.02	50
W2XZ		National Broadcasting Co.	Baltimore, L. I.	49.15	50000
W3XAU	WCAU	Universal Broadcasting Co.	Philadelphia, Pa.	49.50	
W3XK		C. Francis Jenkins Labs.	Washington, D. C.		
W3XL	WJZ	Radio Corp. of America	Bound Brook, N. J.	59.96	30000
W3XN		Bell Telephone Laboratory	Whippany, N. J.		
W4XD	WSM	Nat'l Life & Accident Ins. Co.	Memphis, Tenn.	31.43	
W4XE		William Justice Lee	Winter Park, Fla.	200.	250
W6XA	KNX	Los Angeles Express	Los Angeles, Cal.	107.1	100
W6XAD	KFWO	Lawrence Mott	Avalon, Cal.	53.07	100
W6XAF	KNRC	Clarence B. Juneau	Santa Monica, Cal.	108.2	100
W6XAI	KGGM	Los Angeles Radio Club	Los Angeles, Cal.	66.04	50
W6XAK	KFWH	F. W. Morse	Chico, Cal.	108.2	50

W6XAL	KFQZ	L. E. Taft	Hollywood, Cal.	66.04	50
W6XAN	KRLO	Freeman Lang	Los Angeles, Cal.	105.9	250
W6XAR	KJBS	J. Brunton & Sons	San Francisco, Cal.	32.	50
W6XAU	KHJ	Times-Mirror Co.	Los Angeles, Cal.	104.1	50
W6XAX	KGO	General Electric Co.	Oakland, Cal.	10-40	10000
W6XAZ		Nelson Radio Co.	San Diego, Cal.	106.	50
W6XBA	KFSG	Air-Fan Radio Corp.	Los Angeles, Cal.	108.2	250
W6XBE	KFBC	W. K. Azbill	San Diego, Cal.		
W6XBH	KFQU	W. E. Riker	Holy City, Cal.	31-106	50
W6XBR	KFWB	Warner Bros. Picture Studio	Los Angeles, Cal.	40-105	50
W6XBV	KGER	C. Merwin Dobyns	Long Beach, Cal.	48.86	
W6XBX	KFVD	McWhinnie Electric Co.	Venice, Cal.	105.	50
W6XN	KGO	General Electric Co.	Oakland, Cal.	23.35	10000
W7XAB	KFPY	Symons Investment Co.	Spokane, Wash.	105.9	
W7XAO	KWJJ	Wilbur Jerman, Inc.	Portland, Ore.	53-54	100
W7XC	KJR	Northwest Radio Service	Seattle, Wash.	105.2	
W7XO	KJR	Northwest Radio Service	Seattle, Wash.		
W8XAC	WHAM	Stromberg-Carlson Tel. Mfg. Co.	Rochester, N. Y.		
W8XAL	WLW	Crosley Radio Corp.	Cincinnati, Ohio	49.50	500
W8XOA	WJR	WJR, Inc.	Detroit, Mich.	32.	75
W8XF	WHK	Radio Air Service Corp.	Cleveland, Ohio	66.04	500
W8XJ	WEO	Ohio State University	Columbus, Ohio	54.02	250
W8XK	KDKA	Westinghouse Elec. & Mfg. Co.	Pittsburgh, Pa.	25.25	40000
W8XP	KDKA	Westinghouse Elec. & Mfg. Co.	Pittsburgh, Pa.	10-150	500
W8XS	KDKA	Westinghouse Elec. & Mfg. Co.	Pittsburgh, Pa.	62.57	
W9XAA	WCP	Federation of Labor	Chicago, Ill.	49.34	
W9XAB	WNAL	R. J. Rockwell	Omaha, Nebr.	105.	50
W9XF	WENR	Great Lakes Broadcasting Co.	Chicago, Ill.	49.83	
W9XU	KOIL	Mona Motor Oil Co.	Council Bluffs, Iowa	61.06	500

February Puzzle

WHETHER our puzzle fans found this cross-call too difficult because of the number of cases in which a letter was not keyed both ways, or whether these teasers have lost their flavor, we do not know. The number contributing solutions to this puzzle dropped sharply and we will therefore use the space heretofore occupied by cross-calls with something that may interest our readers more.

The solution of the puzzle that appeared in February is given below:

W
WHK
KITWW
WOLKKMA
WLWLGCMCK
KOCWKNXNKOA
WOAIWWOEWKWSC
WIPIWWCKWDPWWKY
KGFVFLAWJZWBNY
WHAWHAPWWAE
WAAWWSRO
WPGHKVL
HHKBS
WEW
X

Copies of RADEX have been mailed to those who sent in correct solutions. We found a number of instances where two different stations would answer the descriptions and we are considering either solution correct.

P.S.—Answers to the March puzzle

are beginning to pour in, which indicates that the trouble lay with the February puzzle rather than lack of interest on the part of readers. Watch for another puzzle therefore, in the May number.

Ninety Stations on a Crystal Set

(Continued from page 16)

top is the knob of the midget condenser, under that the jack switch that shorted the aerial condenser, but I seldom used it, under that are the two jacks that switched either to the cat-whisker crystal or the Carborundum.

"Next to the left, at the top, is the housing of the crystal and under that the Carborundum control. I got the greatest sensitiveness from the cat-whisker crystal. Further to the left is the slide contact of the coil and under that are the binding posts of the phone outlets, between which is the jack switch that shorted out the second pair of phones.

"At the extreme left is the contact switch that enabled me to vary the capacity of the phone condensers and which I seldom used.

"The upper cabinet housed two wave traps."

{ If this issue of RADEX has pleased you, won't you add to your neighbor's pleasure by telling him about it? }

FAVORITE PROGRAMS

Time Station Dials Feature Time Station Dials Feature

DAILY

WEDNESDAY

SUNDAY

THURSDAY

MONDAY

FRIDAY

TUESDAY

SATURDAY

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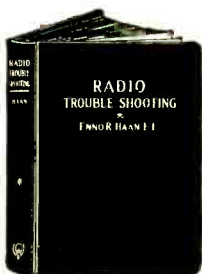
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