

32 Important Stations Change Frequencies

See Page 22

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Please mention RADEX







FRED CLAYTON BUTLER Editor and Publisher

SIXTH YEAR

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NUMBER 39

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Installing a Radio in the Car

THERE are now so many radio receivers on the market that can be picked up cheaply, that almost anyone can afford to install a set in the car. Up to this time comparatively few auto installations have been really successful owing to the difficulty of avoiding interference caused by high-tension discharges of the ignition system, and also the difficulty of providing a ground. Now, however, the fruit of widespread experiments yield a number of methods whereby these difficulties can readily be overcome.

Unlike the installation of a receiver in the home, it is not possible to provide a real ground and for this reason it is necessary to resort to a counterpoise as a substitute, the metal body of the car serving this purpose. This system does not have as much pickup as a regular aerial and ground system and for this reason one must have more radio-frequency amplification than ordinarily required for satisfactory results. Therefore, the kind of receiver you intend to install in the car should have three stages of r. f. beside the detector and two stages of a. f., the more sensitivity it has, the better for the purpose. Another essential feature is that the receiver must be housed in a metal cabinet, which serves as a shield. A 6-tube set of the battery-operated type, which uses the current from the car storage battery for its filament supply, can be had for a few dollars, as this type is practically obsolete.

Grounding Receiver

A convenient location for the receiver must then be gound. Usually there is plenty of space on the floor behind the dash. In finding a suitable place for the receiver one must bear in mind that the metal frame of the receiver is grounded to the A-negative side of the wiring, while many modern cars have the positive side of the battery grounded to the frame. For this reason it is absolutely essential that the receiver be thoroughly insulated from the car body or any metal connected to it. If, perchance, the metal cabinet touches the positively grounded frame, a direct short circuit would result, burning out the tubes. If desired, you can build a neat wooden box to hold the receiver, arranging the latter so that the tuning dials and controls are easily accessible. In case your car is negatively grounded, that is, when the negative side of the storage battery is connected to the frame of the car, matters are simplified considerably, as the above precautions are then unnecessary.

After the location of the receiver has been determined, the loudspeaker must be installed. An ordinary magnetic speaker, preferably a small one, having a good tone quality, should be used. A dynamic loudspeaker is not advised owing to the high voltage required to operate it, which involves additional B-batteries. Find a place for the speaker where it is not likely to be damaged, where it will not be unnecessarily exposed to the weather, and where it can be best heard. It has been found satisfactory to install the speaker as near to the receiver as possible, the additional advantage of this position being that there is then no need for long wires to run where they may be subject to injury.

Battery Box

Next build a strong wooden box to accommodate the B and C-batteries, knowing first exactly how many of these are required. Provide angle brackets on the sides of the box permitting it to be attached directly to the underside of the floorboards. As a substitute for a home-made box a regular Ford storagebattery container has been found highly satisfactory. The floorboard is cut out over the box and cleats are nailed to the underside along the edges to hold the cut-out pieces in place. A thumbhole is drilled through it to facilitate its easy removal. The batteries which are installed in this box are then accessible without involving even the removal of the floorboards. A 7-wire, lead-covered cable is run from the batteries, under (Continued on page 16)

The Cross-Call Puzzle Page

HAT February puzzle had our fans completely at sea, but they came back in force for the March problem. More than fifty of our readers won an extra copy of the April issue for solving the latter correctly. It is evident these contests are giving many people a great deal of pleasure. Typical comments are the following: "Certainly learned a lot about stations working out this one." "Took me half the night, but I believe I got it." "Have been at this one for over two weeks. It certainly was interesting."

Those who failed to get an extra copy of the April RADEX will find the reason in the following correct solution of the March puzzle:

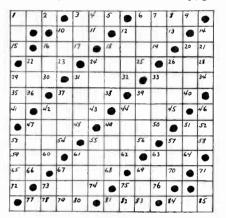
> WLW C KTW WMBHWJWWMBC EB KOBGK RK WRK WRR KEX KTW A KGW LGHINDEXATW KSL I ODA KXA WOS WWJ GM YGKLX DN KFBKLOKELWW KYW W XFF

We made one error in this puzzle which threw a number of solvers off their orbit. We gave 78-79 horizontal as "first and last letters of a New England station." This was wrong and incorrect solutions because of it were counted as right. Vertical 63-81 was inadvertently left out, but fortunately this was keyed hori-The center cross "Radio zontally. Index" was not keyed and was not counted as part of the puzzle, but a large number caught it and included it in their solution.

For this month's stumbling block we are indebted to David Stewart, of Akron, Ohio. This is very cleverly done, practically each square being keyed both ways and with only one deleted station. So many readers are new at radio that old stations are too much for them and in future we will confine stations to those now in existence so far as it is possible. Another thing, in working these puzzles it is best to use the previous issue of

RADEX for there may be some changes in the current number that were made after the puzzle was composed.

The correct solution of the May problem will be published in June, so if you want an extra copy of the June RADEX get a correct solution in to us before May 28th. Here's the sticker; get a supply of pencils and erasers. Ready; go.



Horizontal

- A big department store Pioneer Ohio station 1 - 2
- 3 56 9
- In a steel city
- 10-11 Formerly a key station On the Pacific
- 12-13
- 16-17 An important old-timer
- 18-19 In Washington
- 20-21 First and last letters of a Florida station
- 22-23 Reads the same either way
- 24-25 An eastern agricultural station
- 26-28 Middle West university station
- 29 30In the North-West
- 31-32 Holy writ
- Last three letters of a patriotic society
- 33-34 35-36 Second and fourth letters of a New York City station In Chicago
- 37-38
- 39-40 Little station in New England
- 42-43 Now what
- 44-45 Shares with WTAX
- 47-48 Last three letters owners' initials
- 49-50 Golden Gate station
- 51-52 Middle letters of a BC station
- 53-54
- Almost a hoax North of "fifty-four-forty" 55 - 56
- 57 58Hale Brothers & The Chronicle
- 59-60 In Wenatchee
- 61-62 A Columbia station 63-64 Louis Wasmer, Inc.
- Last two letters of Crosley station 65-66
- 100 watts in Florida 67-68
- 69-70 Former Calumet Baking Powder station
- 73-74 In Amarillo
- 75-76 On a private wave
- 77-80 In Jamaica
- 81-83 Made famous by "the king of the ivories"
- 84-85 Don Lee station

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	Vertical
1 - 15	30,000 watts
29-41	Leads in California
53-72	A state college
22-36	Formerly KOQ
47-66	At the end of the dial
16-30	Shares with "Hello World"
42 - 60	Changed from The Daily News
73-78	Middle letters of Cobalt station
10-23	On 1310
37 - 54	In Springfield
6 7-79	At the other end of the dial
3 - 17	An old-timer with new owners
30 - 48	Belongs to U.S. Playing Card Co.
61-80	On 1420
4-11	Middle letters of Quebec station
24 - 43	In I-18
55 - 74	Given evening time this month
18-38	Champlin in Enid
49-68	Used horizontally also
12 - 32	Changed to KREP then to KTAR
44-62	Formerly owned by 1-2 horizontal
75-82	First and last letters of two 1420 stations
6-25	A First Baptist church
39-56	U. S. Broadcasting Corp.
69-83	"Chi-caw-go"
7-19	American Broadcasting Co.
33-50	In Missouri Pacific Agricultural Foundation, Ltd.
63-76	Last two letters of NJ station
8-13	Oak leaves
$26-45 \\ 57-70$	Another Columbia station
20-40	Courier-Journal
51-64	On 1500
14-34	Once called WJAX
46-58	First three letters of Voice of St. Louis
40-30	Old Michigan station
41-00	Old michigan stanton

Now if that isn't puzzle enough for one month, here is a little teaser sent in by Viggo K. Jensen, Geneva, N. Y. The problem is to name seven broadcasting stations in the world which contain all the letters of the alphabet with no duplications. That is, each letter of the alphabet must be used once in composing the calls of seven world stations.

If that one proves too hard, here is an easier one: The puzzle editor found that eight stations listed in the April RADEX contained the 26 letters of the alphabet out of the 32 used in the eight stations. Who can find eight stations that will include all letters and use less than six duplicates?

Vallee and Osborn

THE inquiry from one reader as to whether these two popular entertainers were not in reality one, brings the following interesting letter from L. S. Tobin, of Michigan.

"I have just finished reading Vallee's "Vagabond Dreams Come True," which is his life history. He tells in this book that, while his orchestra was playing at Keith's Palace, a young man named Will Osborne met him (Vallee) and asked him if he would listen to Osborn's orchestra which was playing at an Alice Foote MacDougall coffee-house. Vallee agreed and after hearing the orchestra suggested numerous changes and it was made up of identically the same instruments as the "Connecticut Yankees."

"Vallee had been playing at the 'Villa Vallee' during dinner hours, but had so many other engagements, he suggested that the owner of 'Villa Vallee' employ Osborne's orchestra, which he did. Later Vallee permitted this orchestra to broadcast from the club during dinner hours for some jewelry firm for which Vallee's orchestra had broadcast the previous year.

"Vallee was appearing four times daily and five times on Sunday at Paramount in vaudeville and between shows he sang at the Lombardy and then sang with Cshorne's orchestra.

"The point is that Will Osborne received personal instruction from Vallee, according to the latter, and his organization became practically a replica of Vallee's orchestra, so there is good reason for wondering regarding the similarity."

Since receiving the above letter we have read in the public press that Osborne is initiating suit against Vallee for libel because of the remarks regarding his orchestra in Vallee's book.

The DX League

EPLIES to the article in the April edition are coming in but cannot K edition are coming in time for this be summarized in time for this subject. issue. Another article upon this subject will appear in June. There can be no doubt as to the need for such an organization or of the service it could render to radio in general and its members in The question is whether particular. enough of those interested in radio can be brought into the movement to make it world-wide in character. If you think there should be an association of DX-ers for their mutual benefit, write us your suggestions at once. If you have not already done so, read the article entitled, "A Radio DX League of the World," in the April RADEX.

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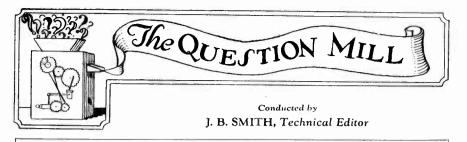
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[5]



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 63.

I have a Sparton Equasone receiver Model 89A and would like to know how to test the selector unit to determine whether or not it needs to be adjusted. It seems that the set is a little too broad.

If you are not inconvenienced by the present operation of your set it is best not to attempt making adjustments. However, the method of determining whether the selector is in good condition is as follows: Tune in a station, preferably a local and at a time when it is the only station that can be heard. Remove the aerial lead-in wire from the selector and hook it to the connector between the selector and amplifier. If the station is heard at nearly the same volume the selector unit is in good adjustment. In order to adjust the selector, turn the volume control on fully and bring in a station of approximately 1250 kilocycle or one of still higher frequency. Then adjust the aerial compensating condenser until the maximum response is obtained in the speaker.

Is it best to connect the B-neg. lead to the A-neg. or to the A-pos. lead in a battery-operated receiver?

It is customery in most receivers to ground the A-neg. line and as a rule the B-neg. line should be connected to it also. One advantage of this method of wiring is that there is then less risk of burning out the tubes, due to accidental short circuits.

I have recently built a Samson T. C. receiver having one r. f. stage, a detector and two audio stages, but lately have had trouble with it since I tried inserting a condenser and an a. f. choke coil in the detector circuit. Before this it worked fine, but after the choke coil and condenser were removed the set tuned broad. I also have an r. f. choke coil in the plate circuit of the first r. f. tube. This is a batteryoperated redeiver. Enclosed find a diagram.

Merely inserting and then removing the a. f. choke coil and condenser in your receiver at the point indicated in your diagram, should not cause the set to tune broad, where it was previously sharp. The inductance of none of the coils has been changed so the trouble narrows down to two possibilities, namely, the aerial system and the battery supply. If the former is the same length as before you made the change it is quite possible that your storage battery is too low for efficient operation of the receiver. This would cause the set to tune broad and with a loss of volume. The B-batteries should be discarded after they have dropped 25 per cent from their original value. Be sure to put the set in exactly the same condition that it was when results were satisfactory." If the r. f. choke was inserted since, remove it.

My Tyrman No. 80 set is an a. c. superheterodyne with three screen-grid tubes, four 227 tubes and one 250 tube. When I first connected it I could only get some five or six stations and after several months of making various adjustments and shortening the antenna, I am able to get Denver and New York, but I consider this only fifty per cent efficiency. Could you suggest anything to improve the set?

With the number of stations on the air at the present time it is seldom possible to obtain a great number of distant stations satisfactorily with any kind of receiver, unless you just happen to tune in under the right conditions. I believe that 1200-mile reception from New York City, through the nearby Chicago stations, is doing quite well. It is another matter, of course, if your set tunes too broad, making it impossible to separate stations properly. In this case I would first check the oscillator to see that it is working perfectly. If, while the detector dial is bringing in a station, the oscillator dial can be revolved without any apparent change in the reception, the oscillator is not functioning. The length of the aerial also determines to a great extent the distance that you can get on your receiver. Then, every contact in the set should be electrically perfect. in order to expect good reception. Your set has plug-in coils. Surprising improvements often result from cleaning the prongs with emery cloth. Have every tube tested and carefully check the wiring at the soldered joints for a loose or corroded connection. Extremely careful tuning is also necessary to obtain distant reception.

I have a Colonial receiver and would like to know how earphones should be connected.

In the wiring diagram covering both models 31 a. c. and d. c. Colonial receivers, a single-circuit jack is indicated in the plate circuit of the detector. Whether or not this jack, which is evidently intended for earphone reception, is on the panel or on the subpanel is not indicated in the diagram. The detector is the fourth tube from the left and the jack is between this tube and the first audio transformer. If you cannot find the jack on your set disconnect the blue wire between the pair of terminals marked No. 2, on both the receiver chassis and power-supply unit and amplifier units, and connect the two ends of the headset cord to these terminals. This will give you the output from the first audio stage. It might be advisable to call in the help of the Colonial service man to examine your receiver and make the above-mentioned changes.

I would like to know whether it is possible to change any tuned radio-frequency receiver to a neutrodyne by tapping the r. f. coils and adding 17-plate condensers?

It is not possible to convert an ordinary r. f. receiver into a neutrodyne by merely tapping the secondary winding of the r. f. coils and adding a 17-plate condenser as you suggest. The secondary coils of neutrodyne receivers are tapped at a distance of from 1-5th to 1-3



Sonia, feminine member of the accordian duo, Kish and Sonia, appeared recently on the Majestic Hour on the CBS chain.

from the F-neg, end of the coil, and the tap is connected to one side of a neutrodon or neutralizing condenser of midget proportions, while the other side of the neutrodon goes to the grid of the tube located ahead of the tapped coil.

In my Hammarlund-Roberts receiver the power supply unit is attached to the chassis. A short time ago the set stopped working although the tubes light when the set is turned on. I used a high-resistance voltmeter to test the plate voltage but did not get any reading. Thinking that one of the condensers of the power pack might be blown, I am writing to you for information on the proper method of testing the condensers.

[7]

There are two general-purpose tests that one can appy to a condenser; one to determine whether it is short-circuited and another to determine if there is any leakage. In making a test on a condenser it is first of all necessary to disconnect all the leads to it in order to eliminate any possible shunt path for the current applied during the test. Take a 45-volt B-battery and connect one terminal to one side of a highresistance voltmeter, which I note you have on hand. Connect a lead to the other terminal of the B-battery and a second lead to the other terminal of the voltmeter. Discharge the condenser by holding a piece of metal across the terminals. Touch the leads from the Bbattery and voltmeter to the condenser terminals. The voltmeter should not show any reading. If it does the condenser is short-circuited and should be replaced with a new one. After discharging the condenser again, the second test can be made. This consists of applying the voltage of the B-battery directly to the condenser for a few seconds, thereby charging it. After two or three minutes the two tips of a headset are held against the condenser terminals, taking care not to touch the metal tips with the fingers or any material that is conductive. If a strong click is heard the condenser has retained its charge. But if a weak click is heard, or none at all, the condenser is leaky.

How can I determine whether the audio stages of my receiver are functioning properly?

To test the audio stages quickly, touch with a moistened finger, the grid terminal of the detector socket. If you cannot get at it easily use a long piece of insulated wire with both ends bared. Hold one end on the grid terminal of the socket and then touch the other end with the moistened finger. A strong click or squeal indicates that the a. f. stages are in good condition, while a weak click or squeal indicates trouble in the a. f. stages. If you note the latter condition examine all the wiring and check every connection to see that it is electrically secure. Then test the windings of the a. f. transformers for open circuits. In the case of resistance coupled a. f., replace

the resistors with new ones of the same values, and test the by-pass condensers for punctures.

Recently our set has developed harshtoned reception. Will you kindly enumerate various causes of such a condition so that by a process of elimination, we will be able to determine where the trouble lies?

Usually too high a grid or plate voltage on one or more of the tubes may cause harsh-toned reception. However, incorrect resistors in a resistance-coupled receiver may be responsible. Too high a grid-leak value would also have similar results in reception. Be sure that the tubes are all in good condition, for with a poor tube you cannot expect good results. If your receiver tunes too sharply, you are not getting the benefit of the entire wave band, which is often evidenced by distortion.

Can you tell me how interference from electrical ignition on an oil burner is recognized from other kinds of electrical interference?

Interference caused by the ignition system of an oil burner is recognized by a loud roaring noise in the loudspeaker when the set is turned on, which may continue from 15 to 60 seconds or during the entire period that the burner is in operation, depending on the type of electric ignition employed.

There is an annoying hum in our Graybar all-electric receiver, which spoils reception entirely. Until a short time ago the reception was without a flaw. Can you suggest what might cause this hum?

In the Graybar receiver, hum can be traced to any of the following causes, defective center-tapped resistance unit, position of the socket plug, which should then be reversed, and a low or fluctuating line voltage, which can be overcome by using an automatic voltage regulator.

We have an Amrad model 70 receiver, which is satisfactory except for the lack of sufficient volume. The tubes all test O. K. What can be the cause?

The probable cause of your trouble may be any of the following: Low line voltage, voltage adjustment on wrong tap of power pack, misalignment of variable condenser, low voltage delivered to the receiver from the power (Continued on page 18) R.T. I. QUALIFIES YOU TO MAKE MONEY AND ITS SERVICE KEEPS YOU UP-TO-THE-MINUTE ON THE NEWEST DEVELOPMENTS IN RADIO, TELEVISION, AND TALKING PICTURES



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[9]

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We received a large quantity of both brickbats and bo-

ear M

quets by returning to call letters in the weekly programs. The additional page for the quick conversion of call letters and frequencies into dial numbers, however, seemed to please all of our readers. It will, therefore, be retained as a permanent feature. "Why did you go back to call letters in 'What's On the Air Tonight'?" asks Mrs. John L. Smith, of Dolgeville, N. Y. "I liked the kilocycles so much better as one could turn to the numbers so easily. If the letters and frequencies were both given it wouldbe still better for all." We are now giving nine pages to this department and cannot possibly spare any more. If we were to give both letters and frequencies, anyone can readily see that it would take twice the space, which would mean that we would be forced to give only half as many program features as we list at present. Is it necessary to repeat these frequencies over and over several hundred times? For they are the same stations and all of them are found in the new table.

I.S. MALL

LLL.

"Why not list the stations alphabetically in the programs?" asks Karl Halpern, Brooklyn, N. Y. This looks easy but try and do it. Just for fun, take any one of these programs and try to arrange them alphabetically and you will see how long it will take. As we have explained before, we get RADEX all ready for the press and then hold it for the very latest program information each month and as soon as that comes in, you ought to see us work to get it ready for the printer. To index each feature alphabetically would take at least two more days and then your RADEX would be late and vou wouldn't like that. However, we are passing on this suggestion to the broadcasting companies to see if it wouldn't be possible for them to arrange the calls alphabetically. That would make it fine. "RADEX is the best radio magazine you can find on the market from here to Mars," concedes Mr. Halpern.

dito

Mysterious WOKC

Mrs. R. A. Wall, of Pittsburgh, Pa., reports hearing WKOC once late at night on about 640 kcys. Cyril P. Engelmeier of the same city picked it up on only one evening, February 21st, and Russell Heinz, also of the Smoky City, tells us that WKOC was on the air for just one day broadcasting a Knights of Columbus banquet from McKeesport. Evidently another KUKU.

Mr. Heinz thinks it was KRLD which Chris Tom Banakas inquired about in a recent issue. That station broadcasts Spanish lessons and people often think they are getting Mexico or Cuba. Mr. Heinz also has heard station WBAE, which was reported by C. M. Falconer, of Baltimore.

Ernest T. Bracy, Jr., North Berwick, Maine, received a station giving the call WWWW from Fort Ann, N. Y. Who can give us any information regarding it?

And Jack Bachman, of Philadelphia, heard one on about 1270 kcys. with the call WBOX. What about this one?

A Radio Map

The perfect radio map has not yet been produced so far as we have been able to find. The one in RADEX is, of course, too small and perhaps doesn't contain enough information, but most others we have seen try to show too much with the result that they are very confusing. We are working now on a new map for RADEX which will have a fourpage spread instead of two. We want this to include southern Canada and as much as possible of northern Mexico. It is our idea that the states and provinces should be shown with as many of the cities in which stations are located as possible. We think it should be ruled in squares as at present so any station may be located instantly by a key. Correct time divisions will be given, but all geographical markings will be left out to avoid confusing detail. Are there any other features our readers think should be included?

Another Mystery

We have had several complaints from readers in the East that station WRHM was coming in so broadly as to cover a big part of their dials. We thought this must be a mistake, as WRHM is away off in Minneapolis and is listed for only 1000 watts. Mr. Engelmeier, already quoted, says: "WRHM on 1250 kcys. simply monopolizes the air, covering five by WWJ at Detroit on the same wave. WKY at Oklahoma City is smothered by WJAX at Jacksonville. WGY and KGO annihilate each other on the same frequency."

From Brooklyn, N. Y., Howard B. Hubbard writes: "There is a terrific amount of code here that covers the range of the set, strong enough at times to prevent hearing a station as powerful as WMCA."

The correctness of our listing of WHO is challenged by Dr. G. A. Chilgren, of Burlington, Iowa. He thinks this station cannot possibly be using the 5000 watts we credit to them because when WOC, at Davenport, signs off



For more than eleven years the three Lombardo brothers have played in organized music. Left to right we have Lebert, Guy Lombardo and his Royal Canadians are heard on the Robert Burns Punatela program over CBS every Monday n i g h i a t 10:00 o'clock EST.

points on my dial all night long and every night in the week." Is this just a freak reception or is the station putting something over on the Commission?

Other complaints regarding reception conditions are interesting and will help to cheer up our readers when some little noise annoys them. Says A. de Tcherniadieff, Havana, Cuba, "We had a particularly bad radio season this year with very poor reception. There were days when one had to give up listening on account of static."

William E. Kessel, of Temple, Texas, complains of reception in that state. "Interference ruins reception from KDKA. Even WBAP and WLW on cleared waves are badly heterodyned. KPRC at Houston is completely spoiled they say, "Turn up your volume control for WHO, Des Moines." Both stations are licensed for 5000 watts and are using it so far as we know. Naturally, however, sets near Davenport must be turned up in order to receive Des Moines with equal volume. This probably accounts for the announcement.

Reports on Devices

"We have used socket aerials (four different kinds) ever since we had a radio, on both battery and all-electric sets and never had any trouble," comments R. V. Keeler, Barberton, Ohio, in regard to a recent complaint that a socket aerial burned out a tube.

From John J. Nickel, Pittsburgh, Pa., comes this complaint: "I bought an (Continued on page 20)

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Tuning in the Talkies

How the Fireside Theatre Works

N the April issue of this magazine we told you about the introductory exhibition of the Jenkins Radiovisor. You will be interested in learning how this really startling invention works in practice. Briefly, the radio talkies are first recorded sumultaneously on film and disk record. The film is placed in the radovision pick-up device and the signals flashed over Station W2XCR at Jersey City, N. J., on 147 meters, so as to be tuned in with a short-wave receiver. Meanwhile the disk record, mechanically coupled with the radiovision pick-up device so as to insure perfect synchronism of sound and action, is electrically reproduced, amplified and sent over direct wire to the DeForest Radio Company's radio telephone transmitter, Station W2XCD, at Passiae, N. J., and broadcast on 187 meters so as to be intercepted by the usual broadcast receiver. In the home, the pictures are tuned in with the Jenkins radiovision receiver while the nearby broadcast receiver provides the perfectly synchronized sounds.

At present the Jenkins radiomovies consist of short subjects in silhouette and half tone form, interspersed with vocal announcements. The usual program opens with a test picture, whereby the "looker-in" can adjust his radiovisor and check up its efficiency. As time goes on and the art improves, without doubt regular plays will be shown such as one sees at the movie theater. After that will come the "news reel" wherein one may see events of the day a they actually take place. But all this is not yet.

How It Operates

How does this miracle of modern science work? Of course it is impossible to broadcast a complete picture as you see it in the movies. Even in the latter there is no such thing as a moving picture What you see is a constant succession of *still* pictures, as everyone knows, which are thrown onto the screen so rapidly, each one being held for the fraction of a second, that to the eye the pictures *seem* to move. With the radio movies, the process is much more difficult for, in-

stead of flashing a complete picture at one time, only a single dot of that picture can be sent at once. In motion picture practice it has been found necessary to flash 16 pictures per second in order to "fool the eye."

In radio movies each picture is made up (at present) of 48 lines and each of these lines is made up of many dots or flashes of light. Therefore to give the appearance of lifelike motion, the Jenkins radiovisor flashes 720 complete lines per second or many thousands of separate dots of light. This makes it necessary to keep the screen small in order to "line" it 720 times each second. In the Jenkins device a magnifying lens is provided to increase the size of the picture so several people may witness it.

To break the picture up into dots for transmission and reception, a scanning disk is used. This disk in its simplest form has a number of small holes so arranged that light showing through the holes falls in turn upon every part of the The current is affected by picture. whether the light falls upon a white spot, a dark spot or a black spot and this in turn affects the impulses that are sent out through the air just as the microphone is affected by the note that strikes The receiving instrument must be it. absolutely synchronized with the transmitter, that is they must turn at exactly the same speed and both must be at exactly the same point on the picture. A rough idea of scanning can be obtained by placing a coin under a piece of blank paper and drawing 48 lines across it. At the end one will have a rough copy of the figure upon the coin. Or, examine an ordinary halftone under a strong magnifying glass and you will find that what you thought was a complete picture is instead a mass of tiny dots. The radiovisor receives one of these dots at a time but with such rapidity that it seems to be receiving a moving picture.

Converting the Signals

In sound broadcasting, the intercepted radio signals are converted by the receiving set into audio current which

the loudspeaker translates into sound. In radiovision, the signals must also be intercepted, converted into suitable current and that current translated into pictures. The translation process takes the form of the radiovisor. This device comprises three principal elements: First, the neon or glow lamp, which varies in luminosity according to the variations in the received signal; secondly, a scanning mechanism, which weaves a dot of light from the glow lamp, into a pattern of horizontal lines to form the animated pictures; and thirdly, a synchronized driving motor which keeps in step with the transmitter. In addition, of course, there must be a short-wave receiver for the televisor and a long-wave receiver for the speaker.

In actual practice, the first thing is to explore the 100-150 meter band by using a loudspeaker or headphones connected to the amplifier or receiver. The "picture" is heard as a buzz-saw note, rising and falling in pitch. With the signals tuned in as loud as possible, the receiver output is thrown over to the radiovisor. The neon lamp is turned on. The motor is started. As the motor gets up speed, the single point of light first seen in the magnifying lens, becomes a line, then a series of lines, and finally a pattern of woven lines with lights and shadows, forming the pictures as the radiovisor comes in proper step with the distant transmitter. With the Jenkins Model 200, the price of which by the way, is \$395.00, the pictures are magnified to permit of four to six persons viewing The Model 100, them at one time. costing \$75.00, is adapted for but one or two persons. In addition, as stated above, there must be both short-wave and broadcast receivers.

When one compares the old flickering silent movies with the present-day talkies, one is at a loss even to estimate what the future may hold for television. One can scarcely believe that only six or seven years have intervened between the old home-made, squealing, strident radio set and the beautiful and acoustically perfect receiver of the present day. Who shall try to prophesy, therefore, what the radio-talkies may be even three years from now?

Where'll They Put 'Em?

Every twice in a while we get a complaint about the number of stations on the air and the suggestion that about half of them ought to be chloroformed. But here are a lot more aspiring owners who yearn to add their voices to the chaotic ether:

Floyd G. Carr, Lancaster, N. H. Coca-Cola Bottling Co., N. Wilkesboro, N. C. H. & W. Tire Co., Sparta, Tenn. J. A. Noe, Monroe, La. Herbert C. King, Stockton, Mo. Wm. Harrison Callender, Deadwood, S. D. Rupert C. Wright, Paragould, Ark. Millard E. Armstrong, Austin, Minn. Paducah Broadcasting Corp. Paducah, Ky.



The Four Frohne Sisters, who are guaranteed to be real sisters, are appearing on the Van Heusen program which may be heard over the Columbia System on Wednesdays at 9:00 o'clock EST.

R. Kay Rogers, Ft. Smith, Ark. Peter A. Vacca, Logan, W. Va. Jos. N. Banker, Osceola, Iowa J. Milton Guyton, Union town, Pa. The Hutchens Co., Huntsville, Ala. Frank P. Wernli, Hazen, N. Dak. Supreme Radio Service, New London, Conn. Verden W. Hodge, Claremont, N. J. J. C. Liner, Monroe, La. Yewell M. Cornelius, Jackson, Miss. Davenport's Music Co., Augusta, Ga. Business Men's Club, McGehee, Ark. Julier J. Meyer, Rosholt, S. Dak.

None of the above has yet been given a construction permit. Perhaps you would like to write to the Radio Commission and urge them to grant permits at once (!).

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Balancing Condensers on T.R.F. Receivers

By J. B. SMITH

E have received numerous requests from readers for information on balancing the condensers on tuned radio-frequency receivers. Such balancing is occasionally necessary but before attempting it the radio fan should be absolutely certain that this is actually his trouble. Frequently the dial is incorrectly adjusted on the shaft. or the setscrew holding it to the shaft may have loosened sufficiently to allow it to slip, which results in erratic dial readings, as for instance when a 1300-kilocycle station comes in at 1500 kilocycles or near the zero reading on the dial, or when the same thing occurs at the other end of the dial. Also, slipping dials make it appear as if a station comes in at various points on the dial so that you cannot log it accurately. Make sure that this is not your trouble by carefully investigating the dial. To correct this trouble tune in a station of known wavelength and set the dial accordingly, this being an easy procedure if the dial is graduated in kilocycles, which is usually the case in most modern receivers. Otherwise, set the dial so that you will get the stations of higher wavelengths near the highest reading on the dial, and those of lower wavelengths near the lowest reading of the dial.

Condenser Alignment

When you have found that the dial is tight on the shaft but the receiver tunes broad and lacks selectivity, you may suspect condenser alignment. The following three symptoms indicate this trouble: First, when signals from two distant stations, 20 kilocycles apart, overlap each other on the dial of your receiver, or when you have a whistle at a point between them while they are both in operation, which also constitutes interference; second, when it is impossible to separate the signals from two local stations, both of which have a wavelength lower than 1000 kilocycles, and are separated by 50 kilocycles; and third, when a distant station 20 kilocycles apart from a local station still causes interference.

To align condensers properly one should rig up a small oscillator, which is preferable to trying to use the signal of a local broadcasting station for the pur-Any radio fan's junk box will pose. provide sufficient material for making an oscillator, which can be operated on * either alternating or direct house-lighting current. Proceed as follows: Wind 50 turns of d. s. c. copper wire on a cardboard or bakelite tube $2\frac{1}{2}$ inches in diameter, tapping the 25th turn. Connect one end of the coil to the stator side of a .0005-mfd, variable condenser and also to one side of a .00025-mfd, fixed condenser, which should be provided with clips to hold a grid leak. The other side of the .00025-mfd, condenser should be connected to the grid terminal of a UX-type tube socket. The other end of the coil is connected to the rotor side of the variable condenser and also to the plate terminal of the socket, while the center tap of the coil is connected to one side of an ordinary porcelain 110volt lamp receptacle, and to either one of two binding posts or other suitable terminals provided for connection to the The other side house-lighting circuit. of the receptacle is connected to one of the filament terminals on the tube socket and the remaining filament terminal on the tube socket is connected to the other binding post. Insert a 4megohn grid leak in the clips on the .00025-mfd, fixed condenser, a UX 112A tube in the tube socket, a 25-watt lamp in the lamp receptacle and provide a length of lampcord fitted with a plug, to the binding posts. The oscillator is now ready for use. In case of direct current the positive side of the line must be run to the binding post which connects to the center tap of the coil.

Operating Oscillator

Place the oscillator about 15 or 20 feet away from the receiver and tune it to about 1500 kilocycles. Remove the

receiver from the cabinet, placing it on a convenient table or work-bench in order to get at it, and then tune in the oscillator signal on the receiver, adjusting the volume control to get the signal at a moderate volume. If the set is equipped with a "local-and-distance" switch, push the switch over to the local position. Usually the "trimmer" condensers, provided for balancing, are equipped with a slotted head to permit turning with a screwdriver. As the screws are usually at ground potential, no trouble will be experienced from body capacity. However, if available, a spudger or bakelite screwdriver is preferable in some cases. The signal should now be tuned in to the maximum volume by adjusting the trimmers alone, taking one stage at a time. starting from the detector stage, and working backwards. Adjustments should be very carefully made. After adjusting all the trimmers at 1500 kilocycles. repeat the process at 600 kilocycles. Sometimes it has been found necessary to bend the end plates of the variable condensers to increase or decrease the capacity. Bending the end plate toward the adjacent plates increases the capacity, and bending it away decreases the capacity. After lining up at 600 kilocycles a thorough re-check should be made at 1500 kilocycles and any adjustments found necessary should then be made.

Michigan Secedes from Radio Union

THE Michigan legislature recently passed a bill authorizing the establishment of a state transmitting station on short waves for police work. The Radio Commission has set a date for the hearing on the application for a license, but Governor Fred W. Green refuses to await the hearing and has ordered immediate construction of the station. The Commission has placed the matter in the hands of the Department of Justice to take action if work is started upon construction before a license is granted.

Governor Green claims that inasmuch as the station will be engaged solely in intra-state work, the Federal Government can go hang, or words to that effect. He is quoted as saying that there is very little except jazz and advertising in the broadcast band and that the Commission would better spend its time regulating that instead of going out of its field and telling the states what they may and may not do in the matter of police powers that belong exclusively to them.

The difficulty is that Michigan's signals will probably not stay in the state where they should and will go circulating through the ether mixing up signals that are on inter-state duty. Governor Green is striking at the whole plan of federal control of radio, following WGY's lead. If Federal control of radio is ever held unconstitutional, imagine the plight of the poor radio listener.



Dapper Dan, who made his radio debut with the Singing Porters in the Shoo-Flyers program over The Columbia System. They may be heard Wednesdays at 7:45 p. m. EST.

Five More 50,000 Watts THE Radio Commission has received applications for the maximum power from the following stations: WSM, Nashville, Tenn.; WHAM, Rochester, N. Y.; WRVA, Richmond, Va.; WOWO, Fort Wayne, Ind., and WHO-WOC, Des Moines-Davenport, Iowa. The last application is for authority to erect a new 50,000-watt station at Des Moines to carry both call letters.

Installing a Radio in the Car

(Continued from page 2)

the floorboards, up in front of the dash and through the dash to the receiver. The cable should have a removable plug at the receiver and to permit quick detachment of the latter. The A-pos. and B-neg, leads are run directly to the storage battery terminals instead of connecting them at any other points of the electrical system such as the ammeter terminal.

The aerial consists of copper screen tacked to the underside of the top. It is advisable to cover the entire top with screen in order to get a maximum pickup within the limits of this installation. Care must be taken that the aerial will not touch any metal part of the car, as the latter serves as the counterpoise. and for this reason a hole is cut in the screen to clear the dome light. Also. in tacking the screen in place to the crosspieces supporting the top, the same precaution should be observed in driving the tacks. For the sake of appearance the screen may be concealed under the covering, although this requires more work. It would be well to have an auto upholsterer do the work for you so that you will be sure of a neatly finished job. In some cars wire netting is used in the makeup of the top and this must, of course, be removed. Before the aerial is tacked in place solder on a length of insulated lead-in wire, of the stranded kind, to reach the aerial post of the receiver. The ground binding post of the receiver is left entirely disconnected.

Eliminating Interference

Interference from the motor must then be prevented. Besides the discharges across the spark plug terminals, the make and break of the contact points and generator relay, cause radio-frequency surges, which result in trouble during reception of signals. One side of a 400 to 600-volt, 1-mfd. by-pass condenser is connected to the side of the generator which connects to the ammeter and the other side of the condenser is connected to the ground of the car. Similarly a second condenser of the same kind is connected to the live side of the ignition switch located on the

instrument board, and to the ground. Trace the line from the other side of the switch to the primary terminal of the ignition coil and then connect another condenser of the same type to this coil terminal and to the ground. Inductive primary clicks and generator noise willbe eliminated in this way. On the hightension side of the ignition circuit the spark plugs and contact points of the distributor must be equipped with resistors of high value. For this purpose Lynch 5-watt, 30,000-ohm Veritas resistors or carborundum resistors of the same value are used. One of these is connected between each spark plug lead and the plug to which it is ordinarily connected. Another is similarly cut in the line running to the center of the distributor cap, as close to the latter as possible. Thus the resistors are connected in series with the plugs so that all the current must pass through them. It is absolutely necessary to prevent the resistors from making contact with any part of the motor or even from being so close that the spark will jump. Most modern cars have a metal dash, which is necessary, in this kind of radio installation for shielding. In case your car is of an older model having a wooden dash, cover it on the motor side with sheet metal, connecting the latter electrically to the frame of the car. This piece of metal should extend from the top of the dash to a point well underneath the location of the receiver.

When running the car, the battery is supplied with current from the generator at $7\frac{1}{2}$ volts, and if the receiver is turned on while driving, it will be subject to too much voltage, as the tubes are designed for 5 volts. Such an overload will cause the receiver to operate poorly and will greatly shorten the life of the tubes. To avoid this trouble get a 2-amp. 50-henry choke coil and cut it in in the negative line from the storage battery to the receiver. This will prevent the tubes from getting more than $5\frac{1}{2}$ volts when the motor is running. To disconnect the choke coil from the circuit, which is desired when the motor is not running, and the set is supplied with current direct from the battery, use a suitable switch to shunt the current around the choke.

What's Doing in Canada?

S EVERAL readers have written to tell us they are receiving some of the Canadian stations on frequencies other than those assigned to them. This applies also to some of the Cuban stations. We have taken the matter up with the Canadian stations as well as with the Dominion authorities.

C. S. Wells, of Concord, N. H., writes: "I received a program undoubtedly originating with CHNS, but it was received on 840 kcys. instead of 930." T. V. Regan, New Orleans reports hearing CMK on 1100 keys. instead of 730. Carroll C. Foltz, North Baltimore, Ohio, says CMW is now broadcasting between 590 and 600.

We are seeking information regarding any changes in Cuba and following are comments from Canada: C. P. Edwards, Director of Radio Service of the Dominion Government, writes us as follows: "Occasionally we grant permission to a station to test on an alternative frequency with a view to ascertaining whether the latter is more suitable than the channel for which it is licensed. If the tests demonstrate such to be the case, we then amend the station's license and our Official List is corrected. \mathbf{It} would be inadvisable for you to depend on reports received from listeners as very frequently the channels authorized for tests are subsequently abandoned."

Mr. Edwards comments that VAS, Louisburg, Nova Scotia, is not a regular broadcasting station, but is a coast station owned and operated by the Canadian Marconi Company of Louisburg. "Its normal function is long distance communication with ships at sea on 2100-2400 meters, but on behalf of the Department, transmits twice daily messages concerning weather and other matters of interest to fishermen. For this purpose the station uses the frequency of 690 kcys. Its power, which you indicate as 500 watts, is considerably in excess of that value."

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CKX at Brandon, Man., advise us that they are using 1010 kcys. only experimentally and that a definite frequency will be decided upon in the near future. They are at present assigned to 540 kcys., too far down the scale for most sets to receive.

CJCA, Edmonton, Alta., state that they are still operating on 580 kcys. and that programs heard on 930 were experimental. CKOC, Hamilton, Ont., state that we have them correctly listed on 880 kcys., but occasionally they broadcust on 630 in order not to conflict with CHML, also of Hamilton.

We are adding this month Station 10-BP, of Wingham, Ontario, which, although an amateur station, broad-



When the "Adventures of Helen and Mary" is broadcast every Saturday at 12 o'clock noon, EST, over WABC and the CBS, these two juvenile radio actresses, whose real names are Estelle Levy and Jean Derby, portray the title roles in a most professional manner.

casts regularly on 25 watts. Frequency is 1200 kcys. and hours of broadcast are: Sundays, 11 a.m. to 12 and 7 p.m. to 8, church services; Tuesdays, 12:30 to 1:30 p.m., recorded programs; Thursdays, 7:30 p.m. to 9:30, barn-dance frolic and 9:30 p.m. to 11:00 dance and popular music. They have been heard as far away as Tucson, Ariz., and Halifax, N. S.

The Question Mill

(Continued from page 6)

pack, poor connection between socket and tube, or a defective connection.

A few weeks ago I purchased a Bremer-Tully No. 81 receiver, which has nine tubes. The tube in the extreme right-hand side of the set, near the back, had to be replaced twice due to burning out. Each one of these tubes cost \$2.50, and I would like to prevent reoccurrences of this trouble. Kindly advise.

The tube in question is an automatic voltage regulator, which is a protective tube for the other tubes of the set. It is designed to automatically supply a constant voltage to the set and it is effective for this purpose only within certain voltage limits. Considerable fluctuations can, however, not be controlled by this tube and it will burn out when subjected to too much voltage. which has evidently happened in your To prevent this trouble again, case. get a separate voltage regulator, such as a Ward-Leonard, or any other similar device made by a reputable manufacturer, and install it in the line to which the radio set is connected, according to the accompanying instructions.

I have a Brunswick 3 KR8, which is a combination electric phonograph and radio receiver, the latter being a Radiola 64. This is a high-grade job, and the demonstration of this receiver was all that could. be expected, it having satisfied us entirely, and we are cranks when it comes to tone However, since the set was quality. delivered the stations could only be tuned through an excessive hum, which, of course, ruins the reception entirely. Several service men have been here but the trouble has not yet been eliminated. Undoubtedly the cause of the trouble is slight, but I would like to have you advise me, as a suggestion to the next service man may put him on the right track.

The concern selling you the receiver in question is responsible for its efficient and satisfactory operation unless it has been tinkered with. If they do not remedy the trouble I advise you to insist on exchanging it for another set of the same type, but one that is not similarly defective. The trouble, as you suggest in your letter, is not very serious and can readily be remedied. In the first place, examine the ground lead from the phonograph motor, which must be grounded to the chassis of the radio set proper. Unless this is connected properly the hum will be evident. In the second place, it may be necessary to balance the hum adjuster. This is a resistance device having a screw which is turned by means of a wood or bakelite screwdriver to obtain the correct adjust-This device is located near the ment. detector tube. Finally, if the hum persists, replace the 227 detector tube.

Our Courier No. 653 all-electric receiver, equipped with a Kylectron loudspeaker, suddenly stopped functioning, although the tubes continue to light, and we are at a loss to remedy the trouble. Will you give us a few pointers as there is no radio service man within several miles

It has been found that the 5,000-ohm, 2-watt, red-coated resistor, located under the subpanel, occasionally burns out in these sets. It can be tested for continuity be sending current from a small battery through it, a voltmeter being connected in series to show whether the circuit is broken, which will be the case of the meter does not show any reading. If this resistor is in good condition, test the UX 120 tube, which supplies biasing current for the loudspeaker, and also test the other tubes of the receiver.

The Radio Typewriter

PPLICATION has been made for the use of frequencies 101 to 103 kcys. with 10 kilowatts power, by the American Radio News Corporation of New York, for the purpose of creating a nation-wide hook-up of typewriters. This will be a broadcasting service, but instead of sending voice or music, the transmitting station will send out impulses which will be caught up by receivers in several cities and the message will automatically appear on the typewriting machine connected to the receiver. The telegraph companies are now using similar machines connected by wire. Will the radio tube supplant the stenographer as it has the small orchestras?

Madame Queen and Ruby Taylor

The affairs of The Fresh Air Taxicab Company of America, Incorpulated, have become matters of national moment equal in importance to the proceedings of the International Conference on Disarmament. Which goes to show that "a little nonsense now and then, is relished by the best of men," as the old saw has it. The intimate affairs of Amos 'n Andy cause millions of families to tune them in every evening for fifteen minutes of chuckling relaxation. They are the leading comic strip of the air.

From the Associated Press report of their personalities, we clip the following:

Amos 'n' Andy, who started life on the radio as Sam 'n' Henry some time back at WGN, Chicago, are just two boys making good in the world.

Amos is Freeman Gosden and Andy is Charles J. Correll.

Incidentally while making good as highly paid entertainers via chain radio they literally have the nation at their feet for ten minutes each night except Sunday. First it was Chicago, when WGN broadcast their nightly sketches as Sam'n' Henry. Then WMAQ, another Chicago station, took them over and they started using their present names.

When they started their NBC appearances, New York and some sections of the country did not take so kindly to them. The comments of some of the metropolitan radio columnists were caustic.

But Amos 'n' Andy seem to get into the blood. Most radio enthusiasts soon find themselves "once a listener, always a listener." The columnists also got bit.

So well do the two portray the characters they take that it is often difficult to convince some persons that they are only blackface.

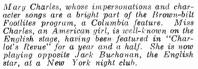
* * *

Amos is a native of Virginia, Andy hails from Peoria, Ill. Amos is a blond. Andy is slightly shorter and heavier than his partner, and is dark. In his normal voice Andy speaks like a metropolitan, Amos with the melody of the South.

Although a number of different characters appear in their sketches, Amos 'n' Andy use no other voices than their own. For instance, Amos is the Kingfish and Lightin', and Andy becomes Pat Pending, a policeman or other gruff voice when occasion demands.

They seldom, if ever, use female characters before the microphone. Amos can do them, but he says it is too difficult.





There is something deeper than mere amusement that attracts the great audience of Amos 'n' Andy. Their sketches have the human touches of Claire Briggs' cartoons. They remind each hearer of incidents in his own life and of people he has known. Amos and Andy both become real characters and their points of view are always true to type. They never step out of their characters in order to say something smart, but every word is another touch of an artist's brush that adds a detail to a portrait.

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"Dear Mr. Editor"

(Continued from page 11)

I. C. A. Resistovolt and put it in the wall receptacle and then put my set-plug into the Resistovolt. Although my set was off when I put in this device, the Resistovolt instantly went off in a big flame." We will be glad to hear from any readers who have had experience with this or other devices for controlling voltage.

A successful wave trap is reported by Wm. H. Wilson, Jr., of Florence, N. J., consisting of two variable condensers and a variometer in series with aerial and ground. The variometer is placed between the two condensers and set is attached to variometer leads.

F. B. Koller, of Martins Ferry, Ohio, is making a sending set and a short-wave receiver and wants to know if he must have a license to send. Ab-so-lute-ly. You must not only have a license but you must pass an examination given by the Federal Radio authorities. This means you will have to demonstrate not only a real knowledge of sending and receiving code, but an understanding of the principles of radio. Write to the Radio Supervisor in your district for information.

Time Signals

B. S. Kunicki, Campbell, Chio, says he gets the Arlington time signals every day at noon from WLW, KDKA, WTAM and WCAE.

H. B. Palmer, Erie, Pa., suggests that the person who inquired about the signals from NAA, make a single-circuit tuner, using a 350-turn honey-comb coil for tuning, with a .0005 mfd. condenser, a 100-turn coil of the same type for a tickler and then get NAA direct at either noon or 10:00 p.m. daily on 112 kcys. One audio stage is desirable and tube must be oscillating to hear code. "If NAA is standard then none of the other times given out are ever correct except Longines," comments Mr. Palmer.

Here is a peculiarity that is frequently noted on some sets with certain stations. Karl Halpern, previously quoted, complains that WOR disappears on his Zenith set (as it should) at about 720 kcys., but it comes in again at 760 which is the frequency of WJZ and wants to know what can be done about it. This is perhaps due to picking up a harmonic of the proper beat and we doubt that anything can prevent it.

DX Reports

D. H. Skatze, of Delaware, Chio, reports picking up 315 stations in eight months on a Majestic 181. Ivan D. Ide, Geneva, Ill., has logged 223 stations on his Atwater Kent 55 on 95 out of the 96 channels and is sitting up nights trying for the 96th. Robert Brady, Jr., 15 years old, of Rochester, N. Y., has a record of 229 stations on a Philco, and George Lilley, West Chester, Pa., also 15 years old, built his own two-tube set on which he has received 280 stations. He has verified 22 on the Pacific Coast, including two 250-watts. And 13-year-old F. E. Wilks, of Ossining, N. Y., received 265 stations doing all of DX work on Friday and Saturday nights so as not to interfere with school. His set tunes down to 160 meters and picks up a lot of amateurs and test stations. He wants pictures of announcers on the front cover instead of pretty artists, thus proving that he is only thirteen years old!

H. L. Ball, of South Bend, Ind., has brought in 274 stations since he began buying RADEX in December, including 21 in California, 16 in Canada, and four in Cuba. Alan Locklin, of Syracuse, N. Y., has verification stamps from 303 stations with his Zenith Colonial. Peter Travis, Courtland, Ont., has logged 107 stations on his three-tube Westinghouse. Archie Barnich, Cheboygan, Mich., on one Saturday night and early Sunday, picked up 127 different stations with his Victor R-32 and wants to know if that isn't just about a record.

"I have had my radio only about three months and purchased RADEX the first week. Have logged nearly 100 stations. I feel I must express my gratitude for your wonderfully helpful guide" writes Mrs. Hattie M. Jarman, of Vancouver, B. C. "Have had my radio only one week and when I bought it a friend gave me a copy of RADEX. In this past week I have received 109 stations from one coast to the other. Now I wouldn't miss a copy of RADEX for anything." This is from Meyer D. Walters, Baltimore, Md.

D. Pierce, of Philadelphia, thinks he has a record for one-tube sets in bringing in KNX, CMC, WRUF, WSMB, WAPI and others on his home-made receiver. "When I try for distance I take my RADEX and see where the station should come in and then I don't have to fish around aimlessly."

William H. Black, of York, Pa., has heard 206 stations during February and March with his Radiola 66. "I can tune in KFI almost any night after eleven o'clock. I never try to tune in distant stations unless I have the latest copy of RADEX in my hand, as it is the best and most complete log I have ever seen. I have bought almost every log printed, but none came near RADEX and furthermore, none ever will."

Some Inquiries

William Vogt, of Cleveland, wants frequencies of police stations. We have explained before that we do not publish these for reason that police departments do not want the public to tune in on their confidential communications to the police cruising cars. They are not broadcasting stations and their work is interfered with when the public tunes them in and then rushes to the scene of the crime.

Fred Wageman, Havelock, Neb., wants to know what the three small dashes opposite call letters of some stations in the Index of Frequencies, signify. These have no meaning and are inserted only to hold the space.

Earle H. Krieg, of Marquette, Mich., takes exception to our story in January on Bob MacGimsey, as hesays he has whistled "duets" for eight years with as much difference as one octave between notes.

"WAAT, Jersey City, puts on a Polish program every Sunday at 4:30 p.m. EST. Dandy music." Thus comments Eugene Miller, of Harrison, N. J.

"RADEX is unquestionably the finest and most accurate guide a radio user can have. We read it from cover to cover each month and enjoy it immensely," writes E. K. Bame, Buffalo, N. Y. Mr. Bame is Secretary-Treasurer fo the Buffalo Evening News DX Club which, he reports, was organized in January, 1928, and now has a membership of over 300 without being on the air at all. "We hope to have a station of our own soon—the new WRDA listed in this month's issue—and when we get that going, we'll do business."

J. Roland Stehl, of Baltimore, likes the Question Mill. Says, "RADEX seems to be the only source of authoritative information for the set owner." Carroll C. Foltz, North Baltimore, Ohio, thinks a fan without a copy of the latest RADEX is missing half the pleasure to be had from a radio set.

And Paris C. Brown, New Orleans, La., adds this postscript for us: "Will say that you sure do know pretty girls when you see them. The cover design for February, 'Beautiful Jeanette' was not chosen by a blind man!"

Now the Condenser "Mike"

THE condenser speaker was a new development of a year or so ago. Now the same principle is being applied to microphones. One is in use at WENR and that station has the following to say about it:

Condenser microphones are so sensitive that it is not necessary to sing or speak directly into the "mouth" of the instrument when broadcasting.

This fact always results in questions from visitors to the studios of WENR, Chicago. In watching a program, they frequently note that the singer or speaker apparently pays little attention to the "direction" of the microphone, except to turn his or her head directly toward it.

An explanation is made by E. H. Gager, chief engineer of the station. "For all practical purposes it is not necessary to use a condenser microphone as one would use a telephone," said Mr. Gager. "In the case of a band broadcast, for instance, it is only necessary that the microphone be a certain distance from the players. Insofar as reception is concerned, it makes practically no difference at all which way the opening of the instrument is turned. For some time we have tested this out with a volume indicator and results have proven this statement conclusively."

Many Stations Shifted

The reallocation of which we gave warning in the April issue, has been adopted by the Radio Commission and is to become effective May 1st. Readers will find the changes in their proper places in this edition.

Following are the major shifts, most of which affect large and important stations, sixteen of them being national chain stations.

KFKX, Chicago, from 1020 to 1140. KYW, Chicago, from 1020 to 1140. KYLD, St. Louis, from 1040 to 1070. KTHS, Hot Springs, from 1040 to 1070. WKAR, East Lansing, from 1040 to 880. WKEN, Buffalo, from 1040 to 1060. WAAT, Jersey City, from 1070 to 1080. WTAM, Cleveland, from 1070 to 1080. WTAM, Cleveland, from 1070 to 1080. WBT, Charlotte, from 1080 to 1040. WCBD, Zion, from 1080 to 1040. WKEX, Louis, from 1090 to 1110. KMOX, St. Louis, from 1010 to 1100. WJD, Mooseheart, from 1110 to 1100. WJJD, Mooseheart, from 1130 to 1090. WAPI, Brimingham, from 1140 to 1130. WAPI, Brimingham, from 1160 to 1180. KVOO, Tulsa, from 110 to 1100. KVOO, Tulsa, from 1160 to 1180. WAY, Wheeling, from 1160 to 1180. WWVA, Wheeling, from 1170 to 820. KZA, Portland, from 1180 to 1170. KOB, State College, from 1180 to 1170. WEA, Minneapolis, from 1180 to 1170. WHDI, Minneapolis, from 1180 to 1170. WHDI, Manapolis, from 1180 to 1170. WHDI, Minneapolis, from 1180 to 1170. WHDI, Jamaica, from 1180 to 1170. WHDI, Jamaica, from 1180 to 1170. WHZI, Jamaica, from 1170 to 1400. WMRJ, Jamaica, from 1170 to 1400. WMRJ, Jamaica, from 1170 to 1400.

In addition there are a number of changes in power, call letters, locations, owners and time-sharing.

This is by far the greatest shift of station frequencies since the general reallocation of November, 1928.

Summary of Present Stations

By Commissioner Lafount

RECORDS of the Federal Radio Commission show that under the present allocation only 209 broadcasting stations are now operating at night simultaneously on 84 of the 90 available channels, exclusive of the 100-watt or less stations operating on six channels assigned to them.

There are 39 stations operating simultaneously on 39 channels and 170 operating on 45 regional channels. There is an average of less than four stations on each regional channel.

These figures conflict with the popular impression that the 600 stations now licensed operate simultaneously on the 90 available channels. If that were so intolerable interference would prevail in nearly all sections of the country.

Such a condition practically existed when the Commission took office on March 15, 1927. At that time 732 stations were in effect broadcasting day and night.

Many reports indicate that the present set-up has materially improved radio reception in most sections of the country and little improvement can be expected under any allocation plan unless the number of stations is materially reduced.

Occasionally the Commission finds it advantageous to shift the frequencies of stations because of some unusual condition. However, since to change one station affects the assignment of many other stations—often as high as 20—the problem of granting local relief often assumes gigantic proportions.

Since nearly all sections of the country are now provided with fair, if not good, radio reception, and because the channels are now groaning under the heavy load, the Commission has been forced to act adversely on many applications for new stations, which continue to be presented from all sections of the country.

Moving Day Here

THE first of April is evidently moving day with radio stations as well as with householders. The following stations have been given construction permits to move from one city to another: KFXD from Jerome to Nampa, Idaho; KGDY from Oldham to Huron, S. Dak.; WRAK from Erie to Williamsport, Penna.; KGFK from Hallock to Moorehead. Minn.

The last-named station advises us as follows: "As soon as formal letters of removal are received and construction permits passed upon, we will move to Moorehead and will proceed at once to erect a new transmitter, steel towers and equip a studio and headquarters."

[22]

KEY TO CHAIN STATIONS

N---National

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C-Columbia

CFRB	KOIN	IIWBCM	WFAA	IWJAS	IIWOAI
960 C	940 C	1410C	800 N	1290 C	1190 N
CKAC	КОМО	WBRC	WFAN	WJAX	woc
730 C	920 N	930 C	610 C	900 N	1000 N
CKGW	KPO	WBT	WFBL		wow
690 N	680 N	1040 N	1360 C	1270 N	590 N
KDKA	KPRC	WBZ	WFBM	WJJD	wowo
980 N	920 N	990 N	1230 C	1130 C	1180 C
KDYL	KRLD	WBZA	WFI	WJR	WPTF
1290 C	1070 C	990 N	560 N·	750 N	680 N
KECA	KSCJ	WCAE	WFIW	WJZ	WRC
1430 N	1330 C	1220 N	940 C	760 N	950 N
KFAB	KSD	WCAH	WFJC	WKBN	WREC
770 N .	550 N	1430 C [1450 N	570 C	600 C
KFH	KSL	WCAO	WGHP	WKBW	WREN
1300 C	1090 N	600 C	1240 C	1480 C	1220 N
KFJF	KSTP	WCAU	WGL	WKRC	WRHM
1480 C	1460 N	820 C	1370 C	550 C	1250 C
KFKX	KTHS	WCCO	WGN	WKY	WRR
1140 N	1070 N	810 C	720 N	900 N	1280 C
KFI	KTRH	WCFL	WGR	WLAC	WRVA
640 N	1120 C	970 N	550 N	1470 C	1150 N
KFPY	KTSA	WCKY	WGST	WLAP	WSAI
1340 C	1290 C	1490 N	890 C	1200 C	1330 N
KFRC	KVI	WCSH	WGY	WLBW	WSAZ
610 C	760 C	940 N	790 N	1260 C	580 C
KGO	KVOO	WDAF	WHAM	WLBZ	WSB
790 N	1130 N	610 N	1160 N	620 C	740 N
KGW	KWK	WDBJ	WHAS	WLIB	WSM
620 N	1350 N	930 C	1020 N	720 N	650 N
KHJ	KXA	WDEL	WHEC	WLIT	WSMB
900 C	570 C	1120 C	1440 C	560 N	1320 N
KHQ 590 N	KYW	WDOD	WHK	WLS	WSPD
KLRA	1140 N	1280 C	1390 C	870 N	1340 C
1390 C	WABC 860 C	WDSU 1250 C	WHO	WLW	WTAG
KLZ	WADC	WEAF	1000 N		580 N
560 C	1320 C	660 N	WHP 1430 C		WTAM
KMBC	WAIU	WEAN		900 C	1080 N
950 C	640 C	780 C	560 N	WMAL 630 C	WTAR
KMOX	WAPI	WEAR		WMAQ	
1110 C	1130 N	1080 N	580 C	670 C	1060 N
KNX	WBAL	WEBC	WIOD	WMC	WTM J
1050 C	1060 N	1290 N	1300 N	780 N	620 N
KOA	WBAP	WEEI	WISN	WMT	WWJ
830 N	800 N	1270 N	1120 C	600 C	920 N
KOIL	WBBM	WENR	WJAR	WNAC	WWNC
1260 C	770 C	870 N	890 N	1230 C	570 C
			0.011	1400 0	

ENTER YOUR DIAL NUMBERS IN THESE SPACES

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

WHAT'S ON THE AIR TONIGHT? A WEEKLY CALENDAR

Leading Features of the Network Programs

Time is given by Eastern Daylight Saving. For Eastern Standard Time, subtract one hour; for Central Time, two hours; for Mountain Time, three hours; and for Pacific Time, four hours. Programs of the National Broadcasting Company begin with WEAF and WJZ; those of the Columbia Broadcasting System with WABC.

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

Daily	(Excep	t Satu	irday a	and Si	unday)
6:45-8:00 T WEAF	ower Heal		ses		
8:00-8:15 T	he Aunt J		WFI an	WRC	WGY
WJZ WBZA	WBAL CKGW	WHAM WRC	KDKA	WJR	WBZ
8:00-8:30 0	rgan Reve	ille			
WABC WMAE	WCAU	WCAO WKRC	WHP	WJAS	WFBL
KMBC	WIBW	KFH	WGHP WBCM	WKBN WSPD	KOIL WMT
WWN0		WDOD	WREC	WLAC	KLRA
8:30-8:45 N WABC	WCAU	WHP	WFBL	WMAK	WKRC
WGHF WWN(KOIL	KMBC	KFH	WBCM	WSPD
8:30-9:00 C		WBRC	WDOD	WREC	WLAC
WEAF	WEEI	WCKY	WRC	WGY	WGR
WJAR WDAF	WTAG KSTP	WCSH WPTF	WCAE WAPI	WWJ KPRC	WOW WFI
WSB	WJAX	WPTF WTAM	WRVA	WHAS	CKGW
9:00-9:30 S WABC	WCAU	WMAL	one WHP	WJAS	WFBL
WKBV	W WKRC	WGHP	WMAQ	KMOX	KOIL
WGL WBRC	WBCM WDOD	WSPD WREC	WMT WLAC	WWNC KLRA	WDBJ KLZ
10:00-10:30	lda Baile	y Allen			
WABC WJAS	WEAN WLBW	WNAC WFBL	WCAU WMAK	WCAO WADC	WMAL WHK
WKRO	WGHP	wowo	WBBM	KMOX	KOIL
KMBC 10:00-11:00		WCCO	WSPD		
WEAF	WEEI	WJAR	WTAG	WCSH	WFI
WRC WSAI	WTAM WHO	WGY KFKX	WGR WCFL	WCAE	WWJ
11:00-11:30		School of	Cookery		
WJZ KWK	WBZ WREN	WBZA WJR	WHAM WGN	KDKA	WLW
11:15-11:30	Radio Ho	usehold	Institute		
WEAF WGY	WEEI WGR	WTAG WCAE	WCSH	WLIT	WRC
KVOO	KSD	WTMJ	WTAM KSTP	WWJ WJAR	WSAI WHO
WDAF WAPI	WEBC WSMB	WHAS	WSM	WMC	WSB
12:00-12:30) Columbia	KPRC Revue	WOAI	WKY	KFKX
WABC		WFAN	WCAO	WMAL	WHP
WJAS WKBN	WLBW WOWO	WFBL KMBC	WMAK WCCO	WADC WBCM	WGHP WMT
WWN		WBRC	WFIW	WDOD	WREC
KLRA 12:30-1:30	KLZ Yoeng's R	KHJ estaurant	KFRC Orchestr	KFPY a	
12:30-1:30 WABC	WĔAN	WNAC	WLBZ	WCAU	WCAO
WMAI		WJAS WGHP	WLBW KOIL	WFBL KMBC	WMAK WCCO
KFH	WBCM	WSPD	WMT	WWNC	WBRC
WFIW 12:45-1:30		WREC arm and	WLAC Home Ho	KLRA	KLZ
WJZ	WHAM	KDKA	WJR	WLW	KSTP
WEBC WSM	WRVA WMC	WPTF WSB	WBT KVOO	WJAX WKY	WHAS WOAI
WRC	WHO	WOW	WDAF	KPRC	WJDX
WBAL WREN		WSMB WLS	WIOD	KFKX	KWK
1:30-2:00 H	arold Ster	n and An	nbassadoi	Orchest	ra
WABC WHP	WEAN WJAS	WLBZ WLBW	WCAU WFBL	WCAO WMAK	WMAL
., 141	1040	11 110 11	WLDD	W MAL	

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WKRC WBRC 2:45-3:45 Ba	WGHP WDOD	WBCM WLAC	WSPD KLRA Melodies	WWNC	WDBJ
WJZ KYW	WBAL WSM	WJR	KDKA	KWK	WAPI
3:00-3:30 Co WCAO WADC WISN WWNV KLRA	WMAL WGHP WIBW WDBJ KLZ	WHP WKBN WGL WBRC KVI	WJAS WFBM WBCM WDOD KFPY	WFBL KMOX WSPD WREC	WMAK KMBC WMT WLAC
3:30-4:00 Co WABC WMAK KOIL WMT WLAC	WCAU WADC KMBC WWNC KLRA	WCAO WKRC WIBW WDBJ KLZ	WMAL WKBN WGL WBRC KDYL	WHP WFBM WBCM WDOD KVI	WFBL WMAQ WSPD WREC KFPY
4:00-5:00 U. WABC WMAL WKRC KOIL WSPD WREC 7:00-7:15 An	WEAN WHP WGHP KMBC WMT WLAC	WNAC WFBL WFBM WISN WWNC KLRA	WLBZ WMAK WMAQ WIBW WDBJ KLZ	WCAU WADC WBBM WGL WBRC KDYL	WCAO WHK KMOX WBCM WDOD KFRC
WJZ WRC WJAX	WBZ CKGW WIOD	WBZA WCKY	WHAM WRVA	KDKA WPTF	WJR WBT
11:30-11:45 KYW WKY WDAF KHQ	Amos'n' KWK WFAA WMAQ WHAS	Andy WREN KPRC KECA WSM	WTMJ WOAI KGO WMC	KSTP KOA KOMO WSB	WEBC KSL KGW WSMB
		Sunc	lay		
1:30-2:00 Ba WLBZ WADC WCCO WDBJ KLZ	WCAU WKRC WIBW WBRC KVI	WCAO WGHP WBCM WFIW KFPY	WHP WKBN WSPD WDOD	WFBL KMBC WMT WLAC	WKBW WISN WWNC KLRA
2:00-3:00 Ro WJZ KYW WHAS	wBZA WBZA WRC KSTP	wBZ WFAA	WBAL WEBC	KDKA KFAB	WLW CKGW
2:00-3:00 M WABC WMAL WGHP WIBW WBRC	WEAN WHP WKBN WBCM	WNAC WFBL WFBM WSPD	Orch., Ec WLBZ WKBW KMBC WMT	Imund Tr WCAU WADC WISN WWNC	udel, Dir. WCAO WKRC WCCO WDBJ
KDYL	WFIW KVI	WDOD KFPY	WLAC WMAQ	KLRA KMOX	KLZ
KDYL 3:00-3:30 Co WABC WJAS WGHP KOIL WBCM WFIW KDYL 3:00-4:00 Ch KSD	KVI Jumbia N WLBZ WFBL WKBN KMBC WSPD WDOD KVI	KFPY lale Chor WCAU WKBW WOWO WISN WMT WREC KFPY	WMAQ WCAO WADC WFBM WCCO WWNC WLAC		KLZ WHP WKRC KMOX KFH WBRC KLZ

3 00 4 00 M					
3:00-4:00 N WJZ	WBAL	WRVA	WPTF	WSB	WOAI
KFAB KPRC	KDKA KSL	WLW KGO	KWK KGW	WREN KOMO	KVOO WBT
WFAA	WAPI	WJAX	NGW	ROMO	WDI
3:30-4:00 Ce	onclave of	Nations	Wayo		
WABC WJAS	WLBZ WFBL	WCAU WKBW	WCAO WADC	WMAL WHK	WHP WKRC KOIL
WGHP	WKBN	wowo	WFRM	WMAQ	KOIL
KMBC WSPD	WISN WMT	WCCO WWNC	WIBW WDBJ	KFH WBRC	WBCM
WDOD	WREC	WLAC	KLRA	KLZ	WFIW KVI
4:00-5:00 Ca WABC	wEAN	Hour	WI 127	WCAU	WOAD
WMAL	WHP	WNAC WJAS WKRC	WLBZ WLBW	WFBL	WCAO WKBW
WADC	WHK KMOX	WKRC KOIL	WGHP KMBC	WKBN	WOWO WCCO
W FBM WIBW	KFH	WRCM	WSPD	WISN WMT WREC	WWNC
WDBJ KLRA	WBRC KLZ	WFIW	WDOD KVI	WREC KFPY	WLAC
4:00-5:00 D			1	KFT 1	
WEAF	WEEI	WJAR	WTAG	WCSH	WGY
WGR WBT	WCAE WSM	WOW WMC	WRVA WSB	WPTF WKY WHAS	WJAX WOAI
KGO	KOMO	WMC KHQ	WSAI	WHAS	WAPI WFJC
KVOO 5:00-5:30 M	KPRC cKesson	KOA News Re	WEBC	KGW	WFJC
WABC WLBW	WEAN WFBL	WNAC WHEC	WCAU WKBW	WMAL	WJAS
WLBW	WGHP	WOWO	WKBW	WADC KMOX	WHK
KMBC	WISN	WCCO WBRC	KFH	WSPD	WWNC
WTAR WDSU	WISN WDBJ KRLD	KLRA	WDOD KFJF	WREC KTSA KVI	WLAC KLZ
KDYL	KHJ	KERC	KOIN	KVI	KFPY
5:00-6:00 D WEAF WRC	WEEI WGY	WJAR WGR	WTAG WCAE	WCSH	WFI
WRC KSD	WGY WOW	WGR WDAF	WCAE WTAM	WFJC WENR	WFI WSAI WOC
5:00-6:00 Na	ational Re	eligious Se	ervice		
5:00-6:00 Na WJZ WLW	WBZ	WBZA WEBC	WBAL WJAX	WHAM WSMB	KFAB KOA
5:30-6:00 Se WABC WHP	ermon by	Rev. Don	ald Grey	Barnhou	se
WABC WHP	WEAN WJAS	Rev. Don WNAC WLBW	WCAU WFBL	WCAO WKBW	WMAL CFRB
WADC	WKRC	WGHP	wowo	WFBM	WMAQ
WEAF	WEEI	WJAR	WTAG	WCSH	WRC WIOD
WGY WSM	WWJ WAPI	KSD	WERC	WBT	WIOD KPO
KHQ	KOMO KOA	WKY KGW WFJC	WJDX WSAI CKGW	KGO WHO	WLIT
WGŘ 6:30-7:00 Th	KOA	WFJC	CKGW		
WABC WFBL	WCAU WKRC	WMAL WGHP	WHP	WJAS	WLBW
WFBL KOIL	WKRC KMBC	WGHP WIBW	WHP WKBN WMT	WOWO WWNC	KMOX WDBJ
WDOD	KLRA	KLZ	KFPY		W DOJ
7:00-7:30 lo WEAF	dent Big WEEI	WIAD	lub WTAG	WCSH	WFI
WRC	WGY	WGR	WCAE	WFJC	WWJ
WSAI 7:00-7:30 TI	WLS ie Globe	KSD Trotter	WHO	WOW	WDAF
WFAN	WMAL	WHP	WJAS WBCM WDOD	WFBL	WKBN
KMOX WWNC	WISN WDBJ	WIBW WFIW KFPY	WDOD	WSPD KLRA	WMT KLZ
WWNC KFRC	WDBJ KVI	KFPY	00		
7:30-7:45 T WABC	winplex T WEAN	wins WNAC WFBL	WCAU	WCAO	WMAL
WABC WJAS WGHP	WEAN WLBW KMOX	WFBL KOIL	WCAU WHEC WJJD	WADC	WKRC
7:30-8:00 W	illiams' (Dilomatics			
WJZ	WBZ	WBZA	WBAL	WJR WLW	WGN WREN
7:30-8:00 M	a jor Bow	es' Family	V 11/1/1		
7:30-8:00 M WEAF WSAI WHAS	WJAR	WRC	WGY	WCAE WFJC WTAM WTMJ	WWJ
WHAS	WIG	WSB	WOW WKY WCSH	WTAM	WIOD KTHS
WOAL	WMC		WCSH	WTMI	WHO
7:45-8-00 TI	WSMB	KSTP s Busines	IS COLLE	W I MIJ	
7:45-8:00 TI WABC	WSMB ne World WEAN	KSTP s Busines WNAC	WCAO	WMAL	WJAS
7:45-8:00 TI WABC WLBW	WSMB ne World WEAN WFBL KMOX	KSTP s Busines WNAC WADC KOIL	WCAO WKRC KMBC	WMAL WGHP WISN	WJAS WKBN
7:45-8:00 TI WABC WLBW WMAQ WIBW	WSMB WEAN WFBL KMOX WGL	s Busines WNAC WADC KOIL WBCM	WCAO WKRC KMBC	WMAL WGHP WISN	WJAS WKBN WCCO WDBJ
7:45-8:00 TI WABC WLBW WMAQ	WSMB ne World WEAN WFBL KMOX	s Busines WNAC WADC KOIL	WCAO WKRC	WMAL WGHP	WJAS WKBN WCCO

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8 00 8 1F F					
8:00-8:15 Er WJZ KWK	wBZ	k Melodi WBZA	es WHAM	WKY	WJR
КWК	WREN	WFAA	KPRC	WOAI	WHAG
WSM WEBC	WTMI	KSTP	WMC	KOA	KYW
WEBC KFI	WIOD KGW	KTHS KSL	WSM B CKGW	KPO WJDX	комо
8:00-8:30 La	Palina R	hansodiz	UNGW	WJDX	KDKA
WARC	WEAN	hapsodiz WNAC	WCAU	WCAO	WMAL
WJAS	WLBW	WFBL	WMAK	WADC	WHK
WJAS WKRC WISN	WGHP WJJD	WFBL WFBM WSPD	кмох	KOIL	KMBC
8:15-9:15 Co	lling's De	dio Hour			
WJZ KYW	WBZ	WBZA	WHAM	KDKA	WJR
KYW KOMO	WBZ KWK KHQ	WREN KPO	KOA KFI	KSL WCKY	KGW
8.30.9.00 4.	ound the	Samova	-		
WABC WJAS WHK	WEAN WLBW WKRC	WNAC WFBL WGHP	WCAO	WMAL WKBW WFBM	WHP WADC KMOX
WJAS	WLBW	WFBL	WMAK WKBN	WKBW	WADC
KOIL	KMBC	WISN	KFH	WSPD	WMT
WDBJ	WFIW	WDOD	WLAC KVI	KLRA	KLZ
KDYL 8:30-9:00 CH	KHJ	KFRC		KFPY	
8:30-9:00 Cr WEAF	ase and S WJAR	Sanborn (WTAG	Choral Or WCSH	chestra WRC	WGY
WGR	WCAE	WFJC WLS WSB	WAPI	WWJ	WSAI
KSD	WOW	WLS	WDAF	WIOD	WHAS WKY
WEBC KTHS	WMC KPRC		CKGW WBT	WSMB WTMJ	WKY
WTAM	KSTP	WLIT	WIBO	WHO	WJDX WPTF
WTAM 9:00-9:15 "C WEAF WCAE WSB)ur Gover	nment"			
WEAF	WJAR	WTAG WHAS	WCSH WKY	WRC WSAI	WGY WFJC WOW
WSB		WMC	WSM	WEAL	WOW
WOAI	WWJ KVOO	WSMB	WTIC	WEBC	RVA
WJDX	KVOO	WLIT	WOC	WPTF	
9:00-10:00 N WABC	WEAN	heatre of	the Air WCAU WMAK WKRC	WCAO	WMAL
WABC WJAS CKAC	WLBW WADC	WNAC WFBL WHK	WMAK	WCAO WDEL WGHP	CFRB
CKAC	WADC	WHK KMOX	WKRC	WGHP	wowo
WFBM WCCO	WBBM WIBW WBRC	WSPD	KOIL WWNC	KMBC WSAZ	WISN WTAR
		1101 D			77 A 2116
W DBJ	WBRC	WDOD	WREC	WLAC	WDSU
WDBJ KRLD	WBRC KLRA	KFJF	WREC KTSA	WLAC	WDSU KDYL
	KLRA	KFJF	WREC KTSA KOIN	WLAC KLZ	WDSU KDYL CNRO
	KLRA	KFJF	WREC KTSA KOIN lad Opera WHAM	WLAC KLZ	WDSU KDYL CNRO WJR
KHJ 9:15-9:45 Ca WJZ KWK	KLRA KFRC nadian P WBZ WPFN	KFJF KOL acific Bal WBZA WCKY	WREC KTSA KOIN lad Opera WHAM KYW	WLAC KLZ	CNRO
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A	KLRA KFRC nadian P WBZ WPFN	KFJF KOL acific Bal WBZA WCKY	lad Opera WHAM KYW	WLAC KLZ KFPY s KDKA	CNRO WJR
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WEAF WCAE	KLRA KFRC madian P WBZ WREN twater K WEEI WTAM	KFJF KOL acific Bal WBZA WCKY ent Hour WRC WWJ	lad Opera WHAM KYW WFI WSAI	WLAC KLZ KFPY KDKA WGY WGN	CNRO WJR WGR KSD
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WEAF WCAE WOW	KLRA KFRC madian P WBZ WREN twater K WEEI WTAM KSTP	KFJF KOL acific Bal WBZA WCKY ent Hour WRC WWJ KOA	lad Opera WHAM KYW WFI WSAI KSL	WLAC KLZ KFPY KDKA WGY WGN KFI	CNRO WJR WGR KSD
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WEAF WCAE WOW KOMO	KLRA KFRC madian P WBZ WREN twater K WEEI WTAM KSTP KPO	KFJF KOL acific Bal WBZA WCKY ent Hour WRC WWJ KOA KHQ	lad Opera WHAM KYW WFI WSAI KSL WSM	WLAC KLZ KFPY KDKA WGY WGN KFI WMC	CNRO WJR WGR KSD KGW WSB
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WCAE WOW KOMO WFAA WHAS	KLRA KFRC WBZ WREN twater K WEEI WTAM KSTP KPO KPRC WDAF	KFJF KOL acific Bal WBZA WCKY ent Hour WRC WWJ KOA	lad Opera WHAM KYW WFI WSAI KSL	WLAC KLZ KFPY KDKA WGY WGN KFI	CNRO WJR WGR KSD
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WEAF WCAE WOW KOMO WFAA WHAS 9:45-10:15 F	KLRA KFRC wBZ WREN twater K WEEI WTAM KSTP KPO KPRC WDAF	KFJF KOL acific Bal WBZA WCKY ent Hour WRC WWJ KOA KHQ WOAI WOAI WHO	lad Opera WHAM KYW WFI WSAI KSL WSM WSM WKY	WLAC KLZ KFPY S KDKA WGY WGN KFI WMC WSMB	CNRO WJR WGR KSD KGW WSB WBT
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WEAF WCAE WOW KOMO WFAA WHAS 9:45-10:15_F WJZ CKGW	KLRA KFRC WBZ WREN twater K WEEI WTAM KSTP KPO KPRC WDAF enrod WCKY	KFJF KOL acific Bal WBZA WCKY ent Hour WRC WWJ KOA KHQ WOAI WHO WHAM	lad Opera WHAM KYW WFI WSAI KSL WSM WSM WKY	WLAC KLZ KFPY KDKA WGY WGN KFI WMC	CNRO WJR WGR KSD KGW WSB
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WCAE WOW KOMO WFAA WHAS 9:45-10:15 F WJZ CKGW	KLRA KFRC WBZ WREN twater K WEEI WTAM KSTP KPO KPRC WDAF enrod WCKY Will Roge	KFJF KOL acific Bal WBZA WCKY ent Hour WRC WWJ KOA KHQ WOAI WHO WHAM	lad Opera WHAM KYW WFI WSAI KSL WSM WKY WREN	WLAC KLZ KFPY S KDKA WGY WGN KFI WMC WSMB WJR	CNRO WJR WGR KSD KGW WSB WBT KWK
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WCAE WOW KOMO WFAA WHAS 9:45-10:15 F WJZ CKGW	KLRA KFRC wBZ WBZ WREN twater K WEEN WTAM KSTP KPO KPRC WDAF enrod WCKY Will Roge WEAN	KFJF KOL acific Bal WBZA WCKY ent Hour WRC WWJ KOA KHQ WOAI WHO WHAM	lad Opera WHAM KYW WFI WSAI KSL WSM WKY WREN	WLAC KLZ KFPY KDKA WGN KFI WMC WSMB WJR	CNRO WJR WGR KSD KGW WSB WBT KWK
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WCAE WOW KOMO WFAA WHAS 9:45-10:15_H WJZ CKGW :00-10:30 WABC WJAS WJAS	KLRA KLRA KFRC WBZ WBZ WBZ WBZ WBZ WEZ WEZ KET WEZ KSTP WEZ WCKY WCKY WEAN WLBW WGHP	KFJF KOL acific Bal WBZA WCKY ent Hour WRC WWJ KOA KHQ WOAI WHO WHAM	lad Opera WHAM KYW WFI WSAI KSL WSM WKY WREN	WLAC KLZ KFPY KDKA WGN KFI WMC WSMB WJR	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WMAL WHAL KOL
KHJ 9:15-9:45 Ca WJZ WJZ WJZ WCAE WOW KOMO WFAA WHAS 9:45-10:15.F WJZ CKGW :00-10:30 WJAS WJAS WIAS	KLRA KLRA WBZ WBZ WBZ WBZ WBZ WBZ WEEN KPO KPO KPO KPRC WDAF Senrod WCKY WIII Rog WCKY WEAN WLBW WLBW WSPD	KFJF KOL acific Bal WBZA WBZA WBZA WWZC WWWJ KOA WHO WHAM WHAM WHAM	lad Oper WHAM KYW WSAI KSL WSAI WSAI WSAI WSAI WCAU WKEW WBBM WBRC	WLAC KLZ KFPY KDKA WGY WGN KFI WMC WSMB WJR WCAO WADC KMOX WLAC	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WRR
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WCAE WOW KOMO WFAA WHAS 9:45-10:15 F WJZ CKGW 00-10:30 WJAS WABC KLZ	KLRA KLRA KFRC WBZ WBZ WBZ WBZ WBZ WEZ WEZ KET WEZ KSTP WEZ WCKY WCKY WEAN WLBW WGHP	KFJF KOL acific Bal WBZA WCKY ent Hour WRC WWJ KOA KHQ WOAI WHO WHAM	lad Opera WHAM KYW WFI WSAI KSL WSM WKY WREN	WLAC KLZ KFPY S KDKA WGY WGN KFI WMC WSMB WJR	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WMAL WHAL KOL
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WCAE WOW WOW WFAA WHAS 9:45-10:15 F WJZ CKGW 00-10:30 WABC CKGW 00-10:30 WABC KMBC KLZ KOL 0: 5-10:45	KLRA KFRC WBZ WREN WEZ WEN WEAN WTAM KSTP KPO KPRC WOAF enrod WCKY Will Rog. WEAN WLBW WGHP WSPD KDYL Studebak	KFJF KOL acific Bal WBZA WBZA WCKY ent Hour WRC WWJ KOA KHQ WOAI WHO WHAM WHAM WHAM WHAM WHAM WHAM WFBL WOWO WWNC KHJ Er Chang	lad Oper: WHAM KYW WSAI KSL WSM WKY WREN WCAU WKBW WBRC KFRC ijons	WLAC KLZ KFPY KDKA WGY WGN KFI WMC WSMB WJR WCAO WADC KMOX WLAC KOIN	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WRR KFPY
KHJ 9:15-9:45 Ca WJZ WJZ WJZ WJZ WEAF WCAE WOW WFAA WHAS 9:45-10:15 F WJZ CKGW :00-10:30 WJAS WJAS WJAS WJAS CKGW :00-10:30 WJAS WJAS WJAS WJAS WJAS WJAS WJAS WJAS	KLRA KFRC WBZ WREN WEEI WTAM KSTP KPC WDAF KPC WDAF WII Rog WCKY WII Rog WCKY WII Rog WCKY WII Studebak	KFJF KOL acific Bal acific Bal acific Bal WCKY WCKY WWJA KOA WWX WWW WWA WHO WHAM WHAM WHAM Prs WNAC WFBL WOMAC WFBL WOWO WWNC KHJ Er Chang	lad Opera WHAM KYW WSAI KSL WSM WKY WREN WCAU WKEW WBBM WBBC KFRC ions WFI	WLAC KLZ KFPY KDKA WGY WGN KFI WMC WSMB WJR WCAO WADC KMOX KMOX	CNRO WJR WGR KSD XGW WSB WBT KWK WMAL WMAL WRR KOIL WRR KFPY WRC
KHJ 9:15-9:45 Ca WJZ WJZ WJZ WEAF WCAE WOW WFAA WHAS 9:45-10:15 F WJZ CKGW :00-10:30 WABC WJAS WAC KMBC KLZ KOL 0: 5-10:45 WEAF WGY	KLRA KFRC WBZ WREN WTAM KSTP KPO KPC WOAF WOAF WOAF WOAF WOAF WOAF KOYL Studebak WGR	KFJF KOL acific Bal acific Bal acific Bal WCKY WCKY WWJA KOA WWX WWW WWA WHO WHAM WHAM WHAM Prs WNAC WFBL WOMAC WFBL WOWO WWNC KHJ Er Chang	lad Oper: WHAM KYW WSAI KSL WSM WKY WREN WCAU WKBW WBRC KFRC	WLAC KLZ KFPY KDKA WGY WGN KFI WMC WSMB WJR WCAO WADC KMOX WLAC KOIN WCSH WWJ	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WHK KOIL WRR KFPY WRC WGN
KHJ 9:15-9:45 Ca WJZ WJZ WJZ WJZ WCAE WOW KOMO WFAA WHAS 9:45-10:15.F WJZ CKGW :00-10:30 WJAS WJAS WJAS WKTC KMBC KLZ KOL 0: 5-10:45 WEAF WGAY KSTP KGW	KLRA KFRC WBZ WREN WTAM KSTP KPO KPC WCKY WIIR Rog WCKY WIIR Rog WCKY Studebak WTIC Studebak WTIC	KFJF KOL acific Bal WBZA WBZA WCKY ent Hour WRC WWJ KOA WWJ WHO WHOM WHOM WHAM WHAM WHAM WHAM WHAM WHAM WHAM WHA	lad Oper: WHAM KYW WSAI KSL WSM WKY WREN WCAU WKBW WBRC KFRC	WLAC KLZ KFPY KDKA WGY WGN KFI WMC WSMB WJR WCAO WADC KMOX KMOX	CNRO WJR WGR KSD XGW WSB WBT KWK WMAL WMAL WRR KOIL WRR KFPY WRC
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WCAE WOW KOMO WFAA WHAS 9:45-10:15 F WJZ CKGW :00-10:30 WJAS WKTC KMBC KLZ KOL 0: 5-10:45 : WEAF WGY KSTP	KLRA KKFRC WBZ WBZ WTAM KFRC WTAM KSTP WEEI WTAM KSTP WCKY WDAF KOYL Studebak WTIC Studebak WTIC WGR WJAR KOMO WFIC	KFJF KOL acific Bal WBZA WCKY WWCK WWCK WWZ KOA KHQ WOAI WHAM WHAM WHAM WHAM WHAM WHAM WFS WOAC KHJ er Champ WCAE WTAG KFI KFI KFI	lad Opera WHAM KYW WSAI KSL WSM WKY WREN WCAU WKEW WBBM WBBC KFRC ions WFI	WLAC KLZ KFPY KDKA WGY WGN WSMB WJR WCAO WADC KMOX WLAC KOIN WCSH WWJ KOA	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WRR KFPY WRC WGO
KHJ 9:15-9:45 Ca WJZ WJZ WEAF WCAE WOW KOMO WFAA WHAS 9:45-10:15_F WJZ CKGW :00-10:30 WJAS WJAS WJAS WJAS KOL 0: 5-10:45 KOL 0: 5-10:45 WGY KSTP KGW WDAF	KLRA KKFRC WBZ WBZ WTAM KFRC WTAM KSTP WEEI WTAM KSTP WCKY WDAF KOYL Studebak WTIC Studebak WTIC WGR WJAR KOMO WFIC	KFJF KOL acific Bal WBZA WCKY WWCK WWCK WWZ KOA KHQ WOAI WHAM WHAM WHAM WHAM WHAM WHAM WFS WOAC KHJ er Champ WCAE WTAG KFI KFI KFI	lad Opera WHAM KYW WFI WSAL KSAL WSM WKSM WKSM WKSM WKEN WKEN WCAU WKEN WBBM WBBC KFRC Sjons WFI WTAM WEAM WHO	WLAC KLZ KFPY KDKA WGY WSMB WJR WSMB WJR WCAO WADC KOIN WCSH WWJ KOA WOA	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WHK KFPY WRC WGN KGO WEEI
KHJ 9:15-9:45 Ca WJZ WJZ WJZ WJZ WEAF WCAE WOW WFAA WHAS 9:45-10:15 F WJZ CKGW :00-10:30 WJAS WKTC KMBC KLZ KOL 0: 5-10:455 WJAS	KLRA KKFRC WBZ WBZ WTAM KFRC WTAM KSTP WEEI WTAM KSTP WCKY WDAF KOYL Studebak WTIC Studebak WTIC WGR WJAR KOMO WFIC	KFJF KOL acific Bal WBZA WCKY WCKY WWZ WWW WWW WWW WHAM WHAM WHAM WHAM WHAM WHAM WHAM WHAM WHAM WHAM WHAM WOWOO WWNC KHJ WOWOO WWNC KHJ WOWOO WWNC KHJ WOWOO WWNC KHJ WOWOO WWNC KHJ WOWOO WWNC KHJ WOWOO WWNC KHJ WOWOO WOWOO WOWOO WOWOO WOWOO WOWOO WOWOO WOWOO WHAM WOA WOA WOA WHAM WHAM WHAM WOA WOA WOA WHAM WHAM WOA WOA WOA WHAM WOA WOA WOA WOA WHAM WOA WOA WOA WOA WHAM WOA WOA WOA WOA WOA WHAM WOA WOA WWNC KHJ WOA WOA WOA WOA WOA WOA WOA WOA	lad Operi WHAM KYW WFI KSL KSL KSL WSM WKY WREN WCAU WKEW WBBM WBBC KFRC Spons WFI WTAM WEBC KHQ	WLAC KLZ KFPY KDKA WGY WGN WSMB WJR WCAO WADC KOIN WCSH WWJ KOA WOW	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WRR KFI'Y WRC WGN KGO WHP WKRC
KHJ 9:15-9:45 Ca WJZ WJZ WEAF WCAE WOW KOMO WFAA WHAS 9:45-10:15.F WJZ CKGW :00-10:30 WABC WJAS WKTC KMBC KLZ KOL 0: 5-10:45 WGAY KSTP KGW WDAF 10:30.1104 KOL 0: 5-10:45 WGY KSTP KGW WDAF 10:30.4104 WABC WJAS	KLRA KFRC WBZ WREN WTAM KSTP KPO KPC WCKY WIIR Rog WCKY WIIR Rog WCKY WIIR Rog WCKY Studebak WTIC Studebak WTIC KOMO WFJC Arabesqu WEAN WLBW	KFJIF KOL acific Bal WBZA WCKY WKC WWJ WWJ WWW KOA WHAM WHAM WHAM WHAM WHAM WFBL WOWO WHAM WFBL WCAE WTAG WTAG WTAG WTAG WTAG WTAG WTAG WTAG	lad Opera WHAM KYW WFI KSL WSM WKSM WKSM WKSM WKSM WKSM WFAM WEBC KHQC WFAM WEBC KHQC WCAO WCAO WCAO WCAO WCAO	WLAC KLZ KFPY KDKA WGY WGN KFI WSMB WJR WCAO WADC KMOX WLAC KOIN WCSH WWJ KOA WOW WMAL WAAL WMAL	CNRO WJR WGR KSD KSD KSD WSB WBT KWS WWST KWS WBT KWAL WHA KGO WGN KGO WEEI WHP WKRC KMOX
KHJ 9:15-9:45 Ca WJZ KWK 9:15-10:15 A WCAE WOW WOW WFAA WHAS 9:45-10:15 F WJZ CKGW 00-10:30 WABC KMBC KLZ KOL 0: 5-10:45 WGY WGY KSTP KGW WDAF 10:30-11:00 WABC KGW WDAF	KLRA KFRC WBZ WREN WTAM KSTP KPO KPC WCKY WIIR Rog WCKY WIIR Rog WCKY WIIR Rog WCKY Studebak WTIC Studebak WTIC KOMO WFJC Arabesqu WEAN WLBW	KFJJF KOL acific Bal WBZA WCKY WKC WWCKY WKC WWAC WHO WHO WHOM WHAM WHAM WHAM WHAM WHAM WHAM WFBL WOWO WWNC KHJ KFI WSAI WTMJ KFI WSAI WFBL WOWAC	lad Opera WHAM KYW WFI KSL WSM WKSM WKSM WKSM WKSM WKSM WFAM WEBC KHQC WFAM WEBC KHQC WCAO WCAO WCAO WCAO WCAO	WLAC KLZ KJZ KDKA WGY WGN WSMB WJR WCAO WADC KOIN WCAO WADC KOA WOW WMAL WMAL	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WHK KGO WEEI WHP WKRC KMOX
KHJ 9:15-9:45 Ca WJZ WJZ WJZ WJZ WCAE WOW WFAA WHAS 9:45-10:15 F WJZ CKGW 00-10:30 WJAS WKTC KMBC KLZ KOL 05-5-10:45 WEAF WGY KSTP KGW WDAF 10:30-11:00, WABC WJAS	KLRA KKFRC WBZ WBZ WTAM KFRC WTAM KSTP WEEI WTAM KSTP WDAF WORY WCKY WCAY WULBW WSPD KDYL WGHP WSPD KDYL KUTIC WGR WJAR KOMO WFJC WJAR KOMO WFJC WJAR KOMO WHI KURA	KFJF KOL acific Bal WBZA WCKY WKC WWZ WWW WWW WHO WHO WHO WHO WHO WHO WHO WHO	lad Opera WHAM KYW WFI WSAL KSAL WSM WKSM WKSM WKSM WKSM WKEN WCAU WKEW WBEM WFI WTAM WHO WHO WCAO WKBW WFBM WIBW	WLAC KLZ KJZ KDKA WGY WGN WSMB WJR WCAO WADC KOIN WCAO WADC KOA WOW WMAL WMAL	CNRO WJR WGR KSD KSD KSD WSB WBT KWS WWST KWS WBT KWAL WHA KGO WGN KGO WEEI WHP WKRC KMOX
KHJ 9:15-9:45 Ca WJZ WJZ WJZ WJZ WCAE WOW WFAA WHAS 9:45-10:15 F WJZ CKGW 00-10:30 WJAS WKTC KMBC KLZ KOL 05-5-10:45 WEAF WGY KSTP KGW WDAF 10:30-11:00, WABC WJAS	KLRA KKFRC WBZ WBZ WTAM KFRC WTAM KSTP WEEI WTAM KSTP WDAF WORY WCKY WCAY WULBW WSPD KDYL WGHP WSPD KDYL KUTIC WGR WJAR KOMO WFJC WJAR KOMO WFJC WJAR KOMO WHI KURA	KFJF KOL acific Bal WBZA WCKY WKC WWZ WWW KOA WWW WWW WHO WHO WHO WHO WHO WOWO WWNC KHJ WOWO WWNC KHJ WOWO WWNC KFI WSAI WOWO WISN WOBJ KLZ Seth Pa	lad Opera WHAM KYW WFI WSSI KSSI WSM WKSM WREN WCAU WKEN WCAU WKBW WBRC KHQ WHO WCAO WHO WCAO WHO WCAO WHO WCAO KDYL rker's	WLAC KLZ KFPY KDKA WGN KFI WMC WSMB WJR WADC KOIN WCSAO WADC KOIN WCSH WWJ KOA WOW WMAL WMAL WFIW KFPY	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WHK KGO WGN KGO WEEI WHP WKRC KMOX WBCM WDOD
KHJ 9:15-9:45 Ca WJZ WJZ WJZ WJZ WCAE WOW WFAA WHAS 9:45-10:15 F WJZ CKGW 00-10:30 WJAS WKTC KMBC KLZ KOL 05-5-10:45 WEAF WGY KSTP KGW WDAF 10:30-11:00, WABC WJAS	KLRA KKFRC WBZ WBZ WTAM KFRC WTAM KSTP WEEI WTAM KSTP WDAF WORY WCKY WCAY WULBW WSPD KDYL WGHP WSPD KDYL KUTIC WGR WJAR KOMO WFJC WJAR KOMO WFJC WJAR KOMO WHI KURA	KFJF KOL acific Bal WBZA WCKY WKC WWZ WWW KOA WWW WWW WHO WHO WHO WHO WHO WOWO WWNC KHJ WOWO WWNC KHJ WOWO WWNC KFI WSAI WOWO WISN WOBJ KLZ Seth Pa	lad Operi WHAM KYW WFI WSSI KSSI WSM WKSW WREN WCAU WREN WKBW WBBM WBBM WBBM WFI WTAM WFI WHO WCAO WKBW WBRC KHRQ WHO WCAO WKBW WHO WHO WHO WHO WHO WHO WHO WHO WHO WH	WLAC KLZ KLZ KDKA WGY WGN KFI WMC WSMB WJR WCAO WADC KMOX WLAC KOIN WCSH WWJ KOA WOW WMAL WADC WMAQ KFH WFIW KFH WFIW	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WHK KGO WGN KGO WEEI WHP WKRC KMOX WBCM WDOD
KHJ 9:15-9:45 Ca WJZ WJZ WEAF WCAE WOW KOMO WFAA WHAS 9:45-10:15 F CKGW :00-10:30 WAS WJAS WKTC KMBC KLZ KOL 0: 5-10:45 WGAY KSTP KGW WDAF 10:30-11:00 WABC WJAS WGAY KOL 0: 5-10:45 WEAF WDAF 10:30-11:00 WASC WJAS WGAP KOH WASC WJAS WGAP KOH WASC WASC WASC WASC WASC WASC WASC WASC	KLRA KFRC WBZ WREN WTAM KSTP KPO KPO WCKY WIII Rose WCKY WIII Rose WCKY WIII Rose WCKY WIII Rose WCKY Studebak WSPD KDYL Studebak WSPO KDYL Studebak WSPO KOMO WFJC WAR KOMO WFJC WMT KLRA Sunday a WCAE WFJC WIOD	KFJJF KOL acific Bal WBZA WCKY WWJ WWW WWW WWW WWW WWW WOAI WHOA WHAM WFBL WOWO WFBL WCAE WTAG WFBL WCAE WTAG WFBL WCAE WTASI WSAI WSAI WOAC WFBL WSAI WOAC	lad Operi WHAM KYW WFI KSL WSM WKSM WKSM WKSM WKSM WKSM WKSM WKSM	WLAC KLZ KLZ KFPY WGN KFI WMC WSMB WJR WCAO WADC KMOX WLAC KOIN WCAO WADC KOA WOW WMAL WADC WAQ KFPY WOW	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WRR KFPY WGN KGO WHP WKRC KMOX WBCM WHP WKRC KMOX WBCM
KHJ 9:15-9:45 Ca WJZ WJZ WEAF WCAE WOW KOMO WFAA WHAS 9:45-10:15 F CKGW :00-10:30 WAS WJAS WKTC KMBC KLZ KOL 0: 5-10:45 WGAY KSTP KGW WDAF 10:30-11:00 WABC WJAS WGAY KOL 0: 5-10:45 WEAF WDAF 10:30-11:00 WASC WJAS WGAP KOH WASC WJAS WGAP KOH WASC WASC WASC WASC WASC WASC WASC WASC	KLRA KFRC WBZ WREN WTAM KSTP KPO KPO WCKY WIII Rose WCKY WIII Rose WCKY WIII Rose WCKY WIII Rose WCKY Studebak WSPD KDYL Studebak WSPO KDYL Studebak WSPO KOMO WFJC WAR KOMO WFJC WMT KLRA Sunday a WCAE WFJC WIOD	KFJJF KOL acific Bal WBZA WCKY WWJ WWW KOA KHQ WOAI WHOA WHAM WHAM WHAM WFBL WOWO WFBL WCAE WTAG WFBL WCAE WTAG WFBL WCAE WTASI WSAI WSAI WOAC	lad Operi WHAM KYW WFI KSL WSM WKSW WREN WREN WREN WREN WFA WBBM WBBM WBBM WBBM WFA WFA WFA WFA WFA WFA WHO WCAO WKBW WBRC KHRC	WLAC KLZ KLZ KDKA WGY KKFI WMC WSMB WJR WCAO WADC KMAD KOIN WCSH WWJ KOA WOW WMAL WAQ KFFH WFIW KFFW WOW KOA WMC	CNRO WJR WGR KSD KGW WBT KWK WMAL WHK KOL WHK KGO WGN KGO WEEI WHP WKRC KMOX WDOD WKY KGO WSB
KHJ 9:15-9:45 Ca WJZ WJZ WJZ WJZ WCAE WOW WFAA WHAS 9:45-10:15 F WJZ CKGW 00-10:30 WJAS WKTC KMBC KLZ KOL 05-5-10:45 WEAF WGY KSTP KGW WDAF 10:30-11:00, WABC WJAS	KLRA KFRC WBZ WREN WTAM KSTP KPO KPO WCKY WIII Rose WCKY WIII Rose WCKY WIII Rose WCKY WIII Rose WCKY Studebak WSPD KDYL Studebak WSPO KDYL Studebak WSPO KOMO WFJC WAR KOMO WFJC WMT KLRA Sunday a WCAE WFJC WIOD	KFJJF KOL acific Bal WBZA WCKY WWJ WWW KOA KHQ WOAI WHOA WHAM WHAM WHAM WFBL WOWO WFBL WCAE WTAG WFBL WCAE WTAG WFBL WCAE WTASI WSAI WSAI WOAC	lad Operi WHAM KYW WFI KSL WSM WKSM WKSM WKSM WKSM WKSM WKSM WKSM	WLAC KLZ KLZ KFPY WGN KFI WMC WSMB WJR WCAO WADC KMOX WLAC KOIN WCAO WADC KOA WOW WMAL WADC WAQ KFPY WOW	CNRO WJR WGR KSD KGW WSB WBT KWK WMAL WHK KOIL WRR KFPY WGN KGO WHP WKRC KMOX WBCM WHP WKRC KMOX WBCM

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WBCM KLRA	WSPD KFPY	WDBJ WHK	WFIW	WDOD	WREC
11:15-11:45 WEAF KSTP	Russian (WJAX WRC	Cathedral WWJ WGR	Choir WOW WMC	WBAP WHO	WGY
		Mone	dav		
11:15-11:30		Arthur Ca	nner		
WABC WJAS WIBW WDOD	WEAN WLBW WBCM WREC	WNAC WFBL WSPD KLRA	WLBZ WMAK WWNC KDYL	WCAO WGHP WDBJ KVI	WMAL KMBC WFIW KFPY
WABC WHP WKBN WFIW KFRC	Children' WEAN WJAS KMBC WDOD KVI	WNAC WLBW WBCM WREC KFPY	WLBZ WFBL WMT KLRA	WCAO WMAK WWNC KLZ	WMAL WGHP WDBJ KHJ
WHP WKBN WDOD	Your Die WEAN WJAS WBCM WREC Te Honolu	WLBW WMT KLRA	WLBZ WFBL WWNC KVI	WCAO WMAK WDBJ KFPY	WMAL WGHP WFIW
2:00-2:30 TH WABC WJAS WFBM WMT WLAC 2:30-3:00 Ar	WLBZ WFBL WBBM WWNC KLRA	WFAN WMAK KOIL WDBJ	WISN WBRC KDYL	WMAL WGHP WBCM WDOD KHJ	WHP WKBN WSPD WREC KFPY
WABC WMAL WHK WBBM WBCM WDOD KHJ	WEAN WHP WKRC KOIL WSPD WREC KVI	WNAC WJAS WGHP KMBC WMT WLAC KFPY	WWNC KLRA	WCAU WMAK WOWO WIBW WDBJ KLZ	WCAO WADC WFBM KFH WBRC KDYL
3:45-4:00 "(WJZ WHAS 4:00-5:00 U.	Gardening KDKA WSM	y for Reci WJR WJAX	KYW WPTF	KWK WRC	KSTP WMC
		e Band	KWK	WCFL	WRC
4:15-5:00 Pa WEAF KSD	KOA WIBO		KGW KSTP	WDAF WSM	WAPI WHO
5:00-5:30 De WABC WMAK WISN WDOD	WFAN WKRC WGL WREC	RLKA	WMAL WKBN WBCM KLZ	WНР КМОХ WMT	WFBL KMBC WWNC
6:00-6:30 Ha WABC WKBN WMT KLBA	WHP WBBM WDBJ KLZ	KMBC WBRC KVI	is Orches WFBL WGL WFIW KFPY Choir	WMAK KFH WDOD	WADC WBCM WREC
6:00-6:30 M WJZ KGO WREN	KOMO	wsm KFAB WIBO	KWK WAPI KGW	KOA KDKA KPO	KSL KSTP WLW
6:30-7:00 Yo WCAU WKRC WGL WFIW	WGHP KFH	WFBM	Orchestra WJAS KOIL WWNC KLZ	WLBW KMBC WDBJ KVI	WMAK WISN WBRC KFPY
7:15-7:30 TH WEAF WWJ WSMB	WOAI	Today WCSH KSD WJDX	WFI WEBC KSTP	WRC WBT	WCAE WSB
7:30-8:00 Be WABC WHK WBCM WDOD KFPY	WLBZ WGHP WMT WREC	evitow's WHP WFBM WWNC WLAC	Ensemble WJAS KMBC WDBJ KLRA	WLBW WISN WBRC KLZ	WFBL WIBW WFIW KVI
7:30-8:00 Ro WJZ WSB	WSM	WSMB	WBZA WPTF	WHAM WIBO	KWK WJDX
7:30-8:00 Co WEAF WGY	WEEI	acon Ligi WJAR	WTAG	WCSH	WGR
8:00-8:30 H WABC WJAS	enry-Geo WEAN WLBW	rge WNAC WFBL	WCAU WMAK	WCAO WADC	WMAL WHK

WKRC KMBC	WGHP WISN	WFBM WCCO	WMAQ WGL	KMOX KFH	KOIL WSPD
8:00-8:30 Vo	ice of Fir	estone			
WEAF WLIT	WEEI WRC	WTIC WGY	WJAR WGR	WTAG WCAE	WCSH WWJ
WSAI KTHS	KSD WSMB	WOC KSTP	WOW WTMJ	WDAF	WIOD
WHAM KVOO	WSM KPRC	WMC WOAI	WSB	WEBC WBT	WJAX WRVA WTAM
KVOO WFAA	KPRC WJDX	WOAI CKGW	WKY KYW	WFJC WPTF	WTAM
8-30-9:00 In:	eram Sha	Vers			WILLO
WJZ WJR	WBZ WLW	WBZA WREN	WHAM KDKA	KWK KYW	WHAS WIOD
WRVA	WJAX KFAB WTMJ	WMC WBT	WSB WEBC	WKY WSM	KTHS WSMB
KPRC WOAI	WTMJ	KOA	11 11 00		
8:30-9:00 Ce WABC	WEAN	WNAC	WCAU	WCAO	WMAL WHK
WABC WJAS WKRC	WEAN WLBW WGHP	WNAC WFBL WFBM	WMAK WMAQ	WADC KMOX	WHK KOIL
KMBC		WSPD	11 III II V	itinto.t	ROLD
8:30-9:30 A. WEAF	& P. Gy WEEI WRC	WTIC WGY	WJAR	WTAG	WCSH
WLIT WSAI	WRC WGN	WGY KSD	WGR WOC	WCAE WDAF	WWJ WTAM
9:00-9:30 M	aytag Or	chaetra			
9:00-9:30 M WJZ KYW	WBZ KWK	WBZA WREN	WHAM KSTP	KDKA WEBC	WSM
WMC KPRC	WSB WOAI	WBZA WREN WSMB KOA	KVOO KSL	WEBC WKY WCKY	WJR WSM KTHS WJDX
KGO	KECA	KGW	$\rm KHQ$	комо	WIDA
9:00-9:30 PH WABC	wEAN	ulture Ma WNAC	gazine H WCAU	WCAO	WMAL
WABC WJAS WKRC	WEAN WLBW WGHP	WNAC WFBL WMAQ	WCAU WMAK KMOX	WCAO WADC KOIL	WMAL WHK
9:30-10:00 C	hesebrou	wMAQ gh Real I WBZA	Folks		KMBC
K V W	147 I 147	WIR	CKGW	KDKA WREN	KWK
9:30-10:00 C WEAF WLIT WWJ	General N	lotors Fa	mily Part WJAR WGR	ywoon	WTAC
WEAF WLIT	WEEL	WTIM WGY	WGR	WCSH WCAE	WTAG WTAM
337387 T					WDAD
WWJ	WGN	WTMI	WOC	WOW	WDAF
KSTP WSB	WBT	WTMJ WJAX	WOC WHAS WFAA	WSM KPRC	W DAF WMC WOAI
WSB WKY 9-30-10-00 A	WBT KOA	WJAX KSL w in Pari	WHAS WFAA KGO s	WSM KPRC KFI	WMC WOAI KGW
WSB WKY 9-30-10-00 A	WBT KOA	WJAX KSL w in Pari	WHAS WFAA KGO SWCAU	WSM KPRC KFI WCAO	WMC WOAI KGW
WSB WKY 9:30-10:00 A WABC WJAS WHK	WBAI WBT KOA MEVENIT WEAN WLBW WKRC	WIMJ WJAX KSL g in Pari WNAC WFBL WGHP	WHAS WFAA KGO s	WSM KPRC KFI	WDAF WMC WOAI KGW WMAL WADC KMOX
WSB WKY 9:30-10:00 A WABC WJAS WHK KOIL	WBAI WBT KOA MEVENIN WEAN WLBW WKRC KMBC	WIMJ WJAX KSL g in Pari WNAC WFBL WGHP WSPD	WHAS WFAA KGO ⁸ WCAU WMAK WOWO	WSM KPRC KFI WCAO CFRB WMAQ	WMC WOAI KGW WMAL WADC KMOX
WSB WKY 9:30-10:00 A WABC WJAS WHK KOIL	WBAI WBT KOA MEVENIN WEAN WLBW WKRC KMBC	WIMJ WJAX KSL og in Pari WNAC WFBL WGHP WSPD og-Carlson WBZA	WHAS WFAA KGO WCAU WMAK WOWO Program	WSM KPRC KFI WCAO CFRB WMAQ	WMC WOAI KGW WMAL WADC KMOX
KS11 WSB WKY 9:30-10:00 A WABC WJAS WHK KOIL 10:00-10:30 WJZ KYW WBT	WSAI WBT KOA MEvenir WEAN WLBW WKRC Stromber WBZ WWK	WIMJ WJAX KSL og in Pari WNAC WFBL WGHP WSPD og-Carlson WBZA	WHAS WFAA KGO WCAU WMAK WOWO Program	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC	WMC WOAI KGW WMAL WADC KMOX
KS11 WSB WKY 9:30-10:00 A WABC WJAS WHK KOIL 10:00-10:30 WJZ KYW WBT	WSAI WBT KOA MEvenir WEAN WLBW WKRC Stromber WBZ WWK	WIAX WJAX KSL g in Pari WFBL WGHP WSPD g-Carlson WBZA WREN WIOD WSMB KOA	WHAS WFAA KGO ^s WCAU WMAK WOWO Program WHAM WTMJ WHAS WKY KGO	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC	WMC WOAI KGW
NS1F WSB WKY 9:30-10:00 A WABC WJAS WHK KOIL 10:00-10:30 WJZ KYW WBT WSB KPRC VHO	WSAI WBT KOA MEVENI WEAN WLBW WKRC Strombel WBZ KWK WJAX WAPI WOAI	WIND WJAX KSL g in Pari WNAC WFBL WGHP WSPD WBZA WREN WIOD WSMB KOA	WHAS WFAA KGO WCAU WMAK WOWO Program WHAM WTMJ WHAS WKY KGO VSTD	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI	WMC WOAI KGW WADC KMOX WJR WRVA WMC WBAP
NS1F WSB WKY 9:30-10:00 A WABC WJAS WHK KOIL 10:00-10:30 WJZ KYW WBT WSB KPRC VHO	WSAI WBT KOA MEVENI WEAN WLBW WKRC Strombel WBZ KWK WJAX WAPI WOAI	WIND WJAX KSL g in Pari WNAC WFBL WGHP WSPD WBZA WREN WIOD WSMB KOA	WHAS WFAA KGO WCAU WMAK WOWO Program WHAM WTMJ WHAS WKY KGO VSTD	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI	WMC WOAI KGW WADC KMOX WJR WRVA WMC WBAP
K311 WSB WKY 9:30-10:00 A WABC WJAS WHK KOIL 10:00-10:30 WJZ KYW WBT WSB KPRC KHQ 10:00-10:30 WEAT WGY	WBAI WBT KOA MEAN WEAN WLBW WKRC KMBC Strombei WBZ KWK WJAX WOAI KOMO The Fam WJAR WJAR	WIND WJAX KSL g in Pari WNAC WFBL WGHP WSPD WBZA WREN WIOD WSMB KOA	WHAS WFAA KGO WCAU WMAK WOWO Program WHAM WTMJ WHAS WKY KGO VSTD	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI	WMC WOAI KGW WMAL WMADC KMOX WJR WRVA WMC WBAP KGW WOC
K311 WSB WKY 9:30-10:00 A WABC WJAS WHK KOIL 10:00-10:30 WJZ KYW WBT WSB KPRC KHQ 10:00-10:30 WEAT WGY	WBAI WBT KOA MEAN WEAN WLBW WKRC KMBC Strombei WBZ KWK WJAX WOAI KOMO The Fam WJAR WJAR	WIND WJAX KSL g in Pari WNAC WFBL WGHP WSPD WBZA WREN WIOD WSMB KOA	WHAS WFAA KGO WCAU WMAK WOWO Program WHAM WTMJ WHAS WKY KGO VSTD	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI	WMC WOAI KGW WMAL WMADC KMOX WJR WRVA WMC WBAP KGW WOC
K311 WSB WKY 9:30-10:00 A WJAS WHK K0IL 10:00-10:30 WJZ KYW WBT WSB KPRC KHQ 10:00-10:30 WES KPRC KHQ 10:00-10:30 WABC WJAS WKRC	WBAI WBT KOA WEAN WEAN WKRC Strombet WBZ KWK WJAN WOAI KOMO The Fam WJAR WGR Robert B WEAN WLBW WGH	W 1MD WJAX KSL ig in Pari WNAC WFBL WSPD WSPD WSPD WBZA WREN WIOD WSMB KOA WJJX iJ Goes WTAG WTAG WTAG WTAG WMAC WFBL WGWO	WIIAS WFAA KGO ^S WCAU WMAK WOWO Program WHAM WTMJ WHAS WHAS KST WHAS KST Abroad WCSH KSD WCAU WCAU WCAU	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI	WMC WOAI KGW WMAL WADC KMOX WJR WRVA WMC WBAP KGW
K311 WSB WKY 9:30-10:00 A WABC WJAS WHK KOIL 10:00-10:30 WJZ KYW WBT WSB KPRC KHQ 10:00-10:30 WEAF WGY 10:00-10:30 WABC WJAS WKRC KOIL 10:30-11:00	WBAI WBT KOA IN Evenir WEAN WLBW WKRC KMBC Strombet WBZ KWK WJAX WAPI WOAI KOMO The Fam WGR WGR WGR WEAN WLBW WGHP	W 1MJ WJAX KSL KSL WSPL WSPD WSPD WSPD WBZA WREN WIOD WSMB KOA WJDX ily Goes WJDX WJDX WJDX WJDX WJC WSPD WSPD WSPD	WIIAS WFAA KGO * WCAU WMAK WOWO WHAM WHAM WHAM WHAS WKY KGO KSTP Abroad WCSH KSD Jatela Pro WCAU WMAK WFBM	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WFJC grem WCAO WADQ	WMA WOAI KGW WMAL WADC KMOX WJR WRVA WMC WBAP KGW WOC WMAL WMAL WMAL
K31F WSB WKY 9:30-10:00 A WABC WABC WJAS WHK K01L 0:00-10:30 WJZ 10:00-10:30 WEAF WGY 10:00-10:30 WABC WJAS WKRC K01L 10:30-11:00	WBAI WBT KOA WEAN WEAN WLBW WKRCC KMBC Strombeu WBZ KWK WJAX WOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI WGR WEAN WCAN WCAN WCAN WCAN WCAN WCAN WCAN WC	W 1MJ WJAX KSL wJAX WFBL WSPD "g-Carlson WBZA WREN WSPD WSPD WSMB KOA WJDX WJDX WJDX WJDX WJDX WJDX WJD WSPD WFBL WOWO WSPD builders WWRZA	WIIAS WFAA KGO * WCAU WMAK WOWO Program WHAM WHAM WHAS WKT KGO KST * Abroad WCSH KSD WCAU WCSH KSD WCAU WMAK WMAK	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WFJC WADC WADC WADC	WMC WOAI KGW WMAL WADC KMOX WJR WRVA WMC WBAP KGW WOC WMAL WHK KMOX WIR
K311 WSB WKY 9:30-10:00 A WJZ K10:00-10:30 WJZ KYW WBT WSB KPRC KHQ 10:00-10:30 WAS WGY 10:00-10:30 WAS WGY 10:00-10:30 WAS WGY 10:00-10:30 WJZ KYW WZ KYW	WBAI WBT KOA WEAN WEAN WLBW WKRCC KMBC Strombeu WBZ KWK WJAX WOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI KOMOAI WGR WEAN WCAN WCAN WCAN WCAN WCAN WCAN WCAN WC	W 1MJ WJAX KSL wJAX WFBL WSPD "g-Carlson WBZA WREN WSPD WSPD WSMB KOA WJDX WJDX WJDX WJDX WJDX WJDX WJD WSPD WFBL WOWO WSPD builders WWRZA	WIIAS WFAA KGO * WCAU WMAK WOWO Program WHAM WTMJ WHAS KSTI WCAU WCAU WCAU WCAU WCAU WCAU WCAU WCAU	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WFJC WFJC WFJC WADC WAAQ KDKA KSTJ ⁺ WOAI	WMC WOAI KGW WMAL WADC KMOX WJR WRVA WMC WBAP KGW WOC WMAL WHK KMOX WIR
K311 WSB WKY 9:30-10:00 A WJZ KVJAS WHK KOIL 10:00-10:30 WJZ KYW WBT 10:00-10:30 WABC WGY 10:00-10:30 WABC WJZ KVW WJZ KYW WEBC KSL	WBAI WBT KOA WBC WBC WBC WKRC KMRC KMRC KWK WJAX WAPI WOAI KOMO The Fam WJAR WGAN WJAR WGAN WJAR WGAN WCHP KMBC Empire E WBZ KWK WCHY KWKY	WIAD WJAX KSL WJAX KSL WJAC WFBL WFBL WFBL WFBL WAC WHOD WSMB KOA WJDX WJDX WJDX WJAC WTAG WTAG WTAG WFBL WOWO WFBL WFBL WFBL WFBL WFAA WFAA WFAA	WHAS WFAA KGO WCAU WMAK WOAU WHAM WTMJ WHAS WKAY KGO KSTP Abroad WCSH KSD Salela Pro WCAU WCAU WMAK WHAM WHAM WHAM WHAM	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WFJC WADC WADC WADC	WMA WOAI KGW WMAL WADC KMOX WJR WRVA WMC WBAP KGW WOC WMAL WMAL WMAL
K311 WSB WKY 9:30-10:00 A WJZ KVJAS WHK KOIL 10:00-10:30 WJZ KYW WBT 10:00-10:30 WABC WGY 10:00-10:30 WABC WJZ KVW WJZ KYW WEBC KSL	WBAI WBT KOA WBC WBC WBC WKRC KMRC KMRC KWK WJAX WAPI WOAI KOMO The Fam WJAR WGAN WJAR WGAN WJAR WGAN WCHP KMBC Empire E WBZ KWK WCHY KWKY	WIAD WJAX KSL WJAX KSL WJAC WFBL WFBL WFBL WFBL WAC WHOD WSMB KOA WJDX WJDX WJDX WJAC WTAG WTAG WTAG WFBL WOWO WFBL WFBL WFBL WFBL WFAA WFAA WFAA	WHAS WFAA KGO WCAU WMAK WOAU WHAM WTMJ WHAS WKAY KGO KSTP Abroad WCSH KSD Salela Pro WCAU WCAU WMAK WHAM WHAM WHAM WHAM	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSAC WFJC WFJC WFJC WFJC WFJC WADC WADC WADC WAAQ WAAQ WAAQ WAAQ WAAQ WAAQ WAAQ WAA	WMC WOAI KGW WMAL WADC KMOX WJR WMC WMAC WMAL WOC WMAL WJR WLW KOA KGW
K311 WSB WKY 9:30-10:00 WJAS WHK KOIL 10:00-10:30 WJZ KYW WBT 10:00-10:30 WABC WGY 10:00-10:30 WABC WJAS WKRC KOIL 10:30-11:00 WJZ KYW WEBC KSL 10:30-11:00 WABC WHP WADC	WBAI WBT KOA WEAN WEAN WEAN WKRC KMBC Strombet WBZ KWAX WJAX WJAX WAPI WOAI KOMO The Fam WCAN WJAR WGR Robert B Robert B WEAN WLBW WGAN WLBW WGAN WLBW WGH KMBC Gold Strie WHX	WIAD WJAX KSL gg in Pari WFBL WFBL WFBL WFBL WFBL WFBL WREN WIOD WSMB WSMB WSMB WSMB WSMB WSMB WFBL WOWO WFBL WOWO WFBL WSPD Soilders WFBL WSPD Soilders WFBL WFA WFA WFA WFA WFA WFA WFA WFA WFA WFA	WIIAS WFAA KGO * WCAU WMAK WOWO Program WHAM WTMJ WHAS KSTI WCAU WCAU WCAU WCAU WHAM WTMJ KPRC KOMO * ********************************	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WFJC WFJC WFJC WFJC WADC WADC WADC WADC WADC WADC WADC WAD	WMC WOAI KGW WAAL WADC KMOX WJR WMC WMC WMC WMC WMC WMC WMC WMAL WHK KMOX WJR WLW KOA KGW WMAL WMAL WMAL
K311 WSB WKY 9:30-10:30 WABC WJZ K10:00-10:30 WJZ KYW WBT 10:00-10:30 WEAF WSB KPRC KHQ 10:00-10:30 WEAF WGY 10:00-10:30 WABC KOIL 10:30-11:00 WJZ KYW WEEL SSL 10:30-11:00 WABC KSL	WBAI WBT KOA WBT WBT WBZ KWK WJAX WAPI WOAI KOMO The Fam WJAR WGAN WJAR WGAN WJAR WCAN WCHP KMBC Empire E WBZ KWK WLBW WCHP KMBC Sold Stra WEAN WLBW WJAS	WIMJ WJAX KSL WJAX KSL WFBL WFBL WFBL WFBL WFBL WAFA WIOD WSMB KOA WJDX WIOD WSMB WAC WFBL WOWO WTAG WFBL WOWO WFAA KFI WNAC WFAA KFI WNAC	WHAS WFAA KGO WCAU WMAK WMAK WMAK WHAM WHAM WHAM WHAM WKY WCAU WCAU WMAK WFBM WHAM WHAM WHAM WHAM WHAM WHAM WTMJ KPRC KOMO ders WGAU	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WFJC WFJC WFJC WFJC WADC WADC WADC WADC WADC WADC WADC WAD	WMC WOAI KGW WAAL WADC KMOX WJR WMC WMC WMC WMC WMC WMC WMC WMC WMAL WJR WJR WHK KOA KGW WJR WJR WHK KOA KGW WMAL
K31F WSB WKY 9:30-10:30 WABC WJAS WHK KOIL 10:00-10:30 WJZ WSB KPRC KHQ 10:00-10:30 WEAF WGY 10:00-10:30 WABC WJAS WKRC KOIL 10:30-11:00 WJZ KYW WEBC KSL 10:30-11:00 WABC KSL	WBAI WBT KOA WBT WBT WBZ KWK WJAX WAPI WOAI KOMO The Fam WJAR WGAN WJAR WGAN WJAR WCAN WCHP KMBC Empire E WBZ KWK WLBW WCHP KMBC Sold Stra WEAN WLBW WJAS	WIAD WJAX KSL WJAX KSL WJAX WFBL WFBL WFBL WFBL WREN WIOD WSMB KOA WJDX WJAC WFBL WOWO WWJJ WFBL WOWO WFJA WFAA KFI MCCuss WFAA KFI WNAC WSPD WRAA WFAA KFI WNAC WLBW WKRC KOIL WWNC	WIIAS WFAA KGO * WCAU WMAK WOWO Program WHAM WTMJ WHAS WHAS WHAS WCAU WCAU WCAU WCAU WCAU WCAU WCAU WCAU	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WFJC WFJC WFJC WFJC WFJC WFJC WFJC WFJ	WMC WOAI KGW WAAL WADC KMOX WJR WMC WMC WMC WMC WMC WMC WMC WMC WMAL WJR WJR WHK KOA KGW WJR WJR WHK KOA KGW WMAL
K311 WSB WKY 9:30-10:00 A WABC WABC WJAS WHK KOIL 10:00-10:30 WJAS WSB KPRC KHQ 0:00-10:30 WABC WJAS WKRC KOIL 10:30-11:00 WABC WJAS WKRC KOIL 10:30-11:00 WABC WABC WABC WAPC KOIL	WBAI WBT KOA WBT WEAN WLBW WKRC KMRC KWK WJAX WAPI KOAI KOIN WJAX WAPI KUAX WAPI KUAX WAPI KOI KOIN WIAX WEAN WIAX WAI KOIN	WIAJ WJAX KSL WJAX KSL WJAX WFBL WFBL WFBL WFBL WFBL WFBL WFBL WSMB WSMB WSMB WSMB WSMD WSMD WSPD WSA WFBL WOWO WFBL WOWO WFBL WSFI WSFI WSFI WSFI WSFI WSFI WSFI WSFI	WHAS WFAA KGO WCAU WMAK WMAK WMAK WHAM WHAM WHAM WHAM WKY WCAU WCAU WMAK WFBM WHAM WHAM WHAM WHAM WHAM WHAM WTMJ KPRC KOMO ders WGAU	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WFJC WFJC WFJC WFJC WADC WADC WADC WADC WADC WADC WADC WAD	WMC WOAI KGW WMAL WADC KMOX WJR WMC WMAL WMC WMAL WMAL WMAL WMAL WMAL WMAL WMAL
K31F WSB WKY 9:30-10:30 WABC WJAS WHK KOIL 10:00-10:30 WJZ KYW WBT WSB KFRC KHQ 10:00-10:30 WEAF WGY 10:00-10:30 WABC WASC WASC KOIL 10:30-11:00 WJZ KYW WEEK KSL 10:30-11:00 WASC KSL 10:30-11:00 WASC KFIF KOL KFIF KOL KFIF KOL KOL KFIF 11:00,11:30	WBAI WBT KOA WBT WBT WBT WKRC KMK WKRC KMK WKRC WBA KWK WJAX WJAX WJAX WJAX WJAX WJAX WJAX WJAX	WIMJ WJAX KSL WJAX KSL WJAC WFBL WFBL WFBL WFBL WFBL WOD WSMB KOA WJDX WJDX WJDX WJDX WJDX WJDX WJDX WJDX	WHAS WFAA KGO WCAU WMAK WOWAK WMAK WHAM WTMJ WHAS WKAY KGO KSTP Abroad WCAU WCAU WCAU WMAK WFBM WHAM WTMJ KPRC KOMO ders WFAL WGHP KMBCC WGLU	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WSM WCAO WADQ WADQ WADQ WADQ WADQ WADQ WAQ WAQ WAQ WAQ WAQ WAQ WAQ WAQ WAQ WA	WMC WOAI KGW WAAL WADC KMOX WJR WMC WMC WMC WMC WMC WMC WMAL WMAL WMAL WMAL WMAL
K311 WSB WKY 9:30-10:30 WABC WJAS WHK KOIL 10:00-10:30 WJZ WSB KPRC KHQ 10:00-10:30 WEAF WGY 10:00-10:30 WABC WJZ KYW WESE KOIL 10:30-11:00 WJZ KYW WESE KSL 10:30-11:00 WABC WHP WADC KFJF KOL 11:00-11:30 WABC	WBAI WBT KOA WBT WEAN WKRC KMBC Strombel WBZ KWK WJAX WJAX WJAX WJAX WJAX WJAX WJAX WJAX	WIAD WJAX KSL WJAX KSL WJAX WGHP WSPD WSPD WSPD WSPD WSPD WSPD WSPD WSP	WIIAS WFAA KGO WCAU WMAK WOWO WOWO WHAM WTMJ WHAS WKA WCSH KSD WCSH KSD Satela Pro WCAU WMAK WFBM WHAM WTMJ KPRC KOMO WFBL WGHP KMBCC WFAL WGHP KMBCC WFAL WFBL WGHP KMBCC WTAR	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WSM WCAO WADC WADC WADC WADC WADC WADC WADC WADC	WMC WOAI KGW WMAL WADC KMOX WJR WMC WMAL WMC WMAL WMAL WMAL WMAL WMAL WMAL WMAL WMAL
K311 WSB WKY 9:30-10:00 A WABC WABC WABC WJAS WHK K01L 0:00-10:30 WJAS WSB KPRC KHQ 0:00-10:30 WABC WJAS WKRC K01L 10:30-11:30 WABC WABC WABC WABC WABC WABC WABC WABC	WBAI WBT KOA WBT WEAN WLBW WKRC KMBC Strombel WBZ KWK WJAX WAPI KWA WADI KOAI KOIN WJAS WHEAN WJAS WHZ KMBC KMBC KMBC KMBC KMBC KMBC KMBC KMBC	WIAD WJAX KSL WJAX KSL WJAX WGHP WSPD g-Carlso WFBL WSPD WSPD WSPD WHOD WSMB KOA WJOD WSMB WJOD WWJ WWJ WWJ WSPD WJAC WSPD WSPD WSPD WSPD WSPD WSPD WSPD WSPD	WIIAS WFAA KGO WCAU WMAK WOWO Program WHAM WTMJ WHAS WKAY KGD WCAU WCAU WCAU WCAU WCAU WFBL WCAU WFBL WCAU WFBL WCAU WFBL WCAU	WSM KPRC KFI WCAO CFRB WMAQ KDKA WEBC WSM KTHS KFI WRC WFJC WFJC WFJC WFJC WADC WADC WADC WADC WADC WALC WALC WALC WALC WALC WOAO WIEC WOAO WIEL WOAO WIEL WOAO WIEL WOAO WIEL WCAO	WMC WOAI KGW WAAL WADC KMOX WJR WMC WMC WMC WMC WMC WMC WMAL WMAL WMAL WMAL WMAL

[26]

WWNC WDBJ WFIW WDOD WREC KLRA KLZ KDYL KFPY

11:30-12:00	Roy Ingra		aramount	Orchestr	а
WABC	WEAN	WCAO	WMAL		WFBL
WKBW	WADC	WGHP	WKBN	WOWO	WFBM
KOIL	KMBC	WISN	WIBW	KFH	WBCM
WSPD	WMT	WWNC	WDBJ	WBRC	WFIW
WDOD	WREC	KLRA	KLZ	KDYL	KFPY
11:45-12:00					
KWK	WENR	WREN	KFAB	KSTP	WEBC
WTMJ	WHAS	WSM	WMC	WSB	WJDX
WAPI	WSMB	KPRC	WFAA	WOAI	WKY

Tuesday

		Tues	uay		
9:30-9:45 U WABC WGHP WSPD WREC	WMAL WBBM WWNC WLAC	WHP KMOX WDBJ KLRA	WLBW	WFBL WGL WFIW	WKBW WBCM WDOD
11:00-11:15 WEAF WSM WSAI WHAS	WRC KSTP WEBC WKY	WOC WJAR WPTF KTHS	WGY WTAG WBT	WWJ WCSH WJAX	KSD WCAE WIOD
11:00-11:15 WABC WJAS WKRC KOIL	WEAN WLBW WGHP KMBC	WNAC WFBL WOWO WSPD	WCAU WHEC WFBM	WCAO WKBW WBBM	WMAL WADC KMOX
2:00-2:30 T WABC WHP WGHP WSPD WREC	WEAN WJAS WKBN WMT WLAC	WFAN WLBW WOWO WWNC KLRA	W DBJ KLZ	WCAO WKBW WISN WBRC KDYL	WMAL WADC WBCM WDOD KFPY
5:30-6:00 C WFAN WKBW WCCO 6:30-7:00 Y WABC	WCAO WGHP WBCM	WMAL WKBN WMT	a WHP WOWO WDOD Orchestra	WJAS WMAQ WREC	WFBL KMBC KLRA
WABC WKRC WDBJ KVI 6:45-7:00 Li	WKBN WBRC KFPY	KFH WFIW	WLBW WBCM WDOD	WKBW WM T KLRA	WADC WWNC KLZ
WJZ WJR	WBZ WRVA	WBZA WPTF	WLW WBT	WHAM WJAX	KDKA WIOD
7:00-7:30 B WLBZ WKBW WDOD	wCAO WKBN WKBN KLRA	WMAL WBCM KLZ	Commodo WHP WMT KFRC		nble WLBW WBRC KFPY
7:00-7:30 Ve WEAF WSAI WSMB KOMO	WJAR WOW WFAA KHQ	WTAG WDAF WSB KOA	WCSH WEBC WOAI WHO	WGR WHAS KGO WJDX	WWJ WMC KGW
7:30-8:00 So WEAF	WEEI	W.IAR.	WTAG	WCSH	WGY
8:00-8:30 T WEAF CKGW	WFI	WRC	WCAE	WWJ	WSAI
8:00-8:30 Pu WJZ KWK WMC WCKY	WBAL WREN WBT WIOD	WHAM KSTP WJAX KFAB	KDKA WTMJ WRVA WJDX	WJR WEBC WSM	KYW WHAS WSB
WJŻ KWK WMC WCKY 8:00-8:30 BI WABC WHP WGHP	WBAL WREN WBT WIOD ackstone WEAN WJAS KOIL	WHAM KSTP WJAX KFAB Program WNAC WLBW KMBC	WTMJ WRVA	WEBC	WHAS
WJŻ KWK WMC WCKY 8:00-8:30 BI WABC WHP	WBAL WREN WBT WIOD ackstone WEAN WJAS KOIL DMAN WEAN WEAN WJAS WKRC WBCM WLAC	WHAM KSTP WJAX KFAB Program WNAC WLBW KMBC tteran WNAC WLBW WNAC WLBW WKBN WSPD KLRA	WTMJ WRVA WJDX WCAU WFBL WRHM WCAU WFBL KMOX WDBJ KLZ	WEBC WSM WCAO WHEC	WHAS WSB WMAL

8:30-9:00 Florsheim Frolic WEAF WEEI WJAR WTAG WCSH WFI WCAE WRC WGR WWJ WGY WSAI WGN KSD WEBC WOW WDAF WRVA WJAX WIOD WKY WBT WOAI WBAF WPTF KSTP WHO KPRC 9:00-9:30 Eveready Program WEAF WEEI WFI -9:30 L. WEAF WGY WEEI WFI WTAM WWJ WRC WGR WCAE WGN KSD WHO WDAF WHAS WSM WMC WSB WJAR KOA KSL KGO KFI KĞŴ KOMO KHŴ WSMB WJDX WCSH WFJC WSAI 9:00-9:30 Johnson and Johnson WJZ WBZ WBZA WBAL WHAM KDKA KYW KWK WLW CKGW WREN 9:00-10:00 Old Gold-Paul Whiteman Hour WABC WEAN WNAC WCAU WCAO WHP WJAS WLBW WFBL WHEC WMAL WKBW WKRC WGHP WKBN WADC WHK WOWO WFBM WBBM KMOX KOIL KSCJ KMBC WĪŚN WCCO KFH WBCM WSPD WMT WWNC WTAR WDBJ WGST WBRC WFIW WDOD WREC WLAC KFJF KTSA KLZ WDSU KRLD KLRA KTSA KOIN KDYL KHJ KFRC KFPY KXA 9:30-10:00 Sunoco Show WBZA WBAL WHAM KDKA WJR WJZ WCKY KYW CKGW 9:30-10:00 Happy Wonder Bakers WEAF WJAR WEEI W WTAG WCSII WRC WGY WGR WCAE WTAM WFJC WWJ WSAI WIBO KSD WHO WOW WDAF WRVA WHAS WKY WOAI WTMJ KSTP WEBC WSMB KVOO WEBC WMC WSB KOA WJDX KGO WBAP WFI KGO KOMO KECA KSL KGW KHQ WDAL 10:00-10:30 Westinghouse Salute WJZ WBZ WBZA WBAL KDKA WJR WJZ WBZ WBBC WBT WJAX WHA WHAS KECA WSM WMC WAPI WSMB KGW KPRC KOA KSL KGO WHAM WREN WRVA WKY KH0. KOMO WOĂI WSB 10:00-10:30 Graybars, 'Mr. and Mrs." WABC WEAN WNAC WCAU WCAO WJAS WLEBW WFBL WKBW WADC WKRC WGHP WKBN WWOW WFBM KMOX KOIL KMBC WISN WCCO WKOD WUNG WTAD WUDT WMAL WHK WBBM KOIL KMBC WISN WCCO WWNC WTAR WDBJ WGST WIBW WSPD WBRC WREC WLAC KLZ WDSU KRLD WDOD KLRA KFJF KTSA KDYL KHJ KFRC KOIN KFPY KOL 10:30-11:00 Grand Opera Concert WABC WEAN WNAC WCAO WMAL WIIP WJAS WLBW WFBL WKBW WHK WKR WKBN WFBM WBCM WWNC WDBJ WBR WKRC WBRC WOOD WREC WLAC KLRA KFPY WFIW 10:30-11:30 Radio-Keith-Orpheum Hour WEEI WJAR WTAG WCSH WGR WCAE WFJC WEAF WFI WGY KSD WGR WFJC WW.I WRC WOW WSMB WSAI WIIO WAPI WFAA KPRC WOAI WKY KTHS KOA KGO KGW KOMO KHQ KSTP WRVA WIBO KSLWTAM WJDX WTMJ KSTP WBT WJAX WHAS WIOD WSM WMC WSB WDAF WEBC KECA WDAF WEBU KEUA 11:00-11:30 Ted Weems and His Orchestra WABC WEAN WFAN WCAO WMAL WHP WLBW WFBL WKBW WGHP KOIL KMBC WISN WIBW KFH WBCM WSPD WMT WDBJ WBBC WFIW WDOD WREC KLRA VI 7 VDVL VEPV KMBC KDYL KFPY KLZ 11:30-12:00 Phil Spitalny's Music WEAF WFI WGR WFJC WWJ KSD CKGW WDAF WOW KBD CHGW WDAF 130-12:00 Bert Low's Biltmore Orch.— Dance Music WABC WCAU WCAO WHP WKBW WADC WKRC WGHP WFBM WBBM KMOX KOIL KMBC WISN WCCO WIBW KFH WBCM WSPD WMT WWNC WDBJ WECH WBCM WSPD WMT WDOD WREC KLRA KLZ

WBRC WFIW KDYL KVI

KFPY

Wednesday

10.30.11.00.1-1)tin	_		
WABC WEAN	WNAC	WCAU	WCAO	WMAL
WHP WJAS	WLBW	WFBL	WMAK WFBM	WMAL WADC
10:30-11:00 Interior I WABC WEAN WHP WJAS WHK WKRC	WGHP	WOWO		WBBM
KMOX KOIL	RWRC	WISN	WSPD	
2:30-3:00 Syncopated	Silhouette	S	1000	1111111
WABC WEAN WHP WJAS	WNAC WFBL	WCAU	WCAO WADC	WMAL WHK
WKRC WGHP	WKBN	WMAK WFBM	WRBM	KOIL
KMBC WISN	WKBN WIBW	WGL WDBJ	KFH	KOIL WBCM
WSPD WMT	WWNC	WDBJ	WBRC	WDOD
WREC WLAC KFPY	KLRA	KLZ	KDYL	KVI
2:45-3:45 U.S. Navy H WJZ WBAL	KDKA	KWK	WRVA	KOA
4:00-5:00 Radio Guile		11 11 11		
WJZ KWK	WJAX	коа	комо	CKGW
WJZ KWK KTHS WSM	WIOD	KOA WPT F	WHAM	WBAL
WBAP KFAB	WAPI	KSL	KGO	
5:00-5:15 Columbia G WABC WEAN	irenadier:	WMAL	WHP	WFBL
WABC WEAN WMAK WGHP	WKBN	WMAQ	KMOX	KMBC
WISN WCCO	WSPD	WMT	WWNC	WDOD
WREC KLRA	\mathbf{KLZ}			
5:15-5:45 Twilight Tr WFAN WMAL	oubadors	WJAS	WFBL	WMAK
WGHP WKBN	WHP WMAQ	KMOX	KMBC	WISN
WCCO WGL	WBCM	WMT	WWNC	WDOD
WREC KLRA	KLZ			
6:15-6:30 "Going to I WABC WLBW	Press"	WIDC	кмвс	KFH
WABC WLBW WBCM WMT	WFBL WWNC	WADC WDBJ	WFIW	WDOD
WREC KLRA	KLZ	KDYL	KVI	KFPY
6:30-7:00 Roy Ingrah	am's Pari	wiBW	rchestra	
WABC WHP WKRC WKBN	WJAS	KMBC	WFBL	WMAK KFH
WKRC WKBN WBCM WWNC	KOIL WDBJ	WBRC	WFIW	WDOD
KLRA KLZ	KFRC	KVI	KFPY	
7.00.7.15 Adventures	of Colon	al Powell		
WABC WLBZ WBCM WMT	WLBW	WFBL	KMBC	WCCO WLAC
WABC WLBZ WBCM WMT KLRA KLZ	KHJ	WFBL WDBJ KFRC	WDOD KVI	KFPY
7.15-7.45 Bernhard L	evitow ar	nd His Er	semble	
WABC WLBZ	WMAL WFBM WMT	WHP	WJAS WISN	WLBW
WMAK WHK WGL WBCM	WFBM	KOIL	WISN	WCCO WBRC
WGL WBCM WDOD KLRA	W M T KLZ	WWNC KHJ	WDBJ KFRC	KVI
WDOD KLRA 7:45-8:00 The Shoe-I WABC WEAN WHEC WHK KMOX WISN	Flyer	IX115		
WABC WEAN	WNAC	WCAU	WCAO	WFBL
WHEC WHK	WKRC	WGHP WDSU	WFBM	WMAQ
KMOX WISN KDYL KHJ	KFRC	KOIN	KRLD KVI	KLZ KFPY
7:45-8:00 Wilbur Coo	n Player:	KOIN	11 1 1	11111
WEAF WTIC	WJAR WCAE WOC	WTAG	WCSH	WRC
WGY WGR	WCAE	WFJC	WWJ	WSAI
WIBO KSD	WOC	WOW	WDAF	
8:00-8:30 General Mi WABC WEAN	WNAC	WCAU	WCAO	WMAL
WABC WEAN WJAS WLBW WKRC WGHP	WNAC WFBL WAIU KMBC	WČAU WKBW	WADC WMAQ	WHK
WKRC WGHP	WAIU	WFBM	WMAQ	KMOX
KOIL KSCJ	WDBI	WISN WBRC	WCCO WDOD	KFH WREC
WWNC WTAR WLAC WDSU	WDBJ WLAP	KRLD	WDOD KFJF KVI	WREC KLZ
KDYL KHJ	KFRC	KOIN	KVI	KFPY
8:00-8:30 The Yeast	Foamers			WWW
WJZ WBZ	WBZA	WHAM KSTP	KDKA WEBC	KYW KFAB
KWK WLW	WREN m Trawl	ers	W EDC	
8:30-9:00 Forty Fatho WABC WEAN	WNAC WLBW	WCAU WFBL	WCAO	WMAL WKBW WMAQ
WHP WJAS	W LDW	WFBL	WHEC	WKBW
WADC WHK	WKRC	WGHP	WFBM	WMAQ
KMOX WGL	WSPD			
8:30-9:00 Mobiloil Co WEAF WEEI WRC WGR	WJAR	WTAG	WCSH	WLIT
WEAF WEEI WRC WGR WOC WOW	WCAE	WWJ	WSAI	KSD
WOC WOW	WFJC	WTAM WKY	KOA	KVOO WTIC
WFAA KPRC WGY WGN	WOAI KSTP	WEBC	KSL WTMJ	WIIC
8:30-9:00 Sylvania Fo		n Bbo	11 7 1410	
WJZ WBZ	WBZA	WHAM	KDKA	KWK
WREN KYW	KFAB			

9:00-9:30 Va	n Heuser	Program			
WABC	WEAN	WNAC	WCAU	WCAO	WMAL
WJAS	WLBW	WFBL	WMAK	WADC	WHK
WKRC	WGHP	WOWO	WMAQ	KMOX	KOIL
KMBC	WSPD				
9:00-9:30 Ha	Isev. Stu	art Provra	am		
9:00-9:30 Ha WEAF	WEEI	WJAR	WTAG	WCSH	WLIT
WRC	WGY	WCAE	WGR	WWJ	WSAI
KSD	WŎĈ	WOW	KSTP	WBT	WJAX
WHAS	WMC	WSB	WSMB	KVOO	KPRC
WOAI	KOA	KGO	KOMO	KHQ	KGW
KFI	WRVA	WSM	WTMJ	KSL	CKGW
9:30-10:00 L					
WABC	WEAN	WNAC	WCAU	WCAO	WMAL
WJAS	WLBW	WFBL	WMAK	WADC	WHK
WKRC	WGHP	WOWO	WMAQ	KMOX	KOIL
KMBC	WISN	WCCO	WSPD	WREC	
9:30-10:30 B	. A. Rolfe	's Lucky	Strike O	rchestra	
WJZ	WHAM		WJR	KYW	KWK
WJZ WREN					
9:30-10:30 P	almolive	Hour			
WEAF	WEEI	WTIC	WJAR	WTAG	WCSH
WLIT	WRC	WGY	WGR	WCAE	WTAM
WWJ	WSAI	WGN	KSD	WOC	WOW
WWJ WDAF	WSAI WSMB	KSTP	WHA8	WSM	WMC
WSB	WBT	WJAX	KVOO	KPRC	WOAI
KOA	KSL	KGO	KFI	KGW	комо
KHQ	WFAA				
10:00-11:00	Voice of (Columbia			
WABC	WCAU	WCAO	WMAL	WLBW	WFBL
WMAK		WHK	WKRC	WGHP	WFBM
WMAQ	KMOX	KOIL	KMBC	WISN	WIBW
WBCM	WSPD	WMT WLAC	WWNC	WDBJ	WBRC
WFIW	WDOD	WLAC	KLZ	KDYL	KFPY,
10:30-11:00					
WJZ	KDKA	WCKY	WIBO	WREN	KWK
WBZ	WBZA	WHAM	CKGW		
10:30-11:00	Coca Coia	WTIC	hers		magu
WEAF	WEEI	WTIC	WJAR	WTAG	WCSH
WLIT	WRC	WGR	WCAE	WWJ	WSAI
KYW WBT	KSD	WOC	KSTP	WEBC	WRVA
WBT	WJAX	WIOD	WSM	WMC	WSB
WAPI	WSMB	WKY	KTHS	KPRC	WOAI
KOA	KSL	KGO	KECA	KGW	KHQ
KOMO	WJDX	WGY	WDAF	CKGW	WPŤF
WVOO	CKGW				
11:00-11:30	Mystery	House	WTAC	WDC	WGR
WEAF	WJAR	WCAE	WTAG WDAF	WRC WEBC	WJDX
WWJ	KSD	WOC	WDAF	WEDU	11 J D V
11:00-12:00	WEAN	WNAC	WCAU	W'CAO	WMAL
WABC	WFBL	WNAC WADC	WHK	WKRC	WGHP
WLBW	WOWO	KMOX	KOIL	KMBC	WISN
WKBN	WIBW	KFH	WBCM	WSPD	WMT
WCCO WWNC	WDBJ	WBRC	WFIW	WDOD	WREC
KLZ	KDYL	KVI	KFPY	11000	11110
12:00-12:30		L Dance			
WJZ	WBZ	WBZA	WHAM	KDKA	WJR
WLW	WIBO	KWK	WREN	KFAB	
14.17.14	a ibu	AF 11 IF	IT LEADER		
	-	Th	der		
		Thur	suay		
9:00-10:00 U	I.S. Mari	ne Band			
WJZ	WBZ	WBZA	WREN	WRC	KWK
WJZ KSTP					
11:00-11:15	Boni and	Ami			

KSTP					
11:00-11:15	Boni and				
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	WSMB	KV00
WKY	KTHS	KPRC	WOAI	CKGW	WJDX
KOA	KSL	KPO	KGO	KFI	комо
KĠW	KHO				
11:30-11:45	Du Barry	Beauty 7	Falk		
11:30-11:45 WABC	Du Barry WEAN	Beauty 7 WNAC	Falk WCAU	WCAO	WMAL
WABC				WCAO WADC	WHK
	WEAN	WNAC	WCAU		
WABC WJAS	WEAN WLBW	WNAC WFBL	WCAU WKBW	WADC	WHK
WABC WJAS WKRC KMBC	WEAN WLBW WGHP WISN	WNAC WFBL WAIU WSPD Band	WCAU WKBW WOWO	WADC WBBM	WHK KOIL
WABC WJAS WKRC	WEAN WLBW WGHP WISN	WNAC WFBL WAIU WSPD	WCAU WKBW WOWO WSM	WADC WBBM	WHK KOIL WREN
WABC WJAS WKRC KMBC 4:00-5:00 U.	WEAN WLBW WGHP WISN S. Army	WNAC WFBL WAIU WSPD Band	WCAU WKBW WOWO	WADC WBBM	WHK KOIL

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5:00-5:30 Radio-Keith-Orpheum Program WEAF WEBI WTIC WJAR WCSH WLIT WRC WCAE WFJC WSAI KSD WOC WOW WTAG WGY WWJ WDAF WGR WTAM KYW WIAM KIW 5:15-5:30 Bert Lown's Biltmore Orchestra WABC WFAN WCAO WMAL WHP WFBL WKBW WGHP WKBN WOWO KMOX KMBC WISN WCCO KFH WBCM WMT WWNC WDOD WREC KDYL WWNC 5:30-5:45 The Toddy Party WEAF WEEI WTIC WJAR WTAG WCSH WGY WGR WCAE WFJC WLIT WRC KSD WWJ WSAI KYW WOC WDAF 6:00-6:30 Hotel Shelton Orchestra WABC WHP WLBW WPBL WKBW WADC WHK WOWO WBBM KMBC KFH WBCM WMT WWNC WDBJ WBRC WFIW WDOD WREC KLRA KLZ KVI KFPY WILD KLIKA KLZ KVI KFPY 7:00-7:30 Mid-Week Federation Hymn Sing WEAF WCSH WMC WJAR WIBO WJDX WWJ WHAS 7:30-8:00 In the Nation's Capital WEAF WSMB WOLA WEBC WMC WJAR WTAG WRC WSAI WIBO WJDX KOA KPO 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 WFBL WHA WGAL 8:00-8:15 The Vagabonds WEAN WNAC WCAO WMAL WLBW WKBW WKRC WKBN WFBM WISN WIBW KFH WRCM WMT WDBJ WFIW WDOD WREC WRCM WMT WDBJ WFIW KDOD WREC KLRA KLZ KVI KHJ KFRC KFPY 8:00-9:00 Fleischmann Hour WEAF WEEL WTAG WJAR WRC WGY WGR WCAE WOW WDAF WWJ WTMJ WIOD WJDX WHAS WMC WCSH WFI WFJC WHO WBT WJAX WSB WSMB KOA WSM WEBC WKY WSAI KPRC WRVA KOMO WOAI KTHS WAPI KSL KGO KHQ WBAP KECA WIBO KSD CKGW WTAM KGW KSTP WPTF 8:15-8:30 Columbia Educational Features WABC WEAN WNAC WFAN WCAO WMAL WJAS WLBW WFBL WKBW WHK WKRC WGHP WKBN WOWO WFBM KOIL WISN WCCO WIBW KFH WBCM WMT WREC WLAC WWNC WDBJ WFIW WDOD WREC KLRA KDYL KHJ KFPY KLZ KFRC 8:30-9:00 Frontier Days WJZ WREN KDKA WJR KWK KFAB WBAL WHAM 8:30-9:00 Manhaitan Moods WABC WEAN WNAC WMAL WHP WLBW WFBL WADC WHK WKR WKBN WOWO KMOX KOIL KMBU WJAS WKRC WGHP KMBC KFH WBCM WSPD WMT WDOD WLAC KLZ WWNC WDBJ WBRC KHJ KVL KFPY 9:00-9:30 Harbor Lights -9:30 Harbor Lights WEAF WJAR WTAG WCSH WFI WRC WGY WGR WCAE WWJ KSD WHO WOW WRYA WPTF WJAX WSMB WJDX WRVA WPTF WJAX WSMI KHQ WTMJ WIOD WAPI KGO KHQ W 1993 9:00-9:30 Knox Dunlap Orchestra WJZ WBZ WBZA WBAL WHAM KDKA WIBO KWK WREN WCKY 9:00-9:30 True Detective Mysteries WABC WEAN WNAC WCAU WCAO WMAL WJAS WLBW WFBL WHEC WEBW WADC WHK WKRC WGHP WOWO WFBM WBBM KMOX KOIL KMBC WISN WCCO WSPD 9:30-10:00 De Voe Redskins WABC WEAN WNAC WCAU WCAO WMAL WJAS WLBW WFBL WKBW WADC WHK WKRC WGHP WOWO WBBM KMOX KOII KMBC WSPD 9:30-10:00 Jack Frost's Melody Moments WEAF WJAR WTAG WCSH WFI WGY WGR WCAE WWJ WSA WRC WSAI WTAM 9:30-10:00 Maxwell House Melodies WJZ WBZ WBZA WBAL WHAM KDKA WJR WLW KSTP WKY WTMJ WEBC

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WHAS WSM WMC WJAX WRVA WSB WIOD WSMB WOAI WBT KPRC KOA KYW WREN KWK KGO KECA KGW KOMO KHQ WBAP KSL 10:00-10:30 Mid-Week Kodak Hour WABC WEAN WNAC WCAU WCAO WMAL WJAS WLRW WFBL WHEC WKBW WADC WHK WKRC WGHP WOWO WFBM WBBM KMOX KOIL KMBC WISN WCCO WSPD WMT WGST WBRC WREC WDSU WRR KTSA KLZ. KDYL KHJ KFRC KOIN KFPY KVI 10:00-11:00 RCA Victor Hour WEAF WEEI WJAR WTAG WCSH WFI WRC WGY WGR WEJC WCAE WWJ WSAI wow WRVA KSD WEBC WHO WKY WBT KPRC WOAI KOA KSL WHAS WTMJ WBAP WJAX WIOD WSM KV00 WMC WSB WSMB KYW WDAF KTHS WTAM KSTP KGW KGO KFI WJDX KOMO KHQ 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 WLBW WFBL WKBW WADC WHK WKRC WKBN WOWO KMOX KOIL KMBC WISN WIBW KFH WBCM WSPD WMT WWNC WDBJ WBRC WFIW WDOD WREC WLAC KLRA KLZ KDYL KFRC KFPY 11:00-11:30 Dream Boat WABC WEAN WFAN WCAO WMAL WHP WLEW WFBL WKBW WKRC WGHP WFBM KMBC WISN WIBW WGL KFH WBCM WSPD WMT WWNC WDBJ WBRC WFIW WDOD WREC KLRA KLZ KDYL KFPY WLS KWK WDAF WREN WOW WHO WLS KWK WDAF WREN WOW WHO WLW WMC KVOO WKY WFAA KTHS WFAA KTHS KPRC WOAI KOA KSL WHAS 11:00-12:00 National Grand Opera 11:00-12:00 National Grand Opera WEAF WFI WRC WGR WWJ KSD WRVA CKGW WBT WTAM WDAF 11:30-12:00 Will Osborne and His Orchestra WABC WEAN WFAN WCAO WMAL WHP WLBW WFBL WKBW WGHP WFBM KOIL KMBC WISN WCCO WGL KFH WBCM WSPD WMT WWNC WDBJ WBRC WFIW WDDD WDFC KLEA KLZ KDYL KFFY WBCM WOOD WREC KLRA KLZ KDYL KFPY

Friday

10:45-11:00	Columbia	1 Salon O	rchestra		
WABC	WEAN	WNAC	WCAU	WCAO	WMAL
WLBW	WFBL	WMAK	WADC	WHK	WGHP
WOWO	KMOX	KOIL	KMBC	WBCM	WSPD
WWNC	WDBJ	WFIW	WDOD	WLAC	KLRA
KLZ					
11:45-12:00	Founding	a Nation			
WEAF	WEEI	WJAR	WTAG	WCSH	WLIT
WRC	WGY	WCAE	WTAM	WSAI	WWJ
WGN	KSD	WOW	WDAF	WTMJ	KSTP
WEBC	WRVA	WPTF	WBT	WJAX	WIOD
WIIAS	WSM	WMC	WAPI	WSMB	WKY
KTHS	KPRC	WOAI	KOA	WJDX	WGR
WHO					
3:00-4:00 Pe	nn Relay	s			
WABC	WEAN	WNAC	WLBZ	WCAO	WMAL
WHP	WFBL	WMAK	WADC	WKRC	WGHP
WKBN	WFBM	KMOX	KOIL	KMBC	WISN
WIBW	WGL	WBCM	WSPD	WMT	WWNC
WDBJ	WBRC	WFIW	WDOD	WLAC	KLZ
KVI	KFPY				
3:00-4:00 U.					
WEAF	WTAM	WWJ	KSD	WНО	WOW
KYW	WRC	WCSH			
6:00-6:15 M					
WABC	WCAU	WHP_{-}	WLBW	WFBL	WMAK
WADC	WKBN	KMBC	WBCM	WMT	WWNC
WDBJ	WBRC	WFIW	WDOD	WREC	KLRA
KLZ	KFRC	KVI	KFPY		

7.00 7.30 Roy Ingr	ham's Par	mount O	rchestra	
7:00-7:30 Roy Ingra WABC WLB3 WMAK WGH WGL WBC WDOD KLR4	M WMT	WHP KOIL WWNC KHJ	WJAS WISN WDBJ KFRC	WLBW WCCO WBRC KVI
7:30-8:00 Raybesto WEAF WTIC WCAE WWJ WDAF CKG WSB WAP	WCSH WSAI WWGR	WLIT WIBO WGY WHAS	KOA KSD WSM WJDX	WRC WOW WMC
8:00-8:30 Nit Wit I WABC WEA WLBW WFB WGHP WFB WCCO WIB WDBJ WFIV KVI KFP	N WNAC L WMAK	WLBZ WADC KMOX WSPD WREC	WMAL WHK KOIL WMT WLAC	WJAS WKRC KMBC WWNC KLZ
8:00-9:00 Cities Se WEAF WEE WCAE WTA WOW WDA WOC KOA KGO KGW WTAG CKG	WFAA KHQ W KECA	WSAI WOAI	WRC KYW WKY WEBC KPRC	WGR KSD WWJ KOMO KSL
8:45-9:00 Natural I WJZ WBZ KWK WRV WBT WRE	N WPTF		KDKA KFAB	WLW WIBO
9:00-9:30 Clicquot WEAF WEE WLIT WRC WIBO KSD	Club Eskim I WTIC WGY WWJ	WJAR WOW WGR	WTAG WCAE WDAF	WCSH WSAI WOC
9:00-9:30 Interwov WJZ WBZ WKY WRE WSM WSB KSL KGO WSMB WIOI KSTP WEB	N KPRC WBT KOMO D WLW	WHAM WOAI WJAX KHQ WFAA	KDKA KOA KWK KGW WJR	WMC WHAS WRVA WAPI CKGW
9:00-10:00 True St WABC WEA WJAS WLB WHK WKF KOIL KME KRLD KLR KHJ KFR	N WNAC W WFBL C WGHP C WISN A KFJF C KOIN	WCAU WHEC WOWO WCCO KTSA KVI	WCAO WMAK WMAQ KFH KLZ KFPY	WMAL WADC KMOX WSPD KDYL
9:30-10:00 Old Co WEAF WEE WRC WGY	npany's So I WTIC	ngalogue WJAR	WCSH	WLIT
9:30-10:00 Armour WJZ WBZ KSTP WEB KPRC WOA WBT WHA KHQ WJA WAPI WHA	X WIDX	WIOD	KYW WSB WSM KGW KDKA	WREN WSMB WKY KOMO WTMJ
WAPI WHA 10:00-10:30 Armst WJZ WBZ WREN KPR WEBC WHA WOAI KTH KGO KFI WBAP WLW	S WKY KGW	WSMB KOMO	KYW KSTP WBT KOA KHQ	KWK WTMJ KVOO KSL WMC
10:00-10:30 At the WABC WEA WHP WJA WKRC WGH WISN WCC WTAR WGS KLRA WRI KFRC KOI WDAE KTR	S WLBW IP WOWC O WIBW T WBRC & KFJF N KFPY	WCAU WFBL	MAK WCAO WMAK KMOX WSPD WLAC KDYL WDBO	WMAL WADC KOIL WWNC WDSU KHJ WTOC
10:00-11:00 Raleig WEAF WEF	h Revue I WJAR	WTAG	WFJC	WCSH

WEAF WLIT	WEĒI	WJAR	WTAG WGY	WFJC WGR	WCSH WCAE
					[30]

WWJ WDAF KGO	WSAI KOA KSL	WIBO KECA	KSD KGW	WOC KHQ	KOMO KSD
KGO 10:30-11:00 WJZ WLW WRVA WSB WJDX	WBT WSMB WRC	WJAA KVOO	WKY	KDKA KSTP WSM KTHS	WJR WEBC WMC WOAI
10:30-11:00 WABC WJAS WKRC WIBW WBRC KLZ	Curtis In WEAN WLBW WGHP WBCM WFIW KDYL	stitute of WNAC WFBL KMOX WSPD WDOD KFPY	Music WCAU WMAK KOIL WMT WREC	WCAO WADC KMBC WWNC WLAC	WMAL WHK WISN WDBJ KLRA
11:00-11:15 WJZ WIBO KECA WKY WSMB	KGW WVOO KTHS	KHQ WBAP WMC	Sketch Bo WHAM KOA KOMO WHAS WSB	ok KDKA KSL KFAB WSM	WJR KGO WCKY WJDX
WADC WIBW WMT WREC	Will Osba WEAN WKRC WGL WWNC KLRA	WGHP KFPY WDBJ KLZ	His Orch WLBW KOIL KFH WBRC KDYL	WFBL KMBC WBCM WFIW	WMAK WISN WSPD WDOD
11:00-12:00 WEAF WOW	Vincent I CKGW WDAF	.opez and WSM	His Ore WGY	hestra WFJC	WWJ
11:30-12:00 WABC WGHP WBCM WFIW	Bert Low WEAN KOIL WSPD WDOD	m and H WCAO KMBC WMT WREC	is Orches WLBW WISN WWNC KLRA	WFBL	WHK KFH WBRC KDYL
		Satu	•		
10:00-10:30 WABC WMAL WHK KMBC WFIW	WGHP WCCO WDOD	WFBM WGL WLAC	WLBZ WLBW	WCAU WFBL KMOX WSPD KDYL	WCAO WKBW KOIL WWNC
10:30-11:00 WABC WMAL WHK WCCO WFIW	WGL WDOD	KFH WLAC	WLBZ WLBW KMOX WBCM KLRA	KOIL	WCAO WKBW KMBC WWNC
W MAL WFBM WSPD WREC	WM T KLRA	WJAS KMBC WWN(KLZ	KHJ	WCAU WKBW WGL WFIW KFRC	W DOD KVI
WFBM WWNC KLZ	KMBC WBRC KHJ	WFIW KFRC	WDOD KFPY	Mary WMAL WGHP WBCM WBCM	WHP WKBN WMT KLRA
2:00-2:30 A WABC WFBL WBBM WMT WLAC	WCAU WKBW KMOX WWNO KLRA	WADC KOIL WDBJ KLZ	WCCO WBRC KDYL	WKBN WBCM	WJAS WOWO WSPD WREC KFPY
4:00-4:30 M WABC WHP KOIL WDBJ KHJ	KMBC WBRC KFRC	W BCN W DOI KFPY	1 WSPD	WMT KLZ	WMAL WBBM WWNC KDYL
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Sec. and

(Continued from page	e 3v)
4:30-5:00 Club Plaza Orchestra WABC WEAN WCAU WCAO	WMAL WHP
WFBL WKBW WADC WKRC	WGHP KMOX
KOIL KMBC WCCO WIBW WMT WWNC WDBJ WBRC	WOOD WREC
WMT WWNC WDBJ WBRC WLAC KLRA KLZ KDYL	KFRC KVI
5:00-5:30 French Trio	WITE WEEK
WABC WFAN WCAO WMAI WKBW WGHP WOWO WMAG	KMOX KMBC
WCCO WBCM WSPD WMT	WWNC WDOD KFRC KVI
WREC KLRA KLZ KHJ KFPY	KFRC KVI
5-30-5-45 Quiet Harmonies	
WABC WFAN WCAO WMAI WFBL WKBW WKRC WGHF WMAQ KMBC WCCO WIBW	WHP WJAS WKBN WOWO
WMAQ KMBC WCCO WIBW WMT WWNC WDOD WREC	WKBN WOWO WBCM WSPD
WMT WWNC WDOD WREC KHJ KFRC KVI KFPY	KLRA KLZ
5:45-6:00 Skinner Concert	
WEAF WLIT WRC WGY	WCAE WSAI
6:00-6:30 Hotel Shelton Orchestra WABC WHP WLBW WFBL	WKBW WADC
WFBM WBBM KMBC WIBW	KFH WBCM
WWNC WDBJ WBRC WFIW KLRA KLZ KHJ KFRC	WDOD WREC KVI KFPY
6:30-7:00 "Ted Husing's Sportslants" WABC WHP WJAS WLBW	
WABC WHP WJAS WLBW WKBN WFBM KOIL KMBC	W WKBW WKRC C KFH WBCM C WFIW WDOD
WMT WWNC WDBJ WBRC	WFIW WDOD KFPY
	KFPY
7:00-7:15 Floyd Williams WEAF WEEI WJAR WCSH WOW WSM WMC WSB	WGY WWJ
	WSMB
7:00-8:00 Bernhard Levitow's Commo WABC WLBZ WCAO WMA WLBW WKBW WKBN WFBM	dore Ensemble L WHP WJAS
WLBW WKBW WKBN WFBM	I WISN KFH
WBCM WMT WWNC WDBJ KLRA KLZ KHJ KFRC	WBRC WDOD KVI KPPY
7:15-7:30 The Jameses WEAF WTAG WGY WWJ	
WEAF WTAG WGY WWJ WJAR	WOW CKGW
7:15-7:30 RCA Theremin Music WJZ WREN KWK KFAB	KSTP WEBC
WJZ WREN KWK KFAB WPTF WBT WSM WIOD WSMB KVOO KPRC WOAI	WHAS WSB KOA KSL
WPTF WBT WSM WIOD WSMB KVOO KPRC WOAI WMC KTHS	KOA KSL
7:30-8:00 Phil Spitalny's Music	
7:30-8:00 Phil Spitalny's Music WEAF WJAR WCSH WGY WRVA WPTF WTAG KSTP	WWJ WHO
7:30-8:00 The Fuller Man	
WJZ WBZ WBZA WBAL WLW KYW CKGW WREN	, WHAM KDKA V KFAB KWK
KOA KSL KGO KECA	KFAB KWK KGW KHQ
8:00-8:15 Dixies Circus WJZ WBZ WBZA KDKA	WLW KYW
8:00-8:15 Sense and Nonsense WABC WEAN WNAC WLBZ	WOAD WMAL
WHP WIAS WLBW WFBL	WADC WKRC
WGHP WKBN WOWO WFBN WISN WCCO WIBW KFH	I KOIL KMBC WBCM WSPD
WMT WWNC WDBJ WDOI	WBCM WSPD WREC WLAC KFPY
KDYL KHJ KFRC KVI	KFPY
WEAR WIAR WTAG WEI	WCSH WRC
WGY WGR WWJ WSAI WRVA WPTF WBT WMC	WOW WDAF WSMB KOA
WG1 WG1 WWT WBT WDA WRVA WPTF WBT WMC WCAE WOAI KTHS WFJC WJAX KPRC KGO KGW	WSMB KOA KSD WHO KHO KOMO
	KHQ KOMO
8:15-8:30 Babson Finance Period	I WOAD WMAAT
WABC WEAN WNAC WCAU WJAS WLBW WFBL WKBV	WCAO WMAL
WKRC WGHP WOWO WMAC	Q KMOX KOIL

8:30-9:00 D WEAF WRC WSAI WTMJ WJAX WAPI KOA	WGY KYW KSTP WIOD WSMB KSL	WGR KSD WEBC WHAS KTHS WJDX	WTAG WCAE WHO WRVA WMC WBAP WTAM	WCSH WFJC WOW WPTF WSB KPRC	WFI WWJ WDAF WBT WSM WOAI
8:30-9:00 Th WJZ KDKA	e Silver I WHAM	Flute WJR	KWK	CKGW	KOA
8:30-9:00 Di WABC WJAS WGHP WISN WWNC KLRA	WEAN WLBW WKBN WCCO WDBJ KLZ	WLBZ WFBL WFBM WIBW WBRC KHJ	WFAN WKBW KMOX WBCM WDOD KVI	WCAO WADC KOIL WSPD WREC KFPY	WMAL WKRC KMBC WMT WLAC
9:00-10:00 H WABC WMAL WADC WFBM WIBW WDBJ KLZ	WBRC KDYL	WBCM WFIW KHJ	WSPD WDOD KFRC	WCAU WFBL WKBN KMBC WMT WREC KVI	WCAO WKBW WOWO WISN WWNC WLAC KFPY
9:00-10:00 C WEAF WRC KSD WJAX WRVA KGW WSMB	WHO WHAS WSAI KOMO WIBO	WOW WSB KSTP KHQ WMC	WDAF WBT WAPI KSL WFAA	WCSH WTAM WTMJ KPRC WKY KGO	WFI WWJ WEBC WOAI KOA KFI
9:30-10:00 E WJZ WLW)utch Ma WB Z WJR	sters Min WBZA KWK	wBAL KYW	WHAM WREN	KDKA
10:00-11:00 WEAF WRC KSD WTMJ KPRC WFJC KOMO	B. A. Rol WEEI WGY WHO WSMB WMC KOA KHQ	fe and H WJAR WGR WOW WJAX WOAI KGO WEBC	is Orches WTAG WCAE WDAF WHAS WKY KFI WJDX	WCSH WWJ WIOD WSB WAPI KSL WRVA	WFI WGN KSTP WBT WSAI KGW WFAA
10:00-11:00 WABC WMAL WKBW WCAH KOIL KFH WDBJ WDSU KDSU KFPY	Paramou WEAN WHP CFRB WKBN KSCJ WBCM WBRC KRLD KHJ	nt Publix WNAC WJAS WADC WOWO KMBC WSPD WFIW KLRA KFRC	Hour WLBZ WLBW WHK WFBM WISN WMT WDOD KFJF KOL	WCAU WFBL WKRC WBBM WCCO WWNC WREC KTSA KNX	WCAO WHEC WGHP KMOX WIBW WTAR WLAC KLZ KOIN
11:00-11:30 WABC WHP KOIL WWNC KLRA KNX	Roy Ingr. WEAN WLBW KMBC WDBJ KLZ	aham's P WLBZ WFBL WISN WBRC KDYL	aramouni WCAU WKBW WIBW WFIW KFPY	Orchest WCAO WKRC WBCM WDOD WADC	WMAL WGHP WMT WREC WHK
11:15-12:00 WEAF WDAF					
11:30-12:00 WABC WFBL WISN WFIW KFPY	Guy Lom WCAU WKBW WIBW WDOD	bardo an WCAO WKRC WBCM WREC	d His Ro WMAL WGHP WMT KLRA	yal Canao WHP KOIL WWNC KLZ	KMBC

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

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. H means station has greater power during day. CP indicates station has construction permit only. Some Cuban and Mexican stations have odd frequencies Correct kilocycles shown in small figures. N means NBC chain. C means Columbia chain. Z has been granted permit to change frequency.

540 kilocycles 555.6 meters

CKX

Brandon, Manitoba Mexico City

545.1 meters Brookings, S. D. St. Louis, Mo.

Bismarck, N. D. Corvallis, Ore. St. Louis, Mo. Buffalo, N. Y. Cincinnati, Ohio

Merida, Yucatan

Beaumont, Texas Denver, Colo. Oakland, Cal. Beloit, Wis. Philadelphia, Pa. Chicago III

Chicago, Ill. Philadelphia, Pa.

Knoxville, Tenn. Chicago, Ill. Miami, Fla.

526.0 meters

535.4 meters

550 kilocycles

500

50

KFDY	500	1+
KFUO	500	2÷
KFYR	1000	1'
KOAC	1000	
KSD	500	2N
WGR	1000	N
WKRC	1000	С
XEY	105	

560 kilocycles

KFDM	500	\mathbf{x}_{+}
KLZ	1000	ĉ
KTAB	1000	
WEBW	500	3D
WFI	500	1N
WIBO	1000	3+N
WLIT	500	1Ň
WNOX	1000	X+
WPCC	500	35
WOAM	1000	

570 kilocycles

KGKO KMTR KXA WEAO WKBN WMAC WMAC WMCA WNAX WNYC	250 500 750 500 250 500 1000 500	+ 1 1 2 3 3	Wichita Falls, Texas Hollywood, Cal. Seattle, Wash. Columbus, Ohio Youngstown, Ohio Cazenovia, N. Y. New York City Yankton, S. D. New York City
		3 2 C	Yankton, S. D. New York City Syracuse, N. Y. Asheville, N. C.

CFCL	500	38
CHMA	250	4
CJCA	500	4
CJSC	500	4
CKCL	500	4 3 3
CKNC	500	3
CKUA	500	4
CNRE	500	4
KGFX	200	D
KSAC	500	2+
WIBW	500	2∔C
WOBU WSAZ	250	1
WSAZ	250	1
WTAG	250	N

ŭ

580 kilocycles 516.9 meters

Toronto, Ont.
Edmonton, Alta.
Edmonton, Alta.
Toronto, Ont.
Toronto, Ont.
Toronto, Ont.
Edmonton, Alta.
Edmonton, Alta.
Pierre, S. D.
Manhattan, Kans.
Topeka, Kansas
Charleston, W. Va.
Huntington, W. Va.
Worcester, Mass.
worceater, wass.

Manitoba Telephone System Sria. de Agricultura y Fomento

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

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.



Wichita Falls Broadcasting Co. Wichita Fails Broadcastin 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.

Dominión 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	Spokane, Wash,
WCAJ	500	1	Lincoln, Nebr.
WEEĬ	1000	N	Boston, Mass.
WEMC	1000	D	Berrien Springs, Mich.
WOW	1000	1N	Omaha, Nebr.
XFI	1000		Mexico City
	500	CP	Lynchburg, Va.

600 kilocycles 499.7 meters

CFCH	250	3	Iroquois Falls, Ont.
CJRM	500	4	Moose Jaw, Sask.
CJRW	500	4	Fleming, Sask.
CMW	1000	595	Havana, Cuba
CNRO	500	3	Ottawa, Ont.
KFSD	500	+	San Diego, Cal.
WCAC	250	2+	Storrs, Conn.
WCAO	250	C	Baltimore, Md.
WGBS	600	2+	New York City
WMT	500	X	Waterloo, Iowa
WOAN	500	1	Lawrenceburg, Tenn.
WREC	500	1+C	Memphis, Tenn.

610 kilocycles 491.5 meters

3

612	Havana, Cuba
С	San Francisco, Cal.
N	Kansas City, Mo.
2C	Philadelphia, Pa.
2	Philadelphia, Pa.
D	Cleveland, Ohio
	C N 2C 2

620 kilocycles 483.6 meters

KGW 1000 X+NPortland, Ore. Phoenix, Arizona Clearwater, Fla. KTAR WFLA WLBZ 500 +1000 1+ 500 WSUN 1000 $^{1+}_{+N}$ WTMJ 1000

630 kilocycles

475.9 meters

CFCT	500	
CJGX	500	
CNRA	500	
KFRU	500	1
WGBF	500	1
WMAL	250	+0
wos	500	1+
XFC	350	

640 kilocycles

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

650 kilocycles

WSM 5000 N

660 kilocycles 500

WAAW WEAF DN 50000

670 kilocycles

WMAQ	5000	С
XEB	1000	



468.5 meters

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

461.3 meters

Nashville, Tenn.

454.3 meters Omaha, Neb.

New York City

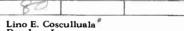
447.5 meters

Chicago, Ill. Mexico City

[37]

8.5	
Louis Wasmer, Inc. Nebraska Wesleyan Univ Edison Elec. Illuminatin George W. Trendle Woodmen of the World Sria. de Industria, Comm Abe Cohen	ng Co.

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.



Don Lee, Inc. Kansas City Star Co. Keystone Broadcasting Co., Inc. Gimbel Bros. Co. Cleveland Radio Broadcasting Corp.



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

Victoria Broadcasting Association Winnipeg Grain Exchange Canadian National Railways Stephens College Evansville On the Air, Inc.

M. A. Leese State Marketing Bureau Goberno Estado de Veracruz

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

12		Τ	
NT	0.4.11	* 0	

National Life & Accident Ins. Co.

Omaha Grain Exchange

National Broadcasting Co., Inc.

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

CUT OUT ON DOTTED LINES

KCYS. 670 MTRS.

447.5 DIAL

Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis.

INDEX BY FREQUENCIES AND DIAL NUMBERS

	nocy	cles	440.9 meters		
KFEQ KPO WPTF	2500 5000 1000 250	D N N CP	St. Joseph, Mo. San Francisco, Cal. Raleigh. N. C. Gueda Springs, Kans.	Scroggin & Co. Bank Hale Bros. & The Chronicle Durham Life Insurance Co. R. E. Campbell and F. L. Stallard	
690 k	ilocy	cles	434.5 meters		T
CFAC CFCN CHCA CHCA CHCA CHCA CJCJ CKGW CNRC CNRC CNRC CNRX NAA VAS	$\begin{array}{c} 500\\ 500\\ 500\\ 500\\ 500\\ 500\\ 500\\ 500$	1 1 2N 1 2N 1 2	Calgary, Alta. Calgary, Alta. Toronto, Ont. Calgary, Alta. Toronto, Ont. Calgary, Alta. Toronto, Ont. Arlington, Va. Louisburg, N. S.	The Calgary Herald Western Broadcasting Co. The Western Farmer Canadian Pacific Railways Albertan Publishing Co., Ltd. Gooderham & Worts, Ltd. Canadian National Railways Canadian National Railways U. S. Navy Canadian Marconi Co.	
700 k	ilocy	cles	428.3 meters		
WLW	50000	Ν	Cincinnati, Ohio	Crosley Radio Corp.	
710 k	ilocy	cles	422.3 meters		
KMPC WOR	500 5000		Los Angeles, Cal. Newark, N. J.	R. S. MacMillan Bamberger Broadcasting	Service, Inc.
720 k	-		416.4 meters		
WGN WLIB	25000 25000	ZZ	Chicago, Ill. Chicago, Ill.	Chicago Tribune Chicago Tribune	
730 k	-	cles	410.7 meters		
CHLS CHYC CKAC CKCD CKFC CKMO CKWX CNRM XEN	50 5000 5000 50 50 50 100 5000 1000	1 2 2 1 1 1 1 2	Vancouver, B. C. Montreal, Que. Montreal, Que. Vancouver, B. C. Vancouver, B. C. Vancouver, B. C. Vancouver, B. C. Montreal, Que. Mexico City	W. G. Hassell Northern Electric Co., Ltd. La Presse Publishing Co., Ltd. Vancouver Daily Province United Church of Canada Sprott-Shaw Radio Co. A. Holstead & Wm. Hanlon Canadian National Railways General Electric, S. A.	
740 k	ilocy	cles	405.2 meters	56	
KMMJ WSB	1000 5000	Ň	Clay Center, Neb. Atlanta, Ga.	The M. M. Johnson Co. Atlanta Journal Co.	
750 k	ilocy	cles	399.8 meters	53	
TIX WJR	50 5000	N	San Jose, Costa Rica Detroit, Mich.	WJR, The Goodwill Stat	ion, Inc.
760 k	ilocy	cles	394.5 meters		
KVI WEW	1000 1000 30000	C D N	Tacoma, Wash. St. Louis, Mo. New York City	Puget Sound Broadcastir St. Louis University Radio Corp. of America,	
770 k	ilocy	cles	389.4 meters	53	
KFAB WBBM	5000 25000 25000	1N 1C 1S	Lincoln, Nebr. Chicago, Ill. Chicago, Ill.	Nebraska Buick Automol The Atlass Co., Inc. The Atlass Co., Inc.	bile Co.
780 k	ilocv	cles	384.4 meters		
CKY CNRW KELW KTM WEAN	5000 5000 500 500 250 500	3 3 2 2+ +C +N	Winnipeg, Manitoba Winnipeg, Manitoba Burbank, Cal. Los Angeles, Cal. Providence, R. I. Memphis, Tenn. Norfolk, Va.	Manitoba Telephone System Canadian National Railways Earl L. White Pickwick Broadcasting Corp. The Shepard Co. Memphis Commercial-Appeal WTAR Radio Corp. WTAR Radio Corp.	
WMC WPOR WTAR	500 500	ic	Norfolk, Va.	WTAR Radio Corp.	

IIN	DEX	BI FREQUENCIE
790 kilocycl	les	379.5 meters
KGO 500	791 N N	Tuinucu, Cuba Oakland, Cal. Schenectady, N. Y.
800 kilocycl	les	374.8 meters
WBAP 5000 WFAA 5000	1 XN 1 XN	Fort Worth, Texas Dallas, Texas
810 kilocycl	les	370.2 meters
WCCO 7500 WPCH 500	C D	Minneapolis, Minn. New York City
820 kilocycl	es	365.6 meters
CMI 500 WCAU 10000	815 C	Havana, Cuba Philadelphia, Pa.
830 kilocycl	les	361.2 meters
KOA 12500	834 N D D	Colon, Cuba Denver, Colo. Gloucester, Mass. East Lansing, Mich. Galnesville, Fla.
840 kilocycl	es	356.9 meters
CHCT 1000 CKLC 1000 CMC 500 CNRD 1000 CNRT 500	1 2 2 1 3 3	Toronto, Ont. Red Deer, Alta. Red Deer, Alta. Havana, Cuba Red Deer, Alta. Toronto, Ont. Adamsburg, Pa. Jeannette, Pa.
850 kilocycl	es	352.7 meters
KWKH 10000 NBA 750 WWL 5000	1 846 1	Shreveport, La. Balboa, Canal Zone New Orleans, La.
860 kilocycl	es	348.6 meters
KFQZ 250 KMO 500 WABC 5000 WBOO 5000	+ 1XC 1X D	Los Angeles, Cal. Tacoma, Wash. New York City New York City Kansas City, Mo.
870 kilocycl	es	344.6 meters
WENR 50000 WLS 5000	1N 1XN	Chicago, Ill. Chicago, Ill.
880 kilocycl	es	340.7 meters
CHRC 100 CJCB 50 CKCI 22.5 CKCV 50 CKCV 50 CNRQ 50 KFKA 500	4 3 3 3 4 3 2 + 2	Hamilton, Ont. Hamilton, Ont. Quebec, Que. Sydney, N. S. Quebec, Que. Hamilton, Ont. Quebec, Que. Greeley, Colo. Oakland, Cal. Denver, Colo.
WCOC 500	+	Meridian, Miss.

WCOC

VGBI

500 250 250

500

+

1

1

Frank H. Jones National Broadcasting Co., Inc. General Electric Co. Carter Publications, Inc. News & Journal KCYS. Northwestern Broadcasting, Inc. 880 Eastern Broadcasters, Inc. MTRS. 340.7 DIAL Instituto Provincial Universal Broadcasting Co. Leopoldo V. Figueros National Broadcasting Co., Inc. Alfred F. Kleindinst Michigan Agriculture College University of Florida Star Publishing & Ptg. Co. G. F. Tull & Ardern .Ltd. Alberta Pacific Grain Co., Ltd. Cuban Telephone Co. Canadian National Railways Canadian National Railways Oakford-Olympia Park Corp. Oakford-Olympia Park Corp. CUT OUT ON DOTTED LINES Hello World Broadcasting Station United States Navy Loyola University Taft Radio & Broadcasting Co., Inc. KMO, Inc. Atlantic Broadcasting Corp. Atlantic Broadcasting Corp. WHB Broadcasting Co. Great Lakes Broadcasting Co. Agricultural Broadcasting Co. The Hamilton Spectator Maple Leaf Radio Co., Ltd. E. Fontaine E. Fontanie N. Nathanson Le "Soleil," Ltd. G. A.Vandry Wentworth Radio & Auto Sply. Co., Ltd. Canadian National Railways Midwestern Radio Corp. Tribune Publishing Co. Pillar of Fire, Inc. Mississippi Broadcasting Co. Scranton Broadcasters, Inc. Scranton Times University of Iowa

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Meridian, Miss. Scranton, Pa.

Iowa City, Iowa

Scranton, Pa.

890 kilocycles 336.9 meters

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

900 kilocycles

KGBU	500	
KHJ	1000	C
KSĒI	250	
WJAX	1000	N
WKY	1000	N
WLBL	2000	D
WMAK	750	<u>C1</u>
WRDA	1000	CP1

910 kilocycles

CFOC	500	1
CICC	500	2
CIHS	250	1
CNRL	500	2
CNRS	500	1
XFX	1000	

920 kilocycles

CMHD	250	
CMX	250	916
HHK	1000	
KFEL	500	1
KFXF	500	ī
KOMO	1000	Ñ
KPRC	1000	+N
WAAF	500	b
WBSO	250	ĎХ
WWI	1000	Ň
XEX	500	14
XFF	250	

930 kilocycles

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	÷Č
WIBĞ	50	Ď.

940 kilocycles

	•	
KGU	1000	
KOIN	1000	С
WAAT	300	
WCSH	500	XN
WDAY	1000	
WFIW	1000	С
WHA	750	D

950 kilocycles 150 952 CMCB KFWB 1000 ----KGHL 500 Ĉ KMBC WRC 1000 500

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.

333.1 meters

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

329.6 meters

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

325.9 meters

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

322.4 meters

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.

319.0 meters

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

315.6 meters

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

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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.

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**

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

Manuel A. Alverez 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

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

Marion A. Mulrony KOIN, Inc. Bremer Broadcasting Corp. WDAY, Inc. The Acme Mills, Inc. University of Wisconsin

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

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INDEX	BY FREQUENCIES A	ND DIAL NUMBERS	
960 kilocycles	312.3 meters	32	
CFCR 500 3 CFCY 250 1 CFRB 4000 2C CHCK 30 1 CHWC 500 3 CJBR 500 3 CKCK 500 3 CNRR 500 3 XEE 101	Regina, Sask. Charlottetown, P. E. I. Toronto, Ont. Charlottetown, P. E. I. Pilot Butte, Sask. Regina, Sask. Regina, Sask. Regina, Sask. Pueblo, Pue.	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	32	
KJR 5000 D XEH 1000 WCFL 1500 N	Seattle, Wash. Monterey, N. L. Chicago, III.	Northwest Broadcasting System, Inc. Ing. Constantino de Tarnava Chicago Federation of Labor	
980 kilocycles	305.9 meters	30	
KDKA 50000 N	Pittsburgh, Pa.	Westinghouse Elec. & Mfg. Co.	
0001:1	202 0 /		KCYS.
990 kilocycles WBZ 15000 IN	302.8 meters		1050 мtrs.
WBZ 15000 1N WBZA 500 1N	Springfield, Mass. Boston, Mass.	Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co.	285.5
1000 kilocycles	299.8 meters		DIAL
KFVD 250 WHO 5000 1N WOC 5000 1N XEI 101	Culver City, Cal. Des Moines, Iowa Davenport, Iowa Morellia, Mexico	Los Angeles Broadcasting Co. Central Broadcasting Co. Central Broadcasting Co. Carlos Gutierrez M.	
1010 kilocycles	296.8 meters		
CFLC 50 3 CKCR 50 3 CKSH 50 KGGF 500 2 KOW 500 WHN 250 1 WIS 500 CP+ WNAD 500 2 WPAP 250 1 WQAO 250 1 WRNY 250 1	Prescott, Ont. Waterloo, Ont. St. Hyacinthe, Que. Picher, Okla. San Jose, Cal. New York City Columbia, S. C. Norman, Okla. New York City New York City New York City	Radio Association John Patterson 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.	CUT
1020 kilocycles	293.9 meters		OUT
WHAS 10000 N WRAX 250 D	Louisville, Ky. Philadelphia, Pa.	Courier-Journal & Times Berachah Church, Inc.	ON L
1030 kilocycles	291.1 meters		Ŏ
CFCF 1650 CJOR 50 CMBW 50 1027 CMBZ 100 1027 CNRV 500	Montreal, Que. Sea Island, B. C. Marianao, Cuba Havana, Cuba Vancouver, B. C.	Canadian Marconi Co. G. C. Chandler Modesto Alvarez Manuel y G. Salas Canadian National Railways	CUT OUT ON DOTTED LINES
1040 kilocycles	288.3 meters		
WBT 5000 N WCBD 5000 1 WMBI 5000 1	Charlotte, N. C. Zion, III. Chicago, III.	Station WBT, Inc. Wilbur Glenn Voliva Moody Bible Institute	
1050 kilocycles	285.5 meters		
KFKB 5000 KNX 5000 X	Milford, Kansas Hollywood, Cal.	KFKB Broadcasting Assn., Inc. Western Broadcast Co.	
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1060 kilocycles 282.8 meters KWJJ WBAL 500 Portland, Ore. iN Baltimore, Md. Norfolk, Nebr. Buffalo, N. Y. Hartford, Conn. 10000 WJAG 1000 1000 WTIC IN 50000 1070 kilocycles **KJBS** 100 D KRLD 10000 ĨC IN Dallas, Texas KTHS 10000 50 D WDZ 100 D 1080 kilocycles WEAR WTAM 1000 1ND 1N Cleveland, Ohio Cleveland, Ohio 50000 1090 kilocycles 5000 Salt Lake City KSL WJJD N 20000 Mooseheart. Ill. 1100 kilocycles CMCE 100 1098 Havana, Cuba Havana, Cuba CMCE CMK KGDM KSOO WLWL 1095 DX 2000 250 Stockton, Cal. 2000 5000 1 WPG 5000 ĩ 1110 kilocycles

5000 KFQA KMOX 5000

1120 kilocycles

1SX 1CX

CFJC	15	
CHGS	25	
CJOC	50	
KFIO	100	D
KFSG	500	3
KMIC	500	3
KRSC	50	D
KTRH	500	2
WDBO	500	+
WDEL	250	+
WHAD	250	1
WISN	250	1C
WTAW	500	2
	150	CP

1130 kilocycles 5000 1N KVOO

WAPI	5000	1N
WOV	1000	D
XEF	105	

1140	kiloc	cycles
KFKX K YW	$10000 \\ 10000$	1N IN

1150 kilocycles 200 CMHA 1154 WRVA 5000 N

280.2 meters

San Francisco, Cal. Hot Springs, Ark. Carthage, Ill. Tuscola, Ill.

277.6 meters

275.1 meters

272.6 meters

Sioux Falls, S. D. New York City Atlantic City, N. J.

270.1 meters

St. Louis, Mo. St. Louis, Mo.

267.7 meters

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

265.3 meters

Tulsa, Okla. Birmingham. Ala. New York City Oaxaca, Oax.

263.0 meters

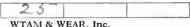
Chicago, Ill. Chicago, Ill.

260.7 meters

Cienfuegos, Cuba Richmond, Va.

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

Julius Brunton & Sons Co. KRLD Radio Corp. Chamber of Commerce Superior Broadcasting Service James L. Bush



WTAM & WEAR, Inc. WTAM & WEAR, Inc.

Radio Service Corp. of Utah

Loyal Order of Moose

Julio E. Power Cuban Broadcasting Co., Hotel Plaza E. F. Peffer Sioux Falls Broadcasting Assn., Inc.

Missionary Society of St. Paul Municipality of Atlantic City

Voice of St. Louis, Inc. Voice of St. Louis, Mo.

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

Southwestern Sales Corp. Alabama Polytechnic Institute International Broadcasting Corp.

Federico Zorrila

Westin	Thouse Fle	c. & Mfg. Co	
Westin	ghouse Ele	c. & Mfg. Co).

22	
Iose Ganduxe	

Larus & Bros. Co., Inc.

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1160 kilocycles 258.5 meters

KTNT 5000 WHAM [] 5000

Muscatine, Iowa Rochester, N. Y.

1170 kilocycles

256.3 meters

KEX	5000	22	Portland, Ore.
KOB	20000		State College, N. M.
WDGY	1000	1	Minneaplis, Minn.
WHDI	500	1	Minneapolis, Minn.

N

1180 kilocycles

254.1 meters

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

1190 kilocycles

WICC

252.0 meters

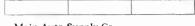
500 D XN Bridgeport, Conn. 5000 San Antonio, Texas

1200 kilocycles 249.9 meters

		•	
KBTM	100	D	Paragould, Ark.
KFHA	50		Gunnison, Colo.
KFJB	100	+	Marshalltown, Iowa
KF JB KFWF	100	5	St. Louis, Mo.
KGCU	100		Mandan, N. D.
KĞDĔ	100	X+	Fergus Falls, Minn.
KGDY	15	- x '	Oldham, S. D.
KĞĒK	50	9	Yuma, Colo.
KĞEŴ	100	9 9	Fort Morgan, Colo.
KGFJ	100		Los Angeles, Cal.
KGFK	50	z	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	Rapid City, S. D. Burlington, Vt.
WCLO	100		Kenosha, Wis.
WCOD	100	3	Harrisburg, Pa.
WEHC	100		Emory, Va.
WFBC	50		Emory, Va. 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.
WJBL WJBW	30	1	New Orleans, La.
WKJC	100	3	Lancaster, Pa.
WKJC WLAP	30	X+	Louisville, Ky.
WLBG	100	+	Petersburg, Va.
WMAY	100	5+	St. Louis. Mo.
WNBO	100	4	Washington, Pa.
WNBW	10		Washington, Pa. Carbondale, Pa. Springfield, Vt.
WNBX	10	2 X	Springfield, Vt.
WORC	100	X	Worcester, Mass.
WRAF	100	8	La Porte, Ind.
WRBL	50		Columbus, Ga.
WWAE	100	8	Hammond, Ind.
XEA	101		Guadalajara, Jal
XES	250		C. Lerdo Dgo.
10-BP	25		Wingham, Ont.

Norman Baker Stromberg-Carlson Tel. Mfg. Co.

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



Main Auto Supply Co. West Virginia Broadcasting Corp.



Bridgeport Broadcasting Station, Inc. Southern Equipment Co.

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. . Albert Loesch and George W. Wright Beehler Elec. Equipment Co. City of Fort Morgan Ben S. McGlashan Lautzenheiser & Mitchell Lautzenneiser & Mitchell Berean Bible Class St. Martin's College Santa Maria Valley R. R. Co. KVOS, Inc. Portable Wireless Tel. Co., Inc. E. R. Irey and F. M. Bowles First Universalist Church Coliseum Place Baptist Church Coliseum Place Baptist Church Washington Light Infantry C. L. Carrell State School of Mines University of Vermont WCLO Radio Corp. 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 Chas. Middleton David Parmer Hammond-Calumet Broadcasting Corp. Alberto Palos Sauza Cerveceria de Durango, S. A. Radio & Electric Shop

KCYS. 1200 MTRS. 249.9DIAL

CUT OUT ON DOTTED LINES

[43]

1210 kilocycles

CFCO	100		
CFNB	50		
CHWK	5		
CKMC	15		
CKPC	25		i
KDFN	100		
KDLR	100		1
KFOR	100		
KFVS	100	6	i
KFXM	100	9	5
KGCR	100		1
KGMP	100	CP	
KGNO	100	ČP	
KMJ	100		1
KPPC	50	9	j
KWEA	100		
WBAX	100 *	1	
WBBL	100		
WCBS	100	2	1
WCOH	100	3	
WCRW	100	4	
WDWF	100	5	1
WEBE	100		9
WEBQ	100	6]
WEDČ	100	4	9
WGBB	100	3	1
WGCM	100		
WHBF	100		1
WHBU	100		1
WIBA WJBI	100 100	3	
WIDI	100		ļ
WJBU WJBY	50	1	
WIW	100		
WLCI	50		1
WLSI	100	5	i
WMAN	50	3	
WMBG	100		1
WMRI	10	3	i
WOCL	25	0	5
WOMT	100		1
WPAW	100	5	i
WRBO	100	X+	
WRBU	100		
WSBC	100	4	
WSIX	100		;
WTAX	50	2	:

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

247.8 meters

Western Ontario "Better Radio" Club
James S. Neill & Sons, Ltd.
Chilliwack Broadcasting Co., Ltd.
R. L. MacAdam
Wallace Russ
Donald Lewis Hathaway
KDLR, Inc.
Howard A. Shuman
Hirsch Battery & Radio Co.
J. C. & E. W. Lee
Cutler's Radio Brdcstg. Service, Inc.
Bryant Radio & Electric Co.
Melvin A. McCollum
James McClatchy Co.
Pasadena Presbyterian Church
Hello World Broadcasting Corp.
John H. Stenger, Jr.
Grace Covenant Presbyterian Church
H. L. Dewing & Chas, Messter
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.
Peter J. Prinz
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
KWSC	500	X+
WCAD	500	D
WCAE	1000	N
WDAE	1000	
WREN	1000	1N

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

1230 kilocycles

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

1240 kilocycles

KSAT WACO WGHP 1000 1000 Î C 1000

243.8 meters

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

241.8 meters

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

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

University of Kansas State College of Washington St. Lawrence University

Gimbel Bros Tampa Publishing Co.

Jenny Wren Co.

T	A	 D 1	

Texas Air Transport Brdcst. Central Texas Broadcasting Co., Inc. American Broadcasting Corp.

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www.americanradiohistory.com

1250 kilocvcles 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	ĈP

Little Rock, Ark. 1260 kilocycles 238.0 meters

Northfield, Minn. Long Beach, Cal.

New Orleans, La. Newark, N. J.

Minneapolis, Minn. Minneapolis, Minn. Paterson, N. J. Minneapolis, Minn.

Boise, Idaho Newark, N. J. Northfield, Minn.

KOIL	1000	С
KRGV	500	1
KVOA	500	D
KWWG	500	1
WLBW	500	C+
WTOC	500	

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

1270 kilocycles KFUM KGCA KOL

KOL KTW KWLC WASH WEAI WFBR

WJDX

Colorado Springs, Colo. 1000 50 $\overline{2D}$ 1000 ã 1000 3 100 2D 500 Đ 1000 250 +N500

1

Decorah, Iowa Seattle, Wash. Seattle, Wash. Geard Rapids, Nich. Grand Rapids, Mich. Ithaca, N. Y. Baltimore, Md. Jackson, Miss. Grand Rapids, Mich.

234.2 meters

236.1 meters

500 1280 kilocycles

1000 KFBB WCAM WCAP 500 ť 500 1 WDOD WOAX WRR 1000 +c500

500

1290 kilocycles

Great Falls, Mont. Camden, N. J. Asbury Park, N. J. Chattanooga, Tenn. Trenton, N. J. Dallas, Texas 232.4 meters

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

KDYL	1000	С
KFUL	500	1
KLCN	50	D
KTSA	1000	1+C
WEBC	1000	X+N
WJAS	1000	C
WNBZ	50	D

1300 kilocycles

KFH	1000	2C
KFJR	500	3
KGEF	1000	4
KTBI	1000	4
KTBR	500	3
WBBR	1000	1
WEVD	500	1
WHAP	1000	1
WHAZ	500	1
WIOD	1000	N
woo	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.

230.6 meters

1310 kilocycles 100 100

100 10

100 100

15

CP

7

7--

- - -

KCRJ KFBK

KFGQ KFIU KFJY KFPL

KFPM

228.9 meters

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

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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

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

W. D. Corley Charles W. Greenley

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

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

	1210
padcasting Corp. et Co. dcasting Co. upply House	→ 1310 MTRS. 228.9 DIAL
	t Co.

Radio Station KFH Co. 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 Usle of Dreams Broadcasting Co. Isle of Dreams Broadcasting Co. Unity School of Christianity

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

KCYS

CUT OUT ON DOTTED LINES

	KFUP KFXJ KFXR KGBX KGCX	100 50 100 100	8 8 + + X	Denver, Colo. Edgewater, Colo. Oklahoma City St. Joseph, Mo.	Fitzsimmons General Hospital R. G. Howell Exchange Ave. Baptist Church Foster-Hall Tire Co
	KGEZ	100 100	Ť	Wolf Point, Mont.	First State Bank of Vida
	KGFW	100	<u>^</u>	Kalispell, Mont. Ravenna, Neb.	Chamber of Commerce
	KIT "	50		Yakima, Wash.	Otto F. Sothman and Roy H. McConnell
	KMED	50		Medford, Ore.	Carl E. Haymond Mrs. W. J. Virgin
	KRMD	5 0	9	Shreveport, La.	Robert M. Dean
	KTSL	100	ģ	Shreveport, La.	Houseman Sheet Metal Works, Inc.
	KŤŠM	100	ź	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	Eagle Broadcasting Co.
	WEBR	100	+ 3	Buífalo, N. Y.	Howell Broadcasting Co., Inc.
	WFBG	100	3	Altoona, Pa.	Wm. F. Gable Co.
	WFDF	100	4	Flint, Mich.	Frank D. Fallain
	WFKD	50	4	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
	WGAL	15	5X	Lancaster, Pa.	WGAL, Inc.
	WGH	100	4X	Newport News, Va.	Virginia Broadcasting Co., Inc. Albert A. Walker
	WHAT	100		Philadelphia, Pa.	Albert A. Walker
	WIBU	100	3	Poynette, Wis.	William C. Forrest
	WJAC	100		Johnstown, Pa.	Johnstown Automobile Co.
	WJAK WKAV	50	6	Marion, Ind.	Marion Broadcasting Co.
	WKBB	$\begin{array}{c} 100 \\ 100 \end{array}$		Laconia, N. H.	Laconia Radio Club
	WKDD		1	Joliet, Ill.	Sanders Bros. Radio Station
	WKBC WKBS	100		Birmingham, Ala.	R. B. Broyles Furniture Co.
	WLBC	100 50	6	Galesburg, Ill.	Permil N. Nelson
	WMBO	100	-	Muncie, Ind.	Donald A. Burton
	WNBH	100		Auburn, N. Y. New Bedford, Mass.	Radio Service Laboratories
	WNBJ	50		Knoxville, Tenn.	New Bedford Broadcasting Co.
	WOBT	100		Union City, Tenn.	Stewart Broadcasting Co. Tittsworth's Radio & Music Shop
	WOL	100	1	Washington, D. C.	American Broadcasting Co.
	WRAW	100	5XZ	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
	WSJŠ	100	CP	Winston-Salem, N. C.	Winston-Salem Journal Co.

1320 kilocycles 227.1 meters

KGHB	500	
KGHF	250	X+
KGIQ	250	1
KGMB	500	
KID	500	1+
WADC	1000	C
WSMB	500	Ň

1330 kilocycles

KGB KSCJ WDRC WSAI WTAQ	250 1000 500 500 1000	$\overline{1C} + X$ \overline{N} 1
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1340 kilocycles

KFPY	1000	CX
WCOA	500	
WSPD	500	C+

1350 kilocycles

KWK	1000	N
WBNY	250	1
WCDA	250	1
WKBQ WMSG	250	1
WMSĞ	250	1

225.4 meters

San Diego, Cal. Sioux City, Iowa New Haven, Conn. Cincinnati, Ohio Eau Claire, Wis.

223.7 meters

Spokane, Wash. Pensacola, Fla. Toledo, Ohio

222.1 meters

St. L	ouis,	Mo.
	York	
New	York	City
	York	
New	York	City

Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co.

Honolulu Broadcasting Co., Ltd. C. P. Ritchie & J. E. Finch Radio Broadcasting Corp.

Pickwick Broadcasting Corp.

Perkins Bros. Co.

Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co.

Naulo broadcasting Corp. Honolulu Broadcasting Co., Ltd. Jack W. Duckworth, Jr. Allen T. Simmons Saenger Theatre & Maison Blanche Co.

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

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1360 kilocycles 220.4 meters

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

KFLX 100
KWKC 100 Francisky, Classing, Class
KVL 100 3 Seattle Wash

Champlin Refining Co. Leese Bros. KFJI Broadcasters, Inc. University of North Dakota Estate of H. C. Meachem George Roy Clough Tucson Motor Service Co. Radio Sem Braadcast Co. Radio Sam Broadcast Co., Inc. Mitchell Broadcasting Corp. Kith Tabernacle Assn. W. E. Whitmore KGKL, Inc., Opr. by Ragsdale Auto Jay Peters Mission Broadcasting Co. H. H. Hanseth First Congregational Church KVL Inc. Wilson Duncan Broadcasting Co. 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 Inc. Lexington Air Stations Ed. A. & Philip P. Allen F. J. Reynolds Nassau Broadcasting Corp. A. J. St. Antoine C. R. Cummins Woodruff Furniture Co., Inc. Wilmington Radio Association Racine Broadcasting Corp. Seneca Vocational School W. N. Parker & H. H. Metcalfe

1380 kilocycles 217.3 meters

V

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

1390 kilocycles 215.7 meters

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

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10		CUT
Arkansas Broadcasti Nielson Radio & Spo University of Arkans Radio Air Service Co	ting Goods Co	OUT ON

Doubleday-Hill Electric Co. Berry Seed Co.

Callaway Music Co. Stanley M. Krohn, Jr.

1390 MTRS. 215.7DIAL

KCYS.

1400 kilocycles

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

1410 kilocycles

KFLV	500	4
KGRS	1000	1
WBCM	500	C
WDAG	250	1
WHBL	500	4
WLEX	500	2X
WMAF	500	2
WODX	500	3
WRBX	250	
WSFA	500	3
WCCH	500	2

1420 kilocycles

KBPS	100	4	Portland, (
KFIZ	100		Fond du L
KFOU	100	5	Holy City, Seattle, W
KFÓW	100		Seattle, Wa
KFXD	100	x	lerome. Id
KFXY	100		Flagstaff, /
KFYO	100	+	Abilene, T
KGFF	100		Alva, Okla
KGGC	100	5	San Franci
KGIW	100		Trinidad, (
KGIX	100	CP	Las Vegas,
KGKX	100		Sand Poin
KICK	100		Red Oak, I
KLPM	100		Minot, No
KORE	100		Eugene, O
KTAP	100		San Anton
KTUE	100	x	Houston,
KXL	100	4	Portland, (
WEDH	30	·	Erie, Pa.
WEHS	100	2	Evanston,
WELL	50		Battle Cree
WFDW	100		Talladega,
WHDL	10	2	Tupper La
WHFC	100	2	Cicero, Ill.
WHIS	100		Bluefield,
WIAS	100		Ottumwa,
WIBR	50		Steubenvil
WILM	100		Wilmingto
W JBO	100	2	New Orlea
WKBI	50	2	Chicago, I
WLBF	100		Kansas Ci
WMBC	100	X+	Detroit, M
WMBH	100	÷	Joplin, Mo
WSPA	100	+ + X	Spartanbu
WTBO	50	x	Cumberla
1430 1	•1		200 7

1430 kilocycles

KECA	1000	N
KGNF	500	CPD
WBAK	500	1X+
WCAH	500	1C
WGBC	500	2
WHP	500	1C
WNBR	500	2

1440 kilocycles

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

212.6 meters

214.2 meters

Ogden, Utah Chickasha, Okla. Lafayette, Ind. Brooklyn, N. Y. Brooklyn, N. Y.

Culver, Ind. Indianapolis, Ind. Brooklyn, N. Y. Brooklyn, N. Y.

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

211.1 meters

Ore. .ac, Wis. Cal. ash. laho Ariz. exas a. isco, Cal. Colo. Nevada t, Idaho Iowa rth Dakota re. nio, Texas Texas Ore. 111. ek, Mich. Ala. ke, N. Y. W. Va. Iowa lle, Ohio on, Del. ins, La. [11. ty, Kas. lich. ο. urg, S. C. ind, Md.

209.7 meters

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

208.2 meters

Oakland, Cal. Rochester, N. Y. Allentown, Pa. Rochester, N. Y. Peery Building Co. 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.

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. Richmond Development Corp. Montgomery Broadcasting Corp. Tremont Temple Baptist Church

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 WEHS, Inc. Enquirer-News Co. 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 WLBF Broadcasting Co. Michigan Broadcasting Co., Inc. Edwin Dudley Aber Voice of South Carolina Associated Broadcasting Corp.

Pacific Development Radio Co. Herbert Logan Spencer Penna. State Police Commercial Radio Service Co. First Baptist Church Pennsylvania Broadcasting Co. Memphis Broadcasting Co.

D

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

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	II (DE)	DI HEQUERCEED		
WMBD WNRC WOKO WSAN WTAD	500 3+ 500 2- 500 2 250 1 500 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		
KTBS WBMS WCSO WFJC WHOM WKBO WNJ WSAR WTFI	1000	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		
KS TP WJSV	10000 NX 10000	St. Paul, Minn. Alexandria, Va.	National Battery Broadcasting Co. Independent Publishing Co.	
1470	kilocycles	204.0 meters	5	
KGA WLAC WTNT	5000 5000 1C 5000 1	Spokane, Wash. Nashville, Tenn. Nashville, Tenn.	Northwest Broadcasting System, Inc. Life & Casualty Insurance Co. Tennessee Publishing Co.	
1480	kilocycles	202.6 meters		
KFJF WKBW	•	Oklahoma City Buffalo, N. Y.	National Radio Mfg. Co. Churchill Evangelistic Assn., Inc.	
1490	kilocycles	201.2 meters		
WCHI WCKY WJAZ WORD	5000 1 5000 1N 5000 1 5000 1 5000 1	Chicago, III. Covington, Ky. Chicago, III. Chicago, III.	Radiophone Broadcasting Corp. L. B. Wilson, Inc. Zenith Radio Corp. People's Pulpit Association	
1500	kilocycles	199.9 meters		
KDB KGFI KGEZ KGKY KGMD KPCB KFPCB KFPCB KFPCB KFPCB KFPCB KUJ KUT KUT KUT KUT KUT KUT KUT KUT KUT KUT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	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. Boston, Mass. Connersville, Ind. Ludington, Mich. Long Island City, N. Y. Boston, Mass. Newport, R. I. Wilkinsburg, Pa. Brooklyn, N. Y. Long Beach, N. Y. Lapeer, Mich. Binghamton, N. Y. Bristol, Tenn. Philadelphia, Pa. Woodside, N. Y.	Dwight Faulding Eagle Broadcasting Co., Inc. Grant City Park Corp. Eagle Publishing Co. Hilliard Co., Inc. Dispatch Publishing Co. Wescoast Broadcasting Co. Miller & Klahn Wescoast Broadcasting Co. Pacific Western Broadcasting Houston Broadcasting Co. Columbia Broadcasting Co., Inc. Rice Hotel Schaeffer Radio Co. Boston Broadcasting Co. Knox Battery & Electric Co. K. L. Ashbacker John N. Brahy Boston Broadcasting Co. LeRoy Joseph Beebe Rev. J. W. Sproul Paul J. Gollhofer Arthur Faske First M. E. Church Hewitt-Wood Radio Co., Inc. Radiophone Broadcasting Co. Long Island Broadcasting Co.	ксуз. 1500 mtrs. 199.9 DIAL

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ALABAMA				Santa Barbara J-3 Santa Maria J-2-b	100 100	KDB KSMR	1500 1200
Birmingham K-19-a	5000	WAPI	1130	Stockton H-2-b	250	KGDM	1100
•	500	WBRC	930	•	100	KWG	1200
Gadsden K-20-a	100 50	WKBC WJBY	1310 1210	Westminster	5000	KPWF	1 490
Mobile L-19	500	wodx	1410	CANAL ZONE			
Montgomery K-19 Talladega K-20	500	WSFA	1410		750	NUDA	050
Talladega K-20	100	WFDW	1420	Balboa	750	NBA	85(
ALASKA				COLORADO			
	100	VEOD	1220	Colo. Springs H-10	1000	KFUM	1270
Anchorage Juneau	100 10	KFQD KFIU	1230 1310	Denver G-10-b	500	KFEL	920
Ketchikan	500	KGBU	900		100	KFUP	1310
					500 1000	KFXF KLZ	920 560
ARIZONA					12500	KOA	830
Flagstaff_J-7	100	KFXY	1420		500	KPOF	880
Jerome J-7 Phoenix K-7	100 500	KCRJ KOY	1310 1390	Edgewater G-10 Fort Morgan G-11	50 100	KFXJ KGEW	1310
Floenix K-7	500	KTAR	620	Greeley F-10	500	KFKA	1200
Prescott J-6	100	KPJM	1500	Gunnison H-9	50	KFHA	1200
Tucson L-7	100	KGAR	1370 1260	Pueblo H-11	250	KGHF	1320
ARKANSAS	500	KVOA	1200	Trinidad H-10 Yuma G-11	100 50	KGIW KGEK	1420
ARRANSAS					30	ROBR	1200
Blytheville I-18	50	KLCN KUOA	1290	CONNECTICUT			
Fayetteville I-16	1000 10000	KUOA	1390 1070	Bridgeport F-26	500	WICC	1190
Hot Springs J-16 Little Rock J-17	10000	KGHI	1200	Hartford E-26-d	50000	WTIC	1060
	250	KGJF	890	New Haven F-26-b Storrs	500	WDRC	1330
	1000	KLŔA	1390	Storrs	250	WCAC	600
Paragould I-17	500 100	KBTM	1250 1200	DELAWARE			
Turugouro I II	100	1421111		Wilmington G-25	250	WDEL	1120
CALIFORNIA					1 00	WILM	1420
Berkeley H-1-a	100	KRE	1370	DIOTRICT OF O	<u></u>		
Burbank J-4	500	KELW	780	DISTRICT OF C	OLUMI	3IA	
Culver City K-3	250 100	KFVD KXO	1000 1200	Washington G-24-c	250	WMAL	630
El Centro K-5 Fresno I-3	100	KMI	1210		500 100	WRC WOL	950 1310
Hollywood K-3	1000	KFWB	950	FLODIDA	100	WOL	1510
	500	KMTR	570 1050	FLORIDA			
Holy City I-2	5000 100	KNX KFOU	1420	Clearwater N-21 Gainesville M-21	1000 5000	WFLA WRUF	620
Inglewood K-4	500	KMĬČ	1120	Jacksonville M-22	1000	WIAX	830 900
Long Beach K-4-a	1000	KFOX	1250	Miami O-23	1000	W JAX W QAM	560
Los Angeles K-3-b	1000 1000	KGER KECA	1360 1430	Miami Beach O-23	1000	WIOD	1300
Los Angeles IC-5-D	5000	KFI	640	Orlando N-22 Pensacola L-19	500 500	WDBO WCOA	1120 1340
	250	KFQZ	860	St. Petersburg N-21	1000	WSUN	620
	500 1000	KFSG KGEF	1120 1300	Tampa N-22-b	1000	WDAE	1220
	100	KGFJ	1200	00000	100	WMBR	1370
	1000	KHJ	900	GEORGIA			
	500 500	KMPC KTM	710 780	Atlanta K-20-a	250	WGST	890
	1000	KTBI	1300	Columbus K-20	5000 50	WSB WRBL	740 1200
Oakland H-1-b	500	KFWM	930	Macon K-21	250	WMAZ	890
	7500	KGO KLS	790	Rome J-20	100	WFDV	1370
	250 500	KLS	1440 880	Savannah K-22	500	WTOC	1260
	1000	KTAB	560	Tifton L-21 Toccoa J-21	20 500	WRBI WTFI	1310 1450
Pasadena J-4	50	KPPC	1210		000		1400
Sacramento H-2-a	1000 100	KPSN KFBK	1360 1310	HAWAII			
San Bernardino J-3	100	KFXM	1210	Honolulu	500	KGHB	1320
San Diego K-4-b	500	KFXM KFSD	600		500	KGMB	1320
Com England II 1	250	KGB	1330		500	KGU	940
San Francisco H-1-c	1000 500	KFRC KFWI	610 930	IDAHO			
		KGGC	1420	Boise D-4	1000	KIDO	1250
	100	ROOC					
	100 100	KJBS	1070	Idaho Falls D-7	500	KID	1320
	100 100 5000	KJBS KPO	1070 680	Jerome E-5	50	KFXD	1420
San Jose I-2	100 100	KJBS KPO KYA KOW	1070	Idaho Falls D-7 Jerome E-5 Pocatello E-7 Sand Point A-4		KID KFXD KSEI KGKX	

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ILLINOIS				Ottumwa F-17	100 100	WIAS	1420 1420
Carthage F-17-e	50	WCAZ	1070	Red Oak F-15 Shenanhoah F-15-c	500	KICK KFNF	890
Chicago E-19-g	10000	WCAZ KFKX	1140		500	KMA KSCJ	930
	10000	KYW WAAF	1140 920	Sioux City E-15	1000	KSCJ	1330 600
	500 25000	WBBM	770	Waterloo F-17	500	WMŤ	000
	1000	WCFL	970	KANSAS			
	5000	WCHI	1490	Dodge City H-13	100	KGNO	1210
	100 100	WCRW WEDC	1210 1210	Gueda Springs	250	Rono	680
	50000	WENR	870	Kansas City G-15	100	WLBF	1420
	500	WGES	1360	Lawrence G-15-a	1000 1000	KFKU WREN	1220 1220
	25000	WGN	720	Manhattan G-14-a	500	KSAC	580
	1000 5000	WIBO	560 1490	Milford G-14	5000	KFKB	1050
	25000	WJAZ WJBT WKBI	770	Topeka G-14	500	WIBW	580
	50	WKBI	1420	Wichita H-14-a	1000	KFH	1300
	25000	WLIB	720	LUDN WEIGHT			
	5000 5000	WLS WMAQ	870 670	KENTUCKY			
	5000	WMBI	1040	Covington G-20	5000	WCKY	1490
	5000	WORD	1490	Hopkinsville I-19 Louisville H-20	1000 10000	WFIW WHAS	940 1020
	500	WPCC	560	Louisville 11-20	30	WLAP	1200
Cicero E-19	100 100	WSBC WHFC	1210 1420	LOUVOLANIA			
Decatur G-18	100	WIBL	1200	LOUISIANA			
Evanston E-19	100	WJBL WEHS	1420	New Orleans M-17	100	WABZ	1200
Galesburg F-18-a	100 100	WKBS	1310		1000 100	WDSU W IBO	1250 1420
Harrisburg H-18-b Joliet E-19-f	100	WEBQ WCLS	1210 1310	2	30	W JBO W JBW WSMB	1200
•	100	WKBB	1310		500	WSMB	1320
La Salle F-18-d	100	WJBC WJJD	1200	Dame M 17	5000	WWL	850
Mooseheart E-18-e Peoria Heights G-18	20000 500	WMBD	1090 1440	Rayne M-17 Shreveport K-16	150 50	KRMD	1120 1310
Ouincy G-17	500	WTAD	1440		1000	KTBS KTSL	1450
Quincy G-17 Rockford E-18-c	500	WTAD KFLV	1410		100	KTSL	1310
Rock Island F-17-c	100	WHBF	1210		100 10000	KWEA KWKH	1210 850
Springfield G-18 Streator F-18-c	100 50	WCBS WTAX	1210 1210	NA INTO	10000	K W KII	850
Tuscola G-19-b Urbana G-19-a	100	WDZ	1070	MAINE			
Urbana G-19-a	250	WILL	890	Bangor C-28-b	100	WABI	1200
Zion E-19-c	5000	WCBD	1040	Portland D-28-b	500 500	WLBZ WCSH	620 940
INDIANA				0	000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Anderson G-20-a	100	WHBU	1210	MARYLAND			
Connersville G-20	100	WKBV	1500	Baltimore G-24-a	10000	WBAL	1060
Culver F-19-d	500	WCMA	1400		250	WCAO	600
Evansville H-19 Fort Wayne F-20-b	500 100	WGBF WGL	630 1370		100 250	WCBM WFBR	1370 1270
Fore wayne 1-20-5	10000	WOWO	1180	Cumberland G-23	50	WTBO	1420
Gary F-19	1000	WJKS WWAE	1360		-		
Hammond F-19	100 1000	WWAE	1200 1230	MASSACHUSET	TS		
Indianapolis G-19-c	500	WKBF	1400	Boston E-27-c	1000	WBIS	1230
Lafayette G-19	500	WBAA	1400		500 1000	WBZA WEEI	990 590
La Porte F-19-c	100	WRAF	1200		1000	WLOE	1500
Marion F-20 Muncie G-20	50 50	WJAK WLBC	1310 1310		50	WBBS	1500
South Bend F-20-a	500	WSBT	1230		1000	WNAC	1230
Terre Haute G-19	100	WBOW	1310	Fall River E-27	500 250	WSSH WSAR	1410 1450
				Gloucester E-27	1000	WHDH	830
IOWA				Lexington E-27	500	WLEX	1410
Ames E-16-c	5000	WOI	640		100	WLEY	1370
Boone E-16	100	KFGO	1310	New Bedford E-27 S. Dartmouth E-27	100 500	WNBH WMAF	1310 1410
Cedar Rapids E-17-a Clarinda E-15-c	100	KWCR	1310	Springfield E-26-b	15000	WBZ	990
Clarinda E-15-c Council Bluffs F-15-b	500 1000	KSO KOIL	1380 1260	Springfield E-26-b Wellesley Hills E-27	250	WBSO	920
Davenport F-17-a	5000	WOC	1000	Worcester E-27-b	100 250	WORC	1200
Decorah D-17	50	KGCA	1270		250	WTAG .	580
	100 5000	KWLC	1270	MICHIGAN			
		WHU	1000 1310		50	WELL	1420
Des Moines F-16-a Fort Dodge E-16-a		KFIY					
Des Molnes F-16-a Fort Dodge E-16-a Iowa City E-17-b	100 500	WSUI	880	Battle Creek E-20 Bay City D-21	500	WELL WBCM	1410
Des Moines F-16-a Fort Dodge E-16-a Iowa City E-17-b Marshalltown E-16-d Muscatine F-17-b	100	WHO KFJY WSUI KFJB KTNT		Battle Creek E-20 Bay City D-21 Berrien Spgs. E-19 Calumet B-18		WELL WBCM WEMC WHDF	

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Detroit E-21-g	1000 5000	WGHP	1240 750	NEBRASKA			
East Lansing E-20-b Flint E-21-a	100 1000 1000 100	WJR WMBC WWJ WKAR WFDF	1420 920 830 1310	Clay Center G-14 Lincoln F-14-b	1000 5000 100 500	KMMJ KFAB KFOR WCAJ	740 770 1210 590
Grand Rapids E-20-a Jackson E-20	500 500 100	WASH WOOD WIBM	1270 1270 1370	Norfolk E-14-c North Platte F-13 Omaha F-15-a	1000 500 500	W JAĞ KGNF WAAW	1060 1430 660
Lapeer E-21	100	WMPC	1500		1000	WOW	590
Ludington D-19 Royal Oak E-21-e	50 50	WKBZ WAGM	1500 1310	Ravenna F-13 Scottsbluff F-11	100 100	KGFW KGKY	1310 1500
Ypsilanti E-21-f	50	WJBK	1370	York F-13	500	KGBZ	930
				NEVADA			
MINNESOTA				Las Vegas I-5	100 100	KGIX KOH	1420 1370
Fergus Falls B-15 Hallock A-14	100 50	KGDE KGFK	1200 1200	Reno G-3	100	KOII	1570
Minneapolis C-16-b	7500 1000	KGFK WCCO WDGY	810 1170	NEW HAMPSHIF	RE		
	500 500	WGMS WHDI	1250 1170	Laconia D-27	100	WKAV	1310
Northfield D-16	500 1000 1000	WLB WRHM	1250 1250 1250	NEW JERSEY			
	1000	KFMX WCAL	1250 1250 1460	Asbury Park G-26	500	WCAP	1280
St. Paul C-16-c	10000	KSTP	1400	Atlantic City G-25 Camden F-25-f	5000 500	WPG WCAM	1100 1280
				Hackensack F-26 Jersey City F-26-d	250 300	WBMS WAAT	1450 940
MISSISSIPPI					250 250	WHOM WKBO	1450 1450
Greenville K-17	100	WRBQ	1210	Newark F-25-h	1000 250	WAAM WGCP	1250 1250
Gulfport M-18 Hattiesburg L-18	100 10	WGCM WRBJ	1210 1370 1270		250 5000	WNJ WOR	1450 710
Jackson L-18 Meridian L-18	500 500	W JDX WCOC	1270 880	Paterson F-26-c Red Bank G-26	1000 100	WODA WJBI	1250 1210
Vicksburg K-17	300	WQBC	1360	Trenton F-25	500	WOAX	1280
				NEW MEXICO			
MISSOURI				Albuquerque J-9	250	KGGM	1230
Cp. Girardeau H-18-c	100	KFVS	1210	Raton I-11 Roswell K-10	50 100	KGFL KGMD	1370 1500
Columbia G-16-b Grant City F-15	500 50 500	KFRU KGIZ WOS	630 1500	State College K-9	20000	KOB	1170
Jefferson City H-16-a Joplin H-16 Kansas City G-15-b	100 1000	WMBH KMBC	630 1420 950	NEW YORK			
Runsas City G-10-5	100 1000	KWKC WDAF	1370 610	Auburn E-24	100 100	WMBO WNBF	1310 1500
	500 1000	WHB WOO	860 1300	Binghamton E-25 Brooklyn F-26-f	500	WBBC	1400
St. Joseph G-15	2500 100	KFEQ KGBX	680 1310		500 500	WCGU	1400 1400
St. Louis H-18-a	5000	KFQA	1110		100 500	WMBQ WSGH	$1500 \\ 1400$
	500 100	KFUO KFWF	550 1200	Buffalo E-23-a	100 1000	WEBR WGR	1310 550
	5000 500	KMOX KSD KWK	1110 550		5000 1000	WKBW WKEN	1480 1060
	1000 1000	WEW	1350 760		750 1000	WMAK WRDA	900 900
	100 100	WIL WMAY	1200 1200	Canton D-25	50 500	WSVS WCAD	1370 1220
				Cazenovia E-25-b Freeport F-26-1	250 1000	WMAC WGBB	570 1210
MONTANA				Glens FallsE-26	1000 50 1000	WEAI	1370 1270
Billings C-8	500	KGHL	950	Ithaca E-24-d	1000	WLCI	1210
Billings C-8 Butte C-7 Great Falls A-8	500 1000	KGIR KFBB	1360 1280	Jamaica F-26-f Jamestown E-23-b	10 25	WMRJ WOCL	1210 1210
Kalispell A-5 Wolf Point A-10	$100 \\ 100$	KGEZ KGCX	1310 1310	Long Island City F-26 Long Beach F-26	100 100	WLBX WMIL	1500 1500

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New York City F-26	5000 250	WABC WBNY	860 1350	Steubenville F-22 Toledo F-21-a	50 500	WIBR WSPD	1420 1340
	5000	WBOQ	860	Youngstown F-22	500	WKBN	570
	250 50000	WCDA WEAF	1350 660	OKLAHOMA			
	500	WEVD	1300	Alva I-13	100	KGFF	1420
	600 1000	WGBS WHAP	600 1300	Chickasha J-14-b	250	KOCW	1400
	250	WHN	1010	Elk City J-13 Enid I-14	100 100	KGMP KCRC	1210 1370
	30000 250	W JZ WKBQ	760 1350	Norman J-14-a	500	WNAD	1 01 0
	5000	WLWL	1100	Oklahoma I-14-b	5000 100	KF JF KF XR	1480 1310
	500 250	WMCA	570 1350		100	KGFG	1370
	500	WMSG	570	Picher I-15	1000 500	WKY	900 1010
	1000 250	WOV WPAP	1130 1010	Ponca City I-14	100	KGGF WBBZ	1200
	500	WPCH	810	Tulsa I-15	500 0	KVOO	1130
	250 250	WQAO WRNY	1010 1010	OREGON			
Patchogue F-26	100	WPOE	1370		100	KFJI	1370
Poughkeepsie F-26-a Rochester E-24-b	500 500	WOKO WABO	1440 1440	Astoria C-1-a Corvallis D-1	1000	KOAC	550
Rochester E-24-D	5000	WHAM	1160	Eugene D-1	100	KORE	1420 1370
D	500	WHEC	1440 1300	Marshfield E-1 Medford E-1	100 50	KOOS KMED	1310
Rossville F-26 Saranac Lake D-26	1000 50	WBBR WNBZ	1290	Portland C-1-b	5000	KEX	1170
Schenectady E-25-c	50000	WGY	790		100 500	KBPS KF IR	1420 1300
Syracuse E-24-c	1000 250	WFBL WSYR	1360 570	1	1000	KF JR KGW	620
Troy E-21-a	500	WHAZ	1300		1000 500	KOIN KTBR	940 1300
Tupper Lake D-25 Utica E-25-a	10 100	WHDL WIBX	1420 1200		15	KVEP	1500
Woodside F-26	100	WWRL	1500	~	500 100	KWJJ KXL	1060 1420
Yonkers E-26	100	WCOH	1210		100		1120
NORTH CAROL				PENNSYLVANIA	100	WCM	940
Asheville J-21 Charlotte L-22	1000 5000	WWNC WBT	570 1040	Adamsburg Allentown F-25-c	250	WGM WCBA WSAN	1440
Charlotte J-22 Gastonia J-22	100	WRBU	1210		250 100	WSAN WFBG	1440 1310
Greensboro I-22	500 1000	WNRC WPTF	1440 680	Altoona F-24-c Carbondale F-25	10	WNBW	1200
Raleigh I-23 Wilmington J-24	100	WRBT	1370	Elkins Park G-25-c	50 30	WIBG WEDH	930 1420
Winston-Salem I-22	100	wsjs	1310	Erie E-23 Grove City F-23-b	100	WSAJ	1310
NORTH DAKO	ГА			Harrisburg F-24-d	500 100	WBAK WCOD	1430 1200
Bismarck B-12	1000	KFYR	550		500	WHP	1430
Devils Lake A-13	100	KDLR	1210	Jeannette G-23	$\begin{array}{c} 100 \\ 100 \end{array}$	WOOP WJAC	840 1310
Fargo B-14 Crond Forks A 14	1000 100	WDAY	940 1370	Johnstown F-23-d Lancaster G-24-a	15	WGAL	1310
Grand Forks A-14 Mandan B-12	100	KFJM KGCU	1200		100	WKIC	1200
Minot A-12	100	KLPM	1420	Lewisburg F-24-b Oil City F-23-a	100 500	W JBU WLBW	1210 1260
OHIO			- 1	Philadelphia G-25-d	10000	WCAU	820
Akron F-22-b	1000	WADC	1320		100 500	WELK WFAN	1370 610
ARION F-22-D	500	WFJC	1450		500	WFI	560
Cambridge F-22 Canton F-22-d	100 10	WEBE WHBC	1210 1200		50 100	WFKD WHAT	1310 1310
Cincinnati G-20-e					500	WIP	610
0		WFBE	1200				
	100 1000	WFBE WKRC	1200 550		500	WLIT WPEN	560 1500
	100 1000 50000	WKRC WLW			500 100 250	WPEN WRAX	1500 1020
Cleveland F-22-a	100 1000 50000 500 1000	WKRC WLW WSAI WEAR	550 700 1330 1080	Pittsburgh F-23-c	500 100 250 50000	WPEN WRAX KDKA	1500 1020 980
Cleveland F-22-a	$ \begin{array}{r} 100 \\ 1000 \\ 5000 \\ 500 \\ 10$	WKRC WLW WSAI WEAR WHK	550 700 1330 1080 1390	Pittsburgh F-23-c	500 100 250 50000 500 1000	WPEN WRAX KDKA KQV WCAE	1500 1020 980 1380 1220
	100 1000 50000 1000 1000 500 5000	WKRC WLW WSAI WEAR WHK WJAY WTAM	550 700 1330 1080 1390 610 1080		500 100 250 50000 500 1000 1000	WPEN WRAX KDKA KQV WCAE WIAS	1500 1020 980 1380 1220 1290
Cleveland F-22-a Columbus G-21-b	100 1000 50000 1000 1000 500 5000 5000	WKRC WLW WSAI WEAR WHK WJAY WTAM WAIU	550 700 1330 1080 1390 610 1080 640	Pittsburgh F-23-c Reading F-25-d Scranton F-25-a	500 100 250 50000 500 1000 1000 100 250	WPEN WRAX KDKA KQV WCAE WJAS WRAW WGBI	1500 1020 980 1380 1220 1290 1310 880
	$\begin{array}{c} 100 \\ 1000 \\ 50000 \\ 500 \\ 1000 \\ 1000 \\ 500 \\ 500 \\ 5000 \\ 500 \\ 500 \\ 500 \\ 500 \\ 500 \\ 500 \\ 500 \end{array}$	WKRC WLW WSAI WEAR WHK WJAY WTAM WAIU WCAH WEAO	550 700 1330 1080 1390 610 1080 640 1430 570	Reading F-25-d Scranton F-25-a	500 100 250 50000 500 1000 1000 1000 250 250	WPEN WRAX KDKA KQV WCAE WJAS WRAW WGBI WOAN	1500 1020 980 1380 1220 1290 1310 880 880
Columbus G-21-b	$\begin{array}{c} 100\\ 1000\\ 50000\\ 500\\ 1000\\ 500\\ 5000\\ 5000\\ 5000\\ 500\\ 5$	WKRC WLW WSAI WEAR WHK WJAY WTAM WAIU WCAH WEAO WMAN	550 700 1330 1080 1390 610 1080 640 1430 570 1210	Reading F-25-d Scranton F-25-a State College F-24-a	500 100 250 50000 1000 1000 100 250 250 500 100	WPEN WRAX KOKA KOV WCAE WJAS WRAW WGBI WQAN WPSC WNBO	1500 1020 980 1380 1220 1290 1310 880
Columbus G-21-b Dayton G-21-e Hamilton G-20-d	$\begin{array}{c} 100\\ 1000\\ 50000\\ 500\\ 1000\\ 1000\\ 5000\\ 5000\\ 500\\ 5$	WKRC WLW WSAI WEAR WHK WJAY WTAM WAIU WCAH WEAO WMAN WSMK	550 700 1330 1080 1390 610 1080 640 1430 570 1210 1380 1310	Reading F-25-d Scranton F-25-a	$\begin{array}{c} 500\\ 100\\ 250\\ 50000\\ 500\\ 1000\\ 1000\\ 100\\ 250\\ 250\\ 500\\ 100\\ 100\\ 100\end{array}$	WPEN WRAX KDKA KQV WCAE WJAS WRAW WGBI WQAN WPSC WNBO WBAX	1500 1020 980 1380 1220 1310 880 880 1230 1200 1210
Columbus G-21-b Dayton G-21-e	$\begin{array}{c} 100\\ 1000\\ 50000\\ 500\\ 1000\\ 1000\\ 500\\ 5$	WKRC WLW WSAI WEAR WHK WJAY WTAM WAIU WCAH WEAO WMAN	550 700 1330 1080 1390 610 1080 640 1430 570 1210 1380	Reading F-25-d Scranton F-25-a State College F-24-a Washington F-23	500 100 250 50000 1000 1000 100 250 250 500 100	WPEN WRAX KOKA KOV WCAE WJAS WRAW WGBI WQAN WPSC WNBO	1500 1020 980 1380 1220 1290 1310 880 880 1230 1200

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PORTO RICO					100	KTAP	1420
San Juan	500	WKAQ	890		1000 5000	KTSA WOAI	1290 1190
RHODE ISLAND				Waco L-15-b	1000	WACO	1240
Newport F-27	100	WMBA	1500	Wichita Falls K-14	250	KGKO	570
Pawtucket E-27 Providence E-27-h	100 100	WPAW WDWF	1210 1210	UTAH			
	250	WEAN	780	Ogden F-7-b Salt Lake City F-7-c	500 1000	KLO KDYL	1400 1290
	250 100	WJAR WLSI	890 1210	Salt Lake City 1-7-C	5000	KSL	1090
SOUTH CAROLI		WESI	1210	VERMONT			
		WDDV	1200	Burlington D-26-a St. Albans D-26	100	WCAX WQDM	1200 1370
Charleston K-23	75 100	WBBY WCSC WIS	1200 1310	Springfield D-26-b	10	WNBX	1200
Columbia K-22	500		1010	VIDCINIA			
Spartanburg J-22	100	WSPA	1420	VIRGINIA Alexandria G-24	10000	WJSV	1460
SOUTH DAKOTA				Arlington G-24-d	1000	NĂA	690
Brookings D-14 Dell Rapids D-14	500 50	KFDY KGDA	550 1370	Danville I-23 Emory	100 100	WBTM WEHC	1370 1200
Oldham D-14	15	KGDY	1200	Lynchburg H-23	100	WLVA	1370
Pierre D–12 Rapid City D–11	200 100	KGFX WCAT	580 1200	Newport News I-24	500 100	WGH	590
Sioux Falls D-14	2000	KSOO	1100	Norfolk I-24	500	WPOR	1310 780
Vermillion E-14-b Watertown	500 100	KUSD KGCR	890 1210	Patarahuan U 24	500	WTAR	780
Yankton E-14-a	1000	WNAX	570	Petersburg H-24 Richmond H-24	100 100	WLBG WBBL	1200 1210
TENNESSEE					100	WMBG	1210
Bristol I-22	100	WOPI	1500	Roanoke H-23	5000 250	WRVA WDBJ	1150 930
Chattanooga J-20	1000	WDOD	1280		250	WRBX	1410
Knoxville I-20	50	WFBC	1200	WASHINGTON			
	50 1000	WNBJ WNOX	1310 560	Aberdeen B-1	75	KXRO	1310
Lawrenceburg J-19	500	WOAN	600	Bellingham A-1 Everett A-2	100 50	KVOS KFBL	1200 1370
Memphis J-18-a	500 100	WGBC WHBQ	1430 1370	Lacey B-2-b	10	KGY	1200
	500	WMC	780	Longview B-1 Pullman B-4	100	KUJ	1500
	500 500	WNBR WREC	1430 600	Seattle B-2-a	500 100	KWSC KFQW	1220 1420
Nashville I-19	5000	WLAC	1470		5000	KJR	970
	5000 5000	WSM WTNT	650		1000 1000	KOL KOMO	1270 920
Springfield I-19	100	WSIX	1470 1210		100	KPCB	1500
Union City I-18	100	WOBT	1310		50 1000	KRSC KTW	1120 1270
TEXAS					100	KVL	1370
Abilene K-13	100	KFYO	1420	Spokane A-4	500 100	KXA KFIO	570 1120
Amarillo J-12	1000	KGRS	1410	Spokalle A-4	1000	KFPY	1340
Austin L-14-b	250 100	WDAG KUT	1410 1500		5000	KGA KHQ	1470
Beaumont M-16	500	KEDM	560	Tacoma B-1-a	1000 500	KMO	590 860
Brownsville O-14-b Brownwood L-13	500 100	KWWG KGKB WTAW	1260 1500	Wenatchee B-3	1000	KVI	760
College Sta. M-13	500	WTAW	1120	Yakima B-3	50 50	KPQ KIT	1500 1310
Corpus Christi N-14 Dallas L-15-a	100 10000	KGFI KRLD	1500 1070	WEST VIRGINIA			1010
Danas L-15-a	5000	WFAA	800	Bluefield H-22	100	WHIS	1420
Dahlin V 14	500	WRR	1280	Charleston H-22	250	WOBU	580
Dublin K-14 El Paso L-10	100 100	KFPL KTSM	1310 1310	Fairmont G-23 Huntington G-22	250 250	WMMN WSAZ	890 580
	100	WDAH	1310	Wheeling G-22	5000	WWVA	1180
Fort Worth L-14-a	100 1000	KF JZ KSAT	1370 1240	WISCONSIN			
	5000	WBAP	800	Beloit E-18-b	500	WEBW	560
Galveston M-15-b	100 500	KFLX KFUL	1370 1290	Eau Claire D-17	1000	WTAO	1330
Greenville K-15	15	KFPM	1310	Fond du Lac D-18-d Green Bay D-19	100 100	KFIZ WHBY	1420 1200
Harlingen O-14	500	KRGV	1260	Green Bay D-19 Kenosha E-19	100	WCLO	1200
Houston M-15-a	1000 500	KPRC KTRH	920 1120	La Crosse E-17 Madison E-18-2	1000 750	WKBH WHA	1380 940
	100	KTUE KTLC	1420		100	WIBA	1210
San Angelo M-12	100 100	KTLC KGKL	1500 1370	Manitowoc D-19 Milwaukee E-19-a	100	WOMT	1210
San Antonio M-14-a	100	KGCI	1370	17111 WOLKES 1-17-8	250 250	WHAD WISN	1120 1120
	100	KONO	1370		1000	WTMJ	620

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D	100	WIBU	1310		5000	CKGW	690
Poynette D-18-e Racine E-19	100	WRIN	1370		500	CKNC	580
Sheboygan C-18	500	WHBL	1410		500	CNRT	840
Stevens Pt. D-18-b	2000	WLBL	900		5000	CNRX	690
Superior B-17	1000	WEBC	1290	Waterloo Wingham	50 25	CKCR 10-BP	1010 1200
TWO UNO						10-BF	1200
WYOMING	100	KDFN	1210	PRINCE EDWARI)		
Casper	100	KUFN	1210	ISLAND			
A 4 3 3				Charlottetown	250	CFCY	960
CAN	ADA			C	30 25	CHCK CHGS	960 1120
ALBERTA				Summerside	23	CHOS	1120
Calgary	500	CFAC	690	QUEBEC			
Calgary	500	CFCN	690	Montreal	1650	CFCF	1030
	500	CHCA	690		5000 5000	CHYC CKAC	730 730
	500	CJCJ CNRC	690		5000	CNRM	730
Education	500 250	CHMA	690 580	Quebec	100	CHRC	880
Edmonton	500	CICA	580	L	22	CKCI	880
	500	ĊJCA CKUA	580		50	CKCV	880
	500	CNRE	580	St. Hyacinthe	50 50	CNRQ CKSH	880 1010
Lethbridge Red Deer	50 1000	CJOC CHCT	1120 840			CITCOLL	1010
Red Deer	1000	CKLC	840	_ SASKATCHEWAN			
	1000	CNRD	840	Fleming	500	CJRW	600
				Moose Jaw Pilot Butte	500 500	CJRM CHWC	600 960
BRITISH COLUN	MBIA			Regina	500	CFCR	960
Chilliwack	5	CHWK	1210	1.00	500	CJBR CKCK	960
Kamloops	15	CF JC C JOR	1120		500		960 960
Sea Island Vancouver	50 50	CHLS	1030 730	Saskatoon	500 500	CNRR CFQC	910 910
vancouver	50	CKCD	730	Saskatoon	250	ĊJĦŠ	910
	50	CKFC	730 730		500	UNKS	910
	50	CKMO	730	Yorkton	500	CJGX	630
	100 500	CKWX CNRV	730 1030	HAITI			
Victoria	500	CFCT	630	Port au Prince	1000	HHK	920
MANITOBA				MEXICO Chihuahua	250	XFF	920
Brandon	500	CKX CKY	540 780	C. Lerdo, Dgo.	250	XES	1200
Winnipeg	5000 5000	CNRW	780	Guadalajara, Jal.	101	XEA	1200
		Gi vici	,	I Jalapa, Ver.	350	XFC	630
NEW BRUNSWI		CD		Merida, Yucatan Mexico City	105 1000	XEY XEB	550 670
Fredericton	50 500	CFNB CNRA	1210 630	Mexico City	1000	XEN	730
Moncton St. John	500	CFBO	890		500	XEX	920
St. John					50 2000	XFA XFG	540 640
NOVA SCOTIA					1000	XFI	590
Halifax	500	CHNS	930		1000	XFX	910
Louisburg	500 50	VAS CJCB CKIC	690 880	Monterrey, N. L	1000	XEH	970
Sydney Wolfville	50	CKIC	930	Morelia, Mich.	101 105	XEI XEF	1000 1130
				Oaxaca, Oax. Pueblo, Pue.	105	XEE	960
ONTARIO		0000	1010	· ·			
Chatham	100 15	CFCO CKMC	1210 1210	CUBA		0.000	0.20
Cobalt Hamilton	10	CHCS	880	Caibarien Cienfuegos	250 200	CMHD CMHA	920 1150
nammeon	50	CHML	880	Colon	300	CMGA	830
	50	CKOC	880	Havana	100	CMBC	890
Iroquois Falls	250 500	- CFCH	600 930		200	CMBY CMBZ	610
Kingston London	500	CIGC	910		100 500	CMB2	1030 840
London	500	CJGC CNRL	910		150	CMCB	950
Midland	50	CKPR	930		100	CMCE	1100
Ottawa	100 500	CKCO CNRO	890 600		250	CMCF	640
Prescott	500	CFLC	1010		500 2000	CMCF CMI CMK	820 1100
Preston	25	CKPC	1210		1000	CMW	600
Toronto	500	CFCA	840		500	CMX	920
	500 4000	CFCL	580 960	Marianao	50	CMBW	1030 790
	5000	CHRY	690	Tuinucu	500	CMHC	790
	500	CJSC CKCL	580	COSTA RICA	_		
	500	CKCL	580	San Jose	50	TIX	750

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CFAC

A COMPLETE INDEX BY CALL LETTERS

KFGQ

CFAC 690	CJRM 600	CMI 820
Calgary, Alta.	Moose Jaw, Sask.	Havana, Cuba
CFBO 890	CJRW 600	CMK 1100
St. John, N. B.	Fleming, Sask.	Havana, Cuba
CFCA 840	CJSC 580	CMW 600
Toronto, Ont.	Toronto, Ont.	Havana, Cuba
CFCF 1030	CKAC 730	CMX 920
Montreal, Que.	Montreal, Que.	Havana, Cuba
CFCH 600	CKCD 730	CNRA 630
Iroq's Falls, Ont.	Vancouver, B.C.	Moneton, N.B.
CFCL 580	CKCI 880	CNRC 690
Toronto, Ont.	Quebec, Que.	Calgary, Alta.
CFCN 690	CKCK 960	CNRD 840
Calgary, Alta. CFCO 1210	Regina, Sask.	Red Deer, Alta.
CFCO 1210 Chatham, Ont.	CKCL 580	CNRE 580
CFCR 960	Toronto, Ont. CKCO 890	Edmonton, Alta.
Regina, Sask.	Ottawa, Ont.	CNRL 910
CFCT 630	CKCR 1010	London, Ont. CNRM 730
Victoria, B. C.	Waterloo, Ont.	Montreal, Que.
CECY 960	CKCV 880	CNRO 600
Ch'lottet'n.P.E.I.	Quebec, Que.	Ottawa, Ont.
CFJC 1120	CKFC 730	CNRQ 880
Kamloops, B. C.	Vancouver, B.C.	Quebec, Que.
CFLC 1010	CKGW 690	CNRR 960
Prescott, Ont.	Toronto, Ont.	Regina, Sask.
CFNB 1210	CKIC 930	CNRS 910
Fredericton, N.B.	Wolfville, N.S.	Saskatoon, Sask.
CFQC 910	CKLC 840	CNRT 840
Saskatoon, Sask.	Red Deer, Alta.	Toronto, Ont.
	CKMC 1210	CNRV 1030
Toronto, Ont. CFRC 930	Cobalt, Ont. CKMO 730	Vancouver, B.C.
Kingston, Ont.	CKMO 730 Vancouver, B.C.	CNRW 780
CHČA 690	CKNC 580	Winnipeg, Man. CNRX 690
Calgary, Alta.	Toronto, Ont.	Toronto, Ont.
CHCK 960	CKOC 880	ННК 920
Ch'lottet'n,P.E.I.	Hamilton, Ont.	Port au Prince, H.
CHCS 880	CKPC 1210	KBPS 1420
Hamilton, Ont.	Preston, Ont.	Portland, Ore.
CHCT 840	CKPR 930	KBTM 1200
Red Deer, Alta	Midland, Ont.	Paragould, Ark.
CHGS 1120 Sum'rside, P.E.1.	CKSH 1010	KCRC 1370
CHLS 730	St. H'cinthe, Que. CKUA 580	Enid, Okla.
Vancouver, B.C.	Edmonton, Alta.	KCRJ 1310
CHMA 580	CKWX 730	Jerome, Ariz. KDB 1500
Edmonton, Alta.	Vancouver, B.C.	S. Barbara, Cal.
CHML 880	CKX 540	KDFN 1210
Hamilton, Ont.	Brandon, Man.	Casper, Wyo.
CHNS 930	CKY 780	KDKA 980
Halifax, N.S.	Winnipeg, Man.	Pittsburgh, Pa.
CHRC 880	CMBC 890	KDLR 1210
Quebec, Que. CHRY 690	Havana, Cuba	Devils Lake, N.D.
Toronto, Ont.	CMBW 1030	KDYL 1290
CHWC 960	Marianao, Cuba CMBY 610	Salt Lake City KECA 1430
Pilot Butte, Sask.	Havana, Cuba	Los Angeles Cal
CHWK 1210	CMBZ 1030	Los Angeles, Cal. KELW 780
Chilliwack, B.C.	Havana, Cuba	Burbank, Cal.
CHYC 730	CMC 840	KEX 1170
Montreal, Que.	Havana, Cuba	Portland, Ore.
CJBR 960	CMCB 950	KFAB 770
Regina, Sask. CJCA 580	Havana, Cuba	Lincoln, Nebr.
	CMCE 1100	KFBB 1280
Edmonton, Alta.	Havana, Cuba CMCF 640	Great Fls., Mont.
Syndey, N.S.	Havana, Cuba	Sacramento, Cal.
CJCJ 690	CMGA 830	KFBL 1370
Calgary, Alta.	Colon, Cuba	Everett, Wash.
CIGC 810	CMHA 1150	KFDM 560
London, Ont.	Cienfuegos, Cuba	Beaumont, Tex.
CJGX 630	СМНС 790	KFDY 550
Yorkton, Sask.	Tuinucu, Cuba	Brookings, S.D.
CJHS 910 Saskatoen Sask	CMHD 920	KFEL 920
Saskatoon, Sask. CJOC 1120	Caibarien, Cuba	Denver, Colo.
Lethbridge, Alta.		KFEQ 680
CJOR 1030		St. Joseph, Mo. KFGQ 1310
Sea Island, B.C.		Boone, Iowa
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KFH

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KFH 1300		KFUO 550	KGFJ 1200
Wichita, Kansas KFHA 1200		St. Louis, Mo.	Los Angeles, Cal.
Gunnison, Colo.		KFUP 1310 Denver, Colo.	KGFK 1200 Hallock, Minn.
KFI 640		KFVD 1000	KGFL 1370
Los Angeles, Cal		Culver City, Cal.	Raton, N.M. KGFW 1310
KFIF 1420		KFVS 1210	KGFW 1310
Portland, Ore. KFIO 1120		Cape Gir'rd'u, Mo KFWB 950	Ravenna, Nebr.
Spokane, Wash.		Hollywood, Cal.	Pierre, S.D.
KFIU 1310		KFWF 1200	KGGC 1420
Juneau, Alaska		St. Louis, Mo.	San F'neisco, Cal.
KFIZ 1420 Fond du Lac, Wis		KFWI 930 San F'ncisco, Cal.	KGGF 1010 Picher, Okla.
KFJB 1200		KFWM 930	KGGM 1230
Marshalltown, Ia	·	Oakland, Cal.	Alb'q'rque, N.M.
KFJF 1480		KFXD 1420	KGHB 1320
Oklahoma City KFJI 1370		Jerome, Idaho KFXF 920	Honolulu, T.H
Astoria, Ore.		Denver, Colo.	Pueblo. Colo.
KFJM 1370		KFXJ 1310	KGHI 1200
Grd. Forks, N.D. KFJR 1300	·	Edgewater, Colo.	Little Rock, Ark
Portland, Ore.		KFXM 1210 San Ber'd'no,Cal.	KGHL 950 Billings, Mont.
KFJY 1310		KFXR 1310	KGIQ 1320
Fort Dodge, Ia. KFJZ 1370		Oklahoma City	Twin Falls, Ida.
KFJZ 1370 Ft. Worth, Tex.		KFXY 1420 Flagstaff, Ariz.	KGIR 1360 Butte, Mont.
KFKA 880		KFIO 1420	KGIW 1420
Greeley, Colo.		Abilene, Texas	Trinidad, Colo.
KFKB 1050 Milford, Kansas		KFYR 550	KGIX 1420
KFKU 1220		Bismarck, N.D	Las Vegas, Nev KGIZ 1500
Lawrence, Kans.		Spokane, Wash.	Grant City, Mo.
KFKX 1140		KGAR 1370	KGJF 890
Chicago, Ill. KFLV 1410		KGB 1330	Little Rock, Ark
Rockford, Ill.		San Diego, Cal.	Brownwood, Tex.
KFLX 1370		KGBU 900	KGKL 1370
Galveston, Tex. KFMX 1250		Ketchikan, Al'ka	San Angelo, Tex
N'thfield, Minn.		St. Joseph, Mo.	Wichita Fils., Tex
KFNF 890		KGBZ 930	
Shenandoah, Ia. KFOR 1210		York, Nebr. KGCA 1270	Sand Point, Ida
Lincoln, Nebr.		Decorah, Iowa	Scottsbluff, Nebr.
KFOX 1250		KGCI 1370	KGMB 1320
Long Beach, Cal. KFPL 1310		San Ant'nio, Tex.	Honolulu, T. H
Dublin, Texas		Watertown, S.D.	Roswell, N. M.
KFPM 1310		KGCU 1200	KGMP 1210
Greenville, Tex. KFPY 1340		Mandan, N.D.	Elk City, Okla.
Spokane, Wash.		KGCX 1310 Wolf P't, Mont.	KGNF 1430 No. Platte, Neb.
KFQA 1110		INGDA ISTV	KGNO 1210
St. Louis, Mo.		Dell Rapids, S.D.	DodgeCity,Kans.
KFQD 1230 Anchorage, Alas.		KGDE 1200 Ferg's F'lls, Minn	KGO 790 Oakland, Cal.
KFQU 1420		KGDM 1100	KGRS 1410
Holy City, Cal.		Stockton, Cal.	Amarillo, Texas
KFQW 1420 Seattle, Wash.		KGDY 1200 Oldham, S.D.	KGU 940
KFQZ 860		KGEF 1300	Honolulu, Hawaii KGW 620
Los Angeles, Cal.		Los Angeles, Cal.	Portland, Ore.
KFRC 610 San F'ncisco, Cal.		KGEK 1200	KGY 1200
KFRU 630		Yuma, Colo. KGER 1360	Lacey, Wash
Columbia, Mo.		Long Beach, Cal. KGEW 1200	Los Angeles, Cal.
KFSD 600		KGEW 1200	KHQ 590
San Diego, Cal. KFSG 1120		Ft. Morgan, Colo.	Spokane, Wash.
Los Angeles, Cal.		Kalispell, Mont.	Red Oak, Iowa
KFUL 1290		KGFG 1370	
Galveston, Tex. KFUM 1270		Oklahoma City	
Col. Spgs., Colo.		KGFI 1500 C'pus Ch'sti,Tex.	
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KID

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WABZ

KID 1320	KPPC 1210	KUJ 1500
Idaho Falls, Ida.	Pasadena, Cal.	Longview, Wash.
KIDO 1250	KPQ 1500	KUUA 1350
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'ncisco, Cal.	Pasadena, Cal.	Austin, Texas
KJR 970	KQV 1380	KVEP 1500
Seattle, Wash.	Pittsburgh, Pa.	Portland, Ore. KVI
KLUN 1290	KQW 1010	Tacoma, Wash.
Blytheville, Ark.	San Jose, Cal	KVI 1370
KLO 1400 Ogden, Utah	Berkeley, Cal.	Seattle, Wash.
KLPM 1420	KREG 1500	KVOA 1260
Minot, N. Dak.	Santa Ana, Cal.	Tucson, Arizona
KLRA 1390	KRGV 1260	I KVOO 1130
Little Rock, Ark.	Harlingen, Texas	Tulsa Okla
KLS 1440	KRLD 1070	KVUS 1200
Oakland, Cal.	Dallas, Texas	Bellingh'm, Wash.
KLX 880	KRMD 1310	KWCR 1310
Oakland, Cal.	Shreveport, La.	Cedar Rapids, Ia.
KLZ 560	KRSC 1120	KWEA 1210
Denver, Colo.	Seattle, Wash.	Shreveport, La.
KMA 930	KSAC 580	KWG 1200
Shenandoah, Ia.	Manh'tt'n, Kans.	Stockton, Cal.
KMBC 950	KSAT 1240	KWJJ 1060
Kan. City, Mo.	Ft. Worth, Tex.	Portland, Ore
KMED 1310	KSCJ 1330 Sioux City, Ia.	St. Louis, Mo.
Medford, Ore.	KSD 550	KWKC 1370
KMIC 1120 Inglewood, Cal.	St. Louis, Mo.	Kansas City, Mo.
KMJ 1210	KSEI 900	KWKH 850
Erospo Cal	Pocatello, Idaho	Shreveport, La.
Fresno, Cal. KMMJ 740	KSL 1090	KWLC 1270
Clay Ctr., Nebr.	Salt Lake City	Decorah, Iowa
KMO 860	KSMR 1200	KWSC 1220
KMO 860 Tacoma, Wash.	Santa Maria, Cal.	KWSC 1220 Pullman, Wash.
KMOX 1110	KSO 1380	KWWG 1260
St. Louis, Mo.	Clarinda, Iowa	Brownsville, Tex.
KMPC 710	KSOO 1100	KXA 570
Los Angles, Cal.	Sioux Falls, S.D.	Seattle, Wash.
KMTR 570	KSTP 1460	KXL 1420
Hollywood, Cal.	St. Paul, Minn	Portland, Ore.
KNX 1050	KTAB 560	KXO 1200
Los Angeles, Cal.	Oakland, Cal.	El Centro, Cal.
KOA 830	KTAP 1420	KXRO 1310
Denver, Colo.	San Antonio, Tex.	Aberdeen, Wash
KOAC 550		San F'ncisco, Cal
Corvallis, Ore.	Phoenix, Ariz. KTBI 1300	KYW 1140
KOB 1170 State Coll., N.M.	Los Angeles, Cal.	Chicago, Ill.
KOCW 1400	KTBR 1300	NAA 690
Chickasha, Okla.	Portland, Ore.	Arlington, Va.
KOH 1370	KTBS 1450	NDA 950
Reno, Nevada	Shreveport, La.	Balboa, C. Z.
KOIL 1260	KTHS 1070	TIX 750
Council Bluffs, Ia.	Hot Spgs., Ark.	San Jose, C. R.
KOIN 940	KTLC 1500	VAS 690
Portland, Ore.	Houston, Texas	Louisburg, N. S.
KOL 1270	II KTM 780	WAAF 920
Seattle, Wash.	Los Angeles, Cal.	Chicago, Ill.
KOMO 920	KTNT 1160	[[WAAM 1250]
Seattle, Wash.	Muscatine, Iowa	Newark, N. J.
KONO 1370	KTRH 1120	WAAT 940
San Antonio, Tex.	Houston, Texas	Jersey City, N.J
KOOS 1370	KTSA 1290	Omeho Nohr
Marshfield, Ore.	San Antonio, Tex.	Omaha, Nebr WABC 860
KORE 1420	KTSL 1310 Shravaport La	New York City
Eugene, Ore.	Shreveport, La	WABI 1200
KOY 1390	El Paso, Texas	Bangor, Maine
Phoenix, Ariz. KPCB 1500	- KTUE 1420	WABO 1440
Seattle, Wash.	Houston, Texas	Rochester, N.Y.
KPJM 1500	KTW 1270	WABZ 1200
Prescott, Ariz.	Seattle, Wash.	New Orleans, La.
KPO 680		
San F'ncisco, Cal.		
KPOF 880		
Denver, Colo.		
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WACO

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WFLA

				 _
WACO 1240		WCAP 1280	WDWF 1210	1
Waco, Texas		Asbury Pk., N.J.	 Providence, R.I.	
WADC 1320		WCAT 1200	WDZ 1070	
Akron, Ohio		Rapid City, S.D.	 Tuscola, Ill.	
WAGM 1310		WCAU 820	WEAF 660	
Royal Oak, Mich WAIU 640	·	Philadelphia, Pa. WCAX 1200	 New York City	
Columbus, Ohio		WCAX 1200 Burlington, Vt.	 WEAI 1270	[
WAPI 1130		WCAZ 1070	 Ithaca, N.Y. WEAN 780	
Birmingham, Ala		Carthage, Ill.	 Providence, R.I.	
WASH 1270	· · · · · · · · · · · · · · · · · · ·	WCBA 1440	 WEAO 570	
Gr. Rapids, Mich	1.	Allentown, Pa.	Columbus, Ohio	
WBAA 1400		WCBD 1040	 WEAR 1080	
Lafayette, Ind.		Zion, Ill.	 Cleveland, Ohio	
WBAK 1430		WCBM 1370	WEBC 1290	
Harrisburg, Pa.		Baltimore, Md.	 Superior, Wis.	
WBAL 1060		WCBS 1210	WEBE 1210	
Baltimore, Md. WBAP 800		Springfield, Ill.	 Cambridge, Ohio	
Fort Worth, Tex		WCCO 810	WEBQ 1210	
WBAX 1210	··	Minneap., Minn. WCDA 1350	 Harrisburg, Ill. WEBR 1310	
Wilkes-Barre, Pa		New York City	Buffalo, N.Y.	
WBBC 1400	· · · · · · · · · · · · · · · · · · ·	WCFL 970	 WEBW 560	
Brooklyn, N.Y.		Chicago, Ill.	Beloit, Wis.	
WBBL 1210		WCGU 1400	 Beloit, Wis. WEDC 1210	
Richmond, Va.		Brooklyn, N.Y.	Chicago, Ill.	
WBBM 770		WCHI 1490	WEDH 1420	
Chicago, Ill.		Chicago, Ill.	 Erie, Pa.	
WBBR 1300		WCKY 1490	WEEI 590	
Rossville, N.Y.		Covington, Ky.	 Boston, Mass.	
WBBS 1500		WCLO 1200	WEHC 1200	
Boston, Mass. WBBY 1200		Kenosha, Wis. WCLS 1310	 Emory, Va. WEHS 1420	
Charleston, S.C.		Joliet, Ill.		
WBBZ 1200		WCMA 1400	 Evanston, Ill. WELK 1370	
Ponca City, Okla		Culver, Ind.	Philadelphia, Pa.	
WBCM 1410		WCOA 1340	WELL 1420	
Bay City, Mic		Pensacola, Fla.	BattleCreek, Mich	
WBIS 1230		WCOC 880	WEMC 590	
Boston, Mass.		Meridian, Miss	 Ber'n Spgs., Mich	
WBMS 1450		WCOD 1200	WENR 870	
Hackensack, N.J WBNY 1350	·	Harrisburg, Pa.	 Chicago, Ill.	
New York City		WCOH 1210	WEVD 1300	
WBOQ 860		WCRW 1210	 New York City WEW 760	
New York City		Chicago, Ill.	St. Louis, Mo.	
WBOW 1310		WCSC 1310	WFAA 800	
Terre Haute, Ind.		Charleston, S.C.	Dallas, Texas	
WBRC 930		WCSH 940	WFAN 610	
Birmingham, Ala		Portland, Maine	 Philadelphia, Pa.	 _
WBRE 1310 Wilkes-Barre, Pa		WCSO 1450	WFBC 1200	
WBSO 920	·	Springfield, Ohio	 Knoxville, Tenn.	
Well'l'yH'ls, Mass		WDAE 1220 Tampa, Fla.	WFBE 1200	
WBT 1040	·/	WDAF 610	 Cincinnati, Ohio WFBG 1310	
Charlotte, N.C.		Kansas City, Mo.	Altoona, Pa.	
WBTM 1370		II WDAG 1410	WFBL 1360	
Danville, Va.		Amarillo, Texas	Syracuse, N.Y.	
WBZ 990		WDAH 1310	WFBM 1230	
Springfield, Mass.	·	El Paso, Texas	 Indianapolis, Ind.	
WBZA 990		WDAY 940	WFBR 1270	
Boston, Mass. WCAC 600		Fargo, N.D. WDBJ 930	 Baltimore, Md.	
Storrs, Conn.			WFDF 1310	
WCAD 1220		Roanoke, Va. WDBO 1120	 Flint, Mich. WFDV 1370	
Canton, N.Y.		Orlando, Fla.	Rome, Ga.	
WCAE 1220		WDEL 1120	 WFDW 1420	
Pittsburgh, Pa.		Wilmington, Del.	Talladega, Ala.	
WCAH 1430		WDGY 1170	WFI 560	
Columbus, Ohio		Minneap., Minn.	 Philadelphia, Pa.	
WCAJ 590		WDOD 1280	WFIW 940	0
Lincoln, Nebr.		Chattan'ga, Tenn	 Hopkinsville, Ky.	
WCAL 1250 Northfield Minn		WDRC 1330	WFJC 1450	
Northfield, Minn. WCAM 1280		N. Haven, Conn WDSU 1250	 Akron, Ohio WFKD 1310	
Camden, N.J.		New Orleans, La.	Philadelphia, Pa.	
WCAO 600		Liew Officans, La.	 WFLA 620	
Baltimore, Md.			Clearwater, Fla.	
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WGAL

A COMPLETE INDEX BY CALL LETTERS

WLBX

WGAL 1310	WHIS 1420	WJBW 1200 1
Lancaster, Pa.	Bluefield, W.Va.	New Orleans, La.
WGBB 1210	WHK 1390	WJBY 1210
Freeport, N.Y.	Cleveland, Ohio	Gadsden, Ala.
WGBC 1430	WHN 1010	WJDX 1270
Memphis, Tenn.	New York City	Jackson, Miss.
WGBF 630	WHO 1000	WJJD 1090
Evansville, Ind.	Des Moines, Ia	Mooseheart, Ill.
WGB1 880	WHOM 1450	WJKS 1360
Scranton, Pa.	Jersey City, N.J.	Gary, Ind. WJR 750
WGBS 600	WHP 1430	Detroit, Mich.
New York City	Harrisburg, Pa.	WJSV 1460
WGCM 1210	WIAS 1420	Alexandria, Va.
Gulfport, Miss	Ottumwa, Iowa	WJW 1210
WGCP 1250 Newark, N.J.	Madison, Wis.	Mansfield, Ohio
WGES 1360	WIBG 930	WJZ 760
Chicago, Ill.	Elkins Park, Pa	New York City
WGH 1310	WIBM 1370	WKAQ 890
Newp't News, Va.	Jackson, Mich.	San Juan, P.R.
WGHP 1240	WIBO 560	WKAK 830
Detroit, Mich.	Chicago, Ill	E. Lansing, Mich
WGL 1370	WIBR 1420	WKAV 1310
Ft. Wayne, Ind.	Steubenville, ().	Laconia, N.H
WGM 840	WIBU 1310	Joliet, Ill.
Adamsburg, Pa	Poynette, Wis	WKBC 1310
WGMS 1250 Minnean Minn	Topeka, Kansas	Birmingham, Ala
Minneap., Minn. WGN 720	WIBX 1200	WKBF 1400
Chicago, Ill.	Utica, N.Y.	Indianapolis, Ind
WGR 550	WICC 1190	WKBH 1380
Buffalo, N.Y.	Bridgeport, Conn	La Crosse, Wis.
WGST 890	WIL 1200	WKBI 1420
Atlanta, Ga.	St. Louis, Mo.	Chicago, Ill.
WGY 790	WILL 890	WKBN 570
Schnec'd'y, N.Y.	Urbana, Ill.	Youngstown, O.
WHA 940	WILM 1420	WKBO 1450 Jersey City, N.J.
Madison, Wis.	Wilmington, Del	WKBQ 1350
WHAD 1120	WIOD 1300	New York City
Milwaukee, Wis.	Miami Bch., Fla.	WKBS 1310
WHAM 1160	Philadelphia. Pa.	Galesburg, Ill.
Rochester, N.Y. WHAP 1300	WIS 1010	WKBV 1500
New York City	Columbia, S. C.	Connersville, Ind
WHAS 1020	WISN 1120	WKBW 1480
Louisville, Ky	Milwaukee, Wis.	Buffalo, N.Y.
WHAT 1310	WJAC 1310	WKBZ 1500
Philadelphia, Pa.	Johnstown, Pa.	Ludington, Mich.
WHAZ 1300	WJAG 1060	WKEN 1060
Troy, N.Y.	Norfolk, Nebr.	Buffalo, N.Y. WKJC 1200
WHB 860	WJAK 1310	Lancaster, Pa.
Kansas City, Mo.	Marion, Ind	WKRC 550
WHBC 1200 Canton, Ohio	Providence, R.I.	Cincinnati, O.
WHBD 1370	WJAS 1290	WKY 900
Mt. Orab, O.	Pittsburgh, Pa.	Oklahoma City
WHBF 1210	II WJAX 900	WLAC 1470
Rock Island, Ill.	Jacksonville, Fla	Nashville, Tenn.
WHBL 1410	WJAY 610	WLAP 1200
Sheboygan, Wis	Cleveland Ohio	Louisville, Ky.
WHBQ 1370	WJAZ 1490	WLB 1250
Memphis, Tenn.	Chicago, Ill.	Minneap., Minn
WHBU 1210	WJBC 1200	Muncie, Ind.
Anderson, Ind.	La Salle, Ill.	WLBF 1420
WHBY 1200	WJBI 1210 Red Bank, N. J.	Kansas City, Ks.
Green Bay, Wis. WHDF 1370	WJBK 1370	WLBG 1200
Calumet, Mich.	Ypsilanti, Mich.	Ettrick Vo
WHDH 830	WJBL 1200	UWLBL 900 I I I
Gloucester, Mass.	Decatur, Ill.	Stevens Pt., Wis. WLBW 1260
WHDI 1170	W JBO 1420	WLBW 1260
Minneap., Minn.	New Orleans, La.	Oil City, Pa.
WHDL 1420	WJBT 770	WLBX 1500
TupperLake, N.Y.	Chicago, Ill.	L.I.City, N.Y.
WHEC 1440	WJBU 1210	
Rochester, N.Y.	Lewisburg, Pa.	
WHFC 1420		
Cicero, Ill.		
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WLBZ A COMPLETE INDEX BY CALL LETTERS

WRVA

WLBZ 620		WMT 600	II WOW 590
WLBZ 620 Bangor, Me.		Waterloo, Iowa	WOW 590 Omaha, Nebr
WLCI 1210		WNAC 1230	WOWO 1180
Ithaca, N.Y. WLEX 1410		Boston, Mass. WNAD 1010	Ft. Wayne, Ind
Lexington, Mass.		Norman, Okla	New York City
WLEY 1370		WNAX 570	WPAW 1210
Lexington, Mass. WLIB 720		Yankton, S.D. WNBF 1500	Pawtucket, R.1
Chicago, Ill.		Bingh'mt'n, N.Y.	Chicago, Ill.
WLIT 560		WNBH 1310	WPCH 810
Philadelphia, Pa. WLOE 1500		New B'df'd, Mass	New York City
Boston, Mass.		Knoxville, Tenn	Philadelphia, Pa.
WLS 870		WNBO 1200	WPG 1100
Chicago, Ill. WLSI 1210		Washington, Pa WNBR 1430	Atl'ntic City,N.J.
Providence, R.I.		Memphis, Tenn.	Patchogue, N.Y.
WLTH 1400		WNBW 1200	WPOR 780
Brooklyn, N.Y. WLVA 1370		WNBX 1200	
Lynchburg, Va.		Springfield, Vt.	State College, Pa.
WLW 700		WNBZ 1290	WPTF 680
Cincinnati, Ohio WLWL 1100		SaranacL'ke, N.Y.	
New York City		Newark, N.J.	Miami, Fla.
WMAC 570 Cazenovia, N.Y.		WNOX 560	WQAN 880
WMAF 1410		Knoxville, Tenn.	Scranton, Pa
S.D'rtm'th, Mass.	·	Greensboro, N.C.	New York City
WMAK 900 Buffalo, N.Y.		WNYC 570 New York City	WQBC 1360 Vialaburg Mian
WMAL 630		WOAI 1190	Vicksburg, Miss
Washington, D.C.	·	San Antonio, Tex.	St. Albans, Vt.
WMAN 1210 Columbus, Ohio		WOAN 600 Law'nceb'g, Tenn	WRAF 1200 La Porte, Ind.
WMAQ 670		WOAX 1280	WRAK 1370
Chicago, Ill. WMAY 1200		Trenton, N.J. WOBT 1310	_ Williamsport, Pa
St. Louis, Mo.		Union City, Tenn	WRAW 1310 Reading, Pa.
WMAZ 890		II WOBU 580	WRAX 1020
Macon, Ga. WMBA 1500		Charlest'n, W.Va. WOC 1000	Philadelphia, Pa WRBI 1310
Newport, R.I.		Davenport, Iowa	Tifton, Ga.
WMBC 1420 Detroit, Mich.	10	Jamestown, N.Y.	WRBJ 1370 Hattiesburg, Miss.
WMBD 1440		WODA 1250	WRBL 1200
Peoria Hghts., Ill.	·	Paterson, N.J.	Columbus, Ga.
WMBG 1210 Richmond, Va.		WODX 1410 Mobile, Ala.	WRBQ 1210 Greenville Miss
WMBH 1420		WOI 640	Greenville, Miss.
Joplin, Mo. WMBI 1040		Ames, Iowa WOKO 1440	Wilmington, N.C.
Chicago, Ill.		P'ghkeepsie, N.Y.	WRBU 1210 Gastonia, N.C.
WMBJ 1500		WOL 1310	WRBX 1410
Wilkinsburg, Pa. WMBO 1310		Washington, D.C	Roanoke, Va
Auburn, N.Y.		Manitowoc, Wis.	Washington, D.C.
WMBQ 1500		WOOD 1270	WRDA 900
Brooklyn, N.Y. WMBR 1370		Gr. Rapids, Mich	Buffalo, N.Y. WREC 600
Tampa, Fla.		Jeannette, Pa.	Memphis, Tenn.
WMC 780 Memphis, Tenn		WOPI 1500 Bristol, Tenn.	Lawrence, Kans.
WMCA 570 New York City		II WOO 1300	WRHM 1250
New York City		Kansas City, Mo. WOR 710	Minnean Minn
WMIL 1500 Long Beach, N.Y		Newark, N.J.	WRJN 1370 Racine, Wis.
WMMN 890		WORC 1200	WKK 1310
Fairmont, W.Va. WMPC 1500		Worcester, Mass	Hamilton, Ohio WRNY 1010
Lapeer, Mich		Chicago, Ill.	New York City
WMRJ 1210		WOS 630	II WRR 1280
Jamaica, N.Y. WMSG 1350		Jeff's'n City, Mo. WOV 1130	Dallas, Texas WRUF 830
New York City		New York City	Gainesville, Fla.
			WRVA 1110
			Richmond, Va.

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WSAI

A COMPLETE INDEX BY CALL LETTERS

WSAI 1330	WSVS 1370	WWVA 1180
Cincinnati, Ohio	Buffalo, N.Y.	Wheeling, W.Va.
WSAJ 1310	WSYR 570	XEA 1200
Grove City, Pa.	Syracuse, N.Y.	Guadalajara, Jal.
WSAN 1440	WTAD 1440	XEB 670
Allentown, Pa.	Quincy, Ill.	Mexico City
WSAR 1450	WTAĞ 580	XEE 960
Fall River, Mass.	Worcester, Mass.	Pueblo, Pue.
WSAZ 580	WTAM 1080	XEF 1130
Hunt'gton, W.Va.	Cleveland, Ohio	Oaxaca, Oax.
WSB 740	WTAQ 1330	XEH 970
Atlanta, Ga.	Eau Claire, Wis.	Monterey, N.L.
WSBC 1210	WTAR 780	XEI 1000
Chicago, Ill.	Norfolk, Va.	Morelia, Mich.
WSBT 1230	WTAW 1120	XEN 730
South Bend, Ind.	College Sta., Tex.	Mexico City
WSFA 1410	WTAX 1210	XES 1200
Montgomery, Ala	Streator, Ill.	C. Lerdo, Dgo.
WSGH 1400	WTBO 1420	XEX 920
Brooklyn, N.Y.	Cumberland, Md.	Mexico City
WSIX 1210	WTFI 1450	XEY 550
Springfield, Tenn.	Toccoa, Ga.	Merida, Yucatan
Ŵ8JŠ 1310	WTIC 1060	XFA 540
WinstSal., N.C.	Hartford, Conn.	Mexico City
WSM 650	WTMJ 620	XFC 630
Nashville, Tenn.	Milwaukee, Wis.	Jalapa, Ver.
WSMB 1320	WTNT 1470	XFF 920
New Orleans, La.	Nashville, Tenn.	Chihuahua, Chih.
WSMK 1380	WTOC 1260	XFG 640
Dayton, Ohio	Savannah, Ga.	Mexico City
WSPA 1420	WWAE 1200	XFI 590
Spartanburg,S.C.	Hammond, Ind.	Mexico City
WSPD 1340	WWJ 920	XFX 910
Toledo, Ohio	Detroit, Mich.	Mexico City
WSSH 1410	WWL 850	10-BP 1200
Boston, Mass.	New Orleans, La.	Wingham, Ont.
WSUI 880	WWNC 570	
Iowa City, Ia.	Asheville, N.C.	
WSUN 620	WWRL 1500	
St. Petersb'g, Fla.	Woodside, N.Y.	

A Third Network

D URING hearings on the application of Station WGBS, New York City, for full time operation on the 600-kcy. channel, Mr. Paskman, president of General Broadcasting System, outlined plans for the creation of a new nation-wide broadcasting network, to compete with the existing NBC and CBS chains. Mr. Paskman said the enterprise would entail an expenditure of from \$250,000 to \$1,000,000, and that the project had been discussed with a large number of stations throughout the country.

The plan is to first develop the "key" station, WGBS, with programs of the first order. Then the chain itself will be created in sections—first in New England then along the Atlantic seaboard to the south, and finally to the Middle West and the Pacific Coast, Mr. Paskman declared.

WGBS was formerly owned by Gimbel Brothers, of New York City.

Tubes Are Individual

1C-EP

O most of us a tube is a tube particularly when it is one of the wellknown and higher-priced makes. But H. B. Palmer, of Pennsylvania, thinks that tubes are as individual as people. "Why not tell your readers," he asks, "that the performance of any set is dependent on the *tubes* and not on the circuit as such?" Mr. Palmer tells of a five-tube r. f. set in which 103 tubes were tried in order to obtain five perfectly good ones. With these five tubes he brought in nine ten-watt stations, all more than 500 miles away with good loudspeaker volume. "If even one of the tubes was removed and replaced with another, not one of these nine stations was audible."

He states that he has a dozen tubes, all of first quality, which show excellent tests in a standard tester, but which are practically worthless in a receiving set. Some of them will not bring in a station of 30-watts only five miles away. Mr.

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Palmer thinks that when you find a "wonderful" set, you will find excellent tubes. The answer, he thinks, is to keep buying tubes on the theory that, sooner or later, you will get some good ones.

We are quoting our correspondent, not because we think our readers will want to buy their tubes in gross lots, but because he makes the point that the trouble with a set may lie in the tubes rather than in the circuit, even though the tubes show well in a test. The first r. f. and the detector tubes are the critical ones, he finds.

Regarding Announcers

THE announcer who is voluble about everything except the name of his own station, brings us perhaps more correspondence than any other one factor in radio. Since Mrs. Roeder's letter was published we have received a large number of others giving names of stations whose programs have been heard for as much as an hour without announcement. Many stations have been complimented, on the other hand, by our readers, for their strict compliance with the Radio Commission's orders regarding announcement at least every fifteen minutes.

We would urge stations to go a step further than the Commission requires and give their call and city after each selection on their program. This would not detract in the slightest from the program but on the contrary would add interest to it, for thousands who had tuned in since the last announcement. To give such a call would take but one second. If station-owners could realize that all over the country there are people listening to their station who experience a feeling of disappointment and resentment when they do not say who they are, these owners would see that their announcers gave at least the call letters after every single feature on their programs.

It is annoying to listen to even a good program and not know what station one is hearing. We do not know what pressure can be brought to bear upon broadcasting stations to bring about this simple courtesy. If there were a big, strong organization of radio-listeners such as we outlined in our April issue. undoubtedly something could be done in cooperation with the broadcasters' association. Perhaps a letter from RADEX to each of the stations might do some good. At least it would do no harm.

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.

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Write Name Plainly		
Street and No.		
City and State		(*****

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		FAVORITE	PRO	GRAM	S
Time Station		Feature	Time St	ation Dials	Feature
	D	AILY	_	WED	NESDAY
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	SU	INDAY		THU	JRSDAY
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	M	ONDAÝ		F	RIDAY
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- 8. Tubes and Troubles
- 9. Internal Troubles
- 10. Reproducer Troubles
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