THE SEPTEMBER 1930 RADIE OF THE RADIO HOME

Broadcasting Stations of the World What's New in 1931 Sets? The Lure of Short Waves Those Bothersome Noises

HOW TO TUNE A SET CORRECTLY **Read This Page Carefully and You Can Set Your**

Dials Accurately for Any Station in America

1900 Spokane, Wash, 500 Lincoln, Nebr, 500 Horron, Mass, 1000 Omaha, Nibr, 1000 Berrien Springs, Mich

210 troquois Fails, Oas. 500 Laramite, Nya. 500 Jan Hiego (Liff, 210 Baltimore, Md. 250 Belnin, Wis 500 Lawrenceburg, Tenn. 500 Memphis Tenn. 230 Hartord, Comn.

1008 San Prancisco, Catti, 1000 Kansas Clip, Mo. 500 Philadelphia, Pa. 500 Philadelphia, Pa. 1009 Kansas City, Mo.

500 Phoents, Aris. 1000 Portland, Ore. 1000 Tamps, Fla. 1000 Orlando, Fla. 500 Diser-Fuscraft, Ma. 1000 Milwaukee, Wis.

500 Victorili, B. G. 500 Yorkion, Sask. 500 Monetinn, N. B. 210 Marzetian, Mer. 500 Columbia, Mn. 500 Jennsville, Ind. 200 Washington, D. 500 Jefferoun City, N

5000 Los Angeles, Calif. 5000 Columbus, Ohio

5000 Nashville, Tene

WAAW 500 Omaha Nebr. WEAF 50000 New York City

Sump Chicado, Ili

RPO SHID San Francisco, Cal.

A LL stations in America are listed in RADEX in three tables:

1st by Frequencies. 2nd by Call Letters

3rd by States and Cities.

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

KIIQ WCAJ WEFI WOW WEMC

CFCH EFBU WCAO WFBW WOAN WRFC WTIC

KFRC WDAF

WIP

RFAD KGW WDAE WDBO WI BZ W I MJ

CFCT CJGX CNRA CYR KFRU WGHF WMAL WOS

WAIU

WSM

9 MAQ

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

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

Let us assume that the station we are hearing is WEAF in New York. First we must ascertain the frequency for this station. Look it up under WEAF in the Index by Call Letters or under New York in the Index by States and Cities. In either of these indexes we find that the frequency of WEAF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEAF is one of the two stations which have been assigned the 660 kcys. frequency by the Federal Radio We also Commission. find that it has a power of 50,000 watts, that it is located in New York City and is owned hy the

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

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

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

Now we tune in some other station, proceeding

INDEX BY FREQUENCIES AND DIAL NUMBERS 590 kilocycles 508.2 meters 76 74 ile Waxmer, Inc. Inreske Wesleyan University ison Elec. Illuminating Go. odmen of the World imanuel Missionsry College Abilitationers College Abilitation Power & Paper Co. Hishop N. S. Ingunse Aletan Radio Corp. Mean-mental Kadio Co., Inc. Beloit College Hean College Heat College 600 kilocycles 499.7 meters 74 1721 610 kilocycles 491.5 meters Dun Lire, Inc. Kansas City Star Co. Keysione Broadcasting Co., Inc. Climbel lines, Inc. Unity School of Christianity 620 kilocycles 483.6 meters 73 71 Electrical Fouriement Co. Oregonian Publishing Co. Tampa Publishing Co. Rollins College, Inc. Thompoon L. Guernsey Milwauker Journal 630 kilocycles 475.9 meters 72 170 Victoria Broadcasting Assin. Windpeg Gräte Erchange Garadian National Battery o Gastolin Lismas Stephen Goliege Evansille on che Air, Inc. Exensible on the Air, In: M. A. Gerse Co. State Marketing Buteou ____ 640 kilocycles 468.5 meters Perle C. Anthony, Inc. American Insurance Union 650 kilocycles 461.3 meters 70 68 onal Life & Accident Ine. Co. 69 67 Omaha Grain Fichange National Broadcasting Co. Inc. 660 kilocycles 454.3 meters 68 66 670 kilocycles 447.5 meters 67 65 680 kilocycles 440.9 meters

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

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

time in this case, of course, it is not possible to tell which one of the two stations is broadcasting at the particular moment we hear it, but we do know it is one or the other of them.

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

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

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





NUMBER 41

FRED CLAYTON BUTLER Editor and Publisher

SEVENTH YEAR

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By I. B. SMITH Technical Editor

LECTRICAL and mechanical repacks, loudspeakers, especially those of the dynamic type; the application of receivers to automobiles; the general movement toward simplicity of operation and the persistent efforts toward more perfect reproduction, are the outstanding points of progress during the last year. This, of course, includes the perfection of numerous accessories and the provision of new apparatus for the same purpose. There has been and still is, a transition from the old-style. battery-operated receiver to the new all electric type of receiver, which, as a rule, consists of one integral unit comprising the parts that formerly had to be purchased and maintained separately, and hooked up to the receiver by the radio fan or service man. With the unlimited possibilities involved with the use of house-lighting current for the operation of receivers, new tubes have been developed, superior transformers, chokes and other instruments have been perfected to eliminate the first serious objections to the use of house-lighting current for radio reception, namely, hum and the fluctuation of line voltage. Consistent efforts toward the solution of these problems have met with a high degree of success so that receivers that are now obtainable for a moderate sum, are practically humless and are not affected by variations of line voltage. More sturdy and durable apparatus was also found necessary owing to the high plate voltages required by new tubes, and as a result we now have heavy-duty condensers, chokes and transformers that will stand the strain. Thus, although the year of 1930 has not been marked by any revolutionary changes in receivers, unless one would so class screen-grid circuits, the outstanding feature is that there has been a stride toward the building of a better product.

WHAT'S NEW in 1931 SETS?

Noticeable improvement in reception has been accomplished by the use of screen-grid tubes, and most manufacturers have incorporated two or three stages, which resulted in a higher amplification value. As this amplification is so great that different means of detection have been found necessary to handle the immense output and for this reason most manufacturers have forsaken the old method of grid detection and have gone over to what is termed "power" detection, which is capable of handling the large output of the radio-frequency stages without distortion or the risk of overloading. Distortion caused by poor methods of detection, has often been attributed to inefficient audio systems.

Better Tone Quality

In consequence of this large amplification obtained from the radio-frequency stages, it has been found possible to use low-gain. audio-frequency amplifiers, which together with rapid strides in transformer design and the use of resistors, is responsible for excellent tone quality. Manufacturers have also applied themselves to the improvement of electro-dynamic loudspeakers, which contribute greatly to the good tone quality obtained and also to the audiofrequency range now possible. If proper output transformers are used on a welldesigned receiver, the efficiency of these speakers is so high that the frequency range is practically limited only by the types and different characteristics of the cones used. The majority of speakers have a paper or composition cone about 12 inches in diameter. The type of speaker generally used has a directcurrent field winding energized by the current obtained from the power unit. type of audio-frequency amplifier that is finding favor with the manufacturers consists of a straight audio stage, usually employing a 227 tube, which is in turn fed into a push-pull stage consisting of two 245 tubes.

Radio programs are also available to the motorist, thanks to receivers that (Continued on page 22)

What OUR READERS are THINKING

Letters to the Editor About Divers Things

THE letter of Miss Carrie Alice Brinkerhoff in a recent issue stirred - up a lot of comment. Several readers who have been annoyed at failure to receive verification from stations to which they had written, commended the idea of publishing a list of broadcasters who failed to reply. Thus H. Walter Fricke, 560 30th Street, North Bergen, N. J., writes: "I consider as basically sound your idea of publishing a list of those stations which do not reply to requests for verification, but I believe that very often innocent stations will be put on the black list. Thus Miss Brinkerhoff lists KSL as one of the discourteous stations whereas I received my verification from KSL within two weeks after I had written them and considering the distance, this is a very fair return."

Joseph J. Becker, 415 S. 11th Street, Hamilton, Ohio, also objects to including KSL as a delinquent. "They wrote me a wonderful letter offering to dedicate a number for me on the air." George Lilley, 227 W. Bernard Street, West Chester, Pa., also reports hearing from KSL promptly as have several others. M. B. Murphy, Glenn Ranch, Calif., points out that "some of the broadcasting stations, both large and small, are still in red ink on their ledgers and do not have the office force to answer all mail promptly."

KSL's Position

And from KSL comes the following: "We do not understand why complaints of this nature have been received by you as this is one of the things that we have been very careful about. In fact, we have one girl that does practically nothing but reply to letters and forward "Ekko" stamps. With the vast amount of mail received daily, it is, of course, possible that a few letters have gone astray. In this connection, may we suggest that you publish an editorial telling people when they write to radio stations requesting verification of reception, that they be sure to show name and address and that they clearly define the programs by time and numbers heard by them, so that stations will not have difficulty in checking the program which they claim to have received."

Judging from our own experience, stations must receive many letters with signatures and addresses which are practically illegible and in some cases which



Adelaide Candee, one of Ida Bailey Allen's Radio Home-Makers, illustrating the title of a talk entitled "Mirrors of Beauty." Miss Allen's talks are a Columbia feature

are unsigned altogether. So the fault is not always with the station and we are convinced that it would not be fair for us to try to indicate those stations which are careless in replying to inquirers. We have therefore sent a letter to every broadcasting station in North America asking them, first, if they are willing to verify reception upon receipt of stamp and, second, if they send "Ekko" stamps upon receipt of a dime. Almost without exception stations report their willingness to verify reception and, in the Index by Frequencies, you will find the symbol (*) in front of those stations which have signified their willingness either to verify or send stamp. Some of

the stations have adopted a stamp of their own in place of "Ekko" and some of them have no stamps at all. The latter are marked with the symbol (†) while (1) indicates those stations that do not care to verify.

We hope this new feature will prove helpful to our readers and help us to earn such commendation as that of R. Reid Pelton, 63 Benlamond Avenue, Toronto, Ont., who says "RADEX is a fine example of exactness and application, There is not another publication printed that spends so much pains on details that are so helpful to the ardent radio fans."

Radio Map Ready

Other evidence of our desire to serve our readers will be found in the new **RADEX** Radio Map of North America which will be ready for mailing early in September. We had planned to include this in the magazine, devoting a fourpage spread to it, but we found that even four pages would be too small a space in which to show all the stations of America, including those in Canada, Cuba and Mexico. We are, therefore, bringing out a map of the size of twelve pages of RADEX and are incorporating in it all the features which in our opinion will make it ideal for radio use. On the map will be shown the regular Index by States and Cities, with a key number for the quick location of any station on the map. We have received many complaints regarding a table of distances because more cities were not included. With such a table it is impossible to show more than one city from each state. We are therefore arranging a method of quick measurement of distances between any two cities of the United States. Canada and Mexico which we believe will be far more convenient than any table of distances could be.

The new map will be for sale on the newsstands at 25 cents each, or a copy will be included free with each new subscription or renewal for one year or more.

The Perfect Announcer

"In line with your suggestion to announcers," writes H. Gorman, of Naval House, Pa., "I would suggest if they would only give the name of their city after each selection, that would be a big help to their listeners. If the announcer would just say 'Baltimore,' my dial and my RADEX would tell me it was WBAL I was receiving and not WTIC."

"I have made a very important discovery," writes Edward C. Houlgate, 388 Waterloo Street, London, Ont. "On May 3rd I picked up WCSC. Charleston, S. C., broadcasting a test program and I found the 'Perfect Announcer.' They were broadcasting records and after each selection, the announcer gave the call letters, the location of the station and the owners. Please give this announcer a big hand; his name should go down in history." Mr. Houlgate adds. "Your publication is getting better with each issue. I think each copy is perfect and then the succeeding one has some improvement. I like especially the features by J. B. Smith. They are really beneficial and anyone can understand them."

CPRY or **CHRY**

This new station which R. Reid Pelton reports as a phantom call of CKGW on 690 kcvs., has been reported to us both as CHRY (Hotel Royal York) and CPRY (Canadian Pacific Railways). Official information regarding the station has not yet been received. Can our readers give us the correct call?

"Have you had any information regarding VCX?" writes Cyril P. Engelmeier, P. O. Box 132, Pittsburgh, Pa. "I understand it operates on 685 kcys. in Toronto and has been picked up quite frequently in the East."

"Somebody asked about WWU at Hadley Field," writes Thomas J. Fee, 33 Second Street, Elizabeth, N. J. "WWU's frequency is about 340 kcys., therefore it would have harmonics at about 680 and 1020 kcys. It is received here in New Jersey and New York on either or both of these channels and many listeners get the impression that these are its regular frequencies. Likewise, listeners have been hearing the second harmonics of WJZ and WGY on 1520 and 1580 kcys. respectively and have gotten the idea that they were getting

(Continued on page 19)

That's why thousands of

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[5]

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STATION CALLS in PUZZLE FORM

UR readers will recall that in our May issue, Viggo K. Jensen, of Geneva, N. Y., gave us a neat little problem when he submitted a list of seven world stations whose calls contained all the letters of the alphabet with no duplications. Only one puzzler has succeeded in equalling this record, Clair Calavan, of Jefferson, Ore., who makes up the following list:

CNRV	Vancouver, B. C.
KTUE	Houston, Texas
XGY	Hankow, China
PHOBI	Huizen, Holland
SMZD	Jonkopings, Sweden
AFL	Hamburg, Germany
WQJ	Chicago, Ill.

As the last named station no longer exists, the honors still rest with Mr. Jensen.

The Puzzle Editor thought he was doing pretty well in compiling a list of North American broadcasting stations of seven calls with only six duplications to include the alphabet, but a score or more of our readers have submitted lists with only five and four duplicates. The following submit lists which use only 29 letters or three duplicates: Clair Calavan, Jefferson, Ore., Russell Overman, San Fernando, Calif., W. H. Howe, Leominster, Mass., and then to show what a simple thing a puzzle is to a girl, Emma E. Laughlin, Barnesville, Ohio, submits six different lists each with but three duplicates. No use trying to fool a woman!

The June cross-call contained a number of alternatives and, in sending out the rewards, any of these were considered as correct. If you do not receive a copy of the September number as a reward for your solution, check the following for your error:

> CKCR WKBW WASH G WHAZ BSO KWK WCY BATK OC LC MCBW KOA KP KZ LGW KFRC KR AX CHWK OHW CMC KFH WCOC S WJAK TSGW KCRC

[6]

The puzzle which appears on this page was submitted by Earl Roberts, of Indianapolis, Ind. This is an unusually clever problem, most symmetrical in design, with every letter keyed each way. Only those who have tried to design these cross-calls will be able fully to appreciate Mr. Roberts' achievement.

For correct solutions of this puzzle we are offering a new reward—a copy of our radio map of North America, which is described elsewhere in this issue. So get busy and try your hand at this latest course in broadcasting station lore.

Horizonta I

- 4. In the Carolinas 1-
- 5- 7. A midwestern university
 8- 11. On 1370 kcys.
- 12- 14. Comes over the water
- 15- 16. These letters use twice give a Canadian station
- 17- 19. On the Hotel Plaza
- 20- 23. An inland city with a harbor
- 24- 26. Recently taken over by the NBC 27- 30. Where the American Zeppelin docks are located
- This letter in three stations in one city
 32- 35. On 1420 kcys.
- 36- 39. A railroad station
- 40. Also in three stations in one city
- 41- 44. (Reverse) 211.1 meters 44- 47. Fifty kilowatts
- 48- 51. On the Hudson

- 51-53. (Reverse) In "The Centre" of California
 53-56. A Sunday station
 57-60. In Red Oak
 61-62. Second and fourth letters of Virginia station 63- 66. In "The Pearl of the Antilles"

- 64- 67. (Reverse) In Maryland 68- 69. Middle letters of Boston station
- 70- 73. A state police station 73- 76. On Mountain Time 77- 80, In Sand Point

- 80- 82. In Old Mexico

- 83- 86. A Southern insurance company
 83- 86. A Southern insurance company
 86- 89. (Reverse) East of the Smokies
 90. No Ohio station uses this letter
 91- 94. In city named for Indian tribe
 95- 98. In the "City of Brotherly Love"
 99. Signifies a station east of the Mississippi
 100-103. Last three letters are owners' initials
 104-106 (Reverse) Also taken over by NBC
- 104-106. (Reverse) Also taken over by NBC
- 107-110. An hour faster than EST

- 101-110. As tate college 114-113. A state college 114-115. Middle letters of live stock station 116-118. Fifteen kilowatts 119-122. (Reverse) Shares time with WEDC 123-125. A "Wescoast" station 126-129. A Honoire university
- 126-129. A Hoosier university

Vertical

- 1- 31. In the Blue Grass state

- 2-21. A new Columbia outlet
 3-32. (Reverse) Daylight only
 4. First letter of first station alphabetical 5- 35. On thirteen-ten 6- 25. Last two letters of long-deleted Lansing
- station
- 7- 36. Last three letters stand for college owner 8- 27. Abbreviation for power
- 9- 39. A labor station 10- 29. Jas. McClatchy Co.
- 11- 40. In city named for great battle

- 23- 51. A better radio club 27- 57. Recently changed cities 34- 52. Last Mexican station
- 36- 66. In western Canada
- 37- 56. A U. S. station on Canadian wave 44- 76. A Columbia station
- 48- 70. Another fifty k.w. 49- 71. Last two letters of 20 k.w. agricultural
- 50- 72. Shares wave with two Tenn. stations
- 43- 53. Last two letters Lake Erie station

- 53- 85. At the foot of the Cascades
 58- 80. (Reverse) 101 watts
 59- 81. Last two letters of station on 1285 keys.
- 60- 82. Shares time with N. M. station 63- 93. In Kamloops
- 66- 95. A cow station 67- 88. A big newspaper

- 73-103. A western state college 79-107. A Luther college station 86-105. First and last letters of Mexican station
- 90-119. (Reverse) in B. C
- 91-121. A daylight station in California
- 94-123. A big Japanese station 95-125. "Where the World's Best Colfee Grows" 98-127. A Warner Bros. production 99-129. Sister of 116-118

- 101-120. In New Mexico 103-122. First and last letters of Toronto station
- 105-124. Second and last letters of station now named WXYZ
- 107-126. First and third letters of smallest station in Canada
- 109-128. Farthest south station of continental U.S.



One of the few outstanding humorous features of radio is "Chic" Sale, otherwise known as "The Specialist." As "Wheel" Wilkins, proprietor of the "Liberty Bell Gas Station," his whimsicalities are broadcast over the CBS

[7]

WHEN THINGS GO WRONG

Answers to Readers' Troubles by I. B. SMITH Technical Editor

We have a nine-tube Case all-electric neutrodyne receiver equipped with five UX 226, one UX 227, two UX 171A and one UX 280 tubes. The speaker is a Farrand electro-dynamic with three leads and specified by the manufacturer to have the proper impedence for the receiver. The speaker is suspended by means of rubber strips to reduce vibration. A pulsating hum, which I believe to be of microphonic origin, interferes with the reception and so far we have been unable to eliminate it. Kindly suggest what you think will be helpful in this case.

First remove the set chassis from the cabinet and place it in such a position that the receiver will not be directly in front of the loudspeaker. If the speaker connections are not long enough, use temporary extensions, wrapping the joints with tape. Turn the set on to determine whether the hum still persists. If you find that the set works well with this temporary arrangement, your trouble has been caused by microphonic action, and the methods of curing this trouble are as follows: (1) Get a howl arrestor in the form of a metal cup or weight, and apply it to the detector tube, and possibly another one to the first audio amplifier. Ground the device to the frame of the chassis with a length of flexible wire. (2) Reduce this plate current to the detector and possibly also to the first audio tube. This can be done by introducing a resistor such as a Clarostat in the lead supplying plate current from the power pack. If the trouble still persists with chassis out of case it is not caused by a microphonic action of the tubes, but is an a. c. hum induced through the field windings of the speaker or through the plate or filament circuits of the receiver, or power pack, or both. As you mentioned in your letter that the speaker has three leads it seems that you

have a d. c. speaker and that the output transformer used for operating the speaker is an integral part of it. Trace the three leads back to the receiver in order to determine which one connects to the plate of the power tube. Remove this lead from the post to which it connects to see if the noise still persists. If so the hum is induced through the plate or filament circuit of the receiver and should be gone over by a person who is well versed in this particular type of receiver.

Can you tell me how I can make my Zenith receiver tune more sharply, aside from the installation of a wave trap? Local stations can not always be separated.

First, I should like to call your attention to the fact that on nearly all receivers, the stations operating on frequencies from 1000 to 1500 kilocycles are much broader than those below this band. Of course, this is not the fault of the stations but of the receivers. Also it is difficult to tune in one or two stations that are separated by only 10 kilocycles. I presume that the big reason for your trouble of broad tuning is the close proximity of the stations with which you are having trouble. However, lack of selectivity is often caused by improper adjustment of the trimmer condensers. If you will get a copy of the May issue of RADEX, turn to the article entitled "Balancing Condensers on T. R. F. Receivers," which gives instruction for adjusting them.

Last November we purchased an Admirality 10 from a mail order concern. The selectivity is good and we get quite a bit of distance, but the volume is weak. We do not get the local stations much louder than distant ones, which is not right. Can you suggest where the trouble lies?

In shipping a receiver for any distance it is probable that one or more of the tubes was jarred and became defective. Hence, one or more stages are not operating properly and therefore the amplification value is very low. Another pos-

(Continued on page 10)

THE LURE of the SHORT WAVES

Comment in a recent issue of this magazine to the effect that some manufacturer should bring out a combination short-wave and broadcastband receiver, brought us so many letters from our readers that we are giving this subject an article of its own.

Richard Zorn, North Baltimore, Ohio, sends us a circular of the Super DX-5 which he says is a wonderful outfit but high in price, listing at \$150. The manufacturers claim that this set has a wave range of from 20 to 205 meters regularly and adaptable with extra coils down to 10 meters and up to 2000. It uses the new pentode tube, push-pull audio amplification and double shielding. Their claims, for which, of course, we cannot vouch, are that with this set "reliable international reception is to be had daily, with good quality and comparatively free from static. Selectivity is of the highest order, 3XAL Bound Brook 6100 kcys, being separated from 2XE New York 6120 kcys., with a distinct dead spot in between. The set is completely all-electric although d. c. batteryoperated models can be supplied."

Regarding operation the manufacturers say: "Generally from 14 to 18 meters is best East and West from daybreak until 2 p.m., when they fade out and nothing can be heard until after dark. From 18 to 33 meters you may listen to European stations from 1 p.m. to 10 p.m. and stations to the west of the United States from 1 a.m. until 9 a.m. Between 33 and 75 meters reception is not generally good in daylight and best for East and West reception from 7 p.m. until 7 a.m. In daylight you can hear Chelmsford, England; Huisen and Eindhoven, Holland: Spanish stations and Zeeson, Germany. Lynby, Denmark, is heard occasionally and, of course, there are a number of regular American broadcasters on short waves. At night the list of stations is very diversified.'

Dr. C. F. Rodgers, Conneaut, Ohio, has a new National SW-4 that covers from 18 to 570 meters. Regarding it, he (Continued on page 23) Reports on Roundthe-World Reception



What Makes the Wild Waves Wild?

Pulchritudinous Lee Barllett, "Miss Atlantic City" in the last beauty pageant, brought the welcome sound of breaking waves to Columbia's millions in the "Dancing by the Sea" program last month

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When Things Go Wrong

(Continued from page 8)

sible source of your trouble is low-line voltage. Get a local electrician to test the voltage of your house-lighting circuit under a full load at night. In case that you find this is lower than 110 volts, get a voltage regulator, which is installed at a point between the plug and the receiver. This will automatically increase the voltage to the proper value. In respect to the tubes it would be a good idea to get a few extra tubes as substitutes for those in use. By changing the tubes, being sure to use the correct ones in the proper places, you may be able to remedy the trouble yourself. In many cases where radio owners connect up their own sets, which they have purchased from mail order houses, some seemingly insignificant connection is inadvertently forgotten, which causes lots of trouble. For this reason I would suggest that you go over the instruction manual again and check over every connection, making sure that it goes to the right point. In respect to the aerial and ground the importance of a good installation cannot be over-estimated. Lack of volume can often be traced to inefficient ground connection or a short-circuited or partly grounded aerial. A long aerial will also pick up more signals than a short one. I hope that these suggestions will help you, but if not, do not hesitate to write again.

I have a Buckingham Model 80 A. C. receiver. On a few stations I get good volume but on most stations we do not get enough volume. What causes this and can it be remedied? There is also a rattle in the loudspeaker, which is of a dynamic type. The rattle is especially noticeable on low notes. Outside of this the tone quality is satisfactory. Sometimes there is a loud ringing noise or howl, and by changing the amplifier tubes this trouble seems to be lessened. I think that there are five 227 tubes in the set, whereas the instruction manual calls for four. Would this make any difference?

Go over your instruction manual and check up whether the tubes in your set are in accordance with those prescribed in the manual. The trouble with the loudspeaker, namely, rattling, can be remedied by following the suggestions published in the June issue of RADEX. The trouble most likely to occur is improper adjustment of the cone apex over the pole piece, and the rattling would naturally be more pronounced on the low notes. The occasional howl that you experience is undoubtedly caused by a microphonic tube. Change the tubes around as much as possible, using only the proper type of tubes in each stage as the set demands.

I would like to determine exactly how much current my set is consuming and then figure out how much the cost of operation is per hour. Can you tell me how to proceed?

The simplest method of doing this is by means of comparison. Go down to your meter and when all the lights and electrical appliances in the house are turned off, the little disk behind the glass should be at rest. As soon as current is consumed this disk will rotate. Turn on a 50-watt lamp, which consumes exactly 50 watts of electrical energy per hour. Now note how many times the small disk rotates per minute. Suppose that this is 10 times. Turn the lamp off so that the disk will again be at rest, after which the radio set is turned on, and the rotation of the disk is again noted. Supposing that it turns 20 times per minute, or exactly twice as fast as it does when burning a 50-watt lamp, it is obvious that it consumes just twice as much electricity as the latter. Now suppose that the flat rate for electricity is 10 cents per killowatt hour, which is equivalent to burning a 1000-watt lamp for one hour. Naturally a 500-watt lamp would consume only half of this amount per hour and would cost five cents during that time. Similarly, a 100-watt lamp costs one cent and a 50-watt lamp only one-half cent per hour. The radio set consumes say twice as much electricity as a 50-watt lamp. In other words its consumption is 100 watts, which costs one cent per hour at the above-mentioned flat rate. In many cities, however, there is a sliding scale of rates, which depends on the amount of electricity consumed per month. For instance, in (Continued on page 21)

THOSE BOTHERSOME NOISES

By G. R. Walters of the Radio Trades Association of Southern California as Broadcast over KFI-KECA

PROGRAMS leave a radio transmitter in the form of waves, which we call carriers. Once they leave, these carriers wander about through space looking for antennas. There seems to have grown up, in the minds of the public, a belief that the modern receiver does not need an antenna.

fixture hung from the ceiling by chains is an antenna. If you have stand lamps, then their cords are antennas. The screens on the windows and doors are antennas and so are the strings on your pianos. All wire inside your house is an antenna. The gas pipe and the kitchen stove are antennas and so is the sink,



"The Poet of the Organ," Jesse Crawford with his two inspirations. With two such at home waiting for and listening to him, the poetry is accounted for.

If your radio reception is good, if you have no interference, and you receive all the stations you wish, then leave well enough alone and be happy. But if you have a fifteen or twenty-foot wire trying to serve as an antenna and you get interference, don't report that you have a "leaky transformer." You haven't any idea how absurd that really sounds.

In all probability, you have at least a dozen antennas in your house. There are at least a dozen agencies in the average home which collect both programs and noise.

Every wire outside your house is an antenna. Each one of them collects radio signals and neighborhood noise. They are brought into your home by means of your telephone or light wires. Every the bath tub, the water boiler.

A modern radio set will take every vagrant electrical wave, multiply it 1,750,000 times, and deliver it to your loud speaker. Perhaps you wonder what the solution is.

Broadcast stations always put their antennas as high in the air as they can because the higher you go from street levels, the more unpolluted the air.

We find that interference begins to disappear and signal strength of stations begins to increase at thirty feet from the ground in the average location.

You must put your antennas up away from the influence of all noises and carriers of noises. When it becomes necessary to turn up the volume control of your set, you increase noise more rapidly than you increase the program. Interference is only a question of which is greatest in your locality, noise or signal strength. Suppose you lived a block from KFI or KECA. It would be almost impossible to create enough interference to hurt reception.

When you shorten an antenna you lose the ability to collect the signals from stations, consequently you must turn on more volume. When you do that you get more noise.

Prove it to yourself in this way: Disconnect your antenna and ground from your set. If you live reasonably close to a broadcast station you will still be able to hear a program by turning on more volume. What acts as an antenna in this case? Your light lines of course.

When you connect an antenna post to a water pipe, your light lines become an antenna immediately.

Every once in a while we get a letter from someone who boasts that he has played some distant stations on eight feet of wire. As a matter of fact he has used eight feet, plus all his house wiring, plus all the utility lines on poles outside his house, plus a few more antennas he has around.

We find hundreds of cases where a blown fuse has been replaced with tinfoil or pennies or washers. Fuses work loose. Tighten them and you have done yourself and all your neighbors a favor.

We find a lot of interference caused by entrance switches which disconnect your house from utility lines. Try working the blades back and forth without quite opening your switch entirely when your radio is 'turned on.

In my first talks at KFI and KECA, I spoke about the use of wire or metal lath as a foundation for plaster in a house.

The trouble isn't with the metal lath, it is with the person who installs a radio with an antenna where the wire from the antenna to the set runs down the wall close to the outside of the house.

Just out of curiosity I measured to see how much chicken wire was used in the house I live in. I found it to total 3000 square feet. All right! Let's make an antenna out of that. Let's say we make one ten feet wide. It would be three hundred feet long. Right beside that. let's string our antenna one inch away from it. What do you suppose the result would be?

It would simply mean that this long stretch of chicken wire ten feet wide and three hundred feet long would provide a tremendous pick up. That would be fine as long as it only picked up programs but it would pick up plenty of interference too.

Let's take that same piece of wire netting and ground it. Remember your antenna is still an inch away from it and parallel to it. The grounded netting would serve as a grounded shield if you put enough grounds on it.

We find a great many houses that were wired for radio when they were built. A pair of wires run from the attic to the service outlet near the floor to supply the set. On the other side of the same studding that carries the 110-volt wires and running parallel for many feet runs the antenna lead-in.

You can't run an antenna for any distance, side by side with a 110-volt line without getting a hum in the set. And in these cases they are separated by only four inches and run parallel for many feet.

There are in American homes and factories today thousands of appliances which create radio interference. The real job is to find it. There isn't a single appliance known which cannot be thoroughly silenced with a proper filter.

A vacuum cleaner may or may not create interference, depending upon the design and condition. Turn on your radio and then operate your vacuum cleaner. If it disturbs your reception it is almost a certainty that it will disturb your neighbors.

Electrically-operated sewing machines are much on the same order. Both of these can be thoroughly silenced with a filter or by new brushes, truing up the commutator or new bearings.

Any induction type motor will not create interference in its normal operation. The kind of motors that create interference are the brush type.

Lamps with broken filaments and lamps loose in sockets cause no end of trouble. I know one community within the service range of KFI-KECA which was seriously disturbed by a sign hung across a highway. It was illuminated by lamps. The jarring of trucks loosened the lamps and interference ruined radio reception for several blocks.

Battery chargers, of the vibrating type or tungar tube, will create interference unless filtered.

Any house where the wiring is placed in iron pipe or conduit, is less susceptible to interference when the wire is open on porcelain knobs or tubes. The conduit serves as a very effective choke.

Nearly all electric fans are induction

interference in Santa Barbara. Radio dealers, technicians from KFI-KECA, and utilities spent a long time investigating before they found that it was caused by a small appliance used to heat a baby's milk. The noise it made, common to many similar appliances, was a periodic buzz.

There is a certain peanut vending machine where the peanuts are heated by a lamp which flashes on and off. These operate by the hundreds in cigar stands and drug stores. You can hear them a hundred feet or more in all directions.



A group photograph of Columbia's dance orchestra leaders. From left to right we have Will Osborne, famous for his crooning; Paul Tremaine, who specializes in spirituals and novelties; Fredie Rich, one of Radio's most prolific conductors; Jules Asserty, popular society entertainer; Huston Ray, who can play two pianos simultaneously; and Ben Pollack, of Broadway fame

type. If it says "induction" on the nameplate, it is harmless. There is a certain line of fans, soft drink mixers and hair dryers which create interference of such density that it can be heard for several hundred feet if you are on the same line with the house.

We hope the day will come when the manufacturers of all appliances will be compelled by public opinion to so design or filter his products that no interference will result. And when that time comes, merchandise should bear a label reading "Non radio interfering." There are products of that kind on the market today.

Sometime ago there was widespread

When appliances start creating interference all the wire in the house becomes a radiating antenna. In addition to that this interference is fed back on the line through your meter and may travel for a block or more.

Twenty-three cities in Southern California have passed ordinances to regulate the use of devices and appliances which cause preventable interference. The cost of repairs or filters is not great and almost every radio dealer carries or can get the proper filter for any appliance.

The new Radio Map of North America is ready to mail. 25c.

GETTING RID of INTERFERENCE

Many Noises are City-Wide—Get Your City Officials and Chamber of Commerce Interested.

THE saying has become most hackneved but it still expresses an idea better than any other that has been devised. We refer to Mark Twain's remark about the weather. "People are always kicking about it," he said, "but nobody does anything about it." So it has been for years with the subject of interference by man-made static in radio. Until the advent of broadcasting no one realized that electric motors were sending out into space electrical disturbances and when highly sensitive receivers came into our homes, we took these entirely unnecessary noises as an evil that which could not be cured but must be endured. Happily the worm is now turning.

Throughout the country systematic efforts are being made to eliminate this bugbear of radio. Just today we received from the Tobe Deutschmann Corporation information regarding the countrywide campaign they are initiating to eliminate interference. This company manufactures "Filterettes," a condenserlike device to attach at the source of the noise and by-pass the high-frequency current. They are now cooperating with any city which asks their help to run down the noise makers and diagnose the trouble and prescribe the proper filterette to meet the situation.

They ask that we bring to the attention of our readers the fact that cities may obtain the services of an interference engineer, and we are most happy to pass the word along. With the service which the Tobe Deutschmann Corporation is willing to render, our readers need no longer suffer in silence. All they have to do is to take the initiative through cooperation with their neighbors in bringing the undesirable situation to the attention of their local authorities. For their information we reproduce below the offer of the company whose address is Canton, Mass.

Do You Want Immediate Action On Radio Interference In Your Own Community?

"With the advent of the present-day radio set, in itself a clear-toned, sensitive musical instrument, the question of eliminating radio interference from residential districts becomes increasingly critical.

"Whether or not the annoyance of outside radio noises has been called repeatedly to your attention, you will readily appreciate that any community in which these raucous disturbances are at a minimum is indeed fortunate.

"This company is a leader in the field of radio interference elimination. If your town seems to be getting more than its share of radio noises, possibly we can help you as we have many other towns and cities.

"The expense entailed, considering the immediate benefit conferred on practically every citizen of the community, is negligible, twenty dollars a day and the expenses of the engineer making the survey. For this sum you receive a complete and accurately determined survey telling you just where your trouble lies, and how to correct it.

"We manufacture filterettes for almost every type of extraneous radio noise. There is almost no type of man-made electrical disturbance which we cannot eliminate or reduce to a negligible minimum. Within the space of a few days hundreds, thousands even, of your citizens would be enabled to enjoy clearer radio reception than they had ever before known.

"There are generally a few major causes of trouble which, if remedied, make the difference between radio reception which is impossible, and a condition which is so much better that listeners are encouraged to go ahead on their own and filter their own premises and apparatus.

"We should be glad to furnish you with further details of how you can make your town a better place to live in."

THE HOBBY of DX RECORDING

In presenting reports on DX records, obviously it is impossible for us to make any verification of them. We feel sure these are sent to us in good faith and we offer them to our readers in the same spirit. Some correspondents keep their records in the most complete detail and these bear every evidence of accuracy. Thus David C. Crossman, 1133 Spruce Street, Chester, Penna.,



She sings high and he sings low — Adele Vasa, lyric soprano, and John Barclay, baritone, who require two different microphones for their duets over the CBS. Mr. Barckay is six feet, seven inches tall

It's More Fun than any Other Sort of Collecting

sends us a carefully typewritten list of 200 stations, giving his complete verification record with those stations. He indicates those which send "Ekko" stamp, those which send their own station stamp, those which verify and the promptness with which they do it.

From C. M. Falconer, 209 Highfield Road, Guilford, Baltimore, Md., comes the following interesting comments: "I have quit asking for 'Ekko' stamps. As verifications they are not trustworthy and their only value is in their physical appearance. What I want is the signed verification, and I can easily get 'Ekko' stamps from the Ekko Company whenever I have the necessary verifications. By enclosing a duplicate of my letter and not using the 'Ekko' cards at all, I find that I am now getting replies within a few days. All the station has to do is to O.K. one copy of my letter and mail it back to me in the self-addressed envelope that I always enclose.

"I received a few days ago a verification from KGU, Honolulu, covering their broadcast when they were using 500 watts power. I have made diligent inquiry through the Newark News Club and in other quarters, but have not yet been able to locate any other listener on the Eastern Seaboard who has a verification from that station. It is difficult to receive not only on account of its distance, but because WFIW, Hopkinsville, uses the same frequency. There is a period from 12 to 1 a.m. EST when WFIW is off the air and it was during this period that I heard KGU.

The DX Clubs

"If you will lend your editorial support to the radio clubs of the country, you will do a great deal of good. Anyone who really enjoys DXing should be a member of at least one club and if that club has a column or a page in a daily newspaper, a subscription to that paper

is well worth its cost in the information it gives one even though the paper may not be received until one or more days after publication. I am a member of the Newark, Buffalo and Chicago clubs, but the only meetings I have attended have been in Newark. At the Newark meeting you will see fifty or more copies of RADEX, which seems to be regarded as the DX Bible. The club members are boosting your sales and they would appreciate whatever cooperation you can give them. These club memberships cost usually only \$1.00 a year with an initiation fee of \$1.00 the first year, so that the cost should not be any real obstacle."

Mrs. Edwin T. Morris, 524 East Saville Street, Roxboro-Philadelphia, Pa., writes in this connection: "RADEX was unknown to me until I joined the Newark News Radio Club. Read so much about it in the Club Notes, published in the Newark News, I bought my first RADEX in March, and it surely has been a wonderful help in my DXing. I have logged and verified 75 100-watters in the United States and Canada this season and 16 from ten to fifty watts. including a 25-watt station in Prince Edward Island. Several years ago I verified 206 stations when there were about half as many on the air as now. Those verifications were turned in on a contest and never returned to me. I didn't think anything of it at the time for I did not appreciate the value of them then. I have since started all over again and now have 509 verifications. with about 75 of the first logging. I am one of the DX Aces of our club and DXing is my greatest hobby. All of my records have been made on a Fada purchased in September, 1925. Pretty fair for an old-timer like mine."

Conditions in Canada

From Kenova, Ontario (P. O. Box 998), Edward B. Makin writes: "Let me congratulate you on a fine radio publication. I have found the only real attraction in radio since reading the DX letters but, say Mr. Editor, if any of your DX fans want some peculiar experiences, let them try a few nights in Kenova. For instance, on 560 kcys., I get KLZ, Denver, just as loud and clear as WIBO, Chicago, *but* one fades out while the other comes in and vice versa. This happens regularly. Station KFXF, Denver, 500 watts, comes in just as loud and clear as KOA, 12500 watts, and I can very often get the smaller station when the larger-powered station is fading badly. It is almost impossible to get stations in the 580, 630, 880, 890, 930, 1200, 1210, 1250, and some other wave lengths where there are several stations broadcasting at the same time, as they all come in with equal volume."

"I have been DXing about 5½ months and during that time I have logged 367 stations, including 26 in Canada, five in Mexico and five in Cuba. I have every state in the Union with the exception of Maine, New Hampshire and Vermont. These were all logged on a Standard 8-tube Silver Radio." This is the record of a fifteen-year-old DXer, Gerald McGrath, 2211 South Clinton, Sioux City, Iowa.

"Before me as I write I have a wonderful letter from JOAK, the Takyo Chuwo Hosokyoku or Tokyo Central Broadcasting Station," says Leon V. Garland, P. O. Box 93, El Segundo, Calif., who adds that there is a new 3000-watt station on the air in Japan at Kanazawa the call letters are JOJK and the frequency 708 kcys."

Joseph J. Becker, 415 South 11th Street, Hamilton, Ohio: "Since November 6th, 1929, I have logged 500 stations. I own a Majestic radio and think its equal cannot be found."

Wilfred T. Siddle, 3917 7th Court, South Birmingham, Ala.: "I have received a station which was signing off on 950 kcys. which announced their location as Miami, Fla. I could not catch their call letters and RADEX lists no Miami station on or near 950. Have any other readers heard this station?"

John Malone, Box 195, Lacon, Ills.: "In the January issue some lady said she had logged 126 stations in 26 days. When I read this I started logging stations and keeping records. I find now, that in 25 days I logged 175 stations, an average of seven per night. All in all, since January, with RADEX at my (Continued on page 24)

The SONG LADY A Short Story by E. VIVIAN SCOTT

D OUGLAS stood with his nose pressed against the window glass. His eyes were glued to the spot in the road where one could first see the top of a person's head as they came up the hill from the village. At any moment now his father would come in sight, and he would be bringing—a radio! Douglas stood. The little boy could but dimly remember his mother—that graceful, laughing creature who sang to him and covered him with kisses. At least he supposed she was his mother. Everyone had a mother, didn't they? And then sometimes they suddenly went away somewhere and you never saw them any-



Here is the announcing staff of the Columbia System, all dressed up in their new summer uniforms. Left to right, sitting: Harry Vonzell, David Ross and Don Ball; standing, George Beuchler, Frank Knight, Hugh Walton and Ted Huxing

had wanted a radio so badly, ever since the night he stayed with the Turners, the time when his father was in the city on business. Somehow the music he had heard that night had gripped him strangely and for the first time he realized that he loved it. Something within him had seemed to leap and respond to the enchantment of it. His soul was starved for it but he had not known it.

For a boy of nine years, Douglas was quaintly pathetic. Always that wistfulness so appealing to those who undermore, and you missed them a lot. His mother had been that kind. The house had all at once turned horribly silent and there was only Daddy to see and to talk to—Daddy with the sunshine gone from his face and as silent as the house.

Life had become a drab existence for the man and the boy. It became eat, sleep and school for Douglas. Some days he found his father sitting in the silent house when he came home from school and sometimes he found him gone. Then he must wait, just like tonight, face against the glass and watching the road. But now, all would be changed. And the boy's eager little face glowed as he thought of the radio. Music! Silvery voices! Noise! That was what he wanted. It had been hard, dreadfully hard to coax his father to say he would buy a radio. But that thing of magic would soon be here, and then—

John Rollins slowly drove his team up the hill. Unconscious of the eager little face at the window, he spoke to the horses absently while his thoughts were far away. Funny—the way life treats a fellow sometimes. Hope and a wonderful happiness for a time, and then, grim misunderstanding and finally indifference and loneliness. Of course he was the only one who had suffered. She had not cared anyway. Too dreamy and flighty; too irresponsible to realize that she was the wife of a poor man and that the days of light foolishness were over. That was it! Foolishness!

Singing! That eternal warbling all over the house! No wonder he couldn't stand it! Any sane man couldn't. Perhaps she was where she could sing now! Europe, probably. She had always wanted to go there. Foolishness! And the boy was like her—too much like her. Music! Singing! And yet he had been fool enough to give in and buy this radio. He glanced at it now scornfully. At least it could be shut off when it became unbearable.

A joyful child to greet him, but that didn't matter. Perhaps now the kid would be satisfied and get all the infernal music he wanted.

Breathlessly Douglas watched him install it, but not once did he speak. If he did, it might make his father angry enough to take the set back. Eagerly he waited. Oh, would it never be ready?

At last the final connections were made, and John Rollins, unaware of his own anticipation, slowly turned the dials.

Music! Sound! Scarcely breathing, Douglas held himself straight and gripped the arms of his chair. At lastmusic!

The moments flew on while John Rollins sat before the set and the boy drank in the wonder of his wish come true.

In the weeks that followed the house was not quite so silent. True, there were times when his father would not let the set bring Douglas his music and he had to go to bed bitterly disappointed. But John Rollins himself could not explain why he turned the set on in the evenings when his better nature prevailed, why he sat there slouched in his chair—thinking.

Once, there came a voice, silvery and clear, and the man jerked himself up quickly and changed the dials. It was such a beautiful voice and Douglas would like to have listened.

And then, one day, coming home to find his father gone, Douglas turned the dials himself. That voice again! Eagerly the boy listened. Such a nice voice, and tinkly like! She must be a very beautiful lady. "Somewhere a voice is calling, calling for me," sang the voice and Douglas crouched closer.

A step outside, and John Rollins strode into the room. Douglas turned to smile at his father.

"What station is that?" John Rollins asked.

For several moments the man and the boy listened. Then, abruptly, the man pushed the switch and the boy watched him leave the house.

Coming home the next day, Douglas again heard the silvery voice, just as he started to open the door. His father listening to that voice!

Softly he pushed the door open a crack. John Rollins sat there, oblivious of all else but the voice. And there were tears in his eyes!

Awed; Douglas stepped back quietly and closed the door. His father liked the lady too!

John Rollins often listened to the silvery voice after that, sometimes when Douglas was there too.

"And a little child shall lead them," came floating in to them one day. Astonished, Douglas saw his father drop his face in his hands and give a great sob. Without knowing why, the boy felt resentful. Why did she make his father cry? Perhaps she wasn't so nice after all. It was queer that his father liked to listen to her. But this time her song had almost made him want to cry too! The song lady must be sad.

(Continued on page 24)

What Our Readers are Thinking (Continued from page 4)

short-wave stations. The short-wave stations on both WGY and WJZ have frequencies much higher than the broadcast receivers can get even though they may tune down to about 180 meters."

WGM and WOOP

Mention of the above stations in a recent issue brings us a request from the Federal Radio Commission as to what we know about them, the implication being that they are outlaw stations on the air without authority. One reader sends us a newspaper clipping which reads in part as follows: "In the rolling hills back of Jeannette, Pa., in the four or five-house town of Adamsburg, there exists an Old King Koal of a modern day in WGM, the 71/2-watt broadcasting station whose studio is at the mouth of a coal tipple. Since July, 1925, WGM has been operating on a regular schedule, presenting high-school orchestras, fiddlers, banjo strummers, instrumentalists-all home-town talent. Edward Tomajko, Jr., owner of the station, is the announcer, operator and station manager. His audience is clamoring for an increase in power and more time on the air."

Howard B. Hubbard, 358 Windsor Avenue, Stratford, Conn., sends a letter from the Commission which states that they have no official knowledge of WOOP which seems to be a sister station of WGM at Jeannette.

Defends WWJ's Rights

In a recent issue William E. Kessell. of Temple, Texas, complained vigorously about the maelstrom on 920 kcvs. and of the insufferable interference between WWJ and KPRC, both assigned to that wave. Philip M. C. Armstrong, of 446 Clinton Street. Detroit, takes up the cudgels for WWJ. Says he: "Your correspondent cannot be well informed as WWJ is entitled to this wave clear of interference. WWJ was the first station to broadcast regular programs over the air, although KDKA did some spasmodic broadcasting a little earlier. From the very first, WWJ has consistently been a high-grade station, featuring many locally originating programs of superior quality. Both historically and on account of its uniformly perfect record, it is beyond doubt entitled to a clear wave with plenty of power. It now has neither, While many newcomers of inferior quality have been granted clear waves and maximum power. WWJ is held down so that it is not received with decent volume even in parts of Michigan and spoiled even in Detroit itself by is heterodynes at times, both from Houston and Denver. WWJ has pending an appli-



Introducing "Tony Cabooch," the one-man radio show, alias Chester J. Gruber, of the Anheuser-Busch Antics which reach you every Tuesday at 11 p.m. E.D. S.T. over the Columbia Broadcasting System. He has portrayed as many as twelve characters in a single production, speaking half a dozen dialects

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cation for another frequency with maximum power which is now 'loaned' to a Chicago station. If this zone had a square deal this frequency would be given to WWJ." In all of which the Editor fully concurs except to say that Mr. Kessel did not argue WWJ's right to its wave but merely pointed out that WWJ and KPRC were destroying each other's programs.

And WGY Too

The Editor recently criticized WGY for taking the lead in appealing to the courts to break down the authority of the Radio Commission and setting up the claim that a channel belonged to the station that first pre-empted it-a theory that would mean the destruction of radio control. Now comes David Mason, Jr., Oregonia, Ohio, as the lawyers would say, to criticize the Editor for criticizing WGY. "I say WGY should be given any wave they ask for, for WGY and KDKA spent thousands of dollars testing and sending programs out and making radio what it is today. WGY has been kicked around as badly as any station and then when radio begins to pay, other stations get the choice channels. Where would radio be if it had not been for WGY and KDKA? WGY is now spending thousands of dollars a month on television. Did vou ever hear of ----- spending anything on it? After television is practical then and hundreds of other stations will be in it for the money it pays, but until that time they are not in it." All of which to the contrary notwithstanding. we still insist that appealing to the courts to overrule the national federal radio authority will ultimately break down control and return radio to a terrible chaos. We think it just as senseless to ask the courts to decide a ruling of the Radio Commission as it would be for a ball-player to go to court when the umpire called him out.

A Static Eliminator

"I recently heard," writes S. J. Hauser, 854 East 143rd Street, Cleveland, Ohio, "that attaching an outside ground to the aerial lead-in would reduce static and improve reception. Is there anything to this report?" We suspect that this rumor was started by the Society for the Suppression of Radio Loud Speakers. There is no doubt that the static would go direct from the aerial into the ground and not go through the set at all but unfortunately the programs would follow it and the loudspeaker wouldn't be even a soft speaker. No, there is as yet no panacea for static for both music and static are electrical vibrations and it seems as impossible to separate them as to tune that nasal tenor out of an otherwise good quartet.

Some Bouquets.

A large bindery manufacturer writes us that he has been requested by the Chicago and Northwestern Railway Co. to prepare four binders for RADEX so that that railroad may carry copies of the magazine on its crack train, the "Columbine Limited." Thus "the radio fan's own magazine" will be tuning in programs for its friends as they whiz along on the transcontinental.

"Several friends of mine were complaining about not being able to get any DX so when I was in Los Angeles a few days ago, I bought several copies of RADEX and gave my friends a thrill. They are not sore at their receivers any more." This comes from Leon V. Garland, P. O. Box 93, El Segundo, Calif.

Friends in both Great Britain and France send us lists of foreign stations from which we are consolidating what we believe to be the first real list of world broadcasting stations by frequencies ever published in this country. Except that we are eliminating stations of less than 1000 watts, we believe this to be the most complete list ever published. It would be wise to cut this list out as it will not appear regularly.

Through the cooperation of the government officials of both Cuba and Mexico, we are enabled to give our readers the official data on stations in those countries in this issue. This data is correct at time of publication, but changes are frequent in these two countries, and we cannot guarantee the information for long.

Letters from our readers regarding DX and short waves will be found this month in departments of their own.

When Things Go Wrong

(Continued from page 10)

Chicago, the charge for the general residential service is eight cents per kilowatt hour for the first three kilowatt hours per room, or 15 kilowatt hours in case of an average five-room home, six cents per kilowatt-hour for the following equal amount, and three cents per kilowatthour for all additional consumption.

Does it make any difference how much silver coating a tube has? A friend of mine says it indicates the condition of the tube, a well-silvered one being superior to one only partly silvered. Also does the silver wear off with age?

This is a question frequently asked of radio dealers and service men and I have known some customers who will not purchase a tube on which the silver is not evenly distributed. However, the amount of silvered surface does not show the condition of the tube in any way. Testing a tube with a regular tube tester is the best method of determining its quality. What looks like silver inside of the tube is really magnesium, and the purpose of its presence in the tube is to obtain a high vacuum, but the manner in which it is spread makes no difference. In the making of a tube the glass is entirely transparent before the tube is evacuated, or the air pumped out. After pumping out as much air as possible mechanically, the tube is sealed and then a small quantity of magnesium, placed in the tube before it is evacuated. is exploded by placing the tube in a radio-frequency furnace. This absorbs the remaining air which could not be removed by means of a vacuum pump and incidentally silvers the glass.

In order to make my receiver tune more sharply I installed brass shields between the r. f. stages, grounding the shields to the negative line. But the set is still just as broad as it was before. Previous to this experiment I tried all other methods of increasing the selectivity but to no appreciable effect.

To obtain the desired selectivity much can be gained by properly shielding all plate leads from the grid leads, and enclosing each stage in a separate can, instead of merely installing a shield between stages as you have done. For shielding the plate leads separately, you can obtain a specially-made, armored cable, the outside of which must be grounded to the negative line in the same way as the cans. In using this cable, care must be taken to prevent the metal covering from coming in contact with any terminals to which the lead itself is attached.

Although my set has functioned perfectly well for three years, it is now developing a peculiarity, which I hope you can explain and tell me how to cure. For a minute or so after the set has been turned on, it gradually weakens until no signal comes through. I have tried new tubes and a new aerial but with no satisfactory results. Even when the set operates at first the volume is much less than it was formerly.

Many old receivers develop trouble similar to yours, which is due to various causes. Most generally one of the chief causes is a light film of corrosion on the parts of the receiver, caused by gas and moisture in the atmosphere, fine particles of carbon and other dust being caught and retained in this film, which although invisible to the naked eye, nevertheless provides a path for electrical leakage. This leakage occurs between such parts as the plate and grid tips of the tubes and corresponding socket prongs, and between the two clips of resistor mountings and condensers. One method of cleaning is to use an old toothbrush with some alcohol. Another frequent cause of the same trouble is one or more leaky by-pass condensers, which should be tested. Often the grid leak is of too high a value and the detector gradually chokes up, with the same effects that you have experienced.

I have an inductor dynamic loudspeaker which often rattles when extremely low notes are reproduced. The receiver is said to amplify notes as low as 30 cycles per second. Is there anything wrong with the speaker or how can this trouble be remedied?

It is of quite general occurrence that dynamic speakers rattle on low notes. This is generally caused by too much current or by the lack of a good baffle. If you will first provide a large baffle and then not put quite as much current through the speaker, the trouble will most likely be overcome.

How great should the frequency range of a radio receiver be to reproduce all tones faithfully? What instruments produce tones of extreme low and high frequencies?

The human ear of the average adult individual detects sound waves having a frequency as low as 30 cycles per second and as high as 16,000 cycles per second. This range of hearing, of course, varies with age and condition of health, children usually have more acute hearing than adults. A good radio receiver should reproduce all tones that are audible. The instruments having the lowest and highest frequencies are the bass viol, which reaches down as far as 40 and the piccolo, which tops the frequency scale at 4600. Below is a list of frequencies covered by various wind instruments, string instruments and the human voice: piccolo, 510-4600; flute, 256-2304; oboe. 256-1536; clarinet, 160-1536; trumpet, 160-960; French horn, 100-780; trombone and bass clarinet, 80-480; basson, 60-480; bass horn and tuba, 48-330; kettle drums, 85-160, violin, 192-3072; viola, 128-1152; cello, 64-768; bass viol, 40-240; human voice, 84-1152.

I would like to know to what extent my electric refrigerator is causing radio interference?

If your refrigerator runs on alternating current and it is in good mechanical and electrical condition, it does not cause any interference except for a short time when the motor is starting and until it reaches its regular running speed as a centrifugal switch cuts out the starting mechanism as soon as the motor has reached its normal speed. However, an old motor with dirty, sparking brushes may cause trouble and it should be taken out by a competent motor repair man and given a thorough overhauling and cleaning. It is also a good idea to apply an external interference-elimination device. On the other hand, direct-current refrigerators are apt to cause continuous interference.

In using the oscillator described in your May issue for balancing the condensers on my receiver, I would like to know how to tell when the oscillator is tuned to about 1500 kilocycles.

To tune your oscillator to about 1500 kilocycles, turn the condenser until the plates are nearly out of mesh. It is not necessary to perform the operation at exactly 1500 kilocycles as the object in view is to get near the end of the dials as far as possible.

I have a Bremer-Tully No. 81A.C. receiver. Several times my ballast tube has burned out and had to be replaced. What is the cause of this and what can I do to prevent such frequent replacements?

Fluctuating line voltages of abnormal extent cause the ballast tube to burn out. although small fluctuations of from 5 to 10 volts are absorbed and therefore are not injurious to the tube, which is designed to serve as a voltage regulator, within limits, in order to protect the other tubes of the receiver. As a further precaution against this frequent trouble, get an automatic voltage regulator of the better kind, connecting it according to the accompanying instructions, between the wall plug and the receiver. This, in conjunction with the ballast tube will prevent unusually high voltages from burning out the latter.

What's New in 1931 Sets?

(Continued from page 2)

have been especially designed for this purpose. With the limitation of a comparatively small antenna and no ground connection, an automobile receiver must be one of unusual sensitivity. For satisfactory operation a receiver having a sensitivity range of from 21/2 to 141/2 microvolts per meter, with an average of about 7 microvolts per meter, is necessary. The reason for this is that the motorist often finds himself quite a disbroadcast station. tance from a Besides, as there is really no actual ground connection, the effective "electrical length" of the antenna is greatly reduced compared to other types of receivers using a regular aerial-andground system.

An interesting development in receiver accessories is brought to light in the remote-control devices now on the market. This method of tuning and adjusting a receiver from a distance. is quite a contrast to the need of tuning a number of dials and adjusting several controls which characterized models of a few years ago. On many 1930 receivers, a single dial is used for tuning and another control for volume, besides the switch. The remote-control devices are designed so that they can be attached to any receiver, and the control box placed within easy reach of your favorite easy chair. Any one of a certain number of stations can be tuned in and the volume adjusted as desired without even getting up or going to the receiver.

Lure of Short Waves (Continued from page 9)

writes: "There are two extra coils for the broadcast band and when these highwave coils are used, there is a little switch that couples in an extra variable condenser, permitting splendid reception on powerful stations. This set uses a 222 screen grid tube for r. f., a 200-A for detector, High Mu 240 for first audio and 171 for second audio. On short waves it operates more like a broadcast receiver than any set I have ever had. The dials are set and power control advanced until the beat-note squeal of station is heard and then the volume is reduced until squeal stops and program is heard. When beat note is on, the set does not re-radiate except on a set in the same room. Of course, on short waves it requires work and patience to locate a station as a hair-line movement will eliminate a station completely."

Joseph Stokes, 2255¹/₂ Hawthorne Street, Swissvale, Pa., has an S. M. Round-the-World Four although he does not believe it compares with the a. c. Super-Wasp. "I have recently received verifications from VK2ME, Sydney, Australia, and HRB, Teguciagalpa, Honduras. The following stations are heard regularly in the warm evenings: VRY, Georgetown, British Guiana; HKT, Bogota, Colombia; NRH, Heredia, Costa Rica; XDA, Mexico City, etc. On cool evenings I hear G5SW and GBS in England; PCJ, Eindhoven; PHI, Huizen, both in Holland; CJRX, VE9AP, VE9CL in Canada, and W6XN, Oakland, Calif. I have heard CM2MK, Cuba; EAM, Spain; FW4, Manilla; HKC, Bogota, and several unknown foreigners in the vicinity of 45-55 meters."

Dr. Rodgers points out the difficulty of getting a single receiver that will give equally good results on both broadcast and short waves. "No one should expect a set designed primarily for short waves to give equal service in reception on high waves," he says. "The most one should expect is a short-wave receiver that is reasonably well adapted for the regular broadcast band."

In the Tropics

From Melvin B. Ricks, Box 615, Compton, Calif., comes a copy of an interesting letter to him written by Edward C. Blessing, Balboa Heights, Canal Zone, relative to short-wave reception in the tropics, which we are passing on to our readers.

"I wish that I could be where I could get a station free from dots and dashes. I have been tinkering with short waves for several years but, with the harbor always full of naval and merchant vessels sending forth their messages and marring my reception, we are in a very disadvantageous location for radio. We can get only two stations with loudspeaker volume, or rather only one now -WGY. We were formerly able to get KDKA-in fact that station was our old standby-but for some reason known only to themselves, they changed their wave-length from 26 meters to 48 and that is no good here.

"Once in a great while I get PCJ, Holland, with loud-speaker volume. With head phones I can get England, Germany, Colombian Republic, KGO, Oakland, and several stations around New York City. There is no static on the short waves, but we are greatly troubled with fading. The long waves are absolutely no good here. I have some long-wave coils and, oh boy! you don't know what static is.

"With the head-phones and in the winter when it is very cold in the States, I can get a number of stations in New York, one in Miami and one that I like in Nashville, Tenn. Most sets here are locally made and battery operated. The Balboa station you mention has been discontinued for lack of interest and suitable programs. I feel sure there are no more than 100 sets in the Canal Zone; how many there are in Colon and Panama City, I cannot say. The only set I know to give fairly good results is the Pilot Super-Wasp. As our electrical division here operates on 25 cycles and 60 is used in the States, it is impossible to use any of the A and B eliminators advertised."

The Hobby of DX Recording

(Continued from page 16)

right hand, I have logged about 130 stations I never had before."

Who Has Heard It?

Frank Switalski, Jr., 2819 Victoria Avenue, Cincinnati, Ohio: "With each issue of RADEX I have looked for the listing of a station in Santo Domingo, Republica Dominica. I know that they have a station there broadcasting around 450 meters." We do not seem to have any record of this station; who can identify it?

Ray E. Everly, 102 W. Washington Street, Newton, Ills.: "I spent a lot of stamps trying to get verifications from WKBW, WGR, WMAK, WKCN, using the addresses given in RADEX. These stations are all operated by the Buffalo Broadcasting Co., Rand Building, Lafayette Square, Buffalo, N. Y. If you will make this change you will save postage for your readers. (I now have 450 on my log 48 in Canada, eight in Cuba and two in Mexico)."

Karl Halpern, 1435 Coney Island Avenue, Brooklyn, N. Y.: "JOBK, in Japan, comes over great at 5:30 a.m. EDST, with a program of classic music. I'm the first one to receive them in Brooklyn. Reception was verified. EAJ19, in Spain, verifies my reception and asks me to tell my friends to try to tune them in. They come over fine at 5 a.m. EDST, with a program of music. They use 200 watts. LKO, in Norway, can usually be heard in the morning about 5:30 EDST. They verified my reception, as has also 2XA, in New Zealand."

M. B. Murphy, Glenn Ranch, Calif.: "Have logged 344 stations on a fivetube Fada kit hook-up since December 12, 1929. Have one station each in Russia, Czechoslovakia, England and Argentina, Have logged CHWK, 5 watts, in British Columbia; WHDL, 10 watts, in Tupper Lake, N. Y.; KFPL, 15 watts, in Dublin, Texas; WLAP, Louisville, with only 30 watts and on the 1200 kc. channel with KGFJ broadcasting 24 hours a day on the same channel; CKIC, 50 watts, at Wolfville, N. S., and XEI, 101 watts, at Morelia, Mexico, Have logged 18 stations on the 1370 channel. all 100 watts or less. Have had daylight reception from WWNC at 2 p.m. PST."

Claiming 935 verifications since starting in radio three years ago, of which 197 are foreign stations, Jos. Baskys, 1610 S. Union Avenue, Chicago, lists Bombay and Calcutta, India; Helsinski, Finland; Amsterdam, Dublin; Torino and Riga as among his catch. He brought in the five-watt WQDM at St. Albans, Vermont, at 11:14 a.m. on March 17th, 1930, which is certainly some reception. He is now using a 14-tube set with loop aerial.

The Song Lady

(Continued from page 18)

It was in school a few days later that Douglas got his inspiration. The teacher was having them write letters in their English lesson. He would write to the song lady and tell her to please stop singing those sad songs. He would tell her about his father and how he cried when he listened to her.

Thoughtfully the teacher helped him make corrections and told the boy he might mail it. For who wouldn't sense tragedy and remorse in the letter Douglas had so painfully penned?

A week passed by. And then one evening, while Douglas was waiting for his father, a car drove in the yard. Timidly, the boy went to the door. A lovely lady was getting out! Now she was coming toward him, smiling and with tears in her eyes.

Suddenly he found himself crushed against her, and in wonder he heard her whisper, "Dougie, my baby!" Quickly, Douglas straightened himself. "Are you my mother?" he asked.

"Yes, dear child. I am your mother and—I've come home again! Aren't you glad?"

Douglas smiled happily as he gazed at this beautiful creature—his mother!

The car went away, and his mother followed him into the house. She wept as she went from room to room, looking about her.

Hark! a sound outside!

Quickly, and to the wonderment of the boy, the song lady stepped close to the radio. "And a little child shall lead them," came the song from her lips in silvery tones.

His mother and the song lady were the same!

Excitedly, Douglas turned to see his father enter the room. His mother's voice was trembling now. John Rollins stood very still.

"It's me, John! I've come back to stay—if you'll have me!"

"Thank God!" breathed the man as he took the song lady into his arms.

A GOOD GROUND

What the U.S. Bureau of Standards calls a good ground. Dig a hole in the ground one foot deep and one foot square, away from all buried pipes. Place in that hole five pounds of rock salt. Turn a hose on it until it dissolves. Drive an eight-foot rod or a half-inch pipe through the center of the hole. In sections where there is little natural moisture in the earth, use four of these six feet apart and all connected together.

When you have done that you have a real ground of low resistance which will help your reception.

Radiophone signals made a complete circuit around the world today in oneeighth of a second.

For approximately 30 minutes, starting at 7:05 a.m., a talk by C. D. Wagoner, of the General Electric Co., here, was sent around the earth by a series of radio relays. The received signals, after traveling approximately 25,000 miles through the ether, were rebroadcast by station WGY.

A BOOK FOR THE BEGINNER



THE science of fascinating study, and many would like to understand the theory and practice of transmission and reception. Why do the sounds made in a broadcasting studio become reproduced in your home, when no sound travels between the station's transmitter and your receiver? What does the sta-

what does the stapion do, what does your receiver do, to accomplish the result? What circuits are used? What are the different types of receivers

and their respective advantages?

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

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

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

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

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

Radio World, 145 West 45th St., New York City Enclosed find: \$2.00 for 16 weeks' subscription for Radio World (16 issues); send "Foothold on Radio" free as premium. \$3.00 for 6 months' subscription for Radio World (26 weeks); send "The Superheterodyne" free as a premium. \$6.00 for one year's subscription for Radio World (52 issues, one each week). Send "Audio Power Amplifiers" free as a premium. I am a Radio World subscriber. Extend my subscription. (Cheek if true.) Name.

City_____State_____

USING the CLIPPERS

By "Pretzelite"

on World News of Radio

One of our good correspondents who uses the above nom de plume, sends us so many clippings of miscellaneous bits about radio, that we are setting aside a page for his use. We are sure our readers will find this page most interesting.

The government of India has assumed full control over all broadcasting in the country.

A new high school in Grand Gorge, N. Y., has radio reception in all of its rooms.

The Australian Government is planning to assume control of radio broadcasting and has licensed nearly 300,000 listeners.

The ordinary radio tube has an amplification of about eight times while the screen grid may be made to amplify as high as 290.

An English-speaking radio club has been formed at Buenos Aires to encourage the broadcasting of programs in the English language.

British radio experts have succeeded in using a captive balloon as a transmitting tower with the advantage that its height can be easily changed.

* *

They've given an "M" to the fellow who has popularized the filling of steins for dear old Maine. Rudy Vallee was awarded a varsity letter at a dinner of the University of Maine Alumni Association. He went to Maine before attending Yale.

A vocational scholarship has been founded by Graham McNamee, New York radio announcer, which provides for study in a New York vocal studio and is open to American baritones under 22 years of age and coloratura sopranos under 18 years.

Boston may have a radio curfew. Councilman Robert Gardiner Wilson today proposed an ordinance forbidding the operation of a radio after 11 p.m. and before 7 a.m., if its tones are audible 50 feet from the machine. A fine of \$20 is provided.

Above the hum of motors, jazz, symphonies and lectures on gardening now come to the passenger flying to Cleveland and Chicago via the Stout Air Lines.

All the planes have been equipped with radio sets which serve both to entertain the more blase air travelers and also insure safety. Weather reports and directional beams aid the pilot in picking his course.

* * *

Chicago bus riders in the future may be able to take their setting-up exercise as they ride to work or hear their favorite bedtime story at night, if experiments being conducted by the Chicago Motor Coach company are successful.

Six double-deck busses have been equipped for three weeks with radio sets of different makes to test whether a plan for each bus to carry its own radio entertainment is feasible.

Officials announced radio reception had been clear.

Radio loudspeakers in Washington, D. C., must hereafter be tuned down so that they will not disturb neighbors else the owners are liable to go to jail.

The District of Columbia Commissioners have adopted an ordinance which carries a fine of not more than \$40, in default of which a jail sentence of not more than 364 days may be imposed.

The ordinance was adopted at the request of numerous citizens who complained that neighboring radios kept them awake at night and disturbed them at all hours.

KEY TO CHAIN STATIONS

N-National

ų,

C-Columbia

1					and the second se
CFRB 75-4	IKOL 1/2	WBRC 5 4	WEAN 45	WJJD	IWOWO
960 C	1270 C	930 C	610 C	1090 C	1180 C
CKAC	KOMO 56	WBT 104	WFBL 8 1	WJR ZZ7	WPG
730 C	920 N	1080 N	WFBL 8 7 1360 C	750 N	1100 C
CKGW	KPO 59		WFBM 113	WJZ HA	WPTF
690 N	680 N	990 N 233	1230 C	760 N	680 N
KDKA 5 U	KPRC 70	WBZA 5	WFI QS	WKBN 02	WQAM 92
980 N	920 N - 0	990 N	560 N	570 C	560 C
KDYL 1M		WCAE 15	WEITHY ALLE	WKBW	WRC
1290 C	KRLD 1040 C	1220 N	940 C 26 3	1480 C	950 N
KECA / 2	KSCJ a -	WCAH	WFJC 641	WKRC	WREC 7
1430 N 9 4	1330 C 44	1430 C	1450 N	550 C	600 C
KFAB 44	KSD 9/	WCAO MO	WFLA 7	WKY	WREN
770 N	550 N	600 C - 2-	620 N	900 N	1220 N
KFH 10	KSL 1/a	WCAU 14	WGN T2	WLAC	WRR
1300 C	1130 N	1170 C	720 N	1470 C	1280 C
KFI 68	KSTP /	WCCO 30 -	WGR 90	WLBW	WRVA
640 N	1460 N	810 C	550 N	1260 C	1110 N
KFJF 5	KTAR 72	WCFL 455	WGST 30	WLBZ	WSAI
1480 C	620 N	970 N	890 C	620 C	1330 N
KFKX	KTHS 2-	WCKY 5 2/	WGY 4/	WLIB	WSB
1020 N	1040 N	1490 N	790 N	720 N	740 N
KFPY	KTRH	1490 N WCSH 263 940 N WDAE	WHAM 12	WLIT	WSM 63
1340 C	1120 C	940 N	1150 N	560 N	650 N
KFRC 75	KTSA D		WHAS 36	WLS	WSMB
610C	1290 C	1220 C	820 N	870 N WLW 55	1320 N
KFSD 78	KVI 45	WDAF 75	WHEC 1440 C	WLW 32	1340 C
600 N	760 C	610 N	WHK	WMAK	wsun 72
KGO 4	KVOO 1140 N	WDAY 940 C	1390 C	900 C	620 N
790 N 15	KWK 82	WDBJ 27	WITO de	WMAL	WTAG
620 N-	1350 N 8 2-	930 C	1000 N 22	630 C	580 N
KHJ 2		WDBO	WHP	WMAQ	WTAM
900 C	KYW 22	1120 C	1430 C	670 C	1070 N
KHQ Q1	WABC 33 5	WDOD	WIBO	WMC	WTAR
590 N	860 C	1280 0	560 N	780 N	780 C
KLRA 75	WADC 94	WDSU 112	W1BW	WMT	WTIC
1390 C	1320 C	1250 C	580 C	600 C	1060 N
KLZ	WAIU 68	WEAF 63	WIOD	WNAC	WTMJ /
560 C	640 C	WEAF 660 N	1300 N	1230 C	620 N
KMBC 26	WAPI 53	WEAN 47	WISN	WNAX	WTOC
950 C	1140 N	1000	1120 C	570 C	1260 C
KMOX 18	WBAL	WEBC 104	W JAR	WOAI	920 N
1090 C	1060 N	1290 N	890 N	1190 N WOC	WWNC 89
KOA 830 N 365	WBAP 800 N 395	WEEI 590 N	WJAS 1290 C	1000 N	570 C
KOIL	WBBM 44	WEND 201	WJAX 20	wow	WXYZ
1250 C	770 C	870 N 222	900 N 50	590 N	1240 C
KOIN	WBCM 74	WFAA 241	WJDX	55011	12100
940 C	1410 C	800 N 272	1270 N		
3400	1 1100 7	000 1	1 10/014		

ENTER YOUR DIAL NUMBERS IN THESE SPACES

510	610	710	810	210	1010	1140	1210	1310	1410
520	620	720	3 7 5	920	1020	1120	1220	1320	1420
530	630	730	830 1 36 2	930	1030	1130	1230	1330	1430
540	640	740	840	940	1040	1140	1240	1340	640
5596	650 2	359	850	950	1050	1150	1250	1350	1450
560	660 3	760	860	960	1060	1160	1260	1360	1460
570	670	770	870 1 32 2	.970,	1070	1170	1270	1370	1470-
580	68 0	780	880-4	980	1080	1180	1280	1380	1480
590	690	790	890	2990	1090,	1190	1290	1390	1490
600	700	800	900	1000	1100	1200 3	1300	400/	1500

[27]

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 date but are subject to change daily thereafter

Daily (and S	unday)
6:45-8:00 To	wer Heal	th Exerci			
WEAF		WCAE	WFI	₩RC	WGY
WGR	CKGW				
8:15-8:30 M	orning De	Votions	wow	TUT O	WOW
WEAF	WRC WFI	WCAE WCSH	WGY	WHAS	WOW
WGR WCKY	WPTF	WIOD	WLS WAPI	WJAR WFLA	WWJ WSUN
8:30-9:00 Cl		WIOD	WALL	WFLA	WOUN
WEAF	WEEI	WCKY	WRC	WGR	WJAR
WGY	WEEI WTAG	WCSH	WCAE	WWJ	WOW
WDAF	KSTP	WAPI	KPRC	WFI	WSB
WJAX	WPIF	WOAI	CKGW	WIOD	WHAS
WFLA	WSUN	WTAM	WSM	WMC	
9:00-9:15 Q	uaker Cras				
WLW	WLS	WRC	WJR	KWK	WREN
KFAB	WTMJ	KSTP	WEBC		
9:00-9:30 So	mething f	or Every	one		
WABC	WMAL	WHP	WJAS	WHEC	WKBW
WHK	WKRC	WAIU	WKBN	WMAQ	KMOX
KOIL WMT	KMBC WWNC	WIBW WDBJ	KFH	WBCM WDOD	WSPD
WLAC	KLRA	KFJF	WBRC WPG	WBT	WREC
9:00-10:00 N			wru	WDI	
WEAF		WWJ	WOW	WHAS	WGY
WTAM	WAPI	WGR	WSM	WIBO	wur
11:15-11:45				n ibo	
WEAF	WJAR	WTAG	WCSH	WLIT	WRC
WHAS	WSM	WMC	WSB	WGR	WCAE
WWJ	WSAI	KFKX	WTAM	KSD	WOW
WTMJ	KSTP	WEBC	WAPI	WSMB	KTHS
KVOO	KPRC	WOAI	WKY	WEEI	WGY
12:00-12:30					
WABC	WEAN	WNAC	WLBZ	WFAN	WCAO
WMAL	WHP	WJAS	WLBW	WFBL	WHEC
WKBW	WAIU	WKBN	WOWO	KMBC	WISN
WIBW	WBCM	WWNC	WDBJ	WGST	WDOD
WREC	KRLD	KLRA	KFJF	KLZ	KFRC
KVI 1:30-2:00 Ha	KFPY	WPG	KOL	WDAY	WORC
WABC	WEAN	WLBZ	WFAN	WCA0	WMAL
WHP		WLBW	WHEC	WMAK	
WAIU		WBBM	KMBC	WCCO	WIBW
KFH	WBCM	WMT	WTAR	WBRC	WDOD
WREC	KLRA	KFJF	KHJ	KFPY	WDAY
1:45-2:30 Na					
WJZ		KDKA	WJR	WLW	KSTP
WEBC	WRVA	WPTF	WJAX	WHAS	WSM
WMC	WSB	KVOO	WKY	WOAI	WRC
W.HO	WOW	WDAF	KPRC	WJDX	WBAL
WSMB	WIOD	KWK	WREN	KOA	WBZ
WFAA	KFAB	WAPI WBZA	KTHS	WFLA	WSUN
KFKX	WOC _	WBZA			
3:00-3:30 Co			WOAR	FOLO	WAAL
WABC		WNAC	WCAU	WCAO	WMAL
WHP WFBM	WMAK KOIL	WADC WISN	W KRC WIBW	WAIU WGL	WKBN KFH
WBCM		WMT	WWNC	WTAR	WDBJ
WBRC		WREC	WLAC	KLRA	KFJF
KLZ	KFRC	KVI	KFPY	WPG	WDAY
WORC	WBT				
3:30-4:00 Co		lucationa	l Feature	es	
WABC	WEAN	WNAC	WCAU	WCAO	WMAL
WHP	WMAK	WKRC	WKBN	WFBM	WMAQ
кмвс	WISN	WCCO	WIBW	KFH	WBCM

•	
WSPD WMT WWI	NC WTAR WDBJ WDOD
WREC WLAC KLR	
KVI KFPY WPG	
5:00-5:45 Dancing by the S	ea
WABC WEAN WCA	O WMAL WHP WJAS
WKBW WADC WKF	C WAIU KOIL KMBC
WISN WBCM WSP	
WDBJ WGST WDC	
KLRA KFJF KLZ	KDYL KHJ KVI
KFPY KOL WDA	
6:05-6:45 Black and Gold R	
WEAF WCAE WCS	
WGY WGR WOC	WHO
6:45-7:00 Uncle Abe and Da	avid
WEAF WEEI WJA	
WCAE WTAG	it wobit with with
7:00-7:15 Amos 'n' Andy	
WJZ WBZ WBZ	
CKGW WRVA WPT	F WJAX WIOD WCKY
WFLA WSUN WBA	L
7:00-7:15 The Crockett Mor	nteineer
WABC WLBZ WCA WLBW WHEC WKF	
WMAQ KMBC WISI	N WCCO WIBW KFH
WBCM WMT WWI	
WREC KLRA KFJI	
WREC KLRA KFJI KFPY KOL WDA	
KFPY KOL WDA	Y WORC WBT WKBN
KFPY KOL WDA 7:30-7:45 Phil Cook - Oua	Y WORC WBT WKBN ker Man
KFPY KOL WDA 7:30-7:45 Phil Cook – Qua WJZ WBZ WBZ	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD
KFPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WBZ WKY WRVA WPT	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM
KFPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB
KFFY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB
KFPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD WFAA
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC 11:15-11:30 Uncle Abe and	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IK KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD WFAA David
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC 11:15-11:30 Uncle Abe and WWJ WSAI WTA	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WEAL WHAM WKWK WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD WFAA David M WENR KSD WDAF
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC 11:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD C WFAA David M WENR KSD WDAF WSMB WSMB WJDX
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRG 11:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD C WFAA David M WENR KSD WDAF WSMB WSMB WJDX
KPPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC 11:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFAS 11:30-11:45 Amos'n' Andy	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM F WJAX WBAL WHAM R KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD WFAA David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ
KPPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC I1:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD David M WENR KSD WDAF WSB WSMB WJDX C WOW WMC WTMJ
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC 11:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WEAL WHAM IR KWK WEEN KYAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD J WFAA David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ IN WTMJ KSTP WEBC C WOAL WJR KOA
KPPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC I1:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WEAL WHAM IR KWK WEEN KYAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD J WFAA David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ IN WTMJ KSTP WEBC C WOAL WJR KOA
KPPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRO HI:50-11:35 Uncle Abe and WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Moss '' Andy KYW KWK WRE KFSD WKY KPR KSL WDAF WBA	Y WORC WET WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFAD David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ CN WTMJ KSTP WEBC C WOAI WJR KOA P WMAQ KECA KTHS
KPPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRG U1:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSL WDAF WIBA KGO KOMO KHQ	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD WFAA David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ CN WTMJ KSTP WEBC C WOAI WJR KOA P WMAQ KECA KTHS KGW WHAS WSM
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WKY WRVA WPT KDKA WHAS WPT KDKA WHAS WPT WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRO 11:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSL WDAF WIA KGO KOMO KHQ WMC WLW WSB	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD WFAA David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ IN WTMJ KSTP WEBC C WOAI WJR KOA P WMAQ KECA KTHS I KGW WHAS WSM
KPPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRG I1:5-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSL WDAF WBA KSL WDAF WBA KGO KOMO KHQ WMC WLW WSB 11:45-12:00 Literary Digest	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFAD David M WENR KSD WDAF WSB WSMB WJDX C WOWI WMC WTMJ CN WTMJ KSTP WEBC C WOAI WJR KOA P WMAQ KECA KTHS S KGW WHAS WSM WSMB KFAB WJDX Topics — Floyd Gibbons
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WKY WRVA WPT KDKA WHAS WPT KDKA WHAS WPT WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRO 11:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSL WDAF WIA KGO KOMO KHQ WMC WLW WSB	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFAD David M WENR KSD WDAF WSB WSMB WJDX C WOW WMC WTMJ CN WTMJ KSTP WEBC C WOAI WJR KOA LP WMAQ KECA KTHS S KGW WHAS WSM WSMB KFAB WJDX Topics — Floyd Gibbons
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC II:15-11:30 Uncle Abe and WEJ WSAI WTA WED WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSL WDAF WBA KGO KOMO KHQ WMC WLW WSB 11:45-12:00 Literary Digest WJR KWK WLU	Y WORC WET WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ C WOM WMC KTAB WSMB KFAB WJDX Topics — Floyd Gibbons V WENR WREN KFAB
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC II:15-11:30 Uncle Abe and WEJ WSAI WTA WED WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSL WDAF WBA KGO KOMO KHQ WMC WLW WSB 11:45-12:00 Literary Digest WJR KWK WLU	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFAD David M WENR KSD WDAF WSB WSMB WJDX C WOWI WMC WTMJ CN WTMJ KSTP WEBC C WOAI WJR KOA P WMAQ KECA KTHS S KGW WHAS WSM WSMB KFAB WJDX Topics — Floyd Gibbons
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC H:15-11:30 Uncle Abe and WEJ WSAI WTA WED WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSD WKY KPR KSD WKY KPR KSD WKY KPR KSD WKY WJE KYW KWK WIE WJR KWK WIE	Y WORC WET WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ CN WTMJ KSTP WEBC C WOAI WJR KOA P WMAQ KECA KTHS 9 KGW WHAS WSM Y WAN KFAB WSMB KFAB WJDX Topics - Floyd Gibbons 7 WENR WREN KFAB
KPPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC I1:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSAI WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSL WDAF WHA KSD WKY KPR KSL WDAF WHA KGO KOMO KHQ WMC WLW WSB 11:45-12:00 Literary Digest WJR KWK WLW	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD David M WENR KSD WDAF WSB WSMB WJDX C WOW WMC WTMJ CN WTMJ KSTP WEBC C WOAI WJR KOA P WMAQ KECA KTHS P KGW WHAS WSM WSMB KFAB WJDX Topics - Floyd Gibbons / WENR WREN KFAB Mday es- Spirituals
KPPY KOL WDA 7:30-7:45 Phil Cook Qua WJZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC 11:15-11:30 Uncle Abe and WJDX WOAI KTH WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSL WDAF WBA KGO KOMO KHQ WMC WLW WSB 11:45-12:00 Literary Digest WJR KWK WLW SCU 11:00-11:30 Southland Sketch WJZ WBAL KFA	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WERN KPAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD WFAA Darid M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ C WOW WMC WTMJ C WOW WMC WTMJ C WOM WJR KOA P WMAQ KECA KTHS C WOAI WJR KOA P WMAQ KECA KTHS S KGW WHAS WSM WSMB KFAB WJDX Topics — Floyd Gibbons V WENR WREN KFAB MCAQY es — Spirituals B KDKA WLW KWK
KPPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC II:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSD WKY KPR KSD WKY KPR KSD WKY KWR KSD WKY KWR KSD WKY KWR KSD WKY KWR SUP 11:45-12:00 Literary Digest WJR KWK WLW SUP 1:00-1:30 Southland Sketch WJZ WBAL KFA	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFAD David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ C WOW WMC KTMS C WOW WMC KTMS C WOW WMC KTMS C WOW WAS WSM KFAB WSMB KFAB WJDX Topics - Floyd Gibbons / WENR WREN KFAB MCAY es - Spirituals B KDKA WLW KWK
KPPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC 11:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KSD WKY KPR KSL WDAF WBA KGO KOMO KHQ WMC WLW WSB 11:45-12:90 Literary Digest WJR KWK WLW SUI 1:00-11:30 Southland Sketch WJZ WBAL KFA KOA KSL CKA	Y WORC WBT WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFSD WFAA David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ IN WTMJ KSTP WSB WSMB WJDX C WOAI WJR KOA C WOAI WJR KOA C WOAI WJR KOA P WMAQ KECA KTHS KGW WHAS WSMB KFAB WJDX Topics - Floyd Gibbons V WENR WREN KFAB MCD2 MCD2 S Spirituals B KDKA WLW KWK
KPPY KOL WDA 7:30-7:45 Phil Cook — Qua WJZ WBZ WBZ WKY WRVA WPT KDKA WHAS WEN WTMJ KSTP WSB WJDX WOAI KTH KGO KECA KGW KTAR KPRC WRC II:15-11:30 Uncle Abe and WWJ WSAI WTA WEBC WHAS WSM WHO WOC WFJ 11:30-11:45 Amos 'n' Andy KYW KWK WRE KFSD WKY KPR KSD WKY KPR KSD WKY KPR KSD WKY KWR KSD WKY KWR KSD WKY KWR KSD WKY KWR SUP 11:45-12:00 Literary Digest WJR KWK WLW SUP 1:00-1:30 Southland Sketch WJZ WBAL KFA	Y WORC WET WKBN ker Man A WFLA WSUN WIOD F WJAX WBAL WHAM IR KWK WREN KFAB WSM WEBC WSMB S KVOO KOA KSL KOMO KHQ KFAD David M WENR KSD WDAF I WSB WSMB WJDX C WOW WMC WTMJ C WOW WAC KTMS P WMAQ KECA KTMS P WMAW WWHAM W WHAM W WRC KSL WHAS

2:00-3:00 Re	DXV SVMD	hony Con	icert		
WJZ		WBZA	WBAL	KDKA	KYW
WRC	WFAA	WEBC	KFAB	CKGW	WHAS
WREN	KSTP	KWK	WTMJ	WSB	WRVA
WJAX	WHAM	WFLA	WSUN	WLW	WPTF
2:30-3:00 NI	BC Artists	Service	Program		
WEAF	WTAG	WOW	KSĎ	WWJ	WGY
WDAF	WOC	WHO	WGR	WIBO	

2:30-3:00 B		ır			
WABC WHP	WEAN	WLBZ WKBW	WCAU WHK	WCAO WKRC	WMAL WAIU WISN WWNC
W K B N	WHEC WMAQ WIBW	кмох	KOIL	KMBC	WISN
WCCO WDBJ	WIBW	WBCM WDOD	KOIL WSPD WREC	WMT	WWNC
KDYL	WBRC KVI	W DOD KFPY	WPG	KLRA WDAY	KLZ WORC
3:00-3:30 Pa	wEAN	has said	His Orch	estra	
WABC WMAL	WEAN	W N AT 2	WLBZ WKBW	WCAU WADC KMBC	WCAO WKBN WISN
WFBM	WHP WMAQ	кмох		KMBC	WISN
WCCO	WBCM	WMT	WWNC KFJF	WDBJ	WBRC
WDOD KFRC	WBCM WLAC KVI	WMT KLRA KFPY	KFJF WPG	KLZ WDAY	KDYL WORC
3:00-4:00 T	he Friend	ly Hour			
WJZ	WBAL	KDKA	WJR	WLW	KWK
WREN KVOO KTHS	KFAB WFAA	WRVA WOAI	WJAX KSL	WIOD WFLA	WJDX WSUN
KTHS	WFAA WSB	WLS	WBZ	WBZA	KGW
KFSD 3:30-4:00 Co	KGO onclave of	Nations			
WABC WMAL	WEAN WHP	Nations WNAC WJAS WISN	WLBZ WKBW WCCO	WCAU	WCAO
WMAL WKBN	WHP KMBC	WJAS	WKBW	WCAU WADC WIBW	WCAO WKRC WBCM
WMT	WWNC	WDBJ	WBRC	WDOD	WLAC
KLRA	KLZ	KDYL	KFRC	KVI	WLAC KFPY
WPG 4:00-5:00 N WEAF	WDAY ational Si	WORC	WBT		
WEAF	WEEI	WJAR	WTAG	WCSH	WGR
KOA WRC	WIOD		WRVA	W KY WJDX	WOAI
FVOO	WSAI KPRC	WJAX WEBC WFLA	WHAS WFJC WHO	WDAF	KHQ
wwi	WSUN	WFLA	WHO	WSB	WFAA KHQ WIBO
WOC WCAE	KPÓ CKGW	KGO	KGW	комо	WMC
4:00-5:00 Ca	thedral I	lour			
WABC WHP	WEAN	WNAC	WLBZ	WCAU	WCAO WHK
WKRC KOIL	WJAS WAIU KMBC	WLBW WKBN WISN	WKBW WOWO WCCO WWNC	WADC WFBM WIBW	KMOX
KOIL WBCM	KMBC WSPD	WISN WMT	WCCO	WIBW WDBJ	KFH WGST
WBRC	WOLD	W M 1	WWINC		
WDRU	W DOD	WREC	WLAC	KRLD	KLRA
KFJF	WDOD KLZ	WREC KDYL	WLAC KHJ	KRLD KVI	KL RA KFPY
KFJF WDAY 4:30-5:00 Do	WORC	WBT	WLAC KHJ	KVI	KLRA KFPY
KFJF WDAY 4:30-5:00 Do	WORC on Carlos WBAL	WBT	WLAC	KVI	KLRA KFPY WBZ
KFJF WDAY 4:30-5:00 Do WJZ WBZA 5:00-6:00 Sa	WORC on Carlos WBAL WHAM	WBT and Mar KFAB	WLAC KHJ imba Bar	KVI nd	KFPY
KFJF WDAY 4:30-5:00 Do WJZ WBZA 5:00-6:00 Sa	WORC on Carlos WBAL WHAM bbath Re WBZ	WBT and Mar KFAB veries WBZA	WLAC KHJ imba Bar WJR WBAL	KVI d WLW WHAM	KFPY WBZ WLW
KFJF WDAY 4:30-5:00 Da WJZ WBZA 5:00-6:00 Sa WJZ KWK	WORC on Carlos WBAL WHAM bbath Re WBZ WREN	WBT and Mar KFAB veries WBZA KFAB	WLAC KHJ imba Bar WJR WBAL KSTP	KVI d WLW WHAM WEBC	KFPY WBZ WLW
KFJF WDAY 4:30-5:00 Do WJZ WBZA 5:00-6:00 Sa WJZ KWK WIOD KPRC	WORC on Carlos WBAL WHAM bbath Re WBZ WREN	WBT and Mar KFAB WBZA KFAB KOMO WSUN	WLAC KHJ imba Bar WJR WBAL KSTP WJDX WSB	KVI d WLW WHAM WEBC	KFPY WBZ WLW
KFJF WDAY 4:30-5:00 Da WJZ WBZA 5:00-6:00 SA WJZ KWZ WIOD KPRC KGO	WORC on Carlos WBAL WHAM bbath Re WBZ WREN WMC WFLA KGW	WBT and Mar KFAB WBZA KFAB KOMO WSUN KHQ	WLAC KHJ imba Bar WJR WBAL KSTP	KVI d WLW WHAM	KFPY WBZ
KFJF WDAY 4:30-5:00 Do WJZ WBZA 5:00-6:00 Sa WJZ KWK WIOD KPRC KGO 5:30-6:00 Te WEAF	WORC on Carlos WBAL WHAM bbath Re WBZ WREN WMC WFLA KGW a Time T	WBT and Mar KFAB WBZA KFAB KOMO WSUN KHQ	WLAC KHJ imba Bai WJR WBAL KSTP WJDX WSB KDKA	KVI d WLW WHAM WEBC	KFPY WBZ WLW
KFJF WDAY 4:30-5:00 Do WJZ WBZA 5:00-6:00 Sa WJZ KWK WIOD KPRC KGO 5:30-6:00 Te WEAF CKGW	WORC on Carlos WBAL WHAM bbath Re WBZ WREN WMC WFLA KGW va Time T WEEI WWJ	WBT and Mar KFAB WBZA KFAB KOMO WSUN KHQ unes WTAG WDAF	WLAC KHJ imba Bar WJR WBAL KSTP WJDX WSB	KVI WLW WHAM WEBC WOAI KOA WRC	KFPY WBZ WLW WJAX KVOO KTAR
KFJF WDAY 4:30-5:00 Dx WJZ WBZA 5:00-6:00 Sa WJZ KWK W10D KPRC KGO 5:30-6:00 Te WGC 5:30-6:00 Te CKGW 6:00-6:30 So WJZ	WORC on Carlos WBAL WHAM bbath Re WBZ WREN WREN WFLA KGW ta Time T WEEI WWJ ngs at Ev WBAL	WBT and Mar KFAB WBZA KFAB KOMO WSUN KHQ UNES WTAG WDAF rentide	WLAC KHJ imba Bar WJR WBAL KSTP WJDX WSB KDKA WFI WHO WJR	KVI d WLW WHAM WEBC WOAI KOA WRC WGR WOC KDKA	KFPY WBZ WLW WJAX KVOO KTAR WCAE
KFJF WDAY 4:30-5:00 Do WJZ WBZA 5:00-6:00 Zs WJZ KWK WIOD 5:30-6:00 Ts WEAF CKGW 6:00-6:30 So WJZ WBZA	WORC on Carloss WBAL WHAM bbath Re WBZ WREN WFLA KGW WFLA KGW WFLA KGW WFLA KGW WFLA WEEI WWJ ngs at Ev WBAL WHAM	WBT and Mar KFAB weries WBZA KFAB KOMO WSUN KHQ unes WTAG WDAF rentide KFAB KFAB	WLAC KHJ imba Bar WJR WBAL KSTP WJDX WSB KDKA WFI WHO	KVI WLW WHAM WEBC WOAI KOA WRC WGR WOC	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW
KFJF WDAY 4:30-5:00 Dd WJZ WJZ WJZ KWK KWZ KWK WIOD KPRC KGO 5:30-6:00 Te CKGW 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca 6:00-7:00 Ca WEAF	WORC m Carlos WBAL WHAM bbath Re WBZ WHAM WMC WFLA KGW WMC WEEI WWJ mgs at Ev WBAL WHAM tholic Ho WEEI	WBT and Mar KFAB WBZA KFAB KOMO WSUN KHQ WDAF entide KFAB KWK wJAR	WLAC KHJ imba Bai WJR WBAL KSTP WJDX WSB KDKA WFI WHO WJR WREN WTAG	KVI WLW WHAM WEBC WOAI KOA WRC WGR WOC KDKA CKGW	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW WBZ
KFJF WDAY 4:30-5:00 Da WJZ WJZ KWZ WJZ KWK WIOD 5:30-6:00 Te WEAF CKGW 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca WEAF	WORC on Carlos WBAL WBA WBZ WBZ WBZ WBZ WBL WFLA KGW a Time T WEEI WWJ ngs at Ev WBAL WBAL WHAM tholie Ho WEI WWI	WBT and Mar KFAB WBZA KFAB KFAB KOMO WBUN KHAG WDAF rentide KFAB KWK WJAR WEBC	WLAC KHJ imba Bai WJR WBAL KSTP WJDX WSDX WJDX WFI WHO WJR WTAG WTAG	KVI wLw WHAM WEBC WOAI KOA WRC WGR WOC KDKA CKGW WCSH	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW WBZ WRC WRC
KFJF WDAY 4:30-5:00 Da WJZ WJZ KWZ WJZ KWK WIOD 5:30-6:00 Te WEAF CKGW 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca WEAF	WORC on Carlos WBAL WBA WBZ WBZ WBZ WBZ WBL WFLA KGW a Time T WEEI WWJ ngs at Ev WBAL WBAL WHAM tholie Ho WEI WWI	WBT and Mar KFAB WBZA KFAB KOMO WSUN WSUN WTAG WDAF rentide KFAB KWK WJAR WEBC KPO WSAI	WLAC KHJ imba Bar WJR WBAL KSTP WJDX WSB KDKA WFI WHO WJR WREN WTAG WIOD KSTP	KVI wLw WHAM WEBC WOAI KOA WRC WGR WOC KDKA CKGW WCSH	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW WBZ WRC WRC
KFJF WDAY 4:30-5:00 Dc WJZ WJZ KWZ KOO 5:00-6:00 Sa KWK WIOD KPRC KGO 5:30-6:00 Tc WEAF CKGW 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca WEAF G:00-7:00 Ca WEAF G:00-7:00 Ca WEAF G:00-7:00 Ca	WORC on Carlos WBAL WHAM bbath Re WBZ WREN WMC WFLA KGW WFLA KGW WEEI WHJ WBAL WHAM tholie HO WEEI WWJ WHAM WHO WEEI WHJ WHAM WHO WHAN WHAN WHAN WEEN WEA WEEN WHAN WEEN WE	WBT and Mar KFAB WBZA KFAB KOMO WSUN KHQ WTAG WTAG WTAG KFAB KFAB KWK WUDAF WJAR WEBC KPO WSAI WFJC	WLAC KHJ imba Bar WJR WBAL KSTP WJDX WSB KDKA WFI WHO WJR WFI WHO KSTP WGR	KVI wLw WHAM WEBC WOAI KOA WRC WGR WCC KDKA CKGW WSM KHQ KECA	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW WBZ WRC WKY KOMO KTAR WDAF
KFJF WDAY 4:30-5:00 Dd WJZ WJZ WJZ KWK KWK WOZ KWK KWK KOK KFRC KGO 5:30-6:00 Te CKGW 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca WBZA 6:00-7:00 CA WGY WJDX KGW WJDX KGW	WORC on Carlos WBAL WHAM bbath Re WBZ WREN WMC WFLA KGW WFLA KGW WEEI WHJ WBAL WHAM tholie HO WEEI WWJ WHAM WHO WEEI WHJ WHAM WHO WHAN WHAN WHAN WEEN WEA WEEN WHAN WEEN WE	WBT and Mar KFAB WBZA KFAB KOMO WBUN KHQ WDAG WDAG WTAG WTAG WTAG WTAG WJAR WEBC KFAB KWK WJAR WEBC WSAI WFJA	WLAC KHJ imba Bar WJR WBAL KSTP WJDX WSB KDKA WHO WHO WJR WHO WJR WHO WTAG WIOD KSTP WOC WSUN	KVI wHAM WHAM WEBC WOAI KOA WRC WGR WOC KDKA CKGW WCSH WSM KECA WHAS	KFPY WBZ WLW WJAX KYOR KTAR WCAE WOW WBZ WRC WKY KOMO KTAR WDAF
KFJF WDAY 4:30-5:00 Do WJZ WBZA 5:00-6:00 Sa WJZ KWK WIOD 5:30-6:00 Te WEAF CKGW 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca WEAF 6:00-7:00 Ca WGY WJDX KGW WCAE WTMJ WSB	WORC on Carlos w Carlos WBAL WHAM bbath Re WBZ WREN WREN WHA WWJ WEEI WWJ WEAL WHAM tholic Ho WEEI WWJ KGO WOW KYW WJAX WBAP	WBT and Mar KFAB WBZA KFAB KOMO WSUN KHQ Unnes WTAG WDAF KFAB KWK Un WJAR WEBC WFLA KPO WSAI WFLA KPRC	WLAC KHJ imba Bar WJR WBAL KSTP WJDX WSB KDKA WFI WHO WJR WFI WHO KSTP WGR	KVI wLw WHAM WEBC WOAI KOA WRC WGR WCC KDKA CKGW WSM KHQ KECA	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW WBZ WRC WKY KOMO KTAR WDAF
KFJF WDAY 4:30-5:00 Do WJZ WBZA 5:00-6:00 Sa KWK WIOD S:30-6:00 Te WEAF CKGW WJZ WJZ WBZA 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca WEAF WGY WJDX KGW WCAE WTMJ WSB WTMJ WSB	WORC Son Carlos WBAL WHAM WBAL WBZ WREN WMC WFLA KGW WFLA KGW WWJ MWJ WWJ WHAM WHAM WHAM WHAM WHAW WHAW WHAW WHAY WHAM WHAM	WBT and Mar KFAB WBZA KFAB KOMO WSUN KHQ Unes WTAG WDAF rentide KFAB KWK WDAR WEDC KPO WSAI WFJC WFLC KPRC	WLAC KHJ imba Bai WJR WBAL KSTP WJDX WSDX WFI WHO WJR WFI WHO WJR WTAG WTAG WOC WSOR WOC WSON	KVI WLW WHAM WEBC WOAI KOA WRC WGR WOC KGW WSM KHQ KECA WHOSH WHAS KOA	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW WBZ WRC WMZ KOMO KTAR WDAF WMC WPI
KFJF WDAY WJZ WJZ WJZ WJZ KJZ KJZ KWK WJZ KGV 5:30-6:00 Te WEAF CKGW 6:00-6:30 SO WJZ WBZA 6:00-7:00 Ca WEAF WJDX KGW WZA KGW WCAE WTMJ WSB WRVA 6:30-7:00 Th KABC	WORC Son Carlos WBAL WHAM WBAL WBZ WREN WMC WFLA KGW WFLA KGW WWJ MWJ WWJ WHAM WHAM WHAM WHAM WHAW WHAW WHAW WHAY WHAM WHAM	WBT and Mar KFAB WBZA KFAB KOMO WSUN KHQ WTAG WTAG KHA WTAG KFAB KWK WJAR WEBC KFAB KFAB KFA KPC Crotter	WLAC KHJ imba Bar WJR WBAL KSTP WJDX WSB KDKA WFI WHO WJR WHO WJR WHO WTAG WIOD KSTP WGR WGR WOAI	KVI WLW WHAM WEBC WOAI KOA WRC WGR WOC KDKA CKGW WCSH WHAS KECA WHAS KOA	KFPY WBZ WLW WJAX KVOA KTAR WCAE WOW WBZ WRC WKY KOMO KTAR WDAF WMC WMC WMA
KFJF WDAY WJZ WJZ WJZ KWZ KWZ KWZ KWD KPRC KG0 6:00-6:00 Te WEAF CKGW WJD WJZ 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca WGAY WJDX KGW WCAE WTMJ WSB WRVA 6:30-7:00 Th WABC WHP WHK	WORC on Carlos wn Carlos WBAL WHAM bbath Re WBZ WREN WREN WREQ WFLA WWJ ngs at Ey WBAL WHAM tholic Ho WEEI WWJ KGO WOW WWJ KGO WOY WAA WHAM WHAM Carlos WBAL WHAM WEA WBAL WHAM WEA Carlos Ca	WBT and Mar KFAB WBZA KFAB KOMO WSUN KHQ WTAG WTAG KHA WTAG KFAB KWK WJAR WEBC KFAB KFAB KFA KPC Crotter	WLAC KHJ imba Bar WJR WBAL KSTP WJDX WSB KDKA WFI WHO WJR WHO WJR WHO WTAG WIOD KSTP WGR WGR WOAI	KVI WLW WHAM WEBC WOAI KOA WRC WGR WOC KDKA CKGW WCSH WHAS KECA WHAS KOA	KFPY WBZ WLW WJAX KVOA KTAR WCAE WOW WBZ WRC WKY KOMO KTAR WDAF WMC WMC WMA
KFJF WDAY WJZ WJZ WJZ KWK WJC KWZ KWK WIOD S:30-6:00 Te WEAF CKGW WJZ WJC KGV WEAF G:00-6:30 So WJZ WBZA 6:00-7:00 Ca WEAF GW WJDX KGW WCAE WTMJ WSB WRVA 6:30-7:00 Th WABC	WORC which we have a set of the s	WBT and Mark KFAB WBZA KFAB KOMO WSUN WHAG WDAG WDAG WDAG WTAG WTAG WTAG WTAG WTAG WTAG WTAG KFAB KWK WFIA KWFC C Trotter WNAW WAIU KMBC	WLAC KHJ imba Bai WJR WBAL KSTP WJDX WSDX WJR WHO WJR WHO WJR WTAG WJOD KSTP WOC WSUN WUAI WLBZ WHEC WKEN WISN	KVI WLW WHAM WEBC WOAI KOA WRC WGR WOC KDKA CKGW WSM KHQ KHQ KHQ KHQ KHQ WHO WHAS KOA WCAU WKBW WFBM WCCO WDBJ	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW WBZ WRC WKY KOMO WFI WMAL WMAL WMAL WMAL WMAL WMAL WMAL WMAL
KFJF WDAY WJZ WJZ WJZ KWK WJC KWZ KWK WIOD S:30-6:00 Te WEAF CKGW WJZ WJC KGV WEAF G:00-6:30 So WJZ WBZA 6:00-7:00 Ca WEAF GW WJDX KGW WCAE WTMJ WSB WRVA 6:30-7:00 Th WABC	WORC which we have a set of the s	WBT and Mark KFAB WBZA KFAB KOMO WSUN WHAG WDAG WDAG WDAG WTAG WTAG WTAG WTAG WTAG WTAG WTAG KFAB KWK WFIA KWFC C Trotter WNAW WAIU KMBC	WLAC KHJ imba Bai WJR WBAL KSTP WJDX WSB KDKA WJDX WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WHO WHO WJR WHO WHO WHO WHO WHO WHO WHO WHO WHO WHO	KVI WLW WHAM WEBC WOAI KOA WRC WGR WOC KDKA CKGW WSM KHQ KCAU WHO WHAS KOA WCAU WKBW WFBM WCAU	KFPY WBZ WLW WJAX KVOX KTAR WCAE WOW WBZ WRC WKY KOMO KTAR WDAF WMC WMC WMC WMAL WMAL WMAL WIBW WIBW WIBW WIBK KFJF
KFJF WDAY WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ KGW S:30-6:00 Te WEAF CKGW 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca WBZA 6:00-7:00 Ca WJZ WJDX KGW WCAE WTMJ WSB WRVA 6:30-7:00 Th WABC WHP WHK KMOX KFH WBRC KLZ	WORC on Carlos on Carlos WBAL WHAM bbath Re WBZ WREN WREN WHAM WHAM WHAM WHAM WHAM WHAM WHAM WHAM	WBT and Mar KFAB WBZA KFAB WBZA KOMO WSUN KHQ WDAF WDAF WDAF WDAF WDAF WDAF WJAR WEBC KFAB KWK WJAR WFLC WFJC WFJC WFLA KPRC WLBW WAIU KMBC KMBC KMBC KMBC WAT	WLAC KHJ imba Bai WJR WBAL KSTP WJDX WSB KDKA WJDX WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WHO WHO WJR WHO WHO WHO WHO WHO WHO WHO WHO WHO WHO	KVI WLW WHAM WEBC WOAI KOA WRC WGR WOC KDKA CKGW WCSH WSM KHO KHO KHO KHO WCAU WCAU WCAU	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW WBZ WRC WKY KOMO WFI WMAL WMAL WMAL WMAL WMAL WMAL WMAL WMAL
KFJF WDAY WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ KGW S:30-6:00 Te WEAF CKGW 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca WBZA 6:00-7:00 Ca WJZ WJDX KGW WCAE WTMJ WSB WRVA 6:30-7:00 Th WABC WHP WHK KMOX KFH WBRC KLZ	WORC on Carlos on Carlos WBAL WHAM bbath Re WBZ WREN WREN WHAM WHAM WHAM WHAM WHAM WHAM WHAM WHAM	WBT and Mar KFAB WBZA KFAB WBZA KOMO WSUN KHQ WDAF WDAF WDAF WDAF WDAF WDAF WJAR WEBC KFAB KWK WJAR WFLC WFJC WFJC WFLA KPRC WLBW WAIU KMBC KMBC KMBC KMBC WAT	WLAC KHJ imba Bai WJR WJR WJR WJR WHO WJR WHO WJR WHO WJR WTAG WIOD KSTP WOC WSOC WSOL WOAI WLBZ WHEZ WKBN WHC KKRD KKRD KKRD KKRD	KVI WLW WHAM WEBC WOAI KOA WRC WGR WCC KGW WCSH WCSH WCAU WCAU WCAU WCAU WCAU WCAU KECA KUAU KECA KUAU KECAU KCAU KCAU	KFPY WBZ WLW WJAX KYOR KTAR WCAE WOW WBZ WRC WKZ WRC WKZ WRC WRC WRC WFI WMAL WMAL WMAL WMAL WMAL WJBW WGST KFJF KFPY
KFJF WDAY WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ KGW S:30-6:00 Te WEAF CKGW 6:00-6:30 So WJZ WBZA 6:00-7:00 Ca WBZA 6:00-7:00 Ca WJZ WJDX KGW WCAE WTMJ WSB WRVA 6:30-7:00 Th WABC WHP WHK KMOX KFH WBRC KLZ	WORC on Carlos wn Carlos WBAL WHAM bbath Re WBZ WREN WREM WREM WWFLA WWFLA WWJ MGG WEEI WWJ KGO WOW WWJ KGO WOY WWJA WWJA KGO WOY WWJA KGO WOY WJAS WEAN WJAS WEAN WJAS WAN WJAS WCAN WODD KDYL WDAY Stery Ho WEEN WEEN WEAN WEAN WODD	WBT and Mar KFAB WBZA KFAB WBZA KOMO WSUN KHQ WDAF WDAF WDAF WDAF WDAF WDAF WJAR WEBC KFAB KWK WJAR WFLC WFJC WFJC WFLA KPRC WLBW WAIU KMBC KMBC KMBC KMBC WAT	WLAC KHJ imba Bai WJR WJR WJR WJR WHO WJR WHO WJR WHO WJR WTAG WIOD KSTP WOC WSOC WSOL WOAI WLBZ WHEZ WKBN WHC KKRD KKRD KKRD KKRD	KVI WLW WHAM WEBC WOAI KOA WRC WGR WCC KGW WCSH WCSH WCAU WCAU WCAU WCAU WCAU WCAU KECA KUAU KECA KUAU KECAU KCAU KCAU	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW WBZ WRC WKY KOMO KTAR WDAF WMAL WADC WMAL WMAL WMAL WMAL KFJF KFPY WRC
KFJF WDAY 4:30-5:00 Do WJZ WJZ KWK WJC KWZ KWK WIOD 5:30-6:00 Te WEAF CKGW WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ G:00-7:30 Th WABC WTMJ WSB WTMJ WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WTMJ WTMJ WTMJ WTMJ WTMJ WTMJ WTMJ	WORC on Carlos w Carlos W BAL W HAM bbath Re WBZ W REN W FLA W FLA W WFLA W WFLA W WFLA W WFLA W WJ W MAL W HAM W HAM W HAM W HAM W MO W WJ KGO W WJA W WJ W WJ WJ W WJ WJ WJ WJ WJ WJ WJ WJ WJ WJ	WBT and Mar KFAB WBZA KFAB KOMO WSUN KFAB WSUN KFAB WTAG WDAF entide KFAB KWK WTAG WDAF WTAG WDAF WTAG WFJC WFJC WFJC WFJC WAU WMAU KMBC WMAU WMAU WMAU WMAU WMAU WMAU WAU WAU	WLAC KHJ imba Bai WJR WBAL KSTP KDKA WJDX WSB KDKA WJDX WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WJR WHO WHO WJR WHO WHO WHO WHO WHO WHO WHO WHO WHO WHO	KVI WLW WHAM WEBC WOAI KOA WRC WGR WCC KGW WCSH WCSH WCAU WCAU WCAU WCAU WCAU WCAU KECA KUAU KECA KUAU KECAU KCAU KCAU	KFPY WBZ WLW WJAX KYOR KTAR WCAE WOW WBZ WRC WKZ WRC WKZ WRC WRC WRC WFI WMAL WMAL WMAL WMAL WMAL WJBW WGST KFJF KFPY
KFJF WDAY 4:30-5:00 Do WJZ WJZ KWK WJC KWZ KWK WIOD 5:30-6:00 Te WEAF CKGW WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ G:00-7:30 Th WABC WTMJ WSB WTMJ WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WSB WTMJ WTMJ WTMJ WTMJ WTMJ WTMJ WTMJ WTMJ	WORC on Carlos wn Carlos wn Carlos WBAL WHAM bbath Re WREN WREN WREN WREU WWJ WWJ WWJ WWJ WWJ WWJ WWJ WW	WBT and Mar KFAB WBZA KFAB KOMO WSZA WHAG WDAF WTAG WDAF WTAG WDAF WTAG WDAF WTAW WJAR WFDC WFLA KFAB WFLA KPC WFLA KPC WFLA KMBC WMAU KMBC WMAU KMBC WALU KMBC WALU KMBC WALU KMBC WALU KMBC WALU KMBC WALU KMBC WALU KMBC WALU KMBC WALU KMBC WALU KMBC WALU KMBC WALU KMBC WALU KMBC KMA KOMO WSAI KAN KAN KAN KAN KAN KAN KAN KAN KAN KAN	WLAC KHJ imba Bai WJR WJR WJDX WSB KDKA WJDX WJR WHO WJR WJR WJR WJR WJR WJR WJR WJR WJR WJR	KVI WLW WHAM WEBC WOAI KOA WRC WOC KDKA CKGW WOC KDKA CKGW WWCSH WSM WHAS KOA WCAU WKBW WCAU WKBW WCAU WCAU WCAU WCAU WCAU WCAU WCAU WCA	KFPY WBZ WLW WJAX KVOO KTAR WOW WBZ WRC WKY KOMO KTAR WDAF WMC WMC WMC WMAL WMAL WMAL WMAL WAAQ WIBW WIBW WIBW WGST KFPY KFPY
KFJF WDAY WJZ WJZ WJZ KWK WJC KWK WOD KPRC KGO 5:30-6:00 T5 WEAF CKGW 6:00-6:30 S0 WJZ WJZ WJC WJC WJC WJZ WJC WJC WJC WJC WJC WJC WJC WJC WJC WJC	WORC on Carlos w Carlos W BAL W HAM bbath Re WBZ W REN W FLA W FLA W WFLA W WFLA W WFLA W WFLA W WJ W MAL W HAM W HAM W HAM W HAM W MO W WJ KGO W WJA W WJ W WJ WJ W WJ WJ WJ WJ WJ WJ WJ WJ WJ WJ	WBT and Mar KFAB WBZA KFAB KOMO WSUN KFAB WSUN KFAB WTAG WDAF entide KFAB KWK WTAG WDAF WTAG WDAF WTAG WFJC WFJC WFJC WFJC WAU WMAU KMBC WMAU WMAU WMAU WMAU WMAU WMAU WAU WAU	WLAC KHJ imba Bai WJR WJR WJR WJR WHO WJR WHO WJR WHO WJR WTAG WIOD KSTP WOC WSOC WSOL WOAI WLBZ WHEZ WKBN WHC KKRD KKRD KKRD KKRD	KVI WLW WHAM WEBC WOAI KOA WRC WGR WCC KGW WCSH WCSH WCAU WCAU WCAU WCAU WCAU WCAU KECA KUAU KECA KUAU KECAU KCAU KCAU	KFPY WBZ WLW WJAX KVOO KTAR WCAE WOW WBZ WRC WKY KOMO KTAR WDAF WMAL WADC WMAL WMAL WMAL WMAL KFJF KFPY WRC

8

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7:35-8:30 M WEAF WDAF WJAR KSD	ajor Bow	es Famil KSTP WMC WRC	ly	wond	9/01/
WDAF	WIOD	WMC	WCSH WSB WGY WTAM	WEBC WJDX WWJ	WSM WKY WSAI KTHS
WJAR	WCAE	WRC WHAS	WGY	W WJ WOAI	WSAI
WFLA	WSUN	WHO	WOC	WTAG	WCFL
7:45-8:00 T	e World	's Busine	S5		
WABC WHP	WEAN WJAS WAIU	WNAC WLBW WKBN	WLBZ WHEC WFBM	WFAN WKBW WMAQ	WMAL WADC KMOX
WKRC	WAIU	WKBN	WFBM	WMAQ	KMOX
KOIL WMT	KMBC WWNC	WISN WDBJ KHJ	WCCO WDOD	WIBW	WSPD KFJF
KLZ WPG	WWNC KDYL WNAX	KHJ WDAY	WDOD KFRC WORC	KLRA KVI	KFPY
	sse Craw	ford Or			
WIDC	WEAN	ford, Org WNAC	WFAN WKBW	WMAL WADC	WHP WAIU WISN WTAR
WJAS WKBN WCCO	WEAN WEBW WIBW WBRC	WHEC KMOX	KOIL	WADC KMBC	WAIU WISN
WCCO WDBJ	WIBW	KMOX WSPD WDOD	KOIL WMT		WTAR
KDYL	KHJ	KFRC	KLRA KVI	KFJF KFPY	KLZ WNAX
W DAY	WORC	WBT			
8:30-9:00 Cl WEAF WGR WOW	wiase and i WIAR	Sanborn WTAG	Orchestra WCSH	WRC	WGY
WGR	WCAE	WFJC	WCSH WWJ	WRC WSAI	KSD
	WKY	KTHS	WEBC KPRC	WMC WOAI WPTF	WSB WTMJ
WJDX WAPI	WIOD WKY WTAM WRVA	KSTP WFAA	WIBO WHO	WPTF	KVOO WLIT
8:30-9:45 G		and Cone	art	WOC	WLIT
WJZ KPO	WBZ KGW KFAB	WBZA	WHAM KHQ WJR	KDKA WCKY WCFL	KOA WREN
12 W V	KFAB	KOMO KSL	WJR	WCFL	WICEIN
9:00-9:15 "(WEAF	WCAE	WTAG		WCSH	WEBC
WEAF	WCAE	KSD	WLIT WHAS	WKY	WEBC WSAI WTMJ
WFJC WOW	WSB WOAI	WMC WWJ	WSM WSM B	WFAA	WIDX
WIOD WEEI	WOAI WFLA WRC	WSUN	WSMB WOC	WCSH WKY WFAA WTIC WHO	WJDX WCFL
WISEI	mac				
9:00-10:00 N	lajestic 7	Theatre o	f the Air		
9:00-10:00 N WABC WMAL	lajestic 7 WEAN WIAS	heatre o WNAC WLBW	WLBZ	WCAU WMAK	WCAO
9:00-10:00 N WABC WMAL WDEL	WEAN WJAS CFRB	WNAC WLBW	WLBZ	WCAU WMAK WHK	WCAO WKBW WKRC
w DEL	WEAN WJAS CFRB	WNAC WLBW	WLBZ	KMOX	KOIL
W DEL WGHP KMBC	lajestic I WEAN WJAS CFRB WOWO WISN WSAZ	WNAC WLBW CKAC WFBM WCCO WTAP	WLBZ WFBL WADC WBBM WIBW WDBJ	KMOX KFH WBRC	KOIL WSPD WDOD
WDEL WGHP KMBC WWNC WREC KTSA	lajestic I WEAN WJAS CFRB WOWO WISN WSAZ WLAC KLZ	WNAC WLBW CKAC WFBM WCCO WTAR WDSU KDYL	WLBZ WFBL WADC WBBM WIBW WDBJ KRLD KHJ	KMOX KFH WBRC KLRA	KOIL WSPD WDOD KEJF
WDEL WGHP KMBC WWNC WREC KTSA	lajestic I WEAN WJAS CFRB WOWO WISN WSAZ WLAC KLZ KFPY	WNAC WLBW CKAC WFBM WCCO WTAR WDSU KDYL	WLBZ WFBL WADC WBBM WIBW WDBJ KRLD KHJ	KMOX KFH WBRC	KOIL WSPD WDOD
W DEL WGHP KMBC WWNC WREC KTSA KVI 9:15-9:45 At WEAF	lajestic I WEAN WJAS CFRB WOWO WISN WSAZ WLAC KLZ KFPY	WNAC WLBW CKAC WFBM WCCO WTAR WDSU KDYL KOL	WLBZ WFBL WADC WBBM WIBW WDBJ KRLD KHJ	KMOX KFH WBRC KLRA KFRC	KOIL WSPD WDOD KFJF KOIN
W DEL WGHP KMBC WWNC WREC KTSA KVI 9:15-9:45 At WEAF	1ajestic J WEAN WJAS CFRB WOWO WISN WSAZ WLAC KLZ KFPY water Ke WEEI WTAM KOA	WNAC WLBW CKAC WFBM WCCO WTAR WDSU KDYL KOL nt Progra WRC WWJ	WLBZ WFBL WADC WBBM WIBW WDBJ KRLD KHJ	KMOX KFH WBRC KLRA KFRC	KOIL WSPD WDOD KFJF KOIN WGR WOW
W DEL WGHP KMBC WWNC KTSA KTSA KVI 9:15-9:45 At WEAF WCAE KSTP KPO	1ajestic J WEAN WJAS CFRB WOWO WISN WSAZ WLAC KLZ KFPY water Ke WEEI WTAM KOA	WNAC WLBW CKAC WFBM WCCO WTAR WDSU KDYL KOL nt Progra WRC WWJ KSL WSM	WLBZ WFBL WADC WBBM WIBW WDBJ KRLD KHJ WFI WSAI KFI	KMOX KFH WBRC KLRA KFRC WGY KSD KGW WFAA	KOIL WSPD WDOD KFJF KOIN WGR WOW KOMO KPRC
W DEL WGHP KMBC WWNC WREC KTSA KVI 9:15-9:45 At WEAF WCAE KSTP KPO WOAI WOO	lajestic J WEAN WJAS WOWO WISN WSAZ WLAC KLZ KFPY WALC KFPY WALC KFPY WALC KFPY WALC KFPY WALC KFPY WALC KOA KHQ WHY	WNAC WLBW CKAC WFBM WCCO WTAR WDSU KDYL KOL nt Progra WRC WWJ KSL WSM WSMB	WLBZ WFBL WADC WBBM WIBW WDBJ KRLD KHJ	KMOX KFH WBRC KLRA KFRC	KOIL WSPD WDOD KFJF KOIN WGR WOW KOMO
W DEL WGHP KMBC WWNC WREC KTSA KVI 9:15-9:45 At WEAF WCAE KSTP KPO WOAI WOO	lajestic J WEAN WJAS WOWO WISN WSAZ WLAC KLZ KFPY WALC KFPY WALC KFPY WALC KFPY WALC KFPY WALC KFPY WALC KOA KHQ WHY	WNAC WLBW CKAC WFBM WCCO WTAR WDSU KDYL KOL nt Progra WRC WWJ KSL WSM WSMB	WLBZ WFBL WBBM WIBW WDBJ KRLD KHJ WFI WSAI KFI WMC WHAS	KMOX KFH WBRC KLRA KFRC WGY KSD KGW WFAA WGN	KOIL WSPD WDOD KFJF KOIN WGR WOW KOMO KPRC WSB
W DEL WGHP KMBC WWNC WREC KTSA KVI 9:15-9:45 At WEAF WCAE KSTP KPO WOAI WOO	lajestic J WEAN WJAS WOWO WISN WSAZ WLAC KLZ KFPY WALC KFPY WALC KFPY WALC KFPY WALC KFPY WALC KFPY WALC KOA KHQ WHY	WNAC WLBW CKAC WFBM WCCO WTAR WDSU KDYL KOL nt Progra WRC WWJ KSL WSM WSMB	WLBZ WFBL WADC WBBM WIBW WDBJ KRLD KHJ WFI WSAI KFI WMC WHAS es KPO	KMOX KFH WBRC KLRA KFRC WGY KSD KGW WFAA WGN	KOIL WSPD WDOD KFJF KOIN WGR WOW KOMO KPRC WSB
W DEL WGHP KMBC WREC KTSA VI 9:15-9:45 At WCAE KSTP WCAE WOQI 9:45-10:15 I WEAF WPI WTM	lajestic 1 WEAN WEAN WSWO WOWO WISN WSAZ WLAC KLZ KFPY WAAC KEZ WEEI WTAM KOA KHQ WKO the Tim WEEI WHO WHO	WNAC WLBW CKAC WFBM WCAR WDSU KDL KOL NT Progra WRC WWJ KSL WSM WSMB wSMB wSMB WSMB WSMB WGR WGR	WLBZ WFBL WADC WBBM WIBW WDBJ KRLD KHJ WFI WSAI KFI WMC WHAS ** KPO WWJ WTAG	KMOX KFH WBRC KLRA KFRC WGY KSW WFAA WGN KGW WSAI WRC	KOIL WSPD WDOD KFJF KOIN WGR WOW KOMO KPRC WSB
W DEL WGHP KMBC WREC KTSA VI 9:15-9:45 At WCAE KSTP WCAE WOQI 9:45-10:15 I WEAF WPI WTM	lajestic 1 WEAN WEAN WSWO WOWO WISN WSAZ WLAC KLZ KFPY WAAC KEZ WEEI WTAM KOA KHQ WKO the Tim WEEI WHO WHO	WNAC WLBW CKAC WFBM WCAR WDSU KDL KOL NT Progra WRC WWJ KSL WSM WSMB wSMB wSMB WSMB WSMB WGR WGR	WLBZ WFBL WADC WBBM WIBW WDBJ KRLD KHJ WFI WSAI KFI WMC WHAS ** KPO WWJ WTAG	KMOX KFH WBRCC KLRA KFRC WGY KSD KGW WFAA WGN KGW WSAI WRC	KOIL WSPDD WDOD KFJF KOIN WGR WOW KOMO KPRC WSB KSD WOW KOA
W DEL WGHP KMBC WREC KTSA VI 9:15-9:45 At WCAE KSTP WCAE WOQI 9:45-10:15 I WEAF WPI WTMJ	lajestic 1 WEAN WEAN WSWO WOWO WISN WSAZ WLAC KLZ KFPY WAAC KEZ WEEI WTAM KOA KHQ WKO the Tim WEEI WHO WHO	WNAC WLBW WCCO WTAR WDSU KDYL KOL trong WRC WWJ KSL WSM WSMB WSMB WSMB WSMB WSMB WSMB WSMB	WLBZ WFBL WADC WBBM WDBJ KRLD KRLD KHJ WDBJ KRLD KHJ WFI WSAI KFI WFI WFI WHAS WHAS WWJ WTAG	KMOX KFH WBRCC KLRA KFRC WGY KSD KGW WFAA WGN KGW WSAI WRC	KOIL WSPD WDOD KFJF KOIN WGR WOW KOMO KPRC WSB KSD WOW KOA
W DEL WGHP KMBC WREC KTSA VI 9:15-9:45 At WCAE KSTP WCAE WOQI 9:45-10:15 I WEAF WPI WTMJ	lajestic 1 WEAN WEAN WSWO WOWO WISN WSAZ WLAC KLZ KFPY WAAC KEZ WEEI WTAM KOA KHQ WKO the Tim WEEI WHO WHO	WNAC WLBW WCCO WTAR WDSU KDYL KOL Nt Progra WWC WWJ KSL WSM WSM WSM WSM WSM WSM WSM WSM WCR WCR WCR WCR WCR WCR WCR WCR WCR WCR	WLBZ WFBL WADC WBBM WDBJ KRLD KRLD KHJ WDBJ KRLD KHJ WFI WSAI KFI WFI WFI WHAS WHAS WWJ WTAG	KMOX KFH WBRC KLRA KFRC WGY KSD KGW WFAA WGN KGW WSAI WRC d WCAU WCAU WADC	KOIL WSPD KFJF KOIN WGR WOW KOMO KPRC WSB KSD WOW KOA WCAO WHK
W DEL WGHP KMBC WWNC WREC KTSA WCAE WCAE KSTP KPO WOAI WCAI WOAI WOAI WOAI WFI WTIO U:00-10:30 WTIO WTIO WTIO WABC WMAL WKRC KMBC WKRC	lajestic 1 WEAN WJAS CFRB WOWO WISN WSAZ WLAC KFPY WEEI WTAM KOA KHQ WEEI WTAM KOA KHQ WEEI WGY KTAR Mayhew WEEN WJAS WKBN WISN	WNAC WLBW WCCO WTAR WOSU WDSU KDYL KOL nt Progra WRC WWJ KSL WSM WSMB wSMB wSMB wSMB wSMB wSMB wSMGR WSMGR WLSU WEBC WDAF Lake and WNAC	WLBZ WFBL WFBL WFBL KRLD KRLD KRLD KRLD KFI WSAI KFI WSAI KFI WSAI KFI WHAS es KPO WHAS WHAS WHAS WHAS WHAS WHAS	KMOX KFH WBRC KLRA KFRC WGY KSW WFAA WGN KGW WFAA WGN KGW WFAA WCAU WCAU WADC KMOX WSPD	KOIL WSPD KFJF KOIN WGR WOW KOMO KPRC WSB KSD WOW KOA WCAO WHK
W DEL WGHP KMBC WWNC WREC KTSA WCAE WCAE KSTP KPO WOAI WCAI WOAI WOAI WOAI WFI WTIO U:00-10:30 WTIO WTIO WTIO WABC WMAL WKRC KMBC WKRC	lajestic 1 WEAN WEAN WEAS CFRB WOWO WISN WSAZ WLAC KLZ KFPY WTAA KFPY WEEI WTAA KHQ WKQY KSTP KTAR Maybaw WLAS WJAS WJAS WJAS	WNAC WLBW WCCO WTAR WOSU WDSU KDYL KOL nt Progra WRC WWJ KSL WSM WSMB wSMB wSMB wSMB wSMB wSMB wSMGR WSMGR WLSU WEBC WDAF Lake and WNAC	WLBZ WFBL WFBL WFBL KRLD KRLD KRLD KRLD KFI WSAI KFI WSAI KFI WSAI KFI WHAS es KPO WHAS WHAS WHAS WHAS WHAS WHAS	KMOX KFH WBRC KLRA KFRC WGY KSB WGY KSGW WFAA WGN KGW WSAI WCAU WCAU WCAU WCAU WCAU WCAU WCAU KMOX	KOIL WSPD KFJF KOIN WGR WOW KOMO KPRC WSB KSD WOW KOA WCAO WHK KOL WCAO WHK KOL KOL KOYL
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W DELL WGHP KMBC WWNC WREC KTSA WCAE WCAE WCAE WCAE WCAE WCAE WCAE WCA	lajestic 1 WEAN WJAS CFRB WOWO WISN WSAZ KEZ KFPY WEAL WTAM KFPY WEEL WTAM KOA KHQ WKEY WHO a the Tim WGY KSTP KTAR WHO WHO SATAR WHO WHO SATAR WHO WHO WHO KSTP KTAR WEAN WISN WISN WISN WISN WISN WEAC KFPY WEAL SATAR WEAN WHO SATAR WEAN WISN WISN WEAC KFPY WEAL SATAR WHO SATAR WEAN WHO SATAR WEAN WHO SATAR WEAN WHO SATAR WHO SATAR WHO SATAR	WNAC WLBW WCKAC WFBM WCCO WTAR WDSU KOL KOL NC WRC WWJ KSL WSM WSMB WSMB WSMB WSMB WSMB WSMB WSMB	WLBZ WFBL WFBL WFBL WFD WFD KRLD KHJ WFI WSAI KFI WSAI KFI WHAS ** KPO WHAS ** WHAS ** WWJ WTAG HIE BAN WLBZ WHEBU WHEZ WFBM WLBZ	KMOX KFH WBRC KLRA KFRC WGY KSD KGW WFAA WGN KGW WSAI WCAU WCAU WCAU WCAU KOL WCSH WCSH WGN	KOIL WSPD KFJF KOIN WGR WOW KOMO KPRC WSB KSD WOW KOA WCAO WHK KKOIL WMAX WRC KSTYL WRAX
W DEL WGHP KMBC WWNC WREC KTSA WEAF WCAE KSTP WOAI WOC 9:45-10:15 I. WEAF WFI WTMJ WTIC 10:00-10:30 WABC WABC WABC WABC WABC WABC WABC WABC	lajestic 1 WEAN WEAN WEAS CFRB WOWO WISN WSAZ KFPY WESI WTAM KOA KHQ WEEI WTAM KOA KHQ WEEI WGY KTAR Mayhew WEAN WEAN WEAN WEAN WISN WEAN WEAN WEAN WEAN WEAN WEAN WEAN WEA	WNAC WLBW WLBW WCCA WFBM WCCO WTAR WDSU KDYL KOL KSL WSM WSMB wSMB wSMB wSMB wSMB wSMB wSMB wSMB w	WLBZ WFBL WFBL WFBL KRLD KRLD KHJ WSAI KFI WMAS WFAI WHAS WHAS WHAS WHAS WHAS WHAS WHAS WHAS	KMOX KFH WBRC KLRA KFRC WGY KSD KGW WFAA WGN KGW WSAI WRC d WCAU WCAU WCAU WCSH	KOIL WSPD WDOD KFJF KOIN WGR WOW KONO KPRC WSB KSD WOW KOA WCAO WHK KOIL WCAO WHK KOIL WNAX WRC
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W DEL WGHP KMBC WWNC WREC KTSA WEAF WCAE KSTP WOAI WOC 9:45-10:15 I. WEAF WFI WTMJ WTIC 10:00-10:30 WABC WABC WABC WABC WABC WABC WABC WABC	lajestic 1 WEAN WJAS CFRB WOWO WISN WSAZ WLAC KFPY WSAZ KFPY WATAM KOA KHQ WEEI WGY KTAR Mayhew WEEI WGY KTAR Mayhew WEAN WJAS Studebab KFRC WBTAS	WNAC WLBW WLBW WCCA WFBM WCCO WTAR WDSU KDYL KOL KSL WSM WSMB wSMB wSMB wSMB wSMB wSMB wSMB wSMB w	WLBZ WFBL WFBL WFBL KRLD KRLD KHJ WSAI KFI WMAS WFAI WHAS WHAS WHAS WHAS WHAS WHAS WHAS WHAS	KMOX KFH WBRC KLRA KFRC WGY KSD KGW WFAA WGN KGW WSAI WCAU WADC KMOX WSPD WLZ KOL WCSH WGN KGO WEEI	KOIL WSPD WDOD KFJF KOIN WGR WOW KON KON KON KOW KOA WCAO WHK WRC KSTP KGW WDAF WCAO
W DEL WGHP KMBC WWNC WREC KTSA WEAF WCAE KSTP WOAI WOC 9:45-10:15 I. WEAF WFI WTMJ WTIC 10:00-10:30 WABC WABC WABC WABC WABC WABC WABC WABC	lajestic 1 WEAN WEAN WEAS CFRB WOWO WISN WSAZ KLZ KFPY WEAZ KFPY WEEI WTAM KOA KHQ WKEY WHO a the Tim WEEI WGY KSTP WHO KSTAR WJAS WEAN WISN WISN WEAS KTAR WJAS Studebak WFC WEA KFIC WCA KFIC WASN WISN	WNAC WLBW WLBW WCCA WFBM WCCO WTAR WDSU KDYL KOL KSL WSM WSMB wSMB wSMB wSMB wSMB wSMB wSMB wSMB w	WLBZ WFBL WFBL WFBL KRLD KRLD KHJ WSAI KFI WMAS WFAI WHAS WHAS WHAS WHAS WHAS WHAS WHAS WHAS	KMOX KFH WBRC KLRA KFRC WGY KSD KGW WFAA WGN KGW WSAI WCAU WCAU WCAU WCAU KMOX KMOX KMOX KMOX KMOX	KOIL WSPD WDOD KEJF KOIN WGR WOW KOA WSB KSD WOW KOA WCAO WHK KOIL WMAT WREC KDYL WNAX WREC KSTP KGW WDAF

KDYL KFRC KFPY WPG KFJF KLZ KDY WNAX WORC WBT 10:45-11:15 Sunday at Seth Parkers WJAX WOW WEAF WCAE WHAS WFJC WWJ WPTF WGY WRC KOA WKY KGO WEEI WIOD WEBC KGW KYW WCSH WMC WSB WSM WHO WJDX WEBC KGW KYW WTAM CKGW KSTP WDAF WSMB KSD WTMJ WOC KPRC KOMO KHQ KTAR KFSD KVOO WGR 11:00-12:00 Back Home Hour WLBZ WMAL WHEC WFBM KMOX WISN WMT WTAR WDBJ WKBW WKRC WABC WCCO WIBW WKBN WDOD KLRA WNAX WDAY WSPD KFP Y KFJF KLZ KVI WBT 11:30-12:00 Russian Cathedral Choir WBAP WOC WGY WTAM WFJC WWJ WOW WSB WEAF WRC WHO KOA WEBC KVOO CKGW KSTP Monday 3:00-3:30 Phil Napoleon and His Band WJZ KDKA WHAM KPRC WBZ WBZA WBAL KWK WREN 3:30-4:00 Salon Singers WEAF WRC KSD WTAG KSTP WGR WOW WCFL WTAG WGY WFJC WCCO WIBW WGL WWNC WTAR WDBJ WBRC WMT WSPD WDOD WREC WLAC KRLD KLRA KLZ KDYL KVI KFPY WPG KFJF KOL WDAY WBT 4:00-5:00 Denver Municipal Band WJZ WBZ WBZA KGW KFSD WBAL WHAM KYW WLW KDKA WREN WSB WBAP KOA KGO WJR WCFL WAPI WAPI WBAP KOA KGO WJR WCED 3430-5:00 Ebony Twins WABC WEAN WNAC WCAU WCAO WMAL WHP WMAK WADC WKRC WAIU WKBN WFBM KOIL KMBC WISN WCCO WIFW WGL WBCM WSPD WMT WWNC WTAR WDIJ WGST WBRC WDOD WREC WLAC KDYL KFRC WDAY WBT KLRA KFJF KFPY WPG KLZ KRLD KVI KOL KVI KFPY WPG KOL WDAY WBT 6:00-6:30 Mormon Tabernacle Choir and Organ WJZ WBAL WSM KWK KOA KSL KGO KOMO KFAB KGW KPO WLW CKGW WRC WHAS KDKA KSTP KFSD 6:00-6:45 Carl Rupp and His Captivators WABC WCAO WMAL WHP WJAS WLBW WHEC WKBW WAIU WKBN WBBM KMBC WISN WIBW WGL KFH WBCM WSPD WMT WWNC WTAR WGST WBRC WDOD WBFC KFLD KLBA KEFF KLZ KDYL KLZ WREC KRLD KLRA KFJF KHJ WDAY WBT KDYL KHJ WDAI WB1 7:00-7:30 Current Events WABC WLBZ WHP WJAS WLBW WKBW WADC KMOX WISN WCCO KFH WBCM WMT WWNC WDBJ WBRC WDOD WEEC KLRA KFJF WDW WHV WHD WERC KLRA KFJF WLBW WHEC WCCO WIBW WGST KLZ KFPY KOL KDYL KHJ WDAY WORC KFRC KVI 7:30-8:00 Colonial Beacons WEAF WEEI WJAR WTAG WOAL 7:45-8:00 Bernhard Levitow and Orchestra WABC WEAN WNAC WLBZ WCAU WCAO WHP WJAS WLBW WPBL WHEC WKBW WAIU WKBN WFBM KMBC WISN WGL WBCM WSPD WWNC WDBJ WBRC WDOD WBCM WSPD WLZ KHJ KFRC KVI 7:30-8:00 Colonial Beaconlights WEAF WEEI WJAR WTAG WCSH WGY WORC WBT KFPY KOL WORKS HEL 7:50-8:30 Roxy and His Gang WJZ WBZ WBZA WHAM KWK WSB WSM WCKY KGO KFAB KOA WFLA WSM WCKY KGO KFAB KOA WFLA WSM WCKY KGW WCFL CKGW WIBO KTHS 8:00-8:30 Half Hour in Nations Capital WEAF WEEI WIOD WPTF WJAX WJAR WTAG WCSH WLIT KFSD KOMO WRC WJAX WJAR

WWJ WCAE WGR WFJC WSAI KSD WDAF KSTP KYW WOC WOW WHO WJDX WSMB KGO KVOO KPRC WOAI KECA KGW WFLA WSUN WTIC KOA WKY 8:00-8:30 Burbig's Syncopated History WABC WEAN WNAC WLBZ WCAU WCAO WMAL WHP WJAS WLBW WKBW WADC WCCO WIBW WGL KFH WBCM WSPD WMT WWNC WTAR WDBJ WBCC WDOD KLRA KFJF KLZ KHJ WPCO KVI KFPY WPG KO WORD WD. 8:30-9:30 A. & P. Gypsies WEAF WEEI WTAG WJAR WTIC WCSJ WLIT WRC WGY WGR WCAE WWJ WLIT WRC KSD WOC WDAF WTA WCSH WTAM WOW WHO 8:30-9:00 Crime Prevention Program WJZ WBZ WBZA KDKA WREN KFAB CKGW WTMJ WJDX KGO KOMO KFSD 8:30-9:00 U.S. Navy Band Concert WABC WEAN WNAC WLBZ WCAU WCAO WMAL WHP WJAS WLBW WFBL WKBW WADC WHK WKRC WFBM WMAQ KMOX WACC KMBC WISN WCCO WGL ANA WBCM WSPD WWNC WTAR WDBJ WBRC WDOD KLRA KFJF KLZ KHJ KFRY KOL WNAX WDAY WORC 9:00-9:30 Maytag Orchestra WJZ WBZ WBZ WJZ KYW WSB WBZA WHAM KDKA WJR KWK WREN KSTP WEBC WSM WSMB KTHS WKY KPRC WOAI WCKY WJDX KGO KOMO WTMJ WHAS KSL KECA KOA KGW KHQ WMC WFAA KV00 9:00-9:30 Arabesque WABC WEAN WNAC WLBZ WCAU WCAO WMAL WHP WJAS WLBW WKBW WADC WHK WKRC WAIU WMAQ KMOX KOIL KMBC WISN WCCO WIBW WGL KFH WBCM WSPD WMT WWNC WTAR WDBJ WDOD WREC WLAC KLRA KFJF KLZ KDYL KHJ KVI KFFY WNAX WDAY KDYL KHJ KVI KFPY WNAX 9:30-10:00 General Motors Family Party WEAF WEEI WTIC WJAR WCSH WTAG WTAM WCAE WGR WLIT WRC WGY WOC WOW-WDAF WWJ WGN KSD WSAI KSTP WTMJ WHAS WSM WMC WFAA WSB WJAX KECA WOAI KPRC WKY KOA KSL KGO KGW KOMO WHO KHQ WHO 9:30-10:00 Chesebrough Real Folks WJZ WBZ WBZA WHAM KDKA KWK WTW KYW WJR WREN CKGW WLW KYW WJR WREN CKGW 9:30-10:00 Toscha Seidel and Orchestra WARC WEAN WNAC WLBZ WCAU WCAO WMAL WHP WJAS WLBW WKBW WAAQ WHK WKRC WAIU WOWO WFBM WMAQ KOIL KMBC WISN WCCO WIBW WBCM WSPD WWNC WTAR WDBJ WBRC WDOD WLAC KLRA KFJF KLZ KDYL KHJ KVI KFPY WNAX WDAY WORC WBT 10:00-10:30 Moonshine and Honeysuckle WEAF WEEI WCSH WRC WGY WGR WCAE WWJ KSD WOC WHO WDAF WOW WOW 10:00-10:30 Stromberg-Carlson Program WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ WEBC WRV WJZ KYW KWK WJAX WIOD WSMB WKY WGO KFI WSTP WRVA WHAS WSM WMC WSB WHAS WOM WMC WSB KTES KPRC WOAI KOA WCKY KGW KHQ KOMO WPTF KVOO WFLA WSUN KGO WJDX KSTP KTAR KFSD KTAR KFSD 10:00-10:30 Robert Burns Panatella Program WABC WEAN WNAC WCAU WCAO WMAL WJAS WLBW WFBL WKBW WADC WHK WKRC WGHP WOWO WFBM WMAQ KMOX KOIL KMBC WCCO WSPD KLZ KDYL KHJ KFRC KOIN KVI KFPY KOL

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10:30-11:00 Sign of the Shell WEAF WEEL WTIC WJAR WTAG WLIT WRC WGY WGR WCAE	WCSH	N		WJAX WAPI	WRVA	WSM WLW	WSB	KFAB
	WWJ WDAF		:30 Bla	ckstone	Program	WOLT	WOLD	
WRVA KOA KSTP WPTF WJAX WHAS WSM WMC WSB WSMB	WIOD	W	ABC /HP	WEAN	WLBW	WCAU WFBL	WCAO	WMAL WKBW
WEBC WHO WTAM	WJDA	n N	ADC/CCO	WHK WSPD	WGHP WMT	WAIU	KOIL	KMBC
10:30-11:00 In the Spotlight WJZ WHAM KDKA WJR KWK	WREN	8:30-9	:00 Fre	wRC	ys VOD	WT LO	WINT	TRALD
WFAA KPRC WBZ WBZA		17	/WJ	WSAI	KSD WOW	WCSH	WFI WDAF	WCAE WGR
10:30-11:00 Jesse Crawford WABC WEAN WNAC WLBZ WCAU WMAL WUR WLAS WLBW WHEO	WCAO	8:45-9	1:00 Th	WJAR e Melody	W TAM Musket	eers	WHO	
WADC WKRC WFBM WMAQ KMOX	KOIL	N V	ABC/MAL	e Melody WEAN WHP	WNAC WJAS	WLBZ WLBW	WCAU WFBL	WCAO WKBW
WMT WWNC WTAR WDBJ WBRC	WDOD	K K	TADC .	WRCM	WAIU	WOWO	WISN WWNC	WCCO
WREC WLAC KRLD KLRA KFJF KDYL KHJ KFRC KVI KFPY KOL WNAX WDAY WORC WBT	KLZ WPG	Ŵ	DBJ	WBRC KDYL WDAY	WDOD	KRLD	KLRA KFPY	KFJF WBT
KOL WNAX WDAY WORC WBT		ų 1.00.0	VNAX	WDAY	WORC	K VI		
11:00-11:15 Phil Spitalny's Music WEAF WRC WGY WWJ WSMB WTAM WSAI WJDX	WCAE	a:00-5	VABC	WEAN	WNAC	WCAU WFBL	WCAO	WMAL
11:30-12:00 Barney Rapp Orchestra		v	mn	WKRU	wGnP	WOWO	WBBW	KMOX
KSTP WOW	KOA	H 9:00-9	COIL):30 Ev	KMBC erready J WEEI	WISN Program		KFH	WSPD
11:30-12:00 Ted Fiorito and Orchestra WABC WEAN WNAC WLBZ WCAU	WCAO	v	VEAF VCAE	WEEI WTAM	WFI WWJ	WRC WGN	WGY KSD	WGR WHO
WABC WEAN WNAC WLBZ WCAU WMAL WHEC WADC WKBN WFBM KOIL WISN WCCO WIBW KFH	KMOX WBCM	v	VDAF COA	WEET WTAM WHAS KSL	WSM	WMC	WSB KOMO	WJAR
KOLL WISN WCCO WIBW KFH WMT WWNC WTAR WDBJ WBRC WREC WLAC KLRA KFJF KLZ WBT KFPY KOL WNAX WDAY	WDOD	Ŷ	VSMB	KSL WJDX	WCSH	WFJC	WSAI	WOW
WBT KFPY KOL WNAX WDAY	WORC	9:30-1	0:00 H	appy Wo	nder Bak	ers	WOOL	WDG
WMT WWNC WTAR WDBJ WBRC WREC WLAC KLRA KFJF KLZ WBT KFPY KOL WNAX WDAY Tuesday		ý	VGY	WGR	WCAE	WTAG WTAM	WFJC	WRC WWJ
10:15-10:30 Through the Looking Glass	WDDN	ý	VTMJ				WHAS	WDAF WMC
10:15-10:30 Through the Looking Glass WJZ WBZ WBZA WHAM WLW KFKX WJR KDKA KWK CKGW	WREN	v	VSB VJDX	KSTP WSMB KGO	KVOO KOMO KPRC	WKY KECA	KOA KGW	KSL KHQ
WING AND A WING AND A AN	WCAO WKBN	9:30-1		WFI he Colun	KPRC bians —	WOC Freddie l	Rich	
WMAL WHP WMAK WADC WAIU WOWO KOIL WISN WCCO WIBW	WCAO WKBN WBCM	N N	ABC/MAL	WEAN WHP	WNAC WJAS	Freddie I WLBZ WLBW WKBN	WFAN WKBW	WCAO WADC
WSPD WMT WWNC WTAR WDBJ WDOD WREC WLAC KRLD KLRA	WGST KFJF	n	JWIUA	NULL	A M BU	WISN	wears	WBBM WIBW
KLZ KDYL KVI KFPY WPG WDAY WORC WBT	KOL	K	.FH /BRC	WBCM WDOD	WMT WREC	WWNC WLAC	WTAR KRLD	WDBJ KLRA
4:00-5:00 U.S. Navy Band WEAF WRC WTAM KSD KYW	WCAE	K	FJF	KLZ WNAX	KDYL WDAY	KHJ	KFRC	KVI
		10:00- W	10:15 I	KLZ WNAX Enna Jett WEEI WRC KSD	ick Song	bird	WTAM	WOOU
4:00-5:00 Pacific Vagabonds WJZ WREN KFAB WHAM WLW KPO KGO KSTP WJAX WBAP	KOA W IR	Ŵ	/FI	WRC KSD	WGY WOW	WCAE WHO	WFJC	WSAI
WAPI KESD WSM WIMI		W. AN	OC	ŴŴJ				WGR
5:00-5:30 Rhythm Kings Dance Orchestra WABC WFAN WCAO WMAL WHP WADC WKRC WAIU KOIL KMBC	WMAK	N N	ABC	WEAN WLBW WKRC WBBM KFH WBRC	WNAC	d Mrs. WCAU WHEC WAIU	WCAO	WMAL
		W	HK	WLBW	WFBL	WAIU	WKBW WKBN	WADC WOWO
	WDBJ KLRA KFPY	N	CCO	KFH	WSPD	WWNC	WTAR	WISN WDBJ
WDAY WBT 7:15-7:30 Columbia Educational Features		K	LRA FRC	ITL 9L	N I OA	r Lu	KDYL	KRLD KHJ
7:15-7:30 Columbia Educational Features WABC WLBZ WCAU WCAO WHP WLBW WKBW WADC WOWO WFBM WISN WCCO WIBW WBCM WMT WDW WBCQ WDCD WDFG KLDA	WJAS WMAQ	К 10:00-	.FRC 10:30 \	KOIN Westingh WBZ	KVI	KFPY ite	KTRH	KOL
WDDJ WDRU WDUD WREU KLRA	R.C.J.F	n	WK	WEBC	WJAX	WBAL WHAS	KDKA WSM	KYW WMC
WDAY WORC	KOL	W K	APL	WSMR.	KGW	KPRC	KOA KOMO	KSL
7:30-8:00 Soconyland Sketches WEAF WEEI WJAR WTAG WCSH	WGY	W K	GO VREN ECA	KHQ WRVA WCKY	WKY KVOO	NOAT	WGB	WIOD
WOD WITIO	ns	K 10:15-	TAR 10:30 (KFSD Suddles a	nd Mont	v		
WGR W11C 7:30-8:00 Guy Lombardo and His Royal Canadia: WABC WLBZ WFAN WHP WJAS WHEC WKBW WAIU WKBN WOWO WBBM KMBC WISN KFH WBCM WWNC WDBJ WBRC WDOD KLRA KLZ KHJ KFRC KVI KFPY WORC WFT	WLBW WFBM	W	EAF	WGY WDAF	WTAG	WFLA WCSH ature WLBZ	WFI	WRC
WHEC WKBW WAIU WKBN WOWO WBBM KMBC WISN KFH WBCM WWNC WDBJ WBRC WDOD KLRA	WSPD KFJF	10:15- u	11:00 C	Grand Op	era Mini	ature WLBZ WLBW WKBN WISN	WCAT	WOAD
KLZ KHJ KFRC KVI KFPY WORC WBT	KOL	W	MAL	WHP	WJAS	WLBZ WLBW	WHEC	WKBW
WORD Troika Bells WEAF WFI WWJ WSAI WDAF WCSH CKGW WGR	WPC	W	BBM FH	KMOX	KMBC	WISN WWNC	WCCO	WIBW
WCSH CKGW WGR		Ŵ	BRC	WDOD	WREC	WLAC	KRLD	KLRA
8:00-8:30 Pure Oil Orchestra WJZ WBAL WHAM KDKA WJR KYW KWK KSTP WTMJ WEBC	WREN	K	FPY	KLZ WPG	KDYL KOL	KHJ WNAX	KFRC WDAY	KVI WORC
KYW KWK KSTP WTMJ WEBC	WHAS LOI		вт					

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WMC	WJAX	WRVA WPTF	WSM	WSB	KFAB
WJDX	WAPI		WLW		
8:00-8:30 Bl WABC	ackstone WEAN	Program	WCAU	WOLO	WINGAT
WHP	WIAS	WNAC WLBW	WFBL	WCAO WHEC	WMAL WKBW
WADC	WHK	WGHP	WAIU	KOIL	KMBC
WCCO	WSPD	WMT			
8:30-9:00 Fr WEAF	WRC	KSD	WTAG	WFI	WCAE
WEAF WWJ	WRC WSAI	KSD WOW WTAM	WTAG WCSH	WFI WDAF WHO	WGR
CKGW	WJAR	WTAM	WOC	WHO	
8:45-9:00 TH	wEAN	y Musket	eers WLBZ WLBW	WCAU	WCAO
WABC WMAL WADC	WHD	WNAC WJAS WAIU WSPD WDOD KHJ WOPC	WLBW	WFBL	WKBW
WADC KFH	WKRC	WAIU	WUNU	WISN	WCCO
WDBJ	WKRC WBCM WBRC	WDOD	WMT KRLD	WWNC KLRA	WTAR KFJF
KLZ	KDYL	KHJ	KVI	KLRA KFPY	WBT
WNAX 9.00-9.30 H	WDAY	WORC			
9:00-9:30 Ho WABC WHP WHK	WEAN	WNAC	WCAU	WCAO	WMAL
WHP	WJAS	WLBW WGHP	WCAU WFBL WOWO	WKBW	WMAL WADC KMOX
KOLL	KMBU	WISN	WCCO	WBBM KFH	WSPD
9:00-9:30 E	erready)	Program			
9:00-9:30 E WEAF WCAE	WEEI	WFI	WRC WGN	WGY KSD	WGR WHO
WDAF	WHAS	WSM	WMC	WSB	WJAR
KOA	KSL	KGO	KGW	KOMO	KHQ
WSMB WOC	WJDX	WCSH	WFJC	WSAI	woŵ
9:30-10:00 F WEAF WGY WSAI	lappy Wo	nder Bak	ers		
WEAF	WGR	WEEI	WTAG	WCSH WFJC WOW	WRC WWJ WDAF
WSAI	WIBO	KSD	WHO	WOW	WDAF
WTMJ WSB	KSTP WSMB	WEBC	WRVA	WHAS	WMC
WJDX	KGO	WEEI WCAE KSD WEBC KVOO KOMO KPRC	WKY KECA	KOA KGW	KSL KHQ
WBAP		KPRC	WOC		
		1.1		n · .	
9:30-10:00 T WABC	he Colun WEAN	wNAC	Freddie	Rich WFAN	WCAO
9:30-10:00 T WABC WMAL	he Colun WEAN WHP	WNAC WJAS	Freddie WLBZ WLBW	Rich WFAN WKBW	WCAO WADC
WBAP 9:30-10:00 T WABC WMAL WHK KMOX	he Colun WEAN WHP WKRC KOIL	WNAC WJAS WAIU KMBC	Freddie WLBZ WLBW WKBN	WFAN WKBW WOWO	WCAO WADC WBBM WIRW
KFH	NUL	WNAC WJAS WAIU KMBC	Freddie WLBZ WLBW WKBN	WFAN WKBW WOWO	WIBW
KFH WBRC	WBCM	WNAC WJAS WAIU KMBC	Freddie WLBZ WLBW WKBN	WFAN WKBW WOWO	WIBW
KMOX KFH WBRC KFJF KFPY	WBCM WDOD KLZ WNAX	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY	Freddie i WLBZ WLBW WKBN WISN WWNC WLAC KHJ WOPC	WFAN WKBW WOWO	WIBW
KMOX KFH WBRC KFJF KFPY	WBCM WDOD KLZ WNAX	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY tick Song	Freddie i WLBZ WLBW WKBN WISN WWNC WLAC KHJ WOPC	WFAN WKBW WOWO WCCO WTAR KRLD KFRC	WIBW WDBJ KLRA KVI
KMOX KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI	WBCM WDOD KLZ WNAX Enna Jet WEEI WRC	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY tick Song WJAR WGY	Freddie i WLBZ WLBW WKBN WISN WUSN WUAC KHJ WORC bird WTAG WCAE	WFAN WKBW WOWO WCCO WTAR KRLD KFRC	WIBW WDBJ KLRA KVI
KMOX KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI	WBCM WDOD KLZ WNAX Enna Jett WEEI WRC KSD	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY	Freddie i WLBZ WLBW WKBN WISN WWNC WLAC KHJ WOPC	WFAN WKBW WOWO	WIBW WDBJ KLRA KVI
KMOX KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC	WBCM WDOD KLZ WNAX Enna Jett WEEI WRC KSD WWJ	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY tick Song WJAR WGY WOW	Freddie WLBZ WLBW WKBN WWSN WWNC WLAC KHJ WORC bird WTAG WCAE WHO	WFAN WKBW WOWO WCCO WTAR KRLD KFRC	WIBW WDBJ KLRA KVI WCSH WSAI WGR
KMOA KFH WBRC KFJF 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC	WBCM WDOD KLZ WNAX Enna Jett WEEI WRC KSD WWJ Graybar's WEAN	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY tick Song WJAR WGY WOW s, Mr. and WNAC	Freddie i WLBZ WLBW WKBN WWNC WLAC KHJ WORC bird WTAG WCAE WHO d Mrs.	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO	WIBW WDBJ KLRA KVI WCSH WSAI WGR
KMOA KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WIAS	WBCM WDOD KLZ WNAX Enna Jett WEEI WRC KSD WWJ Graybar's WEAN WLBW	WNAC WNAC WAIU KMBC WMEC KDYL WDAY tick Song WJAR WGY WOW S, Mr. an.	Freddie i WLBZ WLBW WKBN WKSN WLSN WLAC KHJ WORC bird WCAE WHO d Mrs. WCAU WHEC WAUI	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW	WIBW WDBJ KLRA KVI WCSH WSAI WGR
KMOA KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WIAS	WBCM WDOD KLZ WNAX Enna Jett WRC KSD WWJ Graybar's WEAN WLBW WKRC WBBM	WNAC WJAS WAIU KMBCC WMT WREC KDYL WDAY WDAY WOW S, Mr. an WNAC WFBL WGHP	Freddie i WLBZ WLBW WKBN WKSN WLSN WLAC KHJ WORC bird WCAE WHO d Mrs. WCAU WHEC WAUI	WFAN WKBW WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW WKBN	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WADC WOWO
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO	WBCM WDOD KLZ WNAX Enna Jet WEEI WRC KSD WWJ Graybar': WEAN WLBW WLBW WKRC WBBM	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY tick Song WJAR WGY WOAY WOY WOY WOY WOY WGY WFBL WGHP KMOX	Freddie : WLBZ WLBZ WLBX WLSN WLSN WLAC KHJ WCAC KHJ WCAC WHAG WTAG WTAG WCAE WHO MHEC WHEC WHEC WAIU KOIL	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW WKBN KMBC WTAR	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WADC WOWO WISN WDBJ
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO 10:00-10:15 WABC WJAS WHK WFBM WCCO WGST	WBCM WBCM WDOD KLZ WNAX Enna Jet WEEI WRC KSD WWEX WEAN WLBW WEAN WLBW WKRC WBBM KFH WBRC	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY tick Song WJAR WGY WOAY WOY WOY WOY WOY WGY WFBL WGHP KMOX	Freddie : WLBZ WLBW WKBN WKBN WWNC WLAC KHJ WORC WORC WCAE WHO d Mrs. WCAU WHO d Mrs.	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW WKBN KMBC WTAR WDSU	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WADC WOWO
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WGST KLRA KFRC	WBCM WBCM WNAX Enna Jet WRC KSD WWJ Graybar's WEAN WLBW WKRC WBBM KFH WBRC KFJF KOIN	WMAS	Freddie : WLBZ WLBW WKBN WKBN WWKC WULAC KHJ WORC WORC WCAE WHO d Mrs. WCAU WHO d Mrs. WHO WHEC KUL WHEC KUL KULAC KLZ KFPY	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW WKBN KMBC WTAR	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WADC WOWO WISN WDBJ KRLD
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WGST KLRA KFRC	WBCM WBCM WNAX WNAX WNAX WEEI WEEI WRC KSD WWJ Graybar', WEBW WLBW WKRC WBBM KFH WBBM KFJF KOIN	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY tick Song WJAR WOW S, Mr. an WGY WOW S, Mr. an WFBL WFBL WFBL WFBL WSPD WREC KTSA KVI ouse Salt	Freddie : WLBZ WLBW WKBN WKSN WWNC WULAC KHJ WORC bird WTAG WCAU WTAG WCAU WHEC WHAC KOIL KOIL WWNC WLAC KLZ KFPY	WFAN WKBW WOWO WCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW WKBN KMBC WTAR WCAU KTRH	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WADC WMAL WADC WOWO WISN WDBJ KRLD KRLD KHJ KOL
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WGST KLRA KFRC	WBCM WBCM WNAX WNAX WNAX WEEI WEEI WRC KSD WWJ Graybar', WEBW WLBW WKRC WBBM KFH WBBM KFJF KOIN	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY tick Song WJAR WOW S, Mr. an WGY WOW S, Mr. an WFBL WFBL WFBL WFBL WSPD WREC KTSA KVI ouse Salt	Freddie : WLBZ WLBW WKBN WKSN WWNC WULAC KHJ WORC bird WTAG WCAU WTAG WCAU WHEC WHAC KOIL KOIL WWNC WLAC KLZ KFPY	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW WKBN KMBC WTAR WDSU KTRH KDYL KTRH KDKA	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WADC WISN WDBJ KRLD KHJ KOL KYW
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WGST KLRA KFRC 10:00-10:30 WJZ KWK WAPI	WBCM WBCM WDOD KLZ WNAX Enna Jet WRC WRC WRC WRC WBD WWJ WCBW WLBW WLBW WLBW WLBW WLBW WLBM WEBC WEBC WEBC WSMB	WNA-C WJAS WAIU KMBC WMT WREC KDYL WDAY WOAY WOAY WOAY WOAY WOAY WOW S, Mr. and WFBL WGHP KMOX KMOX WFBL WSPD WREC KTSA KUSA KUSA WBZA WJAX KGW	Freddie : WLBZ WLBW WLBW WLSN WUSN WUSN WULAC WORC WORC WORC WCAE WHO WCAE WHO WCAE WHO WCAE WHO KLZ KFPY the WHAS KPRC WTMI	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW WKBN KMBC WTAR WDSU KTRH KDYL KTRH KDKA	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WADC WISN WDBJ KRLD KHJ KOL KYW
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WAST KLRA KFRC 10:00-10:30 WJZ KWK KAP KO WJZ	WBCM WBCM WDOD KLZ WNAX Enna Jet WRC WRC WRC WRC WBD WWJ WCBW WLBW WLBW WLBW WLBW WLBW WLBM WEBC WEBC WEBC WSMB	WNA-C WJAS WAIU KMBC WMT WREC KDYL WDAY WOAY WOAY WOAY WOAY WOAY WOW S, Mr. and WFBL WGHP KMOX KMOX KMOX WFBL WSPD WREC KTSA KVI WBZA WJAX KGW	Freddie : WLBZ WLBW WLBW WLSN WUSN WLAC KHJ WCAC WHO MCAC WCAU WHO MCAU WHO MCAU WHO MCAU WHO MCAU WHO MCAU WHO KOIL WHO KOIL WHO KOIL WHO KOIL WHO KOIL WHO KOIL WHO KIZ KFPY MCAU WHAS KPRC WTMJ WOAI	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW WKBN KMBC WTAR WDSU KMBC KMBC KMBC KMBC WTAR WDSU KDYL KTRH KDKA WSM	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WADC WOWO WISN WDBJ KRLD KHJ KOL KYW WMC KSL WHAM
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WAST KLRA KFRC 10:00-10:30 WJZ KWK KAP KO WJZ	WBCM WBCM WBAX WNAX Enna Jett WRA KSD WWJ Graybar: WWJ WWJ Graybar: WWJ WWJ WWJ WWJ WWJ WWJ KSD WEAN WEA WEAN WBBC KFJF WBBC KFJF WBBC KFJF WBCA WSMB WSMB WSMA WSMA WSMA WSMA WSMA WSMA WSMA WSMA	WNA-C WJAS WAIU KMBC WMT WREC KDYL WJAR WJAR WJAR WJAY WOA WFAL WFAL WFAL WSPD WREC KTSA KVI ouse Salu WSPD WREC KTSA KVI WJAX KVI WJAX KVI	Freddie : WLBZ WLBW WLBN WKBN WWSN WLAC KHJ WORC WLAC KHJ WCAE WHO d Mrs. WCAU WHO d Mrs. WCAU WHO KOIL WHAS KFPY the WBAL WHAS KFPY the WHAS	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WCAO WKBY WCAO WKBW WKBN KMBC WTAR KDKA KTRH KDKA KOAO	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WMAL WMAL WMAL WAL KLD KCL KYW WMC KSL WMAM
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WAST KLRA KFRC 10:00-10:30 WJZ KWK WAPI KGO WAPI KGO KTAR KTAR 10:15-10:30	WBCM WBCM WBAX WNAX Enna Jett WRA KSD WWJ Graybar: WWJ WWJ Graybar: WWJ WWJ WWJ WWJ WWJ WWJ KSD WEAN WEA WEAN WBBC KFJF WBBC KFJF WBBC KFJF WBCA WSMB WSMB WSMA WSMA WSMA WSMA WSMA WSMA WSMA WSMA	WNA-C WJAS WAIU KMBC WMT WMT WDAY WDAY WJAR WJAR WJAR WJAK WSA WSPD WNAC KTSA KGW WSCA WSCA WSA WSCA WSZA	Freddie : WLBZ WLBW WLBN WKBN WWSN WLAC KHJ WORC WLAC KHJ WCAE WHO d Mrs. WCAU WHO d Mrs. WCAU WHO KOIL WHAS KFPY the WBAL WHAS KFPY the WHAS	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW WKBN KMBC WTAR WDSU KMBC KMBC KMBC KMBC WTAR WDSU KDYL KTRH KDKA WSM	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WADC WOWO WISN WDBJ KRLD KHJ KOL KYW WMC KSL WHAM
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WGST KLRA KLRA KLRA KLRA KLRA KLRA KLRA KLRA	WBCM WBCM WBCM KLZ WNAX Enna Jett WEEI WEAN WEAN WEAN WEAN WEAN WEAN WEAN WEAN	WNA-C WJAS WAIU KMBC WMT WDAY WDAY WDAY WJAR WGY WOW WOGH WSAC WFBL WSAC WFBL WSAC WFBL WSAC WFBL WSAC WFBL WSAC WSAC WFF WAAC WFF WAAC WSAC WSAC WSAC WSAC WSAC WSAC WSAC	Freddie : WLBZ WLBW WLBW WKBN WWSN WHAC KHJ WCAC WLAC KHJ WCAU WHO KOIL WHO KOIL WHO KOIL WHAS KFPY the WHAS KFPY the WHAS KFPY SCAH	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW WKBN KMBC WTAR WDSU KMBC KMBC KMBC KMBC WTAR WDSU KDYL KTRH KDKA WSM	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WADC WOWO WISN WDBJ KRLD KHJ KOL KYW WMC KSL WHAM
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WGST KLRA KLRA KLRA KLRA KLRA KLRA KLRA KLRA	WBCM WBCM WBCM KLZ WNAX Enna Jett WEEI WEAN WEAN WEAN WEAN WEAN WEAN WEAN WEAN	WNA-C WJAS WAIU KMBC WMT WDAY WDAY WDAY WJAR WGY WOW WOGH WSAC WFBL WSAC WFBL WSAC WFBL WSAC WFBL WSAC WFBL WSAC WSAC WFF WAAC WFF WAAC WSAC WSAC WSAC WSAC WSAC WSAC WSAC	Freddie : WLBZ WLBW WLBW WLBW WUSN WUSN WUSN WCAE WHO WTAG WCAE WHO WHO WCAE WHO WHO WLAC KLZ WHO WLAC KLZ KFPY WEAL WHAS KPRC WTAJ WFLA WCSH	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WDAF WCAO WKBW KMBC WKBN KMBC WKBN KMBC WKTAR KDKA KOA KOA KOMO WSB WSUN	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WAADC WOWO WOWO WOWO WISN WDBJ KRLD KHJ KOL KYW WMC KSL KYW WMC KSTP WRC
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WGST KLRA KLRA KLRA KLRA KLRA KLRA KLRA KLRA	WBCM WBCM WBCM KLZ WNAX Enna Jett WEEI WEAN WEAN WEAN WEAN WEAN WEAN WEAN WEAN	WNA-C WJAS WAIU KMBC WMT WDAY WDAY WDAY WJAR WGY WOW WOGH WSAC WFBL WSAC WFBL WSAC WFBL WSAC WFBL WSAC WFBL WSAC WSAC WFF WAAC WFF WAAC WSAC WSAC WSAC WSAC WSAC WSAC WSAC	Freddie : WLBZ WLBW WLBW WLBW WUSN WUSN WUSN WCAE WHO WTAG WCAE WHO WCAE WHO WCAE WHO WLAC KLZ WHO WLAC KLZ KFPY WEAL WHAS KPRC WTAJ WFLA WCSH	WFAN WKBW WWWW WCAO WTAR KRLD KFRC WTAM WFJC WCAO WKBW WDAF WCAO WKBN KMBC WKBN KMBC WKBN KMAC WSB WSUN WFI WCAU	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WAADC WOWO WOWO WOWO WISN WDBJ KRLD KHJ KOL KYW WMC KSL KYW WMC KSTP WRC
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WGST KLRA KLRA KLRA KLRA KLRA KLRA KLRA KLRA	WBCM WBCM WBCM KLZ WNAX Enna Jett WEEI WEAN WEAN WEAN WEAN WEAN WEAN WEAN WEAN	WNA-C WJAS WAIU KMBC WMT WDAY WDAY WDAY WJAR WGY WOW WOGH WSAC WFBL WSAC WFBL WSAC WFBL WSAC WFBL WSAC WFBL WSAC WSAC WFF WAAC WFF WAAC WSAC WSAC WSAC WSAC WSAC WSAC WSAC	Freddie : WLBZ WLBW WLBW WLBW WUSN WUSN WUSN WCAE WHO WTAG WCAE WHO WCAE WHO WCAE WHO WLAC KLZ WHO WLAC KLZ KFPY WEAL WHAS KPRC WTAJ WFLA WCSH	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WCAO WKBY WCAO WKBW WCAO WKBW WCAU WTAR KDKA KOMO KOMO WSB WSUN WFI WCAU WCAU	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WAAL WAAC WOWO WOWO WISN WDBJ KRLD KHJ KOL KYW WMC KSL WMC KSTP WRC WCAO
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WABC WGST KLRA KFRC 10:00-10:30 WJZ KWK WAPI KCA KTAR 10:15-11:300 WAEL WABC WABC WAAL WADC WABC	WBCM WBCM WBCM WEAL WEAL WEAL WEAN WEAN WEAN WEAN WEAN WEAN WEAN WEAN	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY WOAY WOAY WOAY WOAY WOAY WOAY WSPD WREC KTSA KVI ouse Salu WSPD WREC KTSA KVI WSPA WSPD WREC KTSA KVI OUSE Salu WJAS	Freddie : WLBZ WLBW WLBW WLBW WUSN WUSN WUSN WCAE WHO WTAG WCAE WHO WCAE WHO WCAE WHO WLAC KLZ WHO WLAC KLZ KFPY WEAL WHAS KPRC WTAJ WFLA WCSH	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WCAO WKBY WCAO WKBW WCAO WKBW WCAU WTAR KDKA KOMO KOMO WSB WSUN WFI WCAU WCAU	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WAAL WAAC WOWO WOWO WISN WDBJ KRLD KHJ KOL KYW WMC KSL WMC KSTP WRC WCAO
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WHX WFBM WFBM WFBM WFBM WFBM WFBM WCCO WGST KLRA KLRA KLRA KLRA KLRA KLRA KLRA KLRA	WBCM WBCM WBCM KLZ WNAX Enna Jett WRC KSD WWAX WEAN WEAN WEAN WEAN WEAN WEAN WEBC WSY WCKY KFSD Cuddles WGY WCAY KFSD Cuddles WCAY WDAF Grand Of WEAN	WNAC WJAS WAIU KMBC WMT WDAY WDAY WDAY WDAY WJAR WGHP WNAC KMOX WSPD WSPD WSPD WSPD WSPD WSPD WSPD WSPD	Freddie : WLBZ WLBZ WLBW WKBN WWSN WWSN WCAE WHO WCAE WHO WCAE WHO WCAE WHO WCAE WHO WCAE WHO WCAE WHO WLAC KLZ KFPY WLAC KLZ KFPY WHAS WLAC WHO WLAC WHO WLAC WLZ WLAC WLAC WLSN WLSN WLSN WLSN WKSN	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WCAO WKBY WCAO WKBY WCAO WKBW WKBN KMBC WTAR KDKA KOMO KOMO WSB WSUN WFI WCAU WFI	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WAAC WOWO WISN WDBJ KRLD KRLD KHJ KOL KYW WMC KSL KYW WMC KSTP WRC WCAO WKBW WFBM WIBW
KFH WBRC KFJF KFPY 10:00-10:15 WEAF WFI WIBO WOC 10:00-10:15 WABC WJAS WHK WFBM WCCO WABC WGST KLRA KFRC 10:00-10:30 WJZ KWK WAPI KCA KTAR 10:15-11:300 WAEL WABC WABC WAAL WADC WABC	WBCM WBCM WBCM WEAL WEAL WEAL WEAN WEAN WEAN WEAN WEAN WEAN WEAN WEAN	WNAC WJAS WAIU KMBC WMT WREC KDYL WDAY WOAY WOAY WOAY WOAY WOAY WOAY WSPD WREC KTSA KVI ouse Salu WSPD WREC KTSA KVI WSPA WSPD WREC KTSA KVI OUSE Salu WJAS	Freddie : WLBZ WLBW WLBW WLBW WUSN WUSN WUSN WCAE WHO WTAG WCAE WHO WCAE WHO WCAE WHO WLAC KLZ WHO WLAC KLZ KFPY WEAL WHAS KPRC WTAJ WFLA WCSH	WFAN WKBW WOWO WCCO WTAR KRLD KFRC WTAM WFJC WCAO WKBY WCAO WKBW WCAO WKBW WCAU WTAR KDKA KOMO KOMO WSB WSUN WFI WCAU WCAU	WIBW WDBJ KLRA KVI WCSH WSAI WGR WMAL WAAL WAAC WOWO WOWO WISN WDBJ KRLD KHJ KOL KYW WMC KSL WMC KSTP WRC WCAO

10:30-11:00 Radio-Keith-Orpheum Program WJAR WTAG WCSH WFI WGR WCAE WFJC WSAI WEAF WEEI WRC WGY WOW WSMB WOAI KTHS WHO KSD KOMO KHQ WRVA KOA KSL KGO KGW WIBO WJDX WTMJ KSTP **KVOO** WIOD WHAS WSM WMC WSB WJAX WDAF WEBC KECA WOC WBAP KFSD WFLA WPTF WSUN KTAR WWJ WKY WTAM 10:30-11:00 Cuckoo KWK WREN WBZ WBZA WJZ WJR KDKA 11:00-11:15 Anheuser-Busch Program WHK WGHP WAIU WEBM WBBM KMOX KOIL KMBC WCCO WSPD WMT WDOD WREC WDSU KLRA WRR KFJF KTSA KTRH 11:00-11:30 Vincent Lopez and His Orchestra WEAF WFI WCAF WWJ KSD WHO WSMB KOA WSAI WGY WMC WJDX WOW WOC WTAM 11:15-11:30 The Collegians WABC WEAN WNAC 5-11:30 The Con-WABC WEAN WNAC WHP WLBW WLBZ WCAU WCAO WADC WKRC WKBN WFBM KOIL KMBC WISN WCCO WIBW WBCM WSPD WMT WWNC WTAR WDBJ WBRC WDOD WREC WLAC KLRA KFJF WNAX WDAY KLZ KDYL KFPY WPG WORC WBT 11:30-12:00 Jack Albin and His Orchestra WEAF WFI WRC WOC WHO KSTP KOA WJDX Wednesday 10:30-11:00 U.S. Navy Band Concert WABC WEAN WNAC WLEZ WCAU WCAO WAAL WHP WJAS WLEW WFBL WIEC WKBW WADC WOWO KOIL KMBC WISN WBW WBCM WSPD WWNC WDBJ WGST WBRC WDOD WLAC KLRA KDYL WORC WJRC W DO W DAO MIAN 11:00-11:30 U.S. Army Band WJZ WBAL WJR KDKA WJAX WBZ WBZA KOA KDKA WREN WRVA 3:00-3:30 Matinee Gems WJZ WBAL KDKA KWK WREN CKGW WRVA WJAX WJDX WHAM WBZ WBZA 4:00-5:00 Radio Guild WLW WBAL WHAM CKGW KFAB WJAX WSM KTHS WBAP KOA WREN KFSD WJZ KSTP KGO 5:00-5:15 The Columbia Grenadiers WABC WFAN WCAO WMAL WHP WADC WKRC WAIU WBBM KOIL WMAK KMBC WTAR WOBJ WGST WDOD WMT WWNC KRLD KLRA KFJF KL7 WLAC KRLD KLRA KFJF WDAY WBT KFPY WPG 5:15:5:45 Footnotes - Freddie Rich WFAN WCAO WMAL WHP WABC WKBW WADC WKRC WAIU WBBM KOIL KMBC WBCM WSPD WMT WISN WIBW WGL WWNC WTAR WDBJ WGST WDOD WREC KLRA KFPY KFJF KDYI. WLAC KRLD KFRC KVI KLZ WDAY WPG KOL WBT 6:00-6:40 Jack Albin and His Orchestra WJZ WBAL WREN KFAB KSTP WHAS WSM WAPI KOA KGO KTAR WSM WAPI KOA KGO KTAR 7:15-7:30 Ted Fiorito and His Orchestra WABC WLBZ WCAU WCAO WHP WJAS WLBW WFBL WHEC WKBW WADC KMBC WISN WCCO WIBW WGL WBCM WMT WWNC WDBJ WBRC WDOD WREC KLRA KFJF KLZ KDYL KVI KFPY WPG WDAY WORC KOL 7:45-8:00 Dic-a-Doo Entertainers WJZ WBZ WBZA WBAL WHAM KDKA KYW KWK WREN KFAB KSTP WEBC 7:45-8:00 Esther Leaf at the Organ WABC WEAN WNAC WLBZ WCAU WCAO WMAL WHP WJAS WLBW WHEC WKBW

WKRC WKBN KMBC WISN WBCM WSPD WWNC WDBJ WBRC WDOD KLRA KFJF KLZ KFRC KVI KFPY KOL WORC WBT WB1 7:45-8:00 "Back of the News in Washington" WEAF WRC KOA WTAG KSL KCO WCSH WGY WCAE WFJ WRC KOA WCSH WGY KSL WFJC KECA KGO KGW WCAE WRVA KOMO KFSD WJAX WSAI WIRO WOC WHO WOW WDAF KSD WSM WAPI KTHS KPRC WKY 8:00-8:30 East of Cairo WEAF WCSH WGR WOC WJDX WSMB WJAR KGO WOW WEEI_WTAM WDAF WWJ KGW WHO 8:00-8:30 The Yeast Foamers WJZ WBZ WBZA WHAM KDKA KYW KWK WREN KSTP WEBC WLW KFAD кwк **KFAB** WTMJ 8:00-8:30 Manhattan Moods WABC WEAN WNAC WLBZ WCAO WHP WJAS WLBW WFBL WHEC WKBW WADC WFBM WMAQ KMOX KOIL WCCO WIBW WGL WBCN WWNC WTAR WDBJ WBRC KFJF KLZ KFRC KVI WAIU KMBC WBCM WSPD WBRC WDOD WMT KLRA KFJF KEPY WBT WPG KOL WDAY WORC 8:30-9:00 Mobiloil Concert WEAF WEEI WJAR WRC WGR WWJ WTAG WCSH WLIT WSAI KVOO WTIC KSD WOW WFJC WTAM KOA WOAI WKY KSL WFAA KPRC WGN WGY WEBC WTMJ WDAF WCAE WHO WOC 8:30-9:00 Sylvania Foresters 8:30-9:00 Sylvania Foresters WJZ WBZ WBZA WHAM KDKA WREN KWK KYW KFAB WLW 8:30-9:00 Forty Fathom Trawlers WABC WEAN WNAC WCAU WCAO WMAL WHP WJAS WLBW WFBL WHEC WKBW WADC WHK WKRC WGHP WOWO WFBM WMAQ KMOX WSPD 9:00-9:30 Halsey, Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WCAE WGR WWJ WSAI KSD WOC WOW KSTP WJAX WHAS WMC WSB WSMB KVOO KOA KPPC WMC WSB WSMB KVOO KOA KPRC WMC WSB WSB KIOU KOA KIRC WOAI KGO KOMO KHQ KGW WSM KSL CKGW KECA WTMJ WHO 9:00-9:30 U.S. Marine Band Concert WABC WEAN WNAC WLBZ WCAO WMAL WHP WJAS WLBW WADC WKRC WAIU WOU'C WTDM WLACO WAUL KING WIDS WOAI KGO WOWO WFBM WMAQ KOIL WCCO WIBW KFH WBCM WWNC WTAR WDBJ WGST KMBC WISN WBCM WSPD WMT WGST WBRC WDOD KLZ KDYL WNAX WDAY WLAC KRLD KLRA KFRC KVI KFPY KFJF WPG KFRC WBT WORC WBT 9:15-9:30 O Cedar Time W.IZ WBZ W WBZA WLS KWK WREN KDKA WHAM WJR KDKA WHAM WJK 9:30-10:00 La Palina Smoker 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 Camel Pleasure Hour WJZ WBZ WBZA WHAM KDKA WREN WLW KYW WSJS WPTF WRVA WJR KWK 9:30-10:30 Palmolive Hour WTAG WCAE WEEI WTIC WJAR WCSH WEAF WWJ WLIT WRC WGY WGR KSD WGN WOC WOW WSMB WSAI WGN KSD WOC WTMJ WHAS WSM WJAX KVOO WOAI KGW KOMO KHQ WMC WHO KSTP KSL KOA WSB WFAA KECA KGO KPRC 10:00-11:00 Phileo Symphony Concert WABC WEAN WNAC WCAU WACO WMAL WJAS WLBW WFBL WMAK WADC WHK WKRC WGHP WOWO WMAQ KMOX KOIL KMBC WSPD 10:30-11:00 Coca Cola Program WEAF WEEI WTIC WJAR WTAG WCSH WLIT WRC WGR WCAE WWJ WSA1

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WJAX	WIOD	WSM	WSMB	WKY	KTHS
KPRC	WOAI	KOA	KSL	KGO	KECA
KGW	KHQ	KOMO	WJDX	WGY	CKGW
WDAF	WHAS	WPTF	WTMJ	KV00	WTAM
WHO	WOW	KFSD	WMC	WSB	

11:00-11:15 Vincent Lopez Orchestra WEAF WFLA WSUN WRC WCAE WWJ WSAI KSD WOC WHO WOW KSTP WJDX WKY

1

1:30-12:00	California	Melodie	\$		
WABC	WEAN	WNAC	WLBZ	WCAU	WCAO
WMAL	WADC	WFBM	KOll	KMBC	WISN
WCCO	WIBW	WBCM	WSPD	WMT	WWNC
WTAR	WDBJ	WGST	WBRC	WDOD	WREC
WLAC	KLRA	KFJF	KLZ	KDYL	KHJ
KFRC	KFPY	KOL	WNAX	WDAY	WORC
WBT					

12:00-12:30	Bert Low	n and Hi	s Orches	ra	
WABC		WNAC			WMAL
WADC	WHK	WKRC	WKBN	WFBM	KOIL
KMBC	WISN	WCCO		KFH	WBCM
WSPD	WMT	WWNC		WDBJ	WBRC
WDOD		KRLD		KFJF	KFPY
KOL	WNAX	WDAY	WBT		

Thursday

			•		
10:15-10:30 0	Cedar T	ime	~		
WJZ W	BZ V	NBZA	WHAM	KDKA	WJR
		VRVA	WPTF	WJAX	WIOD
		VSB	WJDX	WSMB	KV00
		KFKX	KWK	KSTP	WEBC
	SUN I	XPRC	KFAB		
11:00-11:15 Bor	n Ami R	adio Ma	tinee		
		ATAG	WCSH	WLIT	WRC
	GR V	VCAE	WTAM	WWJ.	WSAI
		KSD	WDAF	WEBC	WRVA
WJAX W	IOD V	NHAS	WSM	WMC	WSB
		KV00	KTHS	KPRC	WOAI
		VTIC	WKY	WHO	KSTP
11:30-11:45 Ipa	na Trou	badours			
	JR V	VBZ	WBZA	WHAM	KWK
		XYW	WCKY		
WILDIN K			WORI		
4:00-4:30 The (ollegia	ns		III O L II	mana
		VNAC	WLBZ	WCAU	WCAO
WMAL W	HP V	VMAK	WADC	AWIU	WKBN
WOWO K	OIL H	(MBC	WISN	WCCO	WIBW
		VMT	WWNC	WTAR	WDBJ
		VDOD	WREC	WLAC	KRLD
		KLZ	KDYL	KHJ	KVI
		KOL	WDAY	WORC	WBT
5:00-5:30 Radio	⊢Keith-	Orpheur	n Progra		
WEAF W	EEI V	VTIC	WJAR	WCSH	WLIT
WRC W	FJC V	VSAI	KSD	WOC	WOW
		VTAM	WWJ	WDAF	WGR
		VHO		W D.11	W CLIG
5:30-5:45 The]	oddy P	arty		WITH CO.	WOOT
		NTIC	WJAR	WTAG	WCSH
WLIT W		VGY	WGR	WCAE	WSAI
KYW CI	KGW	WWJ			
7:00-7:30 Mid-		ederatio	n Hymn	Sing	
		VIBO	WWJ	WGR	WJAR
		KOA		went	
WHAS K	SD 1	NUA			
7:30-8:00 Ward WABC W	8 I I P I	op Club			111110
WABC W	EAN V	NAC .	WCAU	WCA0	WJAS
WFBL W	HK V	VGHP	WKBN	KMOX	
8:00-8:15 Symp	honic Ir	nterlude			
	LBZ V	VFAN	WHP*	WJAS	WLBW
		VADC	WKBN	WOWO	WFBM
	OIL V	VISN	WCCO	WIBW	KFH
			WTAR	WDBJ	WBRC
		WWNC			
		ΚLΖ	KFRC	KVI	KFPY
WPG K	OT N		WORC	WBT	
8:00-9:00 Fleise	01. 1	NDAY			
			Rudy Va		
WEAF W	hmann	Hour -	Rudy Va	llee	WFI
	hmann EEI V	Hour	Rudy Va WJAR	WCSH	
WRC W	hmann EEI GY V	Hour — WTAG WGR	Rudy Va WJAR WCAE	WCSH WFJC	WHO
WRC W WOW W	hmann EEI GY DAF V	Hour — WTAG WGR WWJ	Rudy Va WJAR WCAE WTMJ	WCSH WFJC WJAX	WHO WIOD
WRC W WOW W WJDX W	hmann EEI GY DAF HAS	Hour — WTAG WGR WWJ WMC	Rudy Va WJAR WCAE WTMJ WSB	WCSH WFJC WJAX WSMB	WHO WIOD WKY
WRC W WOW W WJDX W WSAI K	hmann EEI GY DAF HAS OA	Hour — WTAG WGR WWJ WMC WEBC	Rudy Va WJAR WCAE WTMJ WSB WRVA	WCSH WFJC WJAX WSMB KSL	WHO WIOD WKY KOMO
WRC W WOW W WJDX W WSAI K WOAI W	hmann EEI GY DAF HAS OA SM I	Hour — WTAG WGR WWJ WMC WEBC KGO	Rudy Va WJAR WCAE WTMJ WSB WRVA KHQ	WCSH WFJC WJAX WSMB KSL WBAP	WHO WIOD WKY KOMO KTHS
WRC W WOW W WJDX W WSAI K WOAI W	hmann EEI GY DAF HAS OA SM I	Hour — WTAG WGR WWJ WMC WEBC	Rudy Va WJAR WCAE WTMJ WSB WRVA KHQ CKGW	WCSH WFJC WJAX WSMB KSL WBAP WTAM	WHO WIOD WKY KOMO KTHS KGW
WRC W WOW W WJDX W WSAI K WOAI W WAPI K	hmann EEI GY DAF NAS OA SM I ECA I	Hour — WTAG WGR WWJ WMC WEBC KGO	Rudy Va WJAR WCAE WTMJ WSB WRVA KHQ	WCSH WFJC WJAX WSMB KSL WBAP	WHO WIOD WKY KOMO KTHS

8:00-9:00 B.	A Rolfe	and Luck	v Strike	Orchestr	
WJZ	WBAL	WHAM		WJR	KYW
KWK	WREN				
8:15-8:30 Th		y Musket WNAC	eers WLBZ	WCAO	WMAL
WABC WHP	WEAN WJAS	WLBW	WKBW	WADC	WMAL
WAIU	WOWO	WFBM	WBBM	KÖIL	WISN
WCCO	WIBW	KFH	WSPD	WMT	WWNC
WTAR	WDBJ	WDOD	KLRA	KFJF	KLZ
KHJ	KFRC WORC	KVI WBT	KFPY	₩PG	KOL
WDAY 8:45-9:30 M					
8:45-9:30 M WABC	WEAN	WNAC	WLBZ	WCAU	WCAO
WMAL	WHP	WJAS	WLBW	WHEC	WKBW
WADC	WHK	WKRC	WAIU	WKBN	WOWO
WFBM	WBBM	KMOX	KOIL	KMBC	WISN
WCCO WTAR	WIBW WDBJ	KFH WGST	WSPD WBRC	WMT WDOD	WWNC WREC
WLAC	KLRA	KFJF	KLZ	KVI	KFPY
WPG	WNAX	WDAY	WORC	WBT	
9:00-9:30 Ar	co Birthd	av Partv			
WEAF	WEEI	WJAR	WTAG	WCSH	CKGW
WFI	WRC	WGY	WGR	WSB	WSM
WIOD	WJAX	WOAI WWJ	KOA WSAI	KSL KSD	WKY WDAF
WBAP KYW	WRVA WCAE	WEBC	WSMB	WJDX	WOC
WPTF	WFJC	WTMJ	WMC	KGO	KECA
комо	KHQ	KGW	WHO	WOW	WAPI
KSTP					
9:00-9:30 Kr					171517.4
WJZ WIBO	WBZ KWK	WBZA WREN	WBAL WCKY	WHAM WJR	KDKA
9:30-10:00 J					
WEAF	WJAR	WWJ	WTAG	WCSH	WFT
WRC	WGY	WGR	WCAE	WSAI	WTAM
WIBO					
9:30-10:00 D				THO I D	
WABC WJAS	WEAN WLBW	WNAC WFBL	WCAU WKBW	WCAO WADC	WMAL WHK
WKRC	WGHP	wowo	WBBM	KMOX	KOLL
КМВС	WSPD				
9:30-10:00 N	laxwell F	louse En:	semble		
WJZ	WBZ	WBZA	WBAL	WLW	KSTP
WKY	WTMJ	WEBC	WHAS	WSM	KPRC KYW
KOA KWK	WJAX WREN	WRVA WIOD	WSB WJR	WBAP WSMB	WOAI
NWK	IT TOTAL	1100	TONO	TUDALD	IT A DI

KWK WREN WIOD WID WSM WOAI KGO KECA KGW KOMO KHQ WAPI WPTF CKGW WMC WHAM KDKA KSL 10:00-11:00 Victor Herbert Opera Series WJZ WBAL WHAM WCKY WREN CKGW

WJZ WBAL WHAM WCKY WREN CKGW KDKA

10:00-10:30 Romany Patteran WABC WEAN WNAC WLBZ WCAU WCAO WMAL WIIP WJAS WLBW WHEC WKBW WADC WHK WKRC WOWO WFBM WBBM KMOX KMBC WISN WCCO WIBW KFH WSPD WMT WTAR WDBJ WGST WBRC WDOD WLAC KLRA KFJF KLZ KFRC KVI KFPY KOL WNAX WDAY WORC WBT

WB1 10:00-11:00 RCA Hour WEAF WEEI WJAR WTAG WRC WGY WGR WCAE WCU WGY WGR WCAE WCSH WFJC WOAI WFI ŵŵĴ KOA WMC WHAS WSM KSL WTMJ WSMB KYW WIOD WHAS WDAF WJAX KTHS WTAM KSTP KGO KGW KFI WJDX WEBC WRVA WAPI KOMO KHQ WFLA WSUN WBAP WSB 11-00-11-15 Hotel Paramount Orchestra

WEAF WFI WRC WGR WCAE WWJ WSAI KSD WOC WHO WMC WSM WJDX		3
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HIGO-11:30 Rhythm Ramblers WABC WEAN WNAC WLBZ WCAU WMAL WHP WLBW WHEC WKRC WOWO KMBC WISN WCCO WIBW KFH WSPD WMT WWNC WTAR WDBJ WGST WBRC WDOD WREC WLAC KLRA KFJF KLZ KDYL KFRC KFPY WDAY WNAX WORC

11:30-12:00 WEAF WOC	Don Bige WRC WHO	low and WGR WOW	His Orch WWJ CKGW	estra KSD WFI	WJDX KSTP
11:30-12:00 WABC WHP KMBC WWNC WREC WBT	Guy Lom WEAN WLBW WISN	bardo an WNAC WHEC WCCO WDBJ KLRA KOL	d Royal WLBZ WADC WIBW WGST KFJF WNAX	Canadian WCAU WKBN KFH WBRC	
12:00-12:30 WABC WLBW WISN WWNC WREC KVI	Paul Tre WEAN WADC WCCO WTAR KLRA KFPY	WNAC WKRC WIBW WDBJ KFJF WDAY	d His Or WLBZ WFBM KFH WGST KLZ WNAX	chestra WCAU KOIL WSPD WBRC KDYL	WMAL KMBC WMT WDOD WBT
		Frid			
11:00-11:30 WJZ WBZ	U.S. Arm WBAL WBZA	y Band WHAM	KDKA	WJR	WIBO
4:00-4:30 U. WEAF WDAF	S. Army KSD WEEI		WTAM	woc	WHO
4:30-5:00 Da WEAF WOC	WFJC WHO	elodies KSD	WDAF	WRC	WCAE
7:45-8:00 Be WEAN WHEC WWNC KLZ	rnhard L WLBZ WKBW WDBJ KFRC	W BRC KVI	d Orche: WJAS KMBC WDOD KFPY	str a WLBW WISN KLRA KOL	WFBL WBCM KFJF WORC
8:00-8:30 Ni WABC WKBW WFBM WSPD WREC KFPY	WMT KLRA WPG	WHP WHK WISN WWNC KLZ KOL	WJAS WKRC WCCO WTAR KHJ WDAY	WLBW WAIU WIBW WDBJ KFRC WORC	WHEC WOWO WBCM WDOD KVI WBT
8:00-9:00 Cit WEAF WCAE WOW WOC KOMO WTAG 8:05-8:30 Pic WJZ	KOA KGO CKGW	KSTP WFAA KGW KECA	rt Orches WLIT WCSH WTMJ WSAI KHQ WHO	WRC KYW WKY WEBC KPRC	WGR KSD WWJ WOAI KSL
WJDX	WSMB	KFAB	WSM	WLS	WHAM
8:30-9:00 U.S WABC WHP WMAQ WWNC KLRA KFPY 8:45-9:00 Na	WEAN WJAS KMBC WTAR KFJF KOL	Band Con WNAC WLBW WISN WDBJ KLZ WNAX	WLBZ WAIU WBCM WBRC KDYL WDAY	WCAU WOWO WSPD WDOD KFRC WORC	WMAL WFBM WMT KRLD KVI WBT
WJZ WJAX WBZ	WPTF WIOD WBZA	WHAM KFAB	KDKA WIBO	KWK WREN	WRVA WLW
9:00-9:30 Cli WEAF WLIT WIBO WHO		ib Eskima WTIC WGY WWJ	WJAR WOW WGR	WTAG WCAE WDAF	WCSH WSAI WOC
9:00-9:30 Inte WJZ KPRC WSB KOMO WSMB KYW	WHAM KFSD WJAX KHQ WIOD WEBC	Program KDKA WOAI WRVA KWK WFAA KECA	WMC KOA WAPI WBZ WJR WCKY	WKY WHAS KSL WBZA WTMJ CKGW	WREN WSM KGO KGW KSTP
9:00-10:00 Tr WABC WJAS WKRC KMBC	we Story WEAN WLBW WGHP WSPD	Hour WNAC WFBL WOWO	WCAU WMAK WMAQ	WCAO WADC KMOX	WMAL WHK KOIL

9:30-10:00 WJZ KSTP KOA KOMO WTMJ KECA	WEBC KSL KHQ WAPI	Program WBZA WRVA WKY WJAX WHAM WLAW	WJR WMC WHAS WJDX KWK WSMB	KYW WSB KGO WIOD WPTF	WREN WOAI KGW KDKA WFAA
NECA 10:00-10:30 WJZ WREN WEBC WSMB KGO	WHAS KOA WMC	WHAM WSM KSL WLW	KDKA WJR WSB KGW KFI	KYW KSTP WOAI KOMO WFAA	KWK WTMJ WKY KHQ
10:00-10:30 WABC WJAS KMOX KFH WBRC KLZ WPG	Columbia WEAN WLBW KOIL WSPD WDOD KDYL KOL	WNAC WADC KMBC WMT WREC WBT WNAX	WLBZ WHK WISN WWNC KRLD KFRC WDAY	WCAU WKRC WCCO WTAR KLRA KVI WORC	WCAO WMAQ WIBW WDBJ KFJF KFPY
10:00-11:00 WEAF WHO WGY KSD KECA WJDX	WGR WOC KGW WSMB	WCAE WSM KHQ WAPI	WTAG WLIT WWJ KOMO KGO WHAS	WMC WRC WSAI WDAF KSL	WSB WOW WIBO KOA WPTF
10:30-11:00 WJZ WBZ	WHAM WBZA	KDŘA WLW	WREN	WJAX KSTP	WIOD
10:30-11:00 WABC WJAS WKRC KOIL WSPD KFJF KFPY	WLBW WGHP KSCJ WTAR KLZ WLAP	WFBL WAIU KMBC WDBJ KDYL	reight WCAU WMAK WOWO WISN WREC KHJ	WCAO WADC WBBM WCCO WLAC KFRC	WMAL WHK KMOX KFH KLRA KOIN
11:00-11:15 WJZ WREN WSM KTHS KECA WBAP	Elgin Pro WBZ KFAB WSB KPRC KGW WMC	gram WBZA WEBC WJDX WOAI KOMO KFSD	WHAM WRVA WSMB KOA KHQ KSTP	KDKA WJAX KVOO KSL WIBO	KWK WIOD WKY KGO WLW
WEAF KSD	Vincent L CKGW WTIC	WOW	hestra WWJ WHO	WDAF KSTP	WRC KOA
11:00-11:30 WABC WLBW WIBW WDBJ KFJF WNAX	WEAN WKRC WBCM WGST KLZ WDAY	WNAC KOIL WSPD WDOD KFRC WORC	WLBZ KMBC WMT WREC KFPY	WCAO WISN WWNC WLAC WPG	WMAL WCCO WTAR KLRA WBT
11:30-12:00 WABC WMAL WCCO WDBJ KLRA KOL 12:00-12:30	WHI Usba WEAN WHEC WIBW WGST KFJF WNAX Cotton Cl	WNAC WADC WBCM WBRC KLZ WDAY	His Orch WLBZ KOIL WMT WDOD KDYL WORC	estra WCAU KMBC WWNC WREC KFPY	WCAO WISN WTAR WLAC WBT
WABC WADC WCCO WWNC WREC WBT	WEAN WHK WIBW WTAR KLRA WNAX	WNAC WKRC KFH WDBJ KFJF WDAY	WLBZ KOIL WBCM WGST KLZ	WCAU KMBC WSPD WBRC KDYL	WMAL WISN WMT WDOD KFPY
	S	Satur	day		
10:30-11:30 WABC		WNAC		WCAU	WCAO

WABC	WEAN	WNAC	WLBZ	WCAU	WCAO
WMAL	WHP	WJAS	WHEC	WKBW	WADC
WHK	WKRC	WAIU	KMOX	KOIL	KMBC
WISN	WIBW	KFH	WBCM	WSPD	WWNC
WDBJ	WGST	WBRC	WDOD		WLAC
KRLD	KLRA	KFJF	KDYL	WPG	WORC
WBT					

2:30-3:00 Dominion Male Quartet WABC WEAN WNAC WLBZ WCAU WCAO WJAS WHEC WMAK WADC WMAL WHP WAIU WOWO WIBW WBCM WSPD WHK WWNC WTAR WDBJ WBRC KLRA KFJF KFPY WPG WDOD WLAC WORC WBT 4:00-5:00 Merry Makers — Dance Band WJZ WLW KDKA WBAP KFAB WBZ WBZA KYW WHAM WTMJ KOA 4:30-5:00 The Gauchos WABC WEAN W WCAU WCAO WMAL WNAC WMAK WADC WHK WKRC WAIU WHP WFBM KMOX KMBC WISN WKBN KOIL WMT WWNC WSPD WCCO WIBW WBCM WDOD WREC WTAR WDBJ WGST WBRC KLZ KLRA KFJF KDYL WLAC KRLD WPG KOL WDAY KHJ KVI WBT 4:30-5:00 Mellow Melodies WEAF WTIC WCAE WTAM WDAF WRC KSTP KTHS WFAA WTMJ WTAG WBAP WSB 5:30-6:00 Blue Aces W.IZ WBZ WBZA WHAM WHAS KWK WSB WFAA 6:00-6:15 The Jameses WEAF WEEI WGY WRC WJAR WFI CKGW KOA WCAE KGO WWJ KSD KTAR WHAS WFAA WOW WMC 6:00-6:15 Tom, Dick and Harry wнр WJAS WLBW WABC WFAN WMAL WKBW WAIU WKBN WBBM KMOX WHEC KMBC WISN WIBW KFH WBCM WMT WWNC WTAR WGST KRLD KLRA KFJF KFRC KVI KFPY WBRC WDOD WREC KDYL KHJ KOL WDAY WBT 6:00-6:40 Hotel Governor Clinton Orchestra WJZ WBZ WBZA WHAM KWK KFAB 6:15-6:45 Ted Husing's Sportslants WABC WMAL WHP WJ WLBW WHEC WJAS WAL WHY WAR KMBC KFH WBCM WMT WWNC WDOD WREC KRLD KLRA KHJ KVI KFPY KOL WISN WKBW WAIU WWNC WGST WIBW KLRA KFJF WBRC WDA Y KLZ WBT 7:15-8:00 Jack Denny and His Orchestra WABC WEAN WNAC WLBZ WCAU WJAS WLBW WFBL WKBW WADC WHP WAIU WJAS WOWO WFBM KOIL WISN WCCO WKBN WBCM WMT WWNC WDBJ WIBW KFH KRLD KLRA KFJF KFRC KVI KFPY WDOD WREC WBRC KFPY KDYL KHJ WDAY WORC KLZ KOL WBT 7:30-8:00 The Fuller Man WJZ WBZ WB WBZA WHAM WLW CKGW KWK KOA WEBC KSL KGO WREN KFAB KGW KOMO KYW KHQ KECA WTMJ KSTP KVOO KPRC KDKA 7:30-8:00 Phil Spitalny's Music WEAF WJAR WTAG WGY WEVA WGR WRC WCSH WTAM WWJ WRVA WGR WRC WCSH WHO WOC WOW 8:00-8:15 Dixies Circus KDKA KYW WBAL WBZA WBAP KSTP WHAM WJZ WLW KV00 WBZ WBZA WJR KPRC WKY WOA 8:00-8:30 "Pop" Concert WEAF WEEI WJ WTAG WCSH WFI WEAF WJAR WGR WCAE KGO WSAI WSMB WGY WRC WJDX KOA WHO WOW KGW KSD WTMJ WDAF WW.J WOC WHO 8:15-8:30 Wonder Dog WHAM KDKA WLW KYW WREN KFAB WJR KWK 8:30-9:00 Dixie Echoes WABC WNAC V WCAO WMAL WLBZ WLBW WFAN WADC WAIU WOWO WJAS WHP WJAS WLBW KMBC WISN WWNC WTAR KFJF KLZ WBCM WSPD KFH WFBM WDBJ WBRC WDOD WMT KHJ WBT KFRC KLRA WNAX WDAY KFPY WORC KOL KVI 8:30-9:30 The Mendelssohn Choir WEAF WEEI WJAR W WGR WPTF CKGW WCSH WFI WRC

8:30-9:30 Go	ldman Ba	nd Conc	ert	WEEL A	WSUN
WJZ KOMO	KGO KOA	KGW WBAL	CKGW WJAX	WFLA WBAP	WHAM
KDKA	KWK	WBAL WREN	KFAB	WSMB	KSTP
WPTF	WSM	WSB	WJDX		
9:00-10:00 H	ank Simr WEAN	nons' Sh WNAC	WLBZ	weau	WCAO
WABC WMAL	WHP	WINAC	WLBW WFBM	WCAU WADC WMAQ	WHK
WKRC	WHP WKBN	WOWO	WFBM	WMAQ	KMOX
KOIL WBCM	KMBC WSPD	WISN WMT	WCCO WWNC	WIBW WTAR	KFH WDBJ
WGST	WBRC	WDOD	WREC KHJ	WLAC KFRC	KLRA
KFJF	KLZ	WDOD KDYL WNAX	KHJ WDAY	KFRC WORC	KVI WBT
KFPY	WPG	WNAA		WORC	WDI
9:30-10:00 G WEAF WRC	WEEI	WJAR	WTAG	WCSH	WFI
WRC	WGY	WCAE WTMJ	WTAM	WWJ WJAX WSAI	KSD
WOW WSB	WDAF KPRC	WOAI	WEBC WRVA KGW	WSAI	WHAS KSTP
WSB WAPI KSL	KPRĊ WKY KGO	KOA	KGW	KOMO	KHQ
KSL KECA	KGO KFSD	WSMB KTAR	WIBO WGR	WMC WOC	WBAP WHO
9:30-10:00 D					
WJZ KWK	WBAL KYW	WHAM WREN	KDKA	WLW WBZA	WJR
			WBZ	WBZA	
10:00-10:15 WJZ	Cub Kepo KDKA	WCKY	WREN	CKGW	WBZ
WBZA					
10:00-11:00 WABC WMAL	Paramoui	nt Publix	Hour	WCAU	WCAO
WABC WMAL WHEC	WEAN WHP	WIAS	WLBZ WLBW	KTRH	WFRL
WHEC	WKBW	UFRD	URAU	WADC WOWO KMBC	WHK WFBM WISN
WKRC WBBM	WGHP	WDAE KOIL	WKBN KSCJ	WOWO KMBC	WFBM
WCCO	KMOX WIBW	WNAX	KFH	WBCM	WSPD
WMT	WWNC	WTAR	WDBJ WREC KFJF		WSPD WBRC WDSU
WFIW KRLD	WDAY KLRA	WDOD WRR	WREC	W LAU	KLZ
			KFJF		
KDYL	KHJ	KFRC	KOIN	WLAC KTSA KFPY	WPG
WCAH	KHJ KNX	KFRC WDBO	WTOC	WQAM	WPG KOL
KDYL WCAH 10:00-11:00 WEAF	KHJ KNX	KFRC WDBO	WTOC w Strike	WQAM Orchestra	WPG KOL WRC
KDYL WCAH 10:00-11:00 WEAF	KHJ KNX	KFRC WDBO	WTOC WTOC WTAG WWJ	WQAM Orchestra WFI WGN	WPG KOL WRC KSD
KDYL WCAH 10:00-11:00 WEAF	KHJ KNX B. A. Rol WEEI WGR WOW	KFRC WDBO fe's Luck WJAR WCAE WDAF	KOIN WTOC Sy Strike WTAG WWJ WIOD	WQAM Orchestra WFI WGN	WPG KOL WRC KSD WTMJ WMC
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI	KHJ KNX B. A. Rol WEEI WGR WOW WJAX	KFRC WDBO fe's Luck WJAR WCAE WDAF	WTOC WTAG WWJ WIOD WSB WSAI	WQAM Orchestra WFI WGN	WPG KOL WRC KSD WTMJ WMC KOA
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI	KHJ KNX B. A. Rol WEEI WGR WOW WJAX WKY KSL	KFRC WDBO fe's Luck WJAR WCAE WDAF WHAS WAPI KGW	KOIN WTOC Sy Strike WTAG WWJ WIOD WSB WSAI KOMO	WQAM Orchestra WFI WGN KSTP KPRC WFJC KHQ	WPG KOL WRC KSD WTMJ WMC KOA WEBC
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB	KHJ KNX B. A. Rol WEEI WGR WOW WJAX	KFRC WDBO fe's Luck WJAR WCAE WDAF WHAS WAPI KGW WRVA KTAR	WTOC WTAG WWJ WIOD WSB WSAI	WQAM Orchestra WFI WGN	WPG KOL WRC KSD WTMJ WMC KOA
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO WJDX WOC 10:15-10:30	KHJ KNX B. A. Rol WGR WGR WJAX WJAX WYAX KSL WPTF KFI Broadwa	KFRC WDBO fe's Luck WJAR WCAE WDAF WHAS WAPI KGW WRVA KTAR	KOIN WTOC WTAG WWJ WIOD WSB WSAI KOMO WCSH KFSD	WQAM Orchestra WFI WGN KSTP KPRC WFJC KHQ WFLA WBAP	WPG KOL WRC KSD WTMJ WMC KOA WEBC
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO WJDX WOC 10:15-10:30 WJZ	KHJ KNX B. A. Rol WGR WOW WJAX WKY KSL WPTF KFI Broadwa KDKA	KFRC WDBO fe's Luck WJAR WDAF WHAS WAPI KGW WRVA KTAR y Lights KWK	KOIN WTOC WTAG WUJ WIOD WSB WSAI KOMO WCSH KFSD WREN	WQAM Orchestra WFI WGN KSTP KPRC WFJC KHQ WFLA WBAP CKGW	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO WJDX WOC 10:15-10:30 WJZ	KHJ KNX B. A. Rol WGR WOW WJAX WKY KSL WPTF KFI Broadwa KDKA	KFRC WDBO fe's Luck WJAR WDAF WHAS WAPI KGW WRVA KTAR y Lights KWK	KOIN WTOC WTAG WUJ WIOD WSB WSAI KOMO WCSH KFSD WREN	WQAM Orchestra WF1 WGN KSTP KPRC WFJC KHQ WFLA WBAP CKGW WOC	WPG KOL WRC KSD WTMJ WMC KOA WEBC
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO WJZ 11:00-11:15 WEAF WDAF L1:00-11:30	KHJ KNX B. A. Rol WEEI WGR WOW WJAX WKV KSL WPTF KSL Broadwa KDKA Troubad WFI WIO	KFRC WDBO fe's Luck WJAR WCAE WDAF WHAS WAPI KGW WRVA KTAR y Lights KWK WRVA KTAR y Lights KWK	KOIN WTOC WTAG WUJ WIOD WSB WSAI KOMO WCSH KFSD WREN WREN WCAE WAPI Wic API	WQAM Orchestra WFI WGN KSTP KPRC WFJC KHQ WFLA WBAP CKGW WCC WSMB	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO WJZ 11:00-11:15 WEAF WDAF L1:00-11:30	KHJ KNX B. A. Rol WEEI WGR WOW WJAX KSL WYIX KSL KFI Broadwa KDKA Troubadu WFI WIOD Will Osb	KFRC WDBO fe's Luck WJAR WCAE WDAF WHAS WAPI KGW WRA KTAR KTAR KTAR KTAR KTAR KTAR KTAR KT	KOIN WTOC WTAG WUJ WIOD WSB WSAI KOMO WCSH KFSD WREN WREN WCAE WAPI Wic API	WQAM Orchestra WFI WGN KSTP KPRC WFJC KHQ WFLA WBAP CKGW WCC WSMB	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO WJZ 10:15-10:30 WJZ 11:00-11:15 WEAF WDAF 11:00-11:30 WABC WCAO	KHJ KNX WEEI WGR WOW WJAX WKY KSI Broadwa KDKA Troubad WFI WIOD WIOD WIO Osb WEAN WMAL	KFRC WDBO fe's Luck WJAR WCAE WDAF WHAS WAPI KGW WRA KTAR KTAR KTAR KTAR KTAR KTAR KTAR KT	KOIN WTOC WTAG WUJ WIOD WSB WSAI KOMO WCSH KFSD WREN WREN WCAE WAPI Wic API	WQAM Orchestra WGN KSTP KPRC WFJC KHQ WFLA WBAP CKGW WOC WSMB hestra WFAN WHEC KOIL	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WCAU WADC KMBC
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO WJZ 11:00-11:15 WEAF WEAF 11:00-11:15 WEAF WABC WABC WABC WABC WKRC WKRC WISN	KHJ KNX B. A. Rol WEEI WGR WOW WJAX WKJ KSL KDKA Troubad WFI WIOD WII Osb WEI WIOD WII Osb WEAL	KFRC WDBO fe's Luck WJAR WCAE WDAF WDAF KOW KGW WRVA KTAR VLights KWK WRVA KSTP orne and WNAC WHP WFBM WFBM	KOIN WTOC WTAG WTAG WTAG WTAG WSB WSB WSB WSB KOMO WCSH KFSD WREN WCAE WAPI His Orel WLBZ WLBZ WLBZ	WQAM Orchestra WGN KSTP KPRC WFJC KHQ WFLA WBAP CKGW WOC WSMB hestra WFAN WHAN KOIL WBCM	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WCAU WADC KMBC
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO WJDX WOC 10:15-10:30 WJZ 11:00-11:15 WEAF WDAF 11:00-11:30 WABC WCAO WKRC WISN	KHJ KNX B. A. Rol WEEI WGR WOW WJAX WKJ KSL KDKA Troubad WFI WIOD WII Osb WEI WIOD WII Osb WEAL	KFRC WDBO fe's Luck WJAR WCAE WDAF WDAF KOW KGW WRVA KTAR VLights KWK WRVA KSTP orne and WNAC WHP WFBM WFBM	KOIN WTOC WTAG WTAG WTAG WTAG WSB WSB WSB WSB KOMO WCSH KFSD WREN WCAE WAPI His Orel WLBZ WLBZ WLBZ	WQAM Orchestra WGN KSTP KPRC WFJC KHQ WFLA WBAP CKGW WOC WSMB hestra WFAN WHAN KOIL WBCM	WPG KOL WRC KSD WTMJ WMC KOA WSUN WHO WCAU WADC KMBC KMBC KMBC KLZ
KDYL WCAH 10:00-11:300 WEAF WGY WHO WSMB WOAI RCO WJZ 11:00-11:15 WEAF WDAF 11:00-11:15 WEAF WDAF 11:00-11:30 WABC WCAO WKRO WSN WMT	KHJ KNX B. A. Rol WEB1 WGR WOW WJAX WWGR KSL WHO KSL KFI Broadwa KDKA Troubad WFI WIOD WIIO Ob WIIO Ob WIIO WMAL WKBN WKAN WMAL WKBN WMAL KBN KBN KOK KBN KOK KBN KOK KBN KOK KBN KOK KBN KOK KBN KOK KBN KOK KBN KOK KBN KOK KOK KBN KOK KOK KOK KOK KOK KOK KOK KOK KOK KO	KFRC WDBO fe's Luck WJAR WCAE WDAF WHAS WAPI KGW WRVA KTAR WRVA KTAR WRC KSTP orne and WNAC WHP WFBM WHBW WIBW WIBW	KOIN WTOC WTAG WUJ WIOD WSB WSAI KOMO WCSH KFSD WREN WREN WCAE WAPI Wic API	WQAM Orchestra WGN KSTP KPRC WFJC KHQ WFLA WBAP CKGW WOC WSMB hestra WFAN WHEC KOIL	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN
KDYL WCAH 10:00-11:00 WEAF WGY WOY WOY WOAI KGO WJDX WOOI 10:15-10:30 WJZ 11:00-11:15 WEAF WDAF WCAO WKAC WSN WMT WDOD KDYL WDAY	KHJ KNX BB. A. Rol WGR WGR WGR WGR WJAX WKY KSL WYJAX KJKA KJKA KJKA KDKA KDKA KJKA WHI Osb WHOD WIIO Osb WHAL WCOO WWAL WCOO WWAL KKA KJKA KJKA KJKA KJKA KJKA KJKA KJK	KFRC WDBO fe's Luck WJAR WCAF WHAS WAPI KGW WRVA KTAR WRVA KTAR WRC KSTP Oorne and WNAC WHP WFBM WIBW WIBW WIAR WLAC KFRC WBT	KOIN WTOC WTAG WWJ WIOD WSAI KOMO WCSH KFSD WREN WCAE WLBW WCAE WLBW KMOX KFH WDBJ KLRA KFPA	WQAM Orchestra WF1 WGN KSTP WF1C WF1C WFLA WFLA WFAN WFAN WFAN WFAN WFAN WFAN WFAN WFA	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WCAU WADC KMBC WSPD WBRC KLZ WNAX
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI 11:00-11:15 WEAF WDAF 11:00-11:15 WEAF WDAF WABC WCAO WKRC WISN WMT WDOD KDYL WDAY WDAY 11:30-12:00	KHJ KNX BS.A. Rol WGR WGR WGR WGR WGR WGR WJAX WHJAX WHJAX WHJAX WFI WIDD WIDD WIDD WIIOD WIIOD WIIOD WIIOD WIIOD WIIOC WCCO WWFAC Guy Lon WEAN	KFRC WDBO fe's Luck WJAR WCAF WHAS WAPI KGW WRVA KTAR WRVA KTAR WRC KSTP Oorne and WNAC WHP WFBM WIBW WIBW WIAR WLAC KFRC WBT	KOIN WTOC WTAG WWJ WIOD WSB WSAI KOMO WCSH KFSD WCAE WLBZ WLBZ WLBZ KKMOX KFH WDBJ KLRA KFPY WLBZ	WQAM Orchestra WF1 WGN KSTP WF1C WF1C WFLA WFLA WFLA WFLA WOC WSMB Mestra WFAN WFAN WFAN WFAN WFAN WFAN CKGW Canadian	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WADC KMBC WSPD WBRC KLZ WNAX
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO WJZ 11:00-11:15 WEAF WDAF 11:00-11:15 WEAF WDAF WABC WKRC WISN WMT WDOD KDYL WDAY XDYL WDAY WASI	KHJ KNX B. A. Rol WGR WGR WOW WJAX WKJAX KJX KSL WIO WII Stoadwa KDKA Troubad WPTF KFI Broadwa KDKA Troubad WII Osb WEAN WCC Guy Lom WEAN	KFRC WDBO fe's Luck WJAR WCAE WDAF WHAS WAPI KGW WHAS WWRC KTAR WRTA KWK WHD WSD WHD WHD WHD WHBW WIBW WHAS WHAS WHAS WHAS WHAS WAA WAA WAA WAA WAA WAA WAA WAA WAA W	KOIN WTOC WTAG WWJ WWJ WSB WSB WSSI KOMO WCSH KFSD WCSH WCSH WCSH WCSH WCAE WAPI His Orei WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ	WQAM Orchestra WF1 WGN KSTP WF1C WF1C WFLA WFLA WFLA WFLA WOC WSMB Mestra WFAN WFAN WFAN WFAN WFAN WFAN CKGW Canadian	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WCAU WBNC WBNC WBNC WCAO WKBN WCCAO
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO 00:15-10:30 WJZ 11:00-11:30 WZ 11:00-11:30 WCAO WCAO WCAO WCAO WCAC WCAO WKRC WISN WMT WDOD KDYL WDAY 11:30-12:00 WABC WAAL WFBM	KHJ KNX BB. A. Rol WGR WGR WGR WGR WGR WGR WGR WGR WJAX KFI Broadwa KDKA KFI Broadwa KDKA KFI Broadwa KDKA WHI Osb WHIO WIOD WIII Osb WHAN WCCO WWACC Guy Lon WEAN WEAN WHAN KFH	KFRC WDBO WDBO WCAE WCAE WCAE WCAE WHAS KWHAS KWHAS KWHAS KWK WRCA KWK WRC KSTP Orne and WHBW WFBM WFBM WFBM WFBM WIBW WTAC KFRC C WBT Jbardo au WNAC	KOIN WTOC WTAG WWJ WWJ WSB WSAI KOMO WCSH KFSD WCAH KFSD WCAH KFSD WCAH WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ	WQAM Orchestrz WF1 WGN KSTP KPRC WFJC WFJC WFJC WFLA WFLA WFAN WFA WOC WSMB WFA WOC KGW WFAN WHEC KOL Canadian WCAU WADC WISN WWW	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WHO WCAU WADC KMBC WSPD WBRC KLZ WNAX
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO 00:15-10:30 WJZ 11:00-11:30 WZ 11:00-11:30 WCAO WCAO WCAO WCAO WCAC WCAO WKRC WISN WMT WDOD KDYL WDAY 11:30-12:00 WABC WAAL WFBM	KHJ KNZ KNZ WGR WGR WOW WJAX WKY KSL Broadwa KDKA Troubad WFI WIO WFI WIO WHI WHI WII O WII O WII O WII O WII O WII O WII CO CO WII CO WII CO WII CO WII CO CO CO CO CO CO CO CO CO CO CO CO CO	KFRC WDBO fe's Luck WDAF WCAE WDAF WHAS WHAS WHAS KAR WHAC KSTAR VI Lights KWK WRC KSTP WHP WFBM WIBW WIBW WIBW WIAC WHP WHAC WBT WDAC WHAC WBCA WBCA WBCA WBCA WBCA WBCA WBCA WB	KOIN WTOC WTAG WWJ WWJ WSB WSB WSB WSB WSSH KOMO WCSH KFSD WCAE WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ	WQAM Orchestra WF1 WGN KSTP KPRC WFLA WFLA WFLA WFLA WOC WSMB WOC WOC WSM WOC WOC WOC WOC WSM WHEC KOL Canadian WCAU WADC WADC WADC WADC WADC WADC WADC WISN WADC WADC WADC WADC WADC WADC WADC WADC	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WCAU WADC KMBC WSDD WBRC KLZ WNAX WCAO WKBN WCAO WKBN WCAO WKAN
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI 10:15-10:30 WJZ 11:00-11:15 WEAF WDAF WDAT 11:00-11:15 WEAF WDAT WABC WCAO WKRC WISN WMT WDOD KDYL WDAY 11:30-12:00 WABC WABC	KHJ KNX B. A. Rol WGR WGR WGR WJAX WKJ KSL WJAX KSL WPTF KFI Broadwa KDKA Troubad WPTF WIO Osb WEAN WHO WII Osb WEAN WCCO WWNCC WREC KHJ KMOX KFH WGST KFJF	KFRC WDBO Ge's Luck WDAF WDAF WDAF WHAS KWHAS KWHA KTAR WHA KTAR WIB WSC KSTC WHP WFBM WHAC WHA WHAC WHA WHAC WHA WHAC WHA WHAC WHAC	KOIN WTOC WTAG WWJ WWJ WWSB WSB WSB WSSH KOMO WCSH KFSD WCSH WCSH WCSH WCSH WCSH WCSH WCSH WCSH	WQAM Orchestrz WF1 WGN KSTP KPRC WFJC WFJC WFJC WFLA WFLA WFAN WFA WOC WSMB WFA WOC KGW WFAN WHEC KOL Canadian WCAU WADC WISN WWW	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WHO WCAU WADC KMBC WSPD WBRC KLZ WNAX
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI 10:15-10:30 WJZ 11:00-11:15 WEAF WDAF WDAT 11:00-11:15 WEAF WABC WCAC WISN WMT WDOD KDYL WDAY 11:30-12:00 WABC WABC	KHJ KNX B. A. Rol WGR WGR WGR WJAX WKJ KSL WJAX KSL WPTF KFI Broadwa KDKA Troubad WPTF WIO Osb WEAN WHO WII Osb WEAN WCCO WWNCC WREC KHJ KMOX KFH WGST KFJF	KFRC WDBO WDBO WDAF WDAF WHAS WAPI KGW WHAS KWK KTAR KWK WRC KSTP Orne and WNAC WHP WNAC WHP WHC WHP WHC WHP WHC WFBM WFBM WFBW WFBW WFBW C KERC WDAY WBC KUBW C KUBW C WBC KUBW C WBC C KUBW C WBC C KUBW KUBW KUBW KUBW KUBW KUBW KUBW KUBW	KOIN WTOC Y Strike WTAG WWJ WIOD WSB WSAI KOMO WCSH KFSD WCAE WLSZ WLBW KMOX KFH WLBZ WLBW KMOX KFH WLBZ WLBW KMOX KFH WLBZ WLBW KMOX KMOX KFH WDBJ KLRA KFPY	WQAM Orchestri WF1 WGN KSTP KPRC WFJC WF2 WF2 WF2 WF2 WF2 WF2 WF2 WF2 WF2 WF2	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU KKBN WCAU WHO WCAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KOAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU KUAU WAU WAU KUAU KU
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI 10:15-10:30 WJZ 11:00-11:15 WEAF WDAF WDAT 11:00-11:15 WEAF WABC WCAC WISN WMT WDOD KDYL WDAY 11:30-12:00 WABC WABC	KHJ KNX KNX B. A. Rol WEEI WGR WOW WJAX KSL WKJX KSL WHJAX KDKA Troubad WFI WIOD WFI WIOD WFI WIOD WFI WIOD WIIOA WFI WCCO WWAL WKAX WWAL WWAL WWAL WWAL WEAN KEJF KEJF WORC Guy Lon WEAN	KFRC WDBO WDBO WDAF WDAF WHAS WAPI KGW WHAS KWK KTAR KWK WRC KSTP Orne and WNAC WHP WNAC WHP WHC WHP WHC WHP WHC WFBM WFBM WFBW WFBW WFBW C KERC WDAY WBC KUBW C KUBW C WBC KUBW C WBC C KUBW C WBC C KUBW KUBW KUBW KUBW KUBW KUBW KUBW KUBW	KOIN WTOC Y Strike WTAG WWJ WIOD WSB WSAI KOMO WCSH KFSD WCAE WLSZ WLBW KMOX KFH WLBZ WLBW KMOX KFH WLBZ WLBW KMOX KFH WLBZ WLBW KMOX KMOX KFH WDBJ KLRA KFPY	WQAM Orchestri WF1 WGN KSTP KPRC WFJC WFDC WFDC WFDC WFDC WFDC WFDC WFDC WFD	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WAOC KMBC WSUN WHO WAAU WSPD WBRC KLZ WNAX WCAO WKBN WCAO WKAN WCAO WHAC
KDYL WCAH 10:00-11:00 WEAF WGY WOGY WJON WJDN WOOI 10:15-10:30 WJZ 11:00-11:15 WEAF WDAF 11:00-11:30 WABC WCAO WKRC WISN WMT WDOD KDYL WDAY 11:30-12:00 WABC WMAL WFBM WIBW WDBJ XLRA WNAX 12:00-12:30 WABC WHK	KHJ KNX KNX B. A. Rol WEEI WGR WOW WJAX KSL WKJX KSL WHJAX KDKA Troubad WFI WIOD WFI WIOD WFI WIOD WFI WIOD WIIOA WFI WCCO WWAL WKAX WWAL WWAL WWAL WWAL WEAN KEJF KEJF WORC Guy Lon WEAN	KFRC WDBO WDBO WDAF WDAF WHAS WAPI KGW WHAS KWK KTAR KWK WRC KSTP Orne and WNAC WHP WNAC WHP WHC WHP WHC WHP WHC WFBM WFBM WFBW WFBW WFBW C KERC WDAY WBC KUBW C KUBW C WBC KUBW C WBC C KUBW C WBC C KUBW KUBW KUBW KUBW KUBW KUBW KUBW KUBW	KOIN WTOC Y Strike WTAG WWJ WIOD WSB WSAI KOMO WCSH KFSD WCAE WLSZ WLBW KMOX KFH WLBZ WLBW KMOX KFH WLBZ WLBW KMOX KFH WLBZ WLBW KMOX KMOX KFH WDBJ KLRA KFPY	WQAM Orchestri WF1 WGN KSTP KPRC WFJC KHQ WFLA WFLC WFLC WFLC WFLA WFAN WFAN WFAN WFAN WFAN WGT KOIL WGST KOIL WADC WISN WWNC WBT WRC WBT WRT	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WHO WCAU WADC KMBC WSUN WHO WBRC KLZ WNAX WCAO WKBN WCAO WKBN WCAO WHAC KFPY
KDYL WCAH 10:00-11:00 WEAF WGY WOGY WJON WJDN WOOI 10:15-10:30 WJZ 11:00-11:15 WEAF WDAF 11:00-11:30 WABC WCAO WKRC WISN WMT WDOD KDYL WDAY 11:30-12:00 WABC WMAL WFBM WIBW WDBJ XLRA WNAX 12:00-12:30 WABC WHK	KHJ KNX KNX B. A. Rol WEEI WGR WOW WJAX KSL WKJX KSL WHJAX KDKA Troubad WFI WIOD WFI WIOD WFI WIOD WFI WIOD WIIOA WFI WCCO WWAL WKAX WWAL WWAL WWAL WWAL WEAN KEJF KEJF WORC Guy Lon WEAN	KFRC WDBO WDBO WDAF WDAF WHAS WAPI KGW WHAS KWK KTAR KWK WRC KSTP Orne and WNAC WHP WNAC WHP WHC WHP WHC WHP WHC WFBM WFBM WFBW WFBW WFBW C KERC WDAY WBC KUBW C KUBW C WBC KUBW C WBC C KUBW C WBC C KUBW KUBW KUBW KUBW KUBW KUBW KUBW KUBW	KOIN WTOC Y Strike WTAG WWJ WIOD WSB WSAI KOMO WCSH KFSD WCAE WLSZ WLBW KMOX KFH WLBZ WLBW KMOX KFH WLBZ WLBW KMOX KFH WLBZ WLBW KMOX KMOX KFH WDBJ KLRA KFPY	WQAM Orchestrz WF1 WGN KSTP KPRC WFJC WFJC WFJC WFA WFA WFA WFA WOC WWFA WOC WWFA WOC WWFA WOC WOC WOC WOC WOC WOC WOC WOC WOC WOC	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WADC KMBC WSUN WADC KMBC WSUN WAC KMBC WSUN WEAC KMBC WSUN WCAO WKBN WCAO WKBN WCAO WKAN WCAO WKAN WCAO WCAO WHO WCAU WADC KMBC WCAU WADC KMBC WCAU WHO WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WCAU WHO WHO WHO WCAU WHO WHO WHO WHO WHO WHO WHO WHO WHO WHO
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI I:00-11:15 WDAF WJZ 11:00-11:15 WDAF WDAF WDAY WDAY WDAY WABA WSN WMT WDOD KDYL WDAY WDAY WDAY WDAY WDAY WDAY WDAY WDAY	KHJ KNX KNX B. A. Rol WER WGR WGR WGR WGR KSL WHI WIJAX KDKA KDKA KCKA WFI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WHI WID WHI WHI WID WID WHI WID WID WHI WID WHI WHI WID WID WHI WID WID WHI WID WID WID WHI WID WID WID WID WID WID WID WID WID WI	KFRC WDBO WDBO WCAE WDAF WCAE WCAE WHAS KAKA KTAR WHAC KSTP WRC KSTP WRC KSTP WRC KSTP WRC WRC WHP WFBM WFBM WFBM WFBM WFBM WFBM WFBM WFBM	KOIN WTOC y Strike WTAG WWJ WWJ WWJ WWJ WWSAI KOMO WCSAI KFSD WCSAI WCSAI WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ	WQAM Orchestri WF1 WGN KSTP KPRC WFJC KHQ WFLA WFLC WFLC WFLC WFLC WFLA WFAN WFAN WFAN WFAN WFAN WFAN WFAN WFA	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WHO WCAU WADC KMBC WSUN WHO WBRC KLZ WNAX WCAO WKBN WCAO WKBN WCAO WHAC KFPY
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI I:00-11:15 WDAF WJZ 11:00-11:15 WDAF WDAF WDAY WDAY WDAY WABA WSN WMT WDOD KDYL WDAY WDAY WDAY WDAY WDAY WDAY WDAY WDAY	KHJ KNX KNX B. A. Rol WER WGR WGR WGR WGR KSL WHI WIJAX KDKA KDKA KCKA WFI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WHI WID WHI WHI WID WID WHI WID WID WHI WID WHI WHI WID WID WHI WID WID WHI WID WID WID WHI WID WID WID WID WID WID WID WID WID WI	KFRC WDBO WDBO WCAE WDAF WCAE WCAE WHAS KAKA KTAR WHAC KSTP WRC KSTP WRC KSTP WRC KSTP WRC WRC WHP WFBM WFBM WFBM WFBM WFBM WFBM WFBM WFBM	KOIN WTOC y Strike WTAG WWJ WWJ WWJ WWJ WWSAI KOMO WCSAI KFSD WCSAI WCSAI WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ WLBZ	WQAM Orchestri WF1 WGN KSTP KPRC WFJC KHQ WFLA WFLC WFLC WFLC WFLC WFLA WFAN WFAN WFAN WFAN WFAN WFAN WFAN WFA	WPG KOL WRC KSD WTMJ WMC KOA WEBC WSUN WHO WADC KMBC WSUN WADC KMBC WADC KMBC WADC KMBC WBRC KLZ WNAX
KDYL WCAH 10:00-11:00 WEAF WGY WHO WSMB WOAI KGO WJZ 11:00-11:15 WEAF WDAF 11:00-11:15 WEAF WDAT 11:00-11:15 WEAF WDAY 11:30-11:30 WABC WMAL WFBM WBWJ KLRA WFBM WIBW WBWJ KLRA WABC WABC WABC WABC WABC WABC WABC	KHJ KNX KNX B. A. Rol WER WGR WGR WGR WGR KSL WHI WIJAX KDKA KDKA KCKA WFI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WID WHI WHI WID WHI WHI WID WID WHI WID WID WHI WID WHI WHI WID WID WHI WID WID WHI WID WID WID WHI WID WID WID WID WID WID WID WID WID WI	KFRC WDBO WDBO WCAE WDAF WCAE WCAE WHAS KAKA KTAR WHAC KSTP WRC KSTP WRC KSTP WRC KSTP WRC WRC WHP WFBM WFBM WFBM WFBM WFBM WFBM WFBM WFBM	KOIN WTOC Y Strike WTAG WWJ WWJ WWJ WWJ WWSB WSB WSB WSS WSS WSS WSS WSS WSS WS	WQAM Orchestri WF1 WGN KSTP KPRC WFJC KHQ WFLA WFLC WFLC WFLC WFLC WFLA WFAN WFAN WFAN WFAN WFAN WFAN WFAN WFA	WPG KOL WRC KSD WTMJ WMAC KOA WEBC WSUN WHO WADC KMBC WSUN WAD KMBC WADC KMBC WSPD WLAC KFPY WLAC KFPY WLAY WDAY WOWF

NOTICE OF COPYRIGHT

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KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: * Verifies receptions 2c; sends station stamp 10c; † Verifies 2c; no stamp; ‡ Does not verify; § Did not reply. Third column shows night power in watts. Fourth column symbols: D, daytime only; S, Sunday only; Stations dividing time have same small figures; X means station has been granted permit to increase power; + means station has greater power during day; CP indicates station has construction permit only; Some Cuban and Mexican stations have odd frequencies; Correct kilocycles shown in small figures; N means NBC chain; C means Columbia chain; Z has been granted permit to change frequency; Y given permit to move to another city.

540 kilocycles 555.6 m	eters
CKX † 500 Brandon, XFA 50 Mexico Ci	Manitoba Manitoba Telephone System ty Sria. de Agricultura y Fomento
550 kilocycles 545.1 m	eters 96
KFDY ± 500 1+ Brookings KFUQ * 500 2+ St. Louis, KFYR \$ 1000 1 Bismarck. KOAC - 1000 1 Bismarck. KSD - 500 2N St. Louis, WGR * 1000 N Buifalo, N WKRC - 1000 C Cincinnat XEY 105 547 Merida, Y VYSU 560 kilocycles 535.4 m	Mo. Concordia Theological Seminary N. D. Meyer Broadcasting Co. Ore. State Agricultural College Mo. Pulitzer Publishing Co. Y. Bulfalo Broadcasting Co., Lessees i, Ohio WKRC Incorporated ucatan Partido Socialista del Sureste
KFDM 500 X+ Beaumont KLZ * 1000 C Denver, C KTAB - 1000 San Franc WFI - 500 IN+ Philadelph WIBO - 1000 3+N Chicago, I WISJ - 500 3Y Beloit, Wi WLIT - 500 IN Philadelph -WNOX - 000 X+ Knoxville, WPCC * 500 3S Chicago, I -WQAM 1000 C Miami, FL	blo. Reynolds Radio Co., Inc. isco, Cal. Associated Broadcasters iia, Pa. Strawbridge & Clothier II. Nelson Bros. Bond & Mortgage Co. S. Wisconsin State Journal Co. hia, Pa. Lit Brothers Tenn Sterchi Bros. II. North Shore Congregational Church
570 kilocycles 526.0 m	eters
KGKO * 250 + Wichita Fa KMTR - 500 Los Angel KXA * 500 Seattle, W WEAO † 750 1 Columbus WKBN - 500 1C Youngstoo WMAC - 250 2 Cazenovia WMCA - 500 3 New York WNAX - 1000 C Yankton, WNYC - 500 3 New York WSYR - 250 2 Syracuse, 1 WWNC * 1000 C Asheville, 1	Ills, Texas Wichita Falls Broadcasting Co. ss, Cal. KMTR Radio Corp. ash. American Radio Tel. Co.) Ohio Ohio State University yn, Ohio W. P. Williamson, Jr. N. Y. Clive B. Meredith City Knickerbocker Broadcasting Co., Inc. S. D. Gurney Seed & Nursery Co. City Dept. of Plants and Structures N. Y. Clive B. Meredith N. Y. Clive B. Meredith N. C. Citizens Broadcasting Co., Inc.
580 kilocycles 516.9 me	eters 84
CFCL 500 3S Toronto, C CHMA 250 4 Edmonton CKCL 500 3 Toronto, C CKNC * 500 3 Toronto, C CKNC * 500 3 Toronto, C CKUA - 500 4 Edmonton KGFX - 200 D Pierre, S. I KSAC - 500 2+ Manhattan WIBW * 500 1 Charleston WSAZ - 250 1 Huntingto WTAG * 250 N Worcester,	, Alta. Christian and Missionary Alliance mt. The Dominion Battery Co. mt. Canadian National Carbon Co., Ltd. , Alta. University of Alberta Dana McNeil , Kans. State Agricultural College ansas Topeka Broadcasting Assn., Inc. , W. Va. WOBU, Inc. , W. Va. WOBU, Inc.

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590 kilocycles 508.2 meters

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

600 kilocycles 499.7 meters

CFCH		250	3	Iroquois Falls, Ont.
CIRM		500	4	Moose Jaw, Sask.
ČÍRW		500	4	Fleming, Sask.
-EMW		1000	595	Havana, Cuba
CNRO		500	3	Ottawa, Ont.
KFSD	*	500	+N	San Diego, Cal.
WCAC		250	2+	Storrs, Conn.
WCAO	*	250	С	Baltimore, Md.
WGBS		250	2+	New York City
WMT	*	500	C	Waterloo, Iowa
WOAN		500	1	Lawrenceburg, Tenn.
-WREC		50 0	1+C	Memphis, Tenn.

610 kilocycles 491.5 meters

KFRC WDAF	*	1000 1000	C N	San Francisco, Cal. Kansas City, Mo.
WFAN	*	500	2C	Philadelphia, Pa.
WIP	*	500	2	Philadelphia, Pa.
-WIAY	_	500	D	Cleveland, Ohio

620 kilocycles 483.6 meters

KGW		1000	+N	Portland, Ore.
KTAR		500	+N	Phoenix, Arizona
-WFLA	*	1000	1+N	Clearwater, Fla.
WLBZ	~ ~	500	С.,,	Bangor, Maine
-WSUN	de:	1000	1+N	St. Petersburg, Fla.
~wtmj		1000	+N	Milwaukee, Wis.

630 kilocycles 475.9 meters

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

640 kilocycles 468.5 meters

-KFI	*	5000	NX	Los Angeles, Cal
WAIU		500	C	Columbus, Ohio
WOI		5000	D	Ames, Iowa
XFG		2000	638	Mexico City
XFG		2000	030	Wie vieo City

650 kilocycles 461.3 meters N

KPCB 100 5000

Seattle, Wash. Nashville, Tenn.

660 kilocycles 500 WAAW WEAF

50000

454.3 meters Omaha, Neb. New York City DN

670 kilocycles 447.5 meters -WMAO 5000 C 666

1000 XEB ÷

Chicago, Ill. Mexico City

Louis Wasmer, Inc. Nebraska Wesleyan University George W. Trendle Woodmen of the World Sria. de Industria, Commercio y Trabajo Abe Cohen

KCYS.

MTRS. 447.5

DIAL

670

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 Gobierno del Estado de Veracruz

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

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

Omaha Grain Exchange National Broadcasting Co., Inc.

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

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65

	680 1	kilo	cycle	es	440.9 meters	59	
	KFEQ KPO	*	2500 5000	D N	St. Joseph, Mo. San Francisco, Cal.	Scroggin & Co., Bank Hale Bros. & The Chronicle	
	-WPTF	*	1000 250	N CP	Raleigh, N. C. Gueda Springs, Kansas	Durham Life Insurance Co.	
	(00.1	•1				R. E. Campben and F. E. Stanard	
			cycle		434.5 meters	57	
	CFAC CFCN		500 500	1	Calgary, Alta. Calgary, Alta.	The Calgary Herald Western Broadcasting Co.	
	CHCA CJCJ		500 500	1 1	Calgary, Alta. Calgary, Alta.	The Western Farmer Albertan Publishing Co., Ltd.	
	CJCJ CJSC CKGW CNRC		5000 5000	4 2N	Calgary, Alta. Toronto, Ont. Toronto, Ont	The Evening Telegram Gooderham & Worts, Ltd.	
Î	CNRC -CPRY		500 5000	1 2N	Toronto, Ont. Calgary, Alta. Toronto, Ont.	Lanadian National Railways	
	NAA VAS		1000		Arlington, Va. Louisburg, N. S.	Canadian Pacific Railways U. S. Navy	
			500		Louisburg, N. S.	Canadian Marconi Co.	
			cycle		428.3 meters	55	
	WLW XEZ	*	50000 500	N 697	Cincinnati, Ohio Mexico City, Mex.	Crosley Radio Corp. Joaquin Zamacona	
	710.1	dila	cycle		422.3 meters		
	KMPC	CIIO	500	5		B S M MI	
	-WOR		5000		Los Angeles, Cal. Newark, N. J.	R. S. MacMillan Bamberger Broadcasting Service, I	nc.
	720 1	cilo	cycle	s	416.4 meters	32	
	WGN WLIB		25000 25000	NZ	Chicago, Ill. Chicago, Ill.	Chicago Tribune Chicago Tribune	J
	8WMC		500	722	St. Johns, N. F.	Wesley United Church	
	730 1	cilo	cycle	s ·	410.7 meters	50	
	CHIS		50	1	Vancouver, B. C.	W. G. Hassell	
	-CKAC		5000 5000	2 2C	Montreal, Que. Montreal, Que.	Northern Electric Co., Ltd. La Presse Publishing Co., Itd	
l	CHYC -CKAC CKCD CKFC		50 50	1 1	Vancouver, B. C. Vancouver, B. C.	Vancouver Daily Province United Church of Canada	
	CKMO CKWX	Ť-	50 100	1 1	Vancouver, B. C. Vancouver, B. C.	Sprott-Shaw Radio Co. A. Holstead & Wm, Hanlon	
	-CMK CNRM		3000 5000	2	Havana, Cuba Montreal, Que.	Cuban Broadcasting Co., Hotel Pla	ıza
	XEN	ŧ-	1000	7 31	Mexico City	Canadian National Railways Compania Civil de Inversiones Urba	anas
ļ	740 k	cilo	cycle	s	405.2 meters	48-2	_
	KMMJ WSB		1000 5000	Ň	Clay Center, Neb.	The M. M. Johnson Co.	
					Atlanta, Ga.	Atlanta Journal Co.	
	750 k	cilo		s.	399.8 meters	47	
	TIX WJR	Ť	50 5000	Ň	San Jose, Costa Rica Detroit, Mich.	WJR, The Goodwill Station, Inc.	
	760 k	cilo	cycle	s ä	394.5 meters	11 -	
	KVI WEW		1000	C D	Tacoma, Wash.	Puget Sound Broadcasting Co., Inc	
	-WJZ	Ŧ :	30000	N	St. Louis, Mo. New York City	St. Louis University Radio Corp. of America, Inc.	
	770 k	cilo	cycle	s á	389.4 meters	44	
	CMI KFAB	*	500 5000	775 1N	Havana, Cuba Lincoln, Nebr.	Instituto Provincial KFAB Broadcasting Co.	
	WBBM		25000 25000	1C 1S	Chicago, Ill.	The Atlas Co., Inc.	
	W JBT XED		2000	769	Chicago, Ill. Reynosa, Tams.	The Atlas Co., Inc. Alfonso Dominquez	
	780 k	cilo	cycle	s á	384.4 meters	47	_
	CKY CNRW		5000 5000	3		Manitoba Telephone System	_
	KELW		5000	3 2	Winnipeg, Manitoba Winnipeg, Manitoba Burbank, Cal.	Canadian National Railways Earl L. White	
					[38]		

		1141	JUA D	11100 (02100000
KTM WEAN		500 250	2+ +C	Los Angeles, Cal. Providence, R. I.
WMC WPOR WTAR	 *	500 500 500	+N 1 1C	Los Angeles, Cal. Providence, R. I. Memphis, Tenn. Norfolk, Va. Norfolk, Va.
790 l	cilo	cycle	es 32	79.5 meters
CMHC		500	791 N	Tuinucu, Cuba San Francisco, Cal. Schenectady, N. Y.
KGO -WGY	† † 4	7500 50000	N	Schenectady, N. Y.
800 1				74.8 meters
-WBAP -WFAA		10000 50000	1XN 1N	Fort Worth, Texas Dallas, Texas
XEU		101		veracruz, iviex.
810	cilo	cycle	es 3	70.2 meters
WCCO		7500 500	CD	Minneapolis, Minn. New York City
				65.6 meters
820 1			N N	Louisville, Ky.
_WHAS	•	10000		
8301	cilo	cycle		61.2 meters
CMGA -KOA -WHDH	Ť	300 12500	0.04	Colon, Cuba Denver, Colo.
-WHDH	1 *	1000	N D	Denver, Colo. Auburn, Mass. Gainesville, Fla.
-WRUF		5000	3	56.9 meters
840 1		500 Cych	2S J	Toronto Ont
CFCA CHCT CKLC -CMC CNRD -CNRT	† 	1000	ī 2	Red Deer, Alta. Red Deer, Alta. Havana, Cuba
CKLC		1000 500	-	Havana, Cuba
CNRD		1000 500	21	Red Deer, Alta.
		100	3 3	Adamsburg, Pa. Jeannette, Pa. Tampico, Tams. Mexico City, Mex.
WOOP	Ŧ-	100 501	3	Tampico, Tams.
XEM XFX		500		Mexico City, Mex.
850 1	kilo	cycl	es 3	52.7 meters
-KWKH NBA	*	10000 750	1 846	Shreveport, La. Balboa, Canal Zone New Orleans, La.
-WWL	*	5000	1	New Orleans, La.
860 1	kilo	cycl		48.6 meters
KMO		500 5000	+ 1XC 1X	Tacoma, Wash. New York City New York City
WABC WBOQ	 *	5000	1X D	New York City
WHB XEJ	*	500 101	857	Kansas City, Mo. C. Juarez, Chih.
870 1	kilo	cycl	es 3	44.6 meters
-WENR -WLS		50000 5000	1N 1XN	Chicago, Ill. Chicago, Ill.
880 1	kilo	cycl	es 3	40.7 meters
CHCS		10	4	Hamilton, Ont. Hamilton, Ont.
-CHML CHRC		50 100	4 3	Quebec, Que. Sydney, N. S.
CJCB		50 22.5	3	Sydney, N. S. Quebec, Que.
CHRC CJCB CKCI CKCV CKCV	ŧ	50	3 3 4	Quebec, Que. Quebec, Que. Hamilton, Ont.
CNRO	Ŧ	50 50	3	Quebec, Que.
KFKÅ KLX	t	500 500	2+	Quebec, Que. Greeley, Colo. Oakland, Cal.
RLA				

Frank H. Jones National Broadcasting Co., Inc. General Electric Co. KCYS. 880 Carter Publications, Inc. News & Journal Natalio Ulibarri MTRS. 340.7DIAL Northwestern Broadcasting, Inc. Eastern Broadcasters, Inc. Courier-Journal & Times Leopoldo V. Figueros National Broadcasting Co., Inc. Matheson Radio Co., Inc. University of Florida Star Publishing & Ptg. Co. G. F. Tull & Ardern, Ltd. Alberta Pacific Grain Co., Ltd. Cuban Telephone Co. Canadian National Railways Canadian National Railways Pioneer Broadcasting Co., Inc. Oakford-Olympia Park Corp. Gerbert A. Denny y Cia. Secretaria de Educacion Publica Hello World Broadcasting Corp. United States Navy Loyola University KMO, Inc. Atlantic Broadcasting Corp. Atlantic Broadcasting Corp. WHB Broadcasting Co. Juan G. Buttner 44 Great Lakes Broadcasting Co. Agricultural Broadcasting Co.

Pickwick Broadcasting Corp. Shepard Broadcasting Service, Inc. Memphis Commercial-Appeal WTAR Radio Corp.

WTAR Radio Corp.

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

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KPOF	- +	500	2	Denver, Colo.
WCOC		500	-+-	Meridian, Miss.
WGBI	*	250	ľ	Scranton, Pa.
WQAN	*	250	1	Scranton, Pa.
WSUI	3F	500		Iowa City, Iowa

890 kilocycles 336.9 meters St. John, N. B. Ottawa, Ont. Shenandoah, Iowa

CFBO	*	50	
CKCO		100	
-KFNF		500	2+
KGJF	*	250	- ,
KUSD	**	500	2+
WGST		250	1∔C
-WILL	*	250	2+
WJAR	*	250	+N
WKAO		500	
WMAŻ	+	250	1+
-WMMN	*	250	+
XES	+	500	
XET	+	500	

900 kilocycles 333.1 meters

		•	
CMX		250	-
KGBU	+	500	
KHJ	*	1000	C
KSĒI	*	250	-
WBEN		1000	CP1
-WJAX	nk.	1000	Ň
WKY	*	1000	N
WLBL	*	2000	D
WMAK	*	750	Č1

910 kilocycles 329.6 meters

CFQC		500
ĊJĞĊ	*	500
-ENRL	*	500
CNRS		500

Saskatoon, Sask. London, Ont. London, Ont. Saskatoon, Sask.

Caibarien, Cuba Port au Prince, Haiti Denver, Colo. Denver, Colo. Seattle, Wash. Houston, Texas Chicago, Ill.

Wellesley Hills, Mass. Detroit, Mich.

Mexico City, Mex

Villa Hermosa, Tab.

Buffalo, N. Y.

Little Rock, Ark. Vermillion, S. D.

Atlanta, Ga. Urbana, Ill. Providence, R. I. San Juan, P. R.

Fairmount, W. Va. Tampico, Tams.

Monterrey, N. L.

Havana, Cuba

Ketchikan, Alaska

Jacksonvine, -Oklahoma City Point, Wis.

Los Angeles, Cal. Pocatello, Idaho Buffalo, N. Y.

Macon, Ga.

920 kilocycles 325.9 meters

2

2

CMHD		250	
HHK		1000	
KFEL	÷.	500	1
-KFXF	*	500	ī
KOMO	ŧ	1000	Ň
KPRC		1000	+N
WAAF		500	Ď
WBSO		500	Ď
WWJ	+	1000	Ň
XEX		500	923
XFE		250	973

930 kilocvcles 322.4 meters

CJCA	迷	500	4	Edmonton, Alta.
CFRC	-	500	3	Kingston, Ont.
CHNS	~ •	500		Halifax, N. S.
CKIC		50		Wolfville, N. S.
CKPR		50	3	Midland, Ont.
CNRE		500	4	Edmonton, Alta.
CNRH		500		Halifax, N. S.
KFW1		500	1	San Francisco, Cal.
KGBZ		500	2+	York, Nebr.
-KMA	*	500	2+	Shenandoah, Iowa
KROW		500	1+	Oakland, Cal.
-WBRC	-	500	$+\mathbf{C}$	Birmingham, Ala.
-WDBJ	4:	250	$+\mathbf{C}$	Roanoke, Va.
WIBĞ		50	D	Elkins Park, Pa.

940 kilocycles 319.0 meters

KGU		1000	
KOIN	*	1000	Ē
WAAT		300	Ď
WCSH	*	1000	Ñ
WDAY	*	1000	Ċ
WFIW		1000	č
WHA		750	- Ď

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

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

C. A. Munro, Ltd. Dr. G. M. Geldert Henry Field Co. Church of the Nazarene University of South Dakota Georgia School of Technology University of Illinois The Outlet Co Radio Corp. of Porto Rico Junior Chamber of Commerce Holt-Rowe Novelty Co. Difusora Portena XES Mexico Music Co.

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

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

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

Gobierno Del Estado d Tobasco

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

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

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	050 1								
	200 F	cilc	ocycle	es	315.6 meters	26			
	CMCQ KFWB KGHL KMBC WRC	* * †	500 1000 500 1000 500	955 X C N	Havana Cuba Hollywood, Cal. Billings, Mont. Kansas City, Mo. Washington, D. C.	Midland E	artinez ros. Broadcast cern Auto Sup Broadcasting C p. of America	ing Corp. ply Co., Inc. Co., Inc.	
	960 1	cilo	ocycle	es	312.3 meters	255			le la
	CFCY CFRB CHCK CHWC CJBR CKCK CNRR CNRX		250 4000 30 500 500 500 500 4000	1 2C 1 3 3 3 2	Charlottetown, P. E. I Toronto, Ont. Charlottetown, P. E. J Pilot Butte, Sask. Regina, Sask. Regina, Sask. Regina, Sask. Toronto, Ont.	Rogers-M I. W. E. Bur R. H. Will Cooperati Leader Pu	d Radio Co. ajestic Corp., 1 ke liams & Sons. ve Wheat Prod blishing Co., 1 National Rail National Rail	Ltd. Iucers, Ltd. Ltd.	d
	970 1	cilc	ocycle	es	309.1 meters	25			
	KJR XEH WCFL	*	5000 101 1500	D 964 N	Seattle, Wash. Monterrey, N. L. Chicago, III.	Ing. Cons	Broadcasting tantino de Tar ederation of L	nava	ксүз 104(
	980 1	cilc	ocvel	es	305.9 meters	24			MTRS
-	KDKA XEO		50000 101	N 983	Pittsburgh, Pa. Mexico City	Westingho F. Armida	ouse Elec. & M y Cia.	lfg. Co.	288. DIAL
	990 l	cilc	ocvel	es	302.8 meters K_1	2:5			
	WBZ WBZA	*	15000 500	INY INY		Westingho Westingho	ouse Elec. & N ouse Elec. & N	lfg. Co. lfg. Co.	
L.	1000	kil	locyc	les	299.8 meters	43			1
1-1	KFVD WHO WOC XEI	• •	250 5000 5000 101	1N 1N 999	Culver City, Cal. Des Moines, Iowa Davenport, Iowa Morelia, Mexico	Central B Central B	es Broadcastir roadcasting Co roadcasting Co itierrez M.	D .	
	1010	kil	locyc	les	296.8 meters]
	CFLC CKCR CMBZ CMCF KGCF KQW WHN WIS WNAD WPAP WQAO WRNY	*	50 50 100 250 500 500 500 250 250 250 250 250	$ \frac{3}{3} $ $ \frac{1}{2Y} $ $ \frac{1}{C} $ $ \frac{1}{1} $ $ \frac{1}{1} $	Prescott, Ont. Waterloo, Ont. Havana, Cuba Havana, Cuba Picher, Okla. San Jose, Cal. New York City Columbia, S. C. Norman, Okla. New York City New York City New York City	Marcus Lo George T. University Calvary B Calvary B	erson G. Salas nen	gency	
	1020	kil	ocyc	les	293.9 meters	12			
ī	KFKX KYW WRAX		10000 10000 250	1N 1N D	Chicago, Ill. Chicago, Ill. Philadelphia, Pa.	Westingh Westingh Berachah	ouse Elec. & M ouse Elec. & M Church, Inc.	lfg. Co. lfg. Co.	
	1030	kil	.ocyc	les	291.1 meters	515			
	CFCF CNRV		500 500		Montreal, Que. Vancouver, B. C.		Marconi Co. National Rail	ways	
	1040	kil	locyc	les	288.3 meters	21			
-	KRLD KTHS WKAR WMAK	* §	10000 10000 1000 1000	1C 1N D	Dallas, Texas Hot Springs, Ark. East Lansing, Mich. Buffalo, N. Y.	KRLD Ra Chamber Michigan Buffalo Br	of Commerce Agricultural (College	

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INDEX I		
1050 kilocycles	285.5 meters	20
KFKB 5000 X	Milford, Kansas Hollywood, Cal.	KFKB Broadcasting Assn., Inc. Western Broadcast Co.
1060 kilocycles	282.8 meters	195
KWJJ 500 WBAL 10000 IN WJAG 1000 IN WJAG 5000 IN WTIC 50000 IN	Portland, Ore. Baltimore, Md. Norfolk, Nebr. Hartford, Conn.	KWJJ Broadcast Co., Inc. Consolidated Gas Elec. & Pwr. Co. Norfolk Daily News Travelers Broadcasting Service Corp.
1070 kilocycles	280.2 meters	19
KJBS * 100 D WCAZ - 50 D 	San Francisco, Cal. Carthage, III. Tuscola, III. Cleveland, Ohio Mexico City	Julius Brunton & Sons Co. Superior Broadcasting Service James L. Bush WTAM & WEAR, INC. F. Armida y Cia
1080 kilocycles	277.6 meters	18-200
WBT * 5000 C WCBD * 5000 1 WMBI 5000 1	Charlotte, N. C. Zion, III. Chicago, III.	Station WBT, Inc. Wilbur Glenn Voliva Moody Bible Institute
1090 kilocycles	275.1 meters	28
KFQA 5000 1SX -KMOX * 5000 1CX XEL 10	St. Louis, Mo. St. Louis, Mo. Saltillo, Coah.	Voice of St. Louis, Inc. Voice of St. Louis, Inc. Antonio Garza Castro
1100 kilocycles	272.6 meters	172
KGDM * 250 DX WLWL * 5000 1 WPG 5000 1C	Stockton, Cal. New York City Atlantic City, N. J.	E. F. Peffer Missionary Society of St. Paul WPG Broadcasting Corp.
1110 kilocycles	270.1 meters	17
KSOO * 2000 WRVA * 5000 N	Sioux Falls, S. D. Richmond, Va.	Sioux Falls Broadcasting Assn., Inc. Larus & Bros. Co., Inc.
1120 kilocycles	267.7 meters	
CFJC 15 CHGS * 100 CJOC CJOC - 50 KFIO † 100 D KFIO † 100 D KKSC KRSC 500 3 KRSC † 500 2C WDBO * 500 +C WDBO * 500 +C WDEL 250 1 WISN - 250 1 WISN 2500 2	Kamloops, B. C. Summerside, P. E. I. Lethbridge, Alta. Spokane, Wash. Los Angeles, Cal. Inglewood, Cal. Seattle, Wash. Houston, Texas Orlando, Fla. Wilmington, Del. Milwaukee, Wis. Milwaukee, Wis. College Station, Texas Rayne, La. Haynesville, La.	N. S. Dalgleish & Sons R. T. Holman, Ltd. Harold R. Carson Spokane Broadcasting Corp. Echo Park Evang. Assn. Dalton's, Inc. Radio Sales Corp. Rice Hotel Orlando Broadcasting Co., Inc. WDEL, Inc. Marquette University Evening Wisconsin Co. Agricultural & Mech. College Ber, Killmer & Bailey C. C. Crawford
1130 kilocycles	265.3 meters	1
-KSL 5000 N -WJJD 20000 C WOV 1000 D XEF 105 1131	Salt Lake City Mooseheart, 111. New York City Oaxaca, Oax.	Radio Service Corp. of Utah Loyal Order of Moose International Broadcasting Corp. Frederico Zorrila
1140 kilocycles	263.0 meters	15 12
⁻ KVOO * 5000 1N WAPI 5000 1N	Tulsa, Okla. Birmingham, Ala.	Southwestern Sales Corp. Alabama Polytechnic Institute
1150-kilocycles	260.7 meters	
СМНА 200 1154	Cienfuegos, Cuba Rochester, N. Y.	José Ganduxe
-WHAM * 5000 N	Rochester, N. Y.	Stromberg-Carlson Tel. Mfg. Co.

1170 kiloc KTNT * 50 WCAU * 100 1180 kiloc KEX - 56 KOB - 200 WDGY * 100	000 1C 000 1 cycles	258.5 meters Ft. Wayne, Ind. Wheeling, W. Va. 256.3 meters Muscatine, Iowa Philadelphia, Pa. 254.1 meters Portland, Ore. State College, N. M. Minneapolis, Minn.	Main Auto Supply Co. West Virginia Broadcasting Corp. Norman Baker Universal Broadcasting Co. Western Broadcasting Co. College of Agriculture & Mech. Arts Dr. George W. Young Wm, Hood Dunwoody Industrial Inst.	
1190 kiloo		252.0 meters Bridgeport, Conn. San Antonio, Texas	Bridgeport Broadcasting Station, Inc. Southern Equipment Co.	
KFHA	$\begin{array}{c} \text{cycles} \\ 100 & \text{D} \\ 50 & \\ 100 & + \\ 100 & 5 \\ 100 & -+ \\ 15 & \text{S} \\ 100 & \\ 15 & \text{S} \\ 100 & 9 \\ 100 & \\ 100$	249.9 meters Paragould, Ark. Gunnison, Colo. Marshalltown, Iowa St. Louis, Mo. Mandan, N. D. Fergus Falls, Minn. Oldham, S. D. Yuma, Colo. Fort Morgan, Colo. Fort Morgan, Colo. Los Angeles, Cal. Little Rock, Ark. Lacey, Wash. Monroe, La. Santa Maria, Cal. Bellingham, Wash. Stockton, Cal. El Centro, Cal. Bangor, Maine New Orleans, La. Janesville, Wis. Harrisburg, Pa. Emory, Va. Worcester, Mass. Knoxville, Tenn. Cincinnati, Ohio Carton, Ohio Green Bay, Wis. Utica, N. Y. St. Louis, Mo. La Salle, III. Decatur, III. New Orleans, La. Lancaster, Pa. Louisville, Ky. Petersburg, Va. St. Louis, Mo. Washington, Pa. Carbondale, Pa. Springfield, Vt. Worcester, Mass. Flint, Mich. La Porte, Ind. Columbus, Ga. Hammond, Ind.	 W. J. Beard's Temple of Music Western College of Colorado Marshall Electric Co., Inc. St. Louis Truth Center, Inc. Mandan Radio Association Jaren Drug Co. J. Albert Loesch and George W. Wright Beehler Elec. Equipment Co. City of Fort Morgan Ben S. McGlashan Berean Bible Class St. Martin's College G. C. Liner Santa Maria Valley R. R. Co. KVOS, Inc. Portable Wireless Tel. Co., Inc. E. R. Irey and F. M. Bowles Pine Tree Broadcasting Corp. Coliseum Place Baptist Church C. L. Carrell State School of Mines University of Vermont WCLO Radio Corp. Norman R. Holfman Emory & Henry College Alfred Frank Kleindienst First Baptist Church St. Norbert's College WIBS, Inc. Missouri Broadcasting Corp. Kaskaskia Broadcasting Corp. Kingshighway Presbyterian Church John Brownlee Spriggs Home Cut Glass & China Co. First Congregational Church Alfred Frank Kleindienst City of Flint Chas. Middleton David Parmer Hammond-Calumet Broad. Corp. 	ксуз. 1200 мткз. 249.9 DIAL

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1210 1	kilocyc	eles	247.8 meters	124
CFCO	100		Chatham, Ont.	Western Ontario "Better Radio" Club
CFNB	+ 50 + 5		Fredericton, N. B.	James S. Neill & Sons, Ltd.
CHWK	† <u>5</u>		Chilliwack, B. C.	Chilliwack Broadcasting Co., Ltd.
	* 50		Sea Island, B. C.	G. C. Chandler
CKMC			Cobalt, Ont.	R. L. MacAdam
	† 25 † 100		Preston, Ont.	Metal Shingle & Siding Co.
UDID	100		Casper, Wyo. Devils Lake, N. D.	Donald Lewis Hathaway KDLR, Inc.
VEOD	100	+	Lincoln, Nebr.	Howard A. Shuman
UTUC	100	6	Cape Girardeau, Mo.	Hirsch Battery & Radio Co.
KFXM	100	9	San Bernardino, Cal.	J. C. & E. W. Lee
KGCR	100		Watertown, S. D.	Cutler's Radio Brdcstg. Service, Inc.
	§ 100		Elk City, Okla.	Bryant Radio & Electric Co.
KGNO	100		Dodge City, Kans.	Melvin A. McCollum
	* 100		Fresno, Cal.	James McClatchy Co.
KPPC KWEA	§ 50 * 100	9	Pasadena, Cal.	Pasadena Presbyterian Church
WALR	* 100 100		Shreveport, La.	Hello World Broadcasting Corp.
WBAX	100	1	Zanesville, Ohio Wilkes-Barre, Pa	Roy. W. Waller John H. Stenger, Jr.
	† 100	7s	Richmond, Va.	Grace Covenant Presbyterian Church
	\$ 100	2	Springfield III	H. L. Dewing & Chas. Messter
WCOH	* 100	3	Springfield, Ill. Yonkers, N. Y.	Westchester Broadcasting Corp.
WCRW	* 100	4	Chicago, Ill.	Clinton R. White
WDWF	100	5	Providence, R. I.	Dutee W. Flint
WEBQ WEDC	100	6	Harrisburg, Ill.	First Trust & Savings Bank
WEDC		4	Chicago, Ill.	Emil Denemark, Inc.
	* 100	3	Freeport, N. Y.	Harry H. Carman
WGCM	100		Gulfport, Miss	Great Southern Land Co., Inc.
WHBF WHBU	- 100 † 100		Rock Island, Ill.	Beardsley Specialty Co.
337110 4		XZ	Anderson, Ind. Madison, Wis.	Citizens Bank
117 1 13 1	5 00	3	Red Bank, N. J.	Capital Times Co. Monmouth Broadcasting Co.
WIBU	100	ĭ	Lewisburg, Pa.	Bucknell University
WIBY	50	· ·	Gadsden, Ala.	Gadsden Broadcasting Co., Inc.
WJW WLCI	* 100		Mansfield, Ohio	Mansfield Broadcasting Assn.
WLCI *	* 50		Ithaca, N. Y.	Lutheran Assn. of Ithaca
-WLSI	100	5	Providence, R. I.	The Lincoln Studios, Inc.
WMAN .	. 50		Columbus, Ohio	Columbus Broadcasting Co.
WMBG .	100	7	Richmond, Va.	Havens & Martin, Inc.
WMRJ	100	3	Jamaica, N. Y.	Peter J. Prinz
WOCL *	^k 25 100		Jamestown, N. Y.	A. E. Newton
WPAW *		5	Manitowoc, Wis. Pawtucket, R. I.	Francis M. Kadow Shartenburg & Robinson Co.
WODX	50	0	Thomasville, Ga.	Stevens Luke
WRBQ 1		X+	Greenville, Miss.	J. Pat. Scully
WRBU	100		Gastonia, N. C.	A. J. Kirby Music Co.
WSBC *	100	4	Chicago, Ill.	World Battery Co., Inc.
	100	P1	Springfield, Tenn.	638 Tire & Vulcanizing Co.
WTAX	- 50	2YX	Streator, Ill.	Williams Hardware Co.
1220.1		1	245 0	
	ilocyc	les	245.8 meters	/ 2-
CMBC *		1225	Havana, Cuba	Domingo Fernandez Cruz
KFKU	_ 1000	1	Lawrence, Kans.	University of Kansas
KWSC	_ 500	\mathbf{X} +	Pullman, Wash.	State College of Washington
WCAD *	0000	D	Canton, N. Y.	St. Lawrence University
WCAE *	*000	N C	Pittsburgh, Pa.	Gimbel Bros.
TUAL T	· 1000	<u> </u>	Tampa, Fla.	Tampa Publishing Co.

X+ DNC IN 500 WCAD 500 WCAE * 1000 WDAE * 1000 * 1000

1230 kilocycles

	100	
-	250	+
	1000	
	1000	2
*	1000	1C
*	1000	2C
	500	D
*	500	1
		- 250 - 1000 - 1000 * 1000 * 1000 - 500

1240 kilocycles

1

1 C

KTAT		1000
WACO	t	1000
-WXYZ	*	1000

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

243.8 meters

Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. 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 Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc. Pennsylvania State College South Bend Tribune

Tampa Publishing Co. Jenny Wren Co.

T2 Texas Air Transport Brdcst. Central Texas Broadcasting Co., Inc. Kunsky-Trendle Broadcasting Corp.

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1250	kil	ocyc	les
KFMX	-'-	1000	2
KFOX	*	1000	
KIDO		1000	
-WAAM	*	1000	1 -+
WCAL		1000	2
WDSU		1000	С
WGCP		250	1
WGMS		1000	2
WLB		1000	2
WODA		1000	1
-WRHM	*	1000	2
		500	ĊF

1260 kilocycles

ROIL	*	1000	С
KRGV	2:	50 0	1
KVOA		500	D
KWWG		500	1
-WLBW		500	C+
WTOC	*	500	C

1270 kilocycles

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

1280 kilocycles

CMCE		100	1285
KFBB		1000	+
-WCAM		500	1
WCAP	*	500	1
-WDOD	*	1000	+C
-WOAX		500	- 4
WRR		500	C

1290 kilocycles

KDYL	*	1000	С
KFUL		500	1
KLCN	*	50	D
KTSA	t	1000	1+C
WEBC		1000	+N
-WJAS	*	1000	Ċ
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	ī
WIOD		1000	Ň
WOO	*	1000	2
NUT F	1	1000	4
MI	for		_
1310	kil	ocyc	les
1010	****	ocyc.	103
KCRJ	+	100	
KFBK		100	
KFGO		100	7
KFIU		10	/
KFIY	8	100	7
NELL	0	100	/

238.0 meters

239.9 meters Northfield, Minn.

Long Beach, Cal. Boise, Idaho Newark, N. J. Northfield, Minn.

New Orleans, La. Newark, N. J. St. Paul, Minn. St. Paul, Minn.

Paterson, N. J. Minneapolis, Minn. Little Rock, Ark.

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

236.1 meters

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

s 234.2 meters

Havana, Cuba 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.

230.6 meters

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

228.9 meters

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

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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. KRGV, Inc. Robert M. Riculfi Chamber of Commerce Radio-Wire Program Corp. Savannah Broadcasting Co.

0-4

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

Julio E. Power

Buttrey Broadcast, Inc. City of Camden Radio Industries Broadcast Co. Chattanooga Radio Co., Inc. WOAX, Inc. City of Dallas

ксүз. 1310 гр. мтгя.

Intermountain Broadcasting Corp. Will H. Ford C. L. Lintzenich Lone Star Broadcast Co. Head of Lake Broadcasting Co. Pittsburgh Radio Supply House Smith & Mace 1310 MTRS. 228.9 DIAL

Radio Station KFH Co. Ashley C. Dixon & Son Trinity Methodist Church Bible Institute of Los Angeles M. E. Brown People's Pulpit Association Debs Memorial Radio Fund, Inc. Defenders of Truth Society, Inc. Rensselaer Polytechnic Institute Isle of Dreams Broadcasting Corp. Unity School of Christianity

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

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KFPL KFPM KFSDY KFGBX KGCZ KGCZ KGCZ KGCZ KGCZ KGCZ KGCZ KGCZ	* - * + * * * * * *	$\begin{array}{c} 100\\ 15\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ $	$\frac{8}{9} \times \frac{9}{2} \times \frac{9}$	Dublin, Texas Greenville, Texas Denver, Colo. Edgewater, Colo. Oklahoma City St. Joseph, Mo. Wolf Point, Mont. Kalispell, Mont. Ravenna, Neb. Yakima, Wash. Medford, Ore. Shreveport, La. Houston, Tex. Shreveport, La. El Paso, Texas Cedar Rapids, Iowa Aberdeen, Wash. Royal Oak, Mich. Terre Haute, Ind. Wilkes-Barre, Pa. Joliet, III. El Paso, Texas Buffalo, N. Y. Altoona, Pa. Flint, Mich. Philadelphia, Pa. Newport News, Va. Philadelphia, Pa. Poynette, Wis.	C. C. Thitzs R. G. Exchange KGB2 First Chan O. F. Carl Mrs. Robe House W. S. Harr, KXR Bauki W. S. Harr, KXR Bauki W. S. Fran Foull Howe Wm. Fran Foull Ham Index House W. S.
KTSM			ź	El Paso. Texas	
			7		Harry
KXRO				Aberdeen, Wash.	
				Royal Oak, Mich.	
	*				
	*				
WDAH			2	El Paso. Texas	
	*			Buffalo, N. Y.	Howe
		100	3		Wm.
			4		
			5	Lancaster, Pa.	
					Inder
					Willia
WJAC		100	3	Johnstown, Pa.	John
WJAK	*	50	6	Marion, Ind.	Marie
WKAV	*	100	1210	Laconia, N. H.	Lacor
WKBB		100	1	Joliet, Ill.	Sand R. B.
WKBC WKBS	*	100 100	~	Birmingham, Ala. Galesburg, Ill.	Perm
WLBC	+	50	6	Muncie, Ind.	Dona
WMBO	+	100		Auburn, N. Y.	Radio
WNBH	*	100		New Bedford, Mass.	New
WNBJ		50		Knoxville, Tenn.	Stewa
WOBT	*	100	+	Union City, Tenn.	Titts
WOL WRAW	*	100 100	5XZ	Washington, D. C. Reading, Pa.	Amer Read
WRK	-	100	372	Hamilton, Ohio	Ham
WSAJ	*	100		Grove City, Pa.	Grov
WSJS		100		Winston-Salem, N. C.	Wins
11313		100		minscon-odieni, in Co	** 1113

1320 kilocycles 227.1 meters

		•	
KGHF		250	X+
KGIQ		250	1
KGMB		500	
KID		500	1+
-WADC		1000	C
WSMB	* .	500	N

Pueblo, Colo Twin Falls, Idaho Honolulu, Hawaii Idaho Falls, Idaho Akron, Ohio New Orleans, La.

225.4 meters

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

1330 kilocycles

KGB	*	250	х
KSCJ		1000	1+C
WDRC		500	007
WSAI	*	500	N
WTAQ	*	1000	1
XEC		50	1333

1340 kilocycles 223.7 meters

KFPW 50 D Fort Smith, Ark KFPY 1000 C Spokane, Wash. WSPD 500 C Iledo, Ohio

1350 kilocycles

WBNY	*	250	1
-WCDA		250	1
-WKBQ WMSG		250	1
WMSG		250	1

223.7	meters
Fort Sr	nith, Ark.
Spokan	e, Wash.

Toluca, Mex.

222.1 meters

St. L	ouis, Mo.
New	York City

Baxter New Furniture Co. simmons General Hospital . Howell ange Ave. Baptist Church X Inc. t State Bank of Vida mber of Commerce Sothman and R. H. McConnell E. Haymond W. J. Virgin ert M. Dean ston Broadcasting Co. . Houseman Bledsoe & W. T. Blackwell ry F. Paar RO, Inc. al Oak Broadcasting Co. ks of Wabash, Inc. s G. Baltimore LS, Inc. e Broadcasting Co. ell Broadcasting Co., Inc. F. Gable Co. ik D. Fallain Ikrod Radio Engineering Co. AL, Inc pton Roads Broadcasting Corp. ependence Broadcasting Co. iam C. Forrest stown Automobile Co. ion Broadcasting Co. ders Bros. Radio Station Broyles Furniture Co. nil N. Nelson ald A. Burton o Service Laboratories Bedford Broadcasting Co. vart Broadcasting Co. sworth's Radio & Music Shop rican Broadcasting Co. ding Broadcasting Co. nilton Radio Service ve City College Iston-Salem Journal Co.

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C. P. Ritch Radio Broa	ie & J. E. Fin deasting Corr	ch

Radio Broadcasting Corp. Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Allen T. Simmons Saenger Theatre & Maison Blanche Co.

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

John Symc	Bro	wn S	chool	s		
Symo	ns l	Broad	casti	ng Co	.	
Toled	$o B_1$	obsor	astin	a Co	100	

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

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1360 kilocycles 220.4 meters

CMKC		150	1364	Santiago de Cuba
KGER	*	1000	4	Long Beach, Cal.
KGIR		500		Butte, Mont.
KPSN		1000	4	Pasadena, Cal.
WCSC		500	CP	Charleston, S. C.
WFBL	*	1000	С	Syracuse, N. Y.
-WGES	\	500	1+	Chicago, Ill.
-WJKS	*	1000	1+	Gary, Ind.
WQBC		300		Vicksburg, Miss.

1370 kilocycles 218.7 meters

KCRC	t	100	$\frac{2}{3}$	Enid, Okla.
KFBL		50	3	Everett, Wash.
KFJI		100		Astoria, Ore.
KFJM KFJZ	Ť	100		Grand Forks, N. D.
KE17		100	x	Ft. Worth, Texas
KFLX				
		100	+	Galveston, Texas
KGAR	*	100	+	Tucson, Ariz.
KGDA	†	100		Mitchell, S. D.
KGFG		100	2	Oklahoma City
KGFL		50		Ratan, N. M.
KGKL	+	100		San Angelo, Texas
KMAC		100	5	San Antonio, Texas
KONO	†	100	5	San Antonio, Texas
KÖÖS		100	0	Marshfield, Ore.
KRE		100	6	Berkeley, Cal.
KVL		100	3	Seattle Week
KWKC			3	Seattle, Wash.
		100	ē	Kansas City, Mo.
KZM	7 -	100	0	Hayward, Cal.
WBGF	ţ	50		Glens Falls, N. Y.
WBTM	†	100	7	Danville, Va.
-WCBM		100	+z	Baltimore, Md.
WELK		100	+	Philadelphia, Pa.
WFDV		100		Rome, Ga.
WGL		100		Fort Wayne, Ind.
WHBD	*	100		Mount Örab, Ohio
WHBO		100		Memphis, Tenn.
WHDF		100	+	Calumet Mich.
WIBM		100	1	Calumet, Mich. Jackson, Mich.
WJBK		50	î	Detroit, Mich.
-WLEY		100		Lexington, Mass.
WLVA	ŧ.	100	+	Lynchburg, Va.
WMBR	t	100	,	Tampa, Fla.
WPOE	1	100		
WQDM	*	5	D	Patchogue, N. Y.
WDAV	-1-		D	St. Albans, Vt.
WRAK		50		Williamsport, Pa.
WRBJ		10	- * -	Hattiesburg, Miss.
WRBT	*	100		Wilmington, N. C. Racine, Wis.
WRJN		100		Racine, Wis.
-wsvs		50		Buffalo, N. Y.
WRDO	ş	100	CP	Augusta, Me.

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

Champlin Refining Co. Leese Bros. KFJI Broadcasters, Inc. University of North Dakota Estate of H. C. Meachem George Roy Clough Tueson Motor Service Co. Mitchell Broadcasting Corp. Faith Tabernacle Assn. W. E. Whitmore KGKL, Inc., Opr. by Ragsdale Auto Radio Sam Broadcast Co., Inc. Mission Broadcasting Co. H. H. Hanseth H. H. Hanseth First Congregational Church KVL, Inc. Wilson Duncan Broadcasting Co. Leon P. Tenney W. N. Parker and H. H. Metcalfe Clarke Electric Co. Baltimore Broadcasting Corp. 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 Lynchburg Broadcasting Corp. F. J. Reynolds Nassau Broadcasting Corp. Nassau Broadcasting Corp. A. J. St. Antoine C. R. Cummins Woodruff Furniture Co., Inc. Wilmington Radio Association Racine Broadcasting Corp. Seneca Vocational School Albert S. Woodson

1380 kilocycles

217.3 meters

KQV	t	500	2
KŠO	*	500	1
WKBH	*	1000	1
-WSMK		200	2

1390 kilocycles

*

*

1000

1000

1000

500

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KLRA

KŬŌA

WHK

KOY

Pittsburgh, Pa. Clarinda, Iowa La Crosse, Wis. Dayton, Ohio

215.7 meters

Little Rock, Ark.

Phoenix, Ariz. Fayetteville, Ark.

Cleveland, Ohio

Doubleday-Hill Electric Co. Berry Seed Co. WKBH, Inc. Stanley M. Krohn, Jr.					
72					

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

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KCYS. 1390 MTRS. 215.7DIAL

1400 kilocycles 214.2 meters Havana, Cuba Ogden, Utah Chickasha, Okla. 200 1405 Lino E. Cosculluala ÷. Peery Building Co. 500 x 2k 250 College for Women Purdue University + Lafayette, Ind. Brooklyn, N. Y. Brooklyn, N. Y. 500 1 500 2 Brooklyn Broadcasting Corp. 500 2 U. S. Broadcasting Corp. General Broadcasting Corp. Indianapolis Broadcasting, Inc. The Voice of Brooklyn, Inc. 500 ī Culver, Ind. -* Indianapolis, Ind. Brooklyn, N. Y. Brooklyn, N. Y. 500 1 * 500 ž ĩ 500 Paramount Broadcasting Co.

1410 kilocycles

CMBY

KOCW WBAA

WBBC

WCGU WCMA

WCMA WKBF WLTH WSGH

KFLV	+	500	4
KGRS		1000	1
WBCM	*	500	С
WDAG		250	1X
WHBL	*	500	4
WLEX		500	2
WMAF		500	2
WODX		500	3
WRBX	*	250	
WSFA	+	500	3
WSSH	+	500	2

212.6 meters

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

1420 kilocycles 211.1 meters

		•		
KBPS		100	4	Portland, Ore.
KFIZ		100		Fond du Lac, Wis.
KFQU	*	100	5X.	Holy City, Cal.
KFØW		100		Seattle, Wash.
KFXD		100	XY	Nampa, Idaho
KFXY		100		Flagstaff, Ariz.
KFYO		100	+	Abilene, Texas
KGFF		100		Alva, Okla.
KGGC		100	5	San Francisco, Cal.
KGIW		100		Trinidad, Colo.
KGIX		100		Las Vegas, Nevada
KGKX		100		Sand Point, Idaho
KICK	*	100		Red Oak, Iowa
KLPM	+	100		Minot, North Dakota
KORE		100		Eugene, Ore.
KTAP	Sec.	100		San Antonio, Texas
KTUE	1.4.4	100	X	Houston, Texas
KXL		100	4	Portland, Ore.
-WEDH	*	30		Erie, Pa.
WEHS		100	2	Evanston, Ill.
WELL		50	X	Battle Creek, Mich.
WFDW	*	100		Talladega, Ala.
WHDL	Ś	10	D	Tupper Lake, N. Y.
WHFC		100	2	Cicero, Ill.
WHIS	+	100		Bluefield, W. Va.
WIAS		100		Ottumwa, Iowa
WIBR		50		Steubenville, Ohio
WILM		100		Wilmington, Del.
WJBO	0.×	100		New Orleans, La.
WKBI	*	50	2X	Chicago, Ill.
WLBF		100	-	Kansas City, Kas.
WMBC		100	\mathbf{X}	Detroit, Mich.
WMBH		100	+	Joplin, Mo.
WPAD	+	100	CP	Paducah, Ky.
WSPA	*	100	+	Spartanburg, S. C.
WTBO	*	100		Cumberland, Md.

1430 kilocycles 209.7 meters

KECA	1	1000	N
KGNF	÷	500	D
WBAK		500	1X +
-WCAH	*	500	1C
WGBC	*	500	2
-WHP	*	500	1C
WNBR	*	500	2

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

Press Pub. Co. Lexington Air Stations

Rockford Broadcasters, Inc. **Gish Radio Service**

Round Hills Radio Corp. Mobile Broadcasting Corp

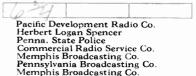
Richmond Development Corp.

James E. Davidson National Radio & Broadcasting Corp.

Montgomery Broadcasting Co., Inc.

Tremont Temple Baptist Church

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



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1440 kilocycles	208.2 meters	tek.	
KLS * 250 D WABO - 500 2 WCBA - 250 1	Oakland, Cal. Rochester, N. Y. Allentown, Pa. Rochester, N. Y. Peoria Heights, III. Greensboro, N. C. Poughkeepsie, N. Y. Allentown, Pa. Quincy, III.	Warner Bros. Hickson Electric & Radio Corp. B. B. Musselman Hickson Electric & Radio Corp. 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	4	
KTBS 1000 WBMS 250 1 WCSO 500 2 WFJC 500 2N WHOM 250 1 WKBO 250 1 WKBO 250 1 WKBO 250 1 WKBA 250 1 WKB 250 1 WSAR 250 1 WTFI 500	Shreveport, La. Hackensack, N. J. Springfield, Ohio Akron, Ohio Jersey City, N. J. Jersey City, N. J. Newark, N. J. Fall River, Mass. Toccoa, Ga.	Tri-State Broadcasting System, Inc. WBMS Broadcasting Corp. Wittenberg College W. F. Jones Broadcast, Inc. New Jersey Broadcasting Corp. Camith Corp. Radio Investment Co. Doughty & Welch Electric Co., Inc. Toccoa Falls Institute	
1460 kilocycles	205.4 meters		
-KSTP * 10000 NX -WJSV * 10000	St. Paul, Minn. Alexandria, Va.	National Battery Broadcasting Co. Independent Publishing Co.	
1470 kilocycles	204.0 meters	5-34	
KGA † 5000 -WLAC - 5000 IC -WTNT - 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 5000 C WKBW * 5000 C	Oklahoma City Buffalo, N. Y.	National Radio Mfg. Co. Buffalo Broadcasting Co., Lessees	•
1490 kilocycles	201.2 meters	34	- 1
WCHI5000 1 WCKY *5000 1N WJAZ5000 1 WORD5000 1	Chicago, Ill. Covington, Ky. Chicago, Ill. Chicago, Ill.	Radiophone Broadcasting Corp. L. B. Wilson, Inc. Zenith Radio Corp. People's Pulpit Association	
1500 kilocycles	199.9 meters	5	3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Santa Barbara, Cal. Corpus Christi, Texas Moorhead, Minn. Grant City, Mo. Brownwood, Texas Scottsbluff, Nebr. Prescott, Ariz. Wenatchee, Wash. Santa Ana, Cal. Longview, Wash. Austin, Texas Boston, Mass. Long Beach, N. Y. Connersville, Ind. Ludington, Mich. Long Island City, N. Y. Boston, Mass. Newport, R. I. Wilkinsburg, Pa. Brooklyn, N. Y. Lapeer, Mich. Binghamton, N. Y. Bristol, Tenn. Phildelphia, Pa. Tupelo, Miss. Augusta, Ga. Woodside, N. Y.	Dwight Faulding Eagle Broadcasting Co., Inc. Lautzenheiser & Mitchell Grant City Park Corp. Eagle Publishing Co. Hilliard Co., Inc. Miller & Klahn Wescoast Broadcasting Co. Pacific Western Broadcasting Columbia Broadcasting Co., Inc. Rice Hotel Boston Broadcasting Co. Arthur Faske Knox Battery & Electric Co. K. L. Ashbacker John N. Brahy Boston Broadcasting Co. LeRoy Joseph Beebe Rev. J. W. Sproul Paul J. Gollhofer First M. P. Church Hewitt-Wood Radio Co., Inc. Radiophone Brdestg. Station, Inc. Wm. Penn Broadcasting Co. Blair & Anderson Warren C. Davenport's Musicove, Inc. Long Island Broadcasting Corp.	кс уз. 1500 мtrs. 199.9 DIAL
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				1			
ALABAMA	Watts		Kcys.	San Jose J-1	500	KQW KREG	1010
Birmingham O-21	5000	WAPI	1140	Santa Ana M-3	100 100	KREG	1500 1500
	500	WBRC	930	Santa Barbara M-2 Santa Maria L-2	100	KDB KSMR	1200
	100	WKBC	1310	Stockton J-2	250	KGDM	1100
Gadsden O-21 Mobile O-20	50 500	W JBY WODX	1210 1410		100	KWG	120
Montgomery P-21	500	WSFA	1410	CANAL ZONE			
Talladega O-21	100	WFDW	1420	Balboa FF-26	750	NBA	856
ALASKA				COLORADO			
Anchorage	100	KFQD	1230	Colorado Springs K-1	1000	KFUM	1270
Juneau	10	KFIU	1310	Denver K-11	500	KFEL	92
Ketchikan	500	KGBU	900		100	KFUP	1310
ARIZONA				5	500	KFXF KLZ	920
Flagstaff M-7	100	KFXY	1420		1000 12500	KOA	56 83
Jerome M-6	100	KCRJ	1310		500	KPOF	88
Phoenix N-6	500	KCRJ KOY	1390	Edgewater K-10	50	KFXJ KGEW KFKA	131
Discouth M. 6	500 100	KTAR	620 1500	Fort Morgan J-11	100 500	KGEW	120 88
Prescott M-6	100	KP JM KGAR	1370	Greeley J-11 Gunnison K-9	50	KFHA	120
Tucson O-7	500	KVOA	1260	Pueblo L-11	250	KGHF	132
				Trinidad L-11	100	KGIW	142
ARKANSAS				Yuma J-12	50	KGEK	120
Blytheville M-19	50	KLCN KUOA	1290 1390	CONNECTICUT			
Fayetteville M-16 Fort Smith N-16	1000 50	KFPW	1340	Bridgeport H-27	500	WICC	119
Hot Springs N-17	10000	KTHS	1040	Hartford H-27	50000	WTIC	106
Little Rock N-17	100	KGHI	1200	New Haven H-27	500	WDRC	133
	250 1000	KGJF KLRA	890 1390	Storrs H-28	250	WCAC	60
	500	RLRA	1250	DELAWARE			
Paragould M-18	100	KBTM	1200	DELAWARE			
			۰.	Wilmington J-26	250 100	WDEL WILM	112
CALIFORNIA							
Berkeley J-2 Burbank M-3	100 500	KRE KELW	1370 780	DISTRICT OF O	COLU	MBIA	
Culver City M-3	250	KEVD	1000	Washington J-26	250	WMAL	63
El Centro N-4	100	KXO	1200		500	WRC	. 95
Fresno K-2	100	KMI	1210	FLORIDA	100	WOL	131
Hayward J-1 Hollywood M-3	100 1000	KZM KFWB	1370 950				()
Honywood M-5	5000	KNX	1050	Clearwater R-24 Gainesville Q-24	1000 5000	WFLA WRUF	62 83
Holy City M-3	100	KFQU	1420	Jacksonville 0-24	1000		90
Inglewood M-3	500	KMIC	1120	Jacksonville Q-24 Miami T-25 Miami Beach T-25	1000	W JAX WQAM	56
Long Beach M-3	1000 1000	KFOX KGER	1250 1360	Miami Beach T-25	1000	WIOD	130
Los Angeles M-3	1000	KECA	1430	Orlando R-24 St. Petersburg S-24	500 1000	WDBO WSUN	112 62
9	5000	KFI	640	Tampa R-24	1000	WDAE	122
	500 1000	KFSG KGEF	1120		100	WMBR	137
	1000	KGFJ	1200	GEORGIA			
	1000	KHI	900	Atlanta O-22	250	WGST	89
	500	KMPC	710 570		5000	WSB	74
	500 500	KMTR KTM	570 780	Augusta O-23	100	WRDW	150
	1000	KTBI	1300	Columbus O-22 Macon O-23	50 250	WRBL WMAZ	120
Oakland J-1	250	KLS	1440	Rome N-22	100	WFDV	137
	500	KLX	880	Savannah O-24	500	WTOC	126
Pasadena M-3	500 50	KROW KPPC	930 1210	Thomasville Q-22	_50	WODX	121
i asastia ivi-s	1000	KPSN	1360	Toccoa N-23	500	WTFI	145
Sacramento J-2	100	KFBK	1310	HAWAII			
San Bernardino M-3		KFXM	1210 600	Honolulu	500	KGMB	132
San Diego N-3	500 250	KFSD KGB	1330	Honolulu	500	KGU	94
San Francisco J-1	1000	KRFC	610	IDAHO			
	500	KFWI	930		1000	KIDO	125
	100 7500	KGGC KGO	1420 790	Boise G-5 Idaho Falls G-7	500	KID	132
	100	KJBS KPO	1070	Nampa G-5	50	KFXD	142
	5000	KPO	680	Pocatello H-7	250	KSEI	90
	1000 1000	KTAB KYA	560 1230	Sand Point D-6 Twin Falls H-6	100 250	KGKX KGIQ	142 132
	1000	N I A	1230	II . WILL ALLS 11-0	200	THONY &	102

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ILLINOIS	Watts		Kcys.	Ottumwa J-17	100	WIAS	-1420
Carthage J-18	50	WCAZ	1070	Red Oak J-16 Shenandoah J-16	100 500	KICK KFNF	1420 890
Chicago I-20	$10000 \\ 10000$	KFKX	1020 1020		500	KMA	930
	500	K YW WAAF	920	Sioux City I-15 Waterloo I-17	$1000 \\ 500$	KSCJ WMT	1330 600
	25000 1000	WBBM WCFL	770 970				
	5000	WCHI	1490	KANSAS			
	100 100	WCRW WEDC	1210 1210	Dodge City L-13	100	KGNO	1210
	50000	WENR	870	Gueda Springs Kansas City K-16	250 100	WLBF	680 1420
	500 25000	WGES WGN	1360 720	Lawrence K-16	1000	KFKU	1220
	1000	WIBO	560	Manhattan K-15	$1000 \\ 500$	WREN KSAC	1220 580
	5000 25000	WJAZ WJBT	1490 770	Milford K-14	5000	KFKB WIBW	1050 580
	50	WKBI	1420	Topeka K-16 Wichita L-15	500 1000	KFH	1300
	25000 5000	WLIB WLS	720 870				
	5000	WMAQ	670	KENTUCKY			
	5000 5000	WMBI	1080 1490	Covington K-22	5000	WCKY WFIW	1490 940
	5000	WPCC	560	Hopkinsville M-20 Louisville L-21	1000 10000	WHAS	820
C: 1.20	100	WSBC	1210		30	WLAP	1200
Cicero I-20 Decatur K-19	100 100	WHFC WJBL	1420 1200	Paducah M-19	100	WPAD	1420
Evanston I-20	100	WEHS	1420	LOUISIANA			
Galesburg J-18 Harrisburg L-19	100 100	WKBS WEBQ	1310 1210	Haynesville P-17	10		1120
Joliet I-19	100	WCLS	1310	Monroe P-18	50	KMLB	1200
La Salle J-19	100 100	WKBB WIBC	1310 1200	New Orleans R-19	$100 \\ 1000$	WABZ WDSU	1200 1250
Mooseheart I-19	20000	W JBC W J JD WMBD	1130		100	W JBO W JBW	1420
Peoria Heights J-19 Quincy K-18	500 500	WMBD WTAD	$\begin{array}{c}1440\\1440\end{array}$	· · ·	30 500	W JBW WSMB	1200 1320
Rockford I-19	500	KFLV	1410		5000	WWL	850
Rock Island I-18 Springfield K-19	100 100	WHBF	1210 1210	Rayne Q-18 Shreveport P-17	150 50	KRMD	1120 1310
Streator J-19	50	WCBS WTAX	1210	Shreveport r=1/	1000	KTBS	1450
Streator J-19 Tuscola K-20	100 250	WDZ WILL	1070 890		100 100	KTSL KWEA	1310 1210
Urbana J-20 Zion I-20	5000	WCBD	1080		10000	KWKH	850
				/ MAINE			
INDIANA				Augusta F-28	$\begin{array}{c} 100 \\ 100 \end{array}$	WRDO WABI	1370 1200
Anderson J-21	100	WHBU	1210	Bangor F-29	500	WLBZ	620
Connersville K-21 Culver I-20	100 500	WKBV WCMA	1500 1400	Portland F-28	1000	WCSH	940
Evansville L-20	500	WGBF	630				
Fort Wayne J-21	100 10000	WGL WOWO	1370 1160	MARYLAND			
Gary I-20	1000	WJKS WWAE	1360	Baltimore J-26	10000 250	WBAL	1060 600
Hammond I-20 Indianapolis J-21	100 1000	WWAE	1200 1230		100	WCAO WCBM	1370
	500	WKBF	1400	Combastand I 25	250 100	WFBR WTBO	1270 1420
Lafayette J-20 La Porte I-20	500 100	WBAA WRAF	1400 1200	Cumberland J-25	100	" I BO	1420
Marion J-21	50	W JAK WLBC	1310	MASSACHUSET	TS		
Muncie J-21 South Bend I-20	50 500	WLBC WSBT	1310 1230	Auburn H-27	1000	WHDH	830
Terre Haute K-20	100	WBOW	1310	Boston G-28	50	WBBS	1500
					1000 500	WBIS WBZA	1230 990
IOWA					1000	WEEI	590
Ames I-17 Boone I-17	5000 100	WOI KFGQ	640 1310		100 1000	WLOE WNAC	1500 1230
Cedar Rapids I-18	100	KWCR	1310		500	WSSH	1410
Clarinda J-16	500 1000	KSO KOIL	1380 1260	Fall River H-28 Lexington G-28	250 500	WSAR WLEX	1450 1410
Council Bluffs J-16 Davenport I-18	5000	WOC	1000		100	WLEY	1370
Decorah H-18	50 100	KGCA KWLC	1270 1270	New Bedford H-28 S. Dartmouth H-28	100 500	WNBH WMAF	1310 1410
Des Moines I-17	5000	WHO	1000	Springfield H-27	15000	WBZ	990
Fort Dodge I-16	100 500	KFJY WSUI	1310 880	Wellesley Hills G-28 Worcester G-28	500 100	WBSO WEPS	920 1200
Iowa City I-18 Marshalltown I-17	500 100	KFJB	1200		100	WORC	1200
Muscatine J-18	5000	KF JB KTNT	1170	9	250	WTAG	580
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MICHIGAN	Vaits		K çy s.	NEBRASKA	Watts		Kcys.
Battle Creek I-21	50	WELL	1420	Clay Center	1000	KMMJ	740
Bay City H-22 Berrien Springs I-20	500 1000	WBCM WEMC	1410 590	Lincoln J-15	5000 100	KFAB KFOR	770 1210
Calumet E-19	100 50	WHDF	1370 1370	N. 6 11- T 17	500	WCAJ	590
Detroit H-22	5000	WJBK WJR WMBC	750	Norfolk I-15 North Platte J-13	1000 500	W JAĞ KGNF	1060 1430
	100 1000	WMBC WWI	1420 920	Omaha J-15	500 1000	WAAW WOW	660 590
	1000	WXYZ	1240	Ravenna J-14	1000	KGFW	1310
East Lansing H-21 Flint H-22	1000 100	WKAR WFDF	1040 1310	Scottsbluff I-11	100 500	KGKY KGBZ	1500
	100	WPDF	1200	York J-15	300	ROD	930
Grand Rapids H-21	500 500	WASH WOOD	1270 1270	NEVADA			
Jackson I-21	100	WIBM	1370				
Lapeer H-22 Ludington H-20	100 50	WMPC WKBZ	1500 1500	Las Vegas L-5 Reno I-3	100 100	KGIX KOH	1420 1380
Royal Oak H-22	50	WAGM	1310		100	ROII	1000
				NEW HAMPSH	IDE		
MINNESOTA				Laconia G-28		WKAV	1310
Fergus Falls F-15	100	KGDE	1200	Lacoma G-28	100	****	1310
Minneapolis G-17	7500	wcco	810	NEW TEDSEY			
	$1000 \\ 500$	WDGY WHDI	1180 1180	NEW JERSEY			
Manda and E 15	1000	WRHM	1250	Asbury Park I-27 Atlantic City J-27	500 5000	WCAP WPG	1280 1100
Moorhead F-15 Northfield G-17	50 1000	KGFK KFMX	1500 1250	Camden I-26	500	WCAM	1280
	1000	WCAL	1250 1250	Hackensack I-27 Jersey City I-27	250 300	WBMS WAAT	1450 940
St. Paul G-17	$1000 \\ 1000$	WGMS WLB	1250	jersey ency 1-27	250	WHOM	1450
	10000	KSTP	1460	Newark I-27	250 1000	WKBO WAAM	1450 1250
MISSISSIPPI					250	WGCP	1250
Greenville O-19	100	WRBO	1210		250 5000	WNJ WOR	1450 710
Gulfport Q-19	100	WGCM	1210	Paterson I-27	1000	WODA	1250
Hattiesburg Q-19	10 500	WRBJ	1370 1270	Red Bank I-27 Trenton I-26	100 500	WJBI WOAX	1210 1280
Jackson P-19 Meridian P-20	500	WRBJ WJDX WCOC	880				
Tupelo N-20 Vicksburg P-18	100 300	WQDV WQBC	1500 1360	NEW MEXICO			
VICKSDUIG 1-10	000	"QDC	1000		250	KGGM	1230
N (1000) TO 1				Albuquerque N–7 Raton M–11	50	KGFL	1370
MISSOURI				State College P-9	20000	ков	1180
Cp. Girardeau L-19	100	KFVS	1210				
Columbia K-17 Grant City J-16	500 50	KFRU KGIZ	630 1500	NEW YORK			
Jefferson City L-17 Joplin M-16	500	KGIZ WOS	630 1420	Auburn H-25	100	WMBO	1310
Kansas City K-16	100 1000	WMBH KMBC	950	Binghamton H-26	100	WNBF	1500
······	100	KWKC	1370	Brooklyn I-27	500 1000	WBBC WBBR	1400
	1000 500	WDAF WHB	610 860		500	WCGU	1400
St. Learnin IV 16	1000	WOQ KFEQ	1300 680		500 100	WLTH WMBQ	1400 1500
St. Joseph K-16	2500 100	KGBX	1310	D	500	WSGH	1400
St. Louis L-18	5000	KFQA KFUO	1090 550	Buffalo H-24	$1000 \\ 100$	WBEN WEBR	900 1310
	500 100	KFWF	1200		1000	WGR	550
	5000	KMOX	1000 550		5000 1000	WKBW WMAK	1480 1040
	500 1000	KSD KWK	1350		750	WMAK	900
	1000 100	WEW WIL	760 1200	Canton F-26	50 500	WSVS WCAD	1370 1220
	100	WMAY	1200	Cazenovia G-25	250	WMAC	570
- MONTANA				Freeport I-27 Glens Falls G-27	1000 50	WGBB WBGF	1210 1370
	500	кон	950	Ithaca H-25	1000 1000	WEAI	1270 1210
Billings F-9 Butte F-7	500	KGHL KGIR	1360	Jamaica H-27	100	WMRJ	1210
Great Falls E-8	1000 100	KFBB KGEZ	1280 1310	Jamestown H-24 Long Island City I-2	25 7 100	WOCL WLBX	1210 1500
Kalispell D-7 Wolf Point E-11	100	KGCX	1310	Long Beach I-27	100	WGLB	1500
			122				

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$\begin{array}{c c c c c c c c c c c c c c c c c c c $								
250 WBNY 1350 Alva M-14 100 KGF 5000 WEDQ 850 Alva M-14 100 KGF 5000 WEDQ 1300 Elk City N-13 100 KGF 5000 WEDD 1300 Elk City N-13 100 KGF 5000 WEDQ 8600 Norman N-15 5000 WEDQ 1000 WHD 1010 Norman N-15 5000 KFH 30009 WEDQ 8600 Norman N-15 5000 KGF 5000 WHD 1010 KGF 1000 KGF 5000 WHCA 100 KGF 1000 KGF 5000 WHCA 100 KGF 1000 KGF 7250 WOCA 1400 Corvalis E-2 1000 KKF 7000 WPCE 1370 Marshfield F-1 100 KOD 8 S000 WHA 1300 KErge 100 KErge					860	WARC	5000	New York City I-27
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Kcys.		*			WBNY		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		KGFF		Alva M-14	860	WBOQ	5000	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	V 1400 P 1210	KOUW	100	File City N-13				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1370	KCRC	100	Enid M-15		WEAF		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	D 1010	WNAD	500			WGBS		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1480	KFJF		Oklahoma N-15		WHAP		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	t 1310 1370	KFXR				WHN		•
	a 1370 900	WKY			760	WJZ		
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $) 1140	KVOO	5000	Tulsa M-16	1350	WMSG		
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					1130	WOV		
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Patchogue 1-27 100 WPOE 1370 Medford G-2 50 KMedford G-2 500 KKe Sochester G-25 500 WHEC 1440 1000 KGP 1000 KGP Syracuse G-25 1000 WFBL 1360 1000 KOP 1000 KCP Tupper Lake F-26 100 WHAZ 1300 KWR 1000 KCP 100 KCD Vonkers I-27 100 WCOH 1210 Adamsburg 100 WGA Asheville M-23 1000 WKNC 1210 Adamsburg 100 WGB Charlotte M-24 500 WBT 1800 Frie H-24 30 WEG Greensboro M-24 500 WRBT 1370 Medford G-2 500 WBA Minot E-13 1000 KFTR 550 100 WSA <td></td> <td></td> <td></td> <td>Marshfield F-1</td> <td></td> <td>WRNY</td> <td></td> <td></td>				Marshfield F-1		WRNY		
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Rochester G-25 500 WABO 1440 140 100 KBP 500 WHEC 1440 1000 KFJI 500 KFJI Saranac Lake F-26 00 WFBL 1360 1000 KGW 1000 KGW Syracuse G-25 1000 WFBL 1360 1000 KGW 1000 KGW Troy G-27 500 WHAZ 1300 KWL 1000 KWJ Woodside I-27 100 WEX 1200 Adamsburg 100 WGA Yonkers I-27 100 WCOH 1210 Adamsburg 100 WGA NORTH CAROLINA 500 WBU 1210 Adamsburg 100 WGB Charlotte M-24 500 WRBT 1370 WBT 680 100 WGA Releigh M-25 1000 WBT 680 100 WGA 1400 WL 100 WGA NORTH DAKOTA 1000 WFF 680 100 WGA 100 WGA 100 WGA 500 100 WEA	1180	KEX	5000	Portland E-3	1440	WOKO		Poughkeepsie H-27
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1420	KBPS		ľ	1440	WABO		Rochester G-25
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1300					WHAM		
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		KTRR			1290			Schenectady G-27
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		KWII						Svracuse G-25
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1420	KXL				WSYR		
Iupper Lake F-2610WHDL1420Iteration for the first formWoodside I-27100WERL1500Yonkers I-27100WCCH1500NORTH CAROLINA1210AdamsburgAllentown I-26250Asheville M-231000WWNC570Charlotte M-245000WBT1080Gastonia M-24100WRBU1210Greensboro M-24500WRC1440Kilmington N-26100WRBT1370Winston-Salem M-24100WRBT1370NORTH DAKOTA1000KFYR550Bismarck F-131000KFYR550Devils Lake E-14100KDLR1210Minot E-13100KFJM1370Minot E-13100KGCU1200OHIO500WFIC1320Canton I-23100WADC1320Cleveland I-231000WKRC550500WJAY6105000WIAK1330Cleveland I-231000WKRC500WJAY6105000WIAM1000Columbus J-22500WAIU600WAAL6105000WIAM1070600WAIU640500WACH1430600WAIU640500WAIU640500WCAH1430Wilkes-Barre I-26100600WAIU640600				DENNSYLVANI	1300	WHAZ	500	
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Yonkers I-27 100 WCOH 1210 Altoona I-25 250 WSA NORTH CAROLINA Altoona I-25 100 WFB 1210 Altoona I-25 100 WFB Charlotte M-24 5000 WBT 1080 Grove City I-26 100 WBB Gastonia M-24 100 WRBU 1210 Grove City I-26 100 WSA Greensboro M-24 5000 WRD 1240 Grove City I-26 100 WSA Maleigh M-25 1000 WRBU 1210 Harrisburg I-25 100 WCO Winston-Salem M-24 100 WSJS 1310 Johnstown J-24 100 WGO Parago F-15 1000 KFYR 550 Lewisburg I-26 100 WKJ Grand Forks E-15 1000 KGCU 1200 500 WEA Minot E-13 1000 KGCU 1200 500 WFA OHIO 500 WFIC 1420 500 WFA Cleveland I-23 1000 WALP 1300 KGCU 1000 WFA	940		100	Adamsburg		WIBX		Utica G-26
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1440 1440 1440	WSAN	250	Allentown 1-26	1500	WWRL		Yonkers L 27
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		WNBW	10				INA	NORTH CAROL
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		WEDH			570	WWNC		
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C 1430 D 1200	WCOD		Harrisburg 1-25		WNRC		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1430					WPTF	1000	Raleigh M-25
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	840	WOOP	100	Jeannette J-24	1370	WRBT		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1310	WJAC	100		1310	wsjs	100	Winston-Salem M-24
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 1310	WGAL	100	Lancaster I-25			Г 4	NODTH DAVO
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	j <u>1170</u>	WCAU		Philadelphia I-26		KDLR		Devils Lake E-14
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1370	WELK		· · · · · · · · · · · · · · · · · · ·	1270	WDAI		Grand Forks E-15
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		WFAN			1200	KGCU		Mandan F-13
OHIO 100 WADC 130 WHA Akron I-23 1000 WADC 1320 500 WIP Canton I-23 100 WHEC 1200 WIP 500 WUP Cincinnati K-22 100 WHEC 1200 250 WRA 1000 WKRC 550 500 KQV 1000 WKK 1330 1000 WGA Cleveland I-23 1000 WIKK 1390 Reading I-26 1000 WGA 5000 WJAY 610 Scranton H-26 250 WGB 5000 WJAY 610 Scranton H-26 250 WGA 5000 WAM 1070 WAA State College I-25 500 WPA 600 WCAH 1430 Wilkes-Barre I-26 100 WNB	560					KLPM		
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Akron I-23 1000 WADC 1320 500 WEI1 Canton I-23 0 WFBC 1450 100 WFBC Canton I-23 10 WHBC 1200 250 WRD Cincinnati K-22 100 WFBE 1200 Pittsburgh J-24 50000 KDK 1000 WKRC 550 500 KOK 500 KOK 50000 WLW 700 1000 WCA 1000 WCA Cleveland I-23 1000 WHK 1390 Reading I-26 100 WGA 5000 WJAY 610 Scranton H-26 250 WGB 6000 WAIU 640 State College I-25 500 WPS6 600 WCAH 1430 Walkes-Barre I-26 100 WNB	610		500					
Canton I-23 10 WHBC 1200 Pittsburgh 2450 WRA Cincinnati K-22 100 WFBE 1200 Pittsburgh J-24 50000 KDK 1000 WKRC 550 500 KDK 50000 KDK 50000 WLW 700 1000 WCA 1000 WCA Cleveland I-23 1000 WHK 1390 Scranton H-26 250 WGB 50000 WTAM 1070 250 WGB 500 WSA columbus J-22 500 WAIU 640 State College I-25 500 WPS6 750 WEAO 570 Wilkes-Barre I-26 100 WNB	560	WLIT						Akron I-23
Cincinnati K-22 100 WFBE 1200 Pittsburgh J-24 50000 KDK 1000 WKRC 550 Pittsburgh J-24 50000 KOV 50000 WLW 700 500 WCV 1000 WCA Cleveland I-23 1000 WHK 1330 Reading I-26 1000 WJA 500 WJAY 610 Scranton H-26 250 WGB 5000 WAIU 640 State College I-25 500 WPS0 600 WCAH 1430 Wilkes-Barre I-26 100 WNB		WPEN				WFJC		Cautau I 22
1000 WKRC 550 1000 WCA 50000 WLW 700 1000 WCA 500 WSAI 1330 1000 WCA Cleveland I-23 1000 WHK 1390 Reading I-26 100 WRA 500 WJAY 610 Scranton H-26 250 WGB 50000 WTAM 1070 250 WGA Columbus J-22 500 WAIU 640 State College I-25 500 WPS8 500 WCAH 1430 Washington J-24 100 WNB 750 WEAO 570 Wilkes-Barre I-26 100 WBA		WRAX						
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Store Store <th< td=""><td>1380 1220</td><td>WCAF</td><td></td><td>1</td><td>700</td><td>WLW</td><td></td><td></td></th<>	1380 1220	WCAF		1	700	WLW		
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750 WEAO 570 Wilkes-Barre I-26 100 WBA	1 880	WQAN				WIAM		Columbus I 22
750 WEAO 570 Wilkes-Barre I-26 100 WBA	1230	WPSC		State College 1-25	1420	WCAH	500	Columbus J-22
) 1200 L 1210	WRAY		Wilkes-Barre I-26	570	WEAO	750	
50 WMAN 1210 100 WRR		WBRE	100	WIRCS-Dalle 1-20	1210	WMAN	50	
Dayton J-22 200 WSMK 1380 Wilkinsburg J-24 100 WMB	1500	WMBJ	100	Wilkinsburg J-24	1380	WSMK	200	Dayton J-22
Hamilton K-21 100 WDK 1310 With and T 25 50 WD AU	1370	WRAK			1310	WDV		Hamilton K-21
Mansheld J_{22} 100 W W 1210					1210	WJW	100	
Mount Orab K-22 100 WHBD 1370 PORTO RICO Springfield J-22 500 WCSO 1450 San Juan W-34 500 WKA		11111110	500	PORTO RICO	1370	WCSO		
Springfield J-22 500 WCSO 1450 San Juan W-34 500 WKA Steubenville J-23 50 WIBR 1420	2 890	WKAQ	500	San Juan W-34				Steubenville I-23
Toledo I-22 500 WSPD 1340 RHODE ISLAND			JD	RHODE ISLAN				Toledo I-22
	A 1500	WMBA	100		570	WKBN		
		WPAW			1210			
								-

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Providence H-28	100	WDWF	1210	VERMONT	Watts		Keys
	250	WEAN	780		100	WCAX	120
	250	WJAR	890	Burlington F-27 St. Albans F-27	5	WODM	137
	100	WLSI	1210	Springfield G-27	10	WNBX	120
SOUTH CAROL		WCSC	1260	WIDONUA			
Charleston O-25 Columbia N-24	100 500	WCSC WIS	1360 1010	VIRGINIA	N		
Spartanburg N-23	100	WSPA	1420	Alexandria J-26	10000	WJSV NAA	146
SOUTH DAKOT	ГЛ			Arlington J-25 Danville L-25	1000 100	WBTM	137
Brookings H-15	500	KFDY	550	Emory L-23	100	WEHC	120
Mitchell H-14	50	KGDA	1370	Lynchburg L-25	100	WLVA	137
Oldham H-15 Pierre G-13	15	KGDY	1200	Newport News I -26	500 100	WGH	59 131
Rapid City H-12	200 100	KGFX WCAT	580 1200	Newport News L-26 Norfolk L-26	500	WPOR	78
Sioux Falls I-15	2000	KSOO	1110	1	500	WTAR	78
Vermillion I-15	500	KUSD	890	Petersburg L-26	100 100	WLBG WBBL	120
Watertown G-15	100 1000	KGCR WNAX	1210 570	Richmond K-26	100	WMBG	121
Yankton I-15	1000	WINAA	370		5000	WRVA	111
TENNESSEE		WORL	1500	Roanoke L-24	250 250	WDBJ	. 93
Bristol L-23 Chattanooga N-21	100 1000	WOPI WDOD	1500 1280	WASHINGTON		WRBX	141
Knoxville M-22	50	WFBC	1200	WASHINGTON		WNDO	121
	50	WNBJ	1310	Aberdeen D-2 Bellingham C-3	75 100	KXRO KVOS	131 120
Lauran ashiran N. 20	1000 500	WNOX	560 600	Everett C-3	50	KFBL	137
Lawrenceburg N-20 Memphis M-19	500	WOAN WGBC	1430	Lacey D-3	10	KGY	120
internipring in 17	100	WHBQ	1370	Longview D-3	100	KUJ KWSC	150 122
	500	WMC	780	Pullman E-5 Seattle C-3	500 100	KFQW	142
	500 500	WNBR WREC	1430 600	Beattie G-0	5000	KJR	97
Nashville M-20	5000	WLAC	1470		1000	KÖL	127
	5000	WSM WTNT	650		1000 100	KOMO KPCB	92 65
· · · · · · · · · · · · · · · · · · ·	5000	WTNT	1470		50	KRSC	112
Springfield M-20 Union City M-19	100 100	WSIX WOBT	1210 1310		1000	KTW	1270
	100	ODI		1	100	KVL	137
TEXAS	100	KFYO	1420	Spokane D-5	500 100	KXA KFIO	570 1120
Abilene P-13 Amarillo N-12	1000	KGRS	1410	opokane D-0	1000	KFPY	134
	250	WDAG	1410	1	5000	KGA	147
Austin Q-14	100	KUT	1500	Tasama D 3	1000 500	КНО КМО	590 860
Beaumont R-17 Brownsville U-15	500 500	KFDM KWWG	560 1260	Tacoma D-3	1000	KVI	70
Brownwood P-14	100	KGKB	1500	Wenatchee D-4	50	KPQ	150
College Sta. Q-15 Corpus Christi S-14	500	WTAW	1120	Yakima D-4	50	KIT	131
Corpus Christi S-14 Dallas P-15	$\begin{array}{r}100\\10000\end{array}$	KGFI KRLD	1500 1040	WEST VIRGIN	ГА		
Dallas P-15	50000	WFAA	800	Bluefield L-24	I'A		
					100	ALL TIC	1 4 3
	500	WRR	1280		100	WHIS	
Dublin P-14	100	KFPL	1310	Charleston K-23	250	WHIS WOBU WMMN	58
Dublin P-14 El Paso P-9	100 100	KFPL KTSM	1310 1310	Charleston K-23 Fairmont J-24 Huntington K-23	250 250 250	WOBU WMMN WSAZ	58 89 58
El Paso P-9	100 100 100	KFPL KTSM WDAH	1310 1310 1310	Charleston K-23 Fairmont J-24	250 250	WOBU WMMN	58 89 58
El Paso P-9	100 100 100 100 100	KFPL KTSM WDAH KFJZ KTAT	1310 1310 1310 1370 1240	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24	250 250 250	WOBU WMMN WSAZ	58 89 58
El Paso P-9 Fort Worth P-15	100 100 100 100 1000 10000	KFPL KTSM WDAH KFJZ KTAT WBAP	1310 1310 1310 1370 1240 800	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN	250 250 250 5000	WOBU WMMN WSAZ WWVA	58 89 58 116
El Paso P-9 Fort Worth P-15	100 100 100 1000 10000 10000	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX	1310 1310 1310 1370 1240 800 1370	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19	250 250 250 5000	WOBU WMMN WSAZ WWVA	58 89 58 116 56
El Paso P-9 Fort Worth P-15 Galveston R-16	$ \begin{array}{r} 100 \\ 100 \\ 100 \\ 1000 \\ 10000 \\ 100 \\ 500 \end{array} $	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFUL	1310 1310 1310 1370 1240 800 1370 1290	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18	250 250 250 5000 5000	WOBU WMMN WSAZ WWVA WISJ WTAO	58 89 58 116 56 133
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14	$100 \\ 100 \\ 100 \\ 1000 \\ 10000 \\ 10000 \\ 500 \\ 15 \\ 500$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFUL KFPM KRGV	1310 1310 1310 1370 1240 800 1370 1290 1310 1260	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19	250 250 250 5000 5000 1000 1000 100	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY	58 89 58 116 56 133 142 120
El Paso P-9	$100 \\ 100 \\ 100 \\ 1000 \\ 10000 \\ 10000 \\ 500 \\ 15 \\ 500 \\ 1000 $	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFUL KFPM KRGV KPRC	1310 1310 1310 1370 1240 800 1370 1290 1310 1260 920	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19	250 250 250 5000 1000 100 100 100	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO	58 89 58 116 133 142 120 120
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14	$100 \\ 100 \\ 100 \\ 1000 \\ 1000 \\ 1000 \\ 500 \\ 15 \\ 500 \\ 1000 \\ 500 \\ 1000 \\ 500 \\ 1000 \\ 500 \\ 1000 \\ 500 \\ 1000 \\ 500 \\ 1000 \\ 500 \\ 1000 \\ 500 \\ 1000 \\ 500 \\ 1000 \\ 1$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFUL KFPM KRGV KPRC KTRH	1310 1310 1310 1370 1240 800 1370 1290 1310 1260 920 1120	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19 La Crosse H-18	250 250 250 5000 1000 100 100 1000	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH	58 89 58 116 133 142 120 120 138
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14 Houston R-16	$100 \\ 100 \\ 100 \\ 1000 \\ 10000 \\ 1000 \\ 500 \\ 15 \\ 500 \\ 1000 \\ 500 \\ 1000 \\ 100 \\$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFPL KFPM KRGV KPRC KTRH KTUE KTLC	1310 1310 1310 1370 1240 800 1370 1290 1310 1260 920 1120 1420 1310	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19	250 250 250 5000 1000 100 100 100	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH WHA WIBA	58 89 58 116 133 142 120 120 138 94
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14 Houston R-16 San Angelo O-13	$\begin{array}{c} 100\\ 100\\ 100\\ 1000\\ 10000\\ 10000\\ 500\\ 15\\ 500\\ 1000\\ 500\\ 1000\\ 100\\ 1$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFPL KFPM KRGV KPRC KTRH KTUE KTLC KGKL	1310 1310 1310 1370 1240 800 1370 1290 1310 1260 920 1120 1420 1310 1370	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19 La Crosse H-18 Madison H-19 Manitowoc H-20	250 250 5000 1000 100 100 100 1000 750 500 100	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH WHA WIBA WOMT	58 89 58 116 133 142 120 1200 1200 138 94 121 121
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14 Houston R-16 San Angelo O-13	$\begin{array}{c} 100\\ 100\\ 100\\ 1000\\ 1000\\ 1000\\ 500\\ 15\\ 500\\ 1000\\ 500\\ 1000\\ 100\\ 1$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFPM KFPM KFPM KFPC KTRH KTUE KTLC KGKL KMAC	1310 1310 1310 1240 800 1370 1290 1310 1260 920 920 1120 1420 1310 1370 1370	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19 La Crosse H-18 Madison H-19	250 250 5000 1000 100 100 100 1000 750 500 1000 250	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH WHA WIBA WOMT WHAD	58 89 58 116 133 142 120 120 138 94 121 121 121
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14 Houston R-16 San Angelo O-13	$\begin{array}{c} 100\\ 100\\ 100\\ 1000\\ 10000\\ 1000\\ 500\\ 15\\ 500\\ 1000\\ 100\\ 1$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFUL KFPM KFUL KFPM KTRH KTUE KTAC KONO KTAP	1310 1310 1310 1240 800 1370 1290 1310 1260 920 1120 1420 1310 1370 1370 1370	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19 La Crosse H-18 Madison H-19 Manitowoc H-20	250 250 5000 5000 1000 100 100 1000 750 500 100 250 250	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH WHA WIBA WOMT WHAD WISN	58 89 58 116 133 142 120 120 138 94 121 121 112 112
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14 Houston R-16 San Angelo O-13	$\begin{array}{c} 100\\ 100\\ 100\\ 1000\\ 1000\\ 1000\\ 100\\ 500\\ 100\\ 1$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFUL KFPM KFUL KFPM KTRH KTUE KTAC KONO KTAP	1310 1310 1310 1370 1240 800 1370 1290 1310 1260 1420 1310 1370 1370 1370 1370 1290	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19 La Crosse H-18 Madison H-19 Manitowoc H-20 Milwaukee H-20 Poynette H-19	250 250 250 5000 1000 100 100 100 100 250 250 250 250 1000 100	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH WHA WIBA WOMT WHAD WISN WISN WTMJ WIBU	58 89 58 116 56 133 142 120 120 120 120 120 121 121 121 121 112 112
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14 Houston R-16 San Angelo Q-13 San Antonio R-14	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 1000\\ 10000\\ 1000\\ 15\\ 500\\ 1000\\ 100\\ 1$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFPM KFPM KFPM KFRC KTRH KTUE KTLC KONO KTAP KTSA WOAI	1310 1310 1310 1370 1240 1370 1290 1310 1260 920 1120 1420 1370 1370 1370 1370 1420 1420 1290	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19 La Crosse H-18 Madison H-19 Manitowoc H-20 Milwaukee H-20 Poynette H-19 Racine I-20	250 250 250 5000 1000 100 1000 750 500 250 250 250 1000 1000 1000	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH WHAD WISN WISN WISN WISN WISN WISN WISN WISN	58 89 58 116 133 142 120 120 138 94 121 121 121 121 121 137
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14 Houston R-16 San Angelo Q-13 San Antonio R-14 Waco Q-15	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 1000\\ 1000\\ 1000\\ 15\\ 500\\ 1000\\ 100\\ 1$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFVL KFPM KRGV KFPM KRGV KTRH KTUE KTLC KONO KTAP KTSA WOAI WOAI	1310 1310 1310 1240 800 1240 1290 1310 1260 1290 1420 1420 1310 1370 1370 1370 1370 1290 1290 1240	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19 La Crosse H-18 Madison H-19 Manitowoc H-20 Milwaukee H-20 Poynette H-19 Racine I-20 Sheboygan H-20	$\begin{array}{c} 250\\ 250\\ 250\\ 5000\\ \end{array}\\ \begin{array}{c} 500\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 2500\\ 250\\ 250\\ 250\\ 1000\\ 1000\\ 1000\\ 100\\ 500\\ \end{array}$	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH WHA WISN WISN WISN WISN WISN WISN WISN WISN	58 89 58 116 56 133 142 120 120 120 120 120 120 121 121 122 122
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14 Houston R-16 San Angelo Q-13 San Angelo Q-13 San Antonio R-14 Waco Q-15 Wichita Falls O-14	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 1000\\ 10000\\ 1000\\ 15\\ 500\\ 1000\\ 100\\ 1$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFPM KFPM KFPM KFRC KTRH KTUE KTLC KONO KTAP KTSA WOAI	1310 1310 1310 1370 1240 1370 1290 1310 1260 920 1120 1420 1370 1370 1370 1370 1420 1420 1290	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19 La Crosse H-18 Madison H-19 Manitowoc H-20 Milwaukee H-20 Poynette H-19 Racine I-20 Stevens Pt. G-19	$\begin{array}{c} 250\\ 250\\ 250\\ 5000\\ \end{array}$	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH WHAD WISN WTMJ WIBU WRJN WHBL WLBL	58 89 58 116 133 142 120 138 94 121 121 121 121 121 121 121 121 121 12
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14 Houston R-16 San Angelo Q-13 San Antonio R-14 Waco Q-15 Wichita Falls O-14 UTAH	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 1000\\ 1000\\ 1000\\ 500\\ 15\\ 500\\ 1000\\ 100\\ 1$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFPM KFPM KFPM KFPM KTUE KTLC KONO KTAP KTAP KTAP KTAA KONO KTAP KTSA WOAI WACO KGKO	1310 1310 1310 1240 800 1240 1290 1290 120 120 1420 1310 1370 1370 1370 1370 1370 1370 137	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19 La Crosse H-18 Madison H-19 Manitowoc H-20 Milwaukee H-20 Poynette H-19 Racine I-20 Sheboygan H-20	$\begin{array}{c} 250\\ 250\\ 250\\ 5000\\ \end{array}\\ \begin{array}{c} 500\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 2500\\ 250\\ 250\\ 250\\ 1000\\ 1000\\ 1000\\ 100\\ 500\\ \end{array}$	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH WHA WISN WISN WISN WISN WISN WISN WISN WISN	58 89 58 116 133 142 120 138 94 121 121 121 121 121 121 121 121 121 12
El Paso P-9 Fort Worth P-15 Galveston R-16 Greenville O-15 Harlingen T-14 Houston R-16 San Angelo Q-13 San Angelo Q-13 San Antonio R-14 Waco Q-15 Wichita Falls O-14	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 1000\\ 1000\\ 1000\\ 15\\ 500\\ 1000\\ 100\\ 1$	KFPL KTSM WDAH KFJZ KTAT WBAP KFLX KFVL KFPM KRGV KFPM KRGV KTRH KTUE KTLC KONO KTAP KTSA WOAI WOAI	1310 1310 1310 1240 800 1240 1290 1310 1260 1290 1420 1420 1310 1370 1370 1370 1370 1290 1290 1240	Charleston K-23 Fairmont J-24 Huntington K-23 Wheeling J-24 WISCONSIN Beloit I-19 Eau Claire G-18 Fond du Lac H-19 Green Bay G-19 Janesville I-19 La Crosse H-18 Madison H-19 Manitowoc H-20 Milwaukee H-20 Poynette H-19 Racine I-20 Stevens Pt. G-19	$\begin{array}{c} 250\\ 250\\ 250\\ 5000\\ \end{array}$	WOBU WMMN WSAZ WWVA WISJ WTAQ KFIZ WHBY WCLO WKBH WHAD WISN WTMJ WIBU WRJN WHBL WLBL	142 58 89 58 116 56 133 142 120 120 120 120 120 121 121 121 121 12

CANADA								
	ADA			PRINCE EDWAR	Watts		Kcys.	
ALBERTA	Watts	CE LO	Kcys. 690	Charlottetown C-31	250 30	CFCY CHCK	960 960	
Calgary B-7	500 500	CFAC CFCN	690	Summerside C-31	100	CHGS	1120	
	500 500	CHCA	690 690	QUEBEC		-		
Education A 9	500	CJCJ CNRC	690	Montreal E-26	500 5000	CFCF CHYC	1030 730	
Edmonton A-8	250 500	CHMA CJCA CKUA	580 930		$\frac{5000}{5000}$	CKAC CNRM	730 730	
	$\frac{500}{500}$	CKUA CNRE	580 930	Quebec D-27	100	CHRC	880	
Lethbridge C-8 Red Deer A-8	50 1000	CJOC CHCT	1120 840		22 50	CKCI CKCV	880 880	
Red Deer A-0	1000	CKLC	840		50	CNRQ	880	
	1000	CNRD	840	SASKATCHEWA	IN 500	CJRW	600	
BRITISH COLU				Moose Jaw C-11 Pilot Butte	$ 500 \\ 500 $	CĴRM CHWC	600 960	
Chilliwack B-3 Kamloops B-5	5 15	CHWK CFJC	1210 1120	Regina C-12	500	CJBR CKCK	960	
Sea Island Vancouver B-3	50 50	C JÕR CHLS	1210 730		500 500	CNRR	960 960	
Vancouver D-0	50 50	CKCD	730	Saskatoon B-11	500 500	CFQC CNRS	910 910	
	50 50	CKFC CKMO	730 730	Yorkton C-13	500	ĊJGX	630	
	100 500	CKWX CNRV	730 1030	HAITI				
Victoria C-3	500	CFCT	630	Port au Prince X-30	1000	ннк	920	
MANITOBA	_			MEXICO Chihuahua, Chih. R-9	250	XFF XEA	920	
Brandon D-14 Winnipeg D-15	500 5000	CKX CKY	540 780	Guadalajara, Jal. X-10 Jalapa, Ver. Y-14	101 350	XEA XFC	1200 630	
r o	5000	CNRW	780	Juarez, Chin.	101 105	XEJ XEY	860 550	
NEW BRUNSWI		OF		Merida, Yuc. X-19 Mexico City Y-13	1000	XEB	670	
Fredericton D-29 Moncton D-30	50 500	CFNB CNRA	1210 630		$1000 \\ 101$	XEN XEO	730 980	
St. John D-30	50	CFBO	890		101 500	XER XEX	1070 920	
NEWFOUNDLA!	ND 500	NWN C	720		500 50	XEZ XFA	700 540	
St. Johns A-35	500	8WMC	720		2000	XFG XFI	640	
NOVA SCOTIA Halifax E-31	500	CHNS	930		1000 500	XFX	590 840	
	500 500	CNRH VAS	930 690	Monterrey, N. L. U-13	$101 \\ 500$	XEH XET	960 890	
Louisburg C-32 Sydney C-32	50	CJCB CKIC	880	Morelia, Mich. Y-12 Oaxaca, Oax. AA-14	$101 \\ 105$	XEI XEF	1000 1130	
Wolfville D-31	50	CKIC	930	Reynosa, Tams. Saltillo, Coah.	2000	XED XEL	770	
ONTARIO Chatham H-22	100	CFCO	1210	Tampico, Tams.	501	XEM	840	
Cobalt E-23 Hamilton H-24	15 10	CKMC CHCS	1210 880	Toluca, Mex.	500 50	XES XEC	890 1330	
namiton n-24	50	CHML	880	Veracruz, Ver. Villahermosa, Tab.	101 250	XEU XFE	800 920	
Iroquois Falls F-26	50 250	CKOC CFCH	880 600	CUBA	200		,	
Kingston G-25 London H-23	500 500	CFRC	930 910	Caibarien W-25	250 200	CMHD	920	
	500	CJGC CNRL	910 930	Cienfuegos W-25 Colon W-24	300	CMHA CMGA	1150 830	
Midland G-23 Ottawa F-25	50 100	CKPR CKCO	890	Havana W-23	100 200	CMBC CMBY	1220 610	
Prescott F-25	500 50	CNRO CFLC	600 1010		100 500	CMBZ	1010 840	
Preston G-23 Toronto G-24	25 500	CKPC CFCA-	1210 840		100	CMC CMCE	1280	
10101110 0-24	500	CFCL	580		250 500	CMCF CMCQ	1010 950	
	4000 5000	CFRB- CJSC	960 690	1	500 2000	CMI CMK	770 730	
	$500 \\ 5000$	CKCL CKGW	580 690		100	CMQ CMW	1220	
	500 500	CKNC	580 840		1000 500	CMX	600 900	
	4000	CNRX -	960	Santiago X-28 Tuinucu	$150 \\ 500$	CMKC CMHC	1360 790	
Waterloo G-23	5000 50	CPRY CKCR	690 1010	COSTA RICA	-	-		
Wingham G-23	25	10-BP	1200	San Jose FF-23	50	TIX	750	

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CFAC

KFRU

CFAC 690		CJRW 600		CMKC 1360		KFDM 560	1
Calgary, Alta.		Fleming, Sask	1	Santiago, Cuba		Beaumont, Tex.	
CFBO 890		CJSC 690	-1	CMQ 1220		KFDY 550	
			2/1				
St. John, N. B.		Toronto, Ont.	12-1-	Havana, Cuba		Brookings, S.D.	
CFCA 840	33	CKAC 730	50	CMW 600	nu	KFEL 920	
Toronto, Ont.	27 1	Montreal, Que.	100	Havana, Cuba	10	Denver, Colo.	
CFCF 1030		CKCD 730		CM X 920		KFEQ 680	
CFCF 1030	116			UMA 920		ALEG 080	
Montreal, Que.	2000	Vancouver, B.C.		Havana, Cuba		St. Joseph, Mo.	1
CFCH 600		CKCI 880		CNRA 630		L V V C O 1210	
Iroq's Falls, Ont.				Moncton, N.B.	1	Boone, Iowa	
nous rans, ont.		Quebec, Que.		Children, M.D.		Boone, Iowa	
CFCL 580		CKCK 960		CNRC 690	1	KFH 1300	11
Toronto, Ont.		Regina, Sask.		Calgary, Alta.		Wichita, Kansas	10
CFCN 690		CKCL 580	04	ČNŘD 840		KFHA 1200	
		Taxanta Ont	84				!
Calgary, Alta.		Toronto, Ont.	01	Red Deer, Alta.		Gunnison, Colo.	
CFCO 1210		CKCO 890	1 1	CNRE 930		KFI 640	1/21
Chatham, Ont.		Ottawa, Ont.		Edmonton, Alta.		Los Angeles, Cal.	10/ 3
		CKCR 1010		CNRH 930		KFIO 1120	UL K
CFCT 630		CKCR IVIU		CINAN 330		KFIO 1120	N
Victoria, B. C.		Waterloo, Ont.		Halifax, N. S.		Spokane, Wash.	
CFCY 960	05	CKCV 880		CNRL 910	5 11	KFIU 1310	
Ch'lottet'n, P.E.I.	25	Quebec, Que.		London, Ont.	44	Juneau, Alaska	
Cil lottet il, i .E.i.		Quebec, Que.		London, Ont.		Julieau, Alaska	
CFJC 1120		CKFC 730	1	CNRM 730		KFIZ 1420	
Kamloops, B. C.	1	Vancouver, B.C.		Montreal, Que.		Fond du Lac, Wis	
CFLC 1010		CKGW 690	100	CNRO 600		KFJB 1200	
Propert Ont		Toronto Ont	61	Ottawa, Ont.		Marshalltown, Ia.	
Prescott, Ont.		Toronto, Ont.	and	Ouno, Ont.			
CFNB 1210	E I	I CKIC 930		CNRQ 880		KFJF 1480	
Fredericton, N.B.		Wolfville, N.S.		Quebec, Que.		Oklahoma City	
CFQC 910		CKLC 840		CNRR 960		KFJI 1370	
Calesteen Carl					1		
Saskatoon, Sask.		Red Deer, Alta.		Regina, Sask.		Astoria, Ore.	
CFRB 960	25	CKMC 1210		CNRS 910		KFJM 1370	
Toronto, Ont.	63	Cobalt, Ont.		Saskatoon, Sask.		Grd. Forks, N.D.	
CFRC 930		CKMO 730		CNRT 840		KFJR 1300	
	1				251		
Kingston, Ont.		Vancouver, B.C.		Toronto, Ont.	35	Portland, Ore.	
CHCA 690		CKNC 580	Gir	CNRV 1030		KFJY 1310	
Calgary, Alta.		Toronto, Ont.	84	Vancouver, B.C.		Fort Dodge, Ia.	
Cilgary, Alta.		Grog on		CNIDW 700		KFJZ 1370	
CHCK 960		CKOC 880	31	CNRW 780		KFJZ 1370	
Ch'lottet'n, P.E.I.		Hamilton, Ont.	51	Winnipeg, Man.		Ft. Worth, Tex.	
CHCS 880		CKPC 1210		CNRX 960	50	KFKA 880	
Hamilton, Ont.		Preston, Ont.		Toronto, Ont.	11	Greeley, Colo.	
Hamilton, Ont.		Freston, Ont.		Toronto, Ont.		Greeley, Colo.	
CHCT 840		CKPR 930	I I	CPRY 690	57	KFKB 1050	an h
Red Deer, Alta.		Midland, Ont.		Toronto, Ont.	11	Milford, Kansas	170
CHGS 1120		CKUA 580		HHK 920		KFKU 1220	
				Port au Prince, H.		Termenee Vone	
Sum'rside, P.E.I.		Edmonton, Alta.		Port au Frince, n.		Lawrence, Kans.	
CHLS 730	1 1	CKWX 730		KBPS 1420		KFKX 1020	31
Vancouver, B.C.		Vancouver, B.C.		Portland, Ore.		Chicago, Ill.	21
CITAL FOR		CKX 540		KBTM 1200		KFLV 1410	
CHMA 580					· · ·		
Edmonton, Alta.		Brandon, Man.		Paragould, Ark.		Rockford, Ill.	
CHML 880	21	CKY 780		KCRC 1370		KFLX 1370	
Hamilton, Ont.	-17	Winnipeg, Man.		Enid, Okla.		Galveston, Tex.	
CITNEL OR	0	Change 1000		KODI 1910		VENAV 1950	
CHNS 930		CMBC 1220		KCRJ 1310	1	KFMX 1250	
Halifax, N.S.		Havana, Cuba		Jerome, Ariz.		N'thfield, Minn.	
CHRC 880		CMBY 1400		KDB 1500		KFNF 890	201
Quebec, Que.		Havana, Cuba		S. Barbara, Cal.		Shenandoah, Ia.	302
CITIVO AR							
CHWC 960		CMBZ 1010	1	KDFN 1210			
Pilot Butte, Sask.		Havana, Cuba		Casper, Wyo.		Lincoln, Nebr.	
CHWK 1210		CMC 840	SE	KDKA 980	54	KFOX 1250	
Chilliwack, B.C.		Havana, Cuba	52	Pittsburgh, Pa.	6 T	Long Beach, Cal.	
		CMCE 1000	and all	KDID 1910		KFPL 1310	
CHYC 730		CMCE 1280	A 4 7 10 10	KDLR 1210		WLLF 1910	
Montreal, Que.	1	Havana, Cuba		Devils Lake, N.D.		Dublin, Texas	
CJBR 960		CMCF 1010		KDYL 1290		KFPM 1310	
Regina, Sask.		Havana, Cuba		Salt Lake City		Greenville, Tex.	
regina, bask.		mavana, Cuba		WEGA STAR		KEDW 1940	
CJČA 930		CMCQ 950		KECA 1430		KFPW 1340	
Edmonton, Alta.		Havana, Cuba		Los Angeles, Cal.		Ft. Smith, Ark.	
CJCB 880		CMGA 830		KELW 780		KFPY 1340	
Sundar NS		Colon Cuba				Spokane, Wash.	
Syndey, N.S.		Colon, Cuba		Burbank, Cal.			
CJCJ 690		CMHA 1150		KEX 1180		KFQA 1090	
Calgary, Alta.		Cienfuegos, Cuba		Portland, Ore.		St. Louis, Mo.	
CJGC 910	011	CMHC 790		KFAB 770	1.11	KFQD 1230	
	14	Tuinuar Cube		Lincoln, Nebr.	44	Anchorage, Alas.	
London, Ont.	the former	Tuinucu, Cuba		KEDD 1000		VEOU 1490	
CJGX 630 Yorkton, Sask.		CMHD 920		KFBB 1280		KFQU 1420	
Yorkton, Sask.		Caibarien, Cuba		Great Fls., Mont.		Holy City, Cal.	
CJOC 1120		ČMI 770		KFBK 1310		Holy City, Cal. KFQW 1420	
Tathbaiden Alta		Housens Cube		Sacramento, Cal.		Seattle, Wash.	
Lethbridge, Alta.		Havana, Cuba		Bacramento, Cal.		KEDC CIO	
CJOR 1210		CMK 730	EN	KFBL 1370		KFRC 610	
Sea Island, B.C.		Havana, Cuba	20	Everett, Wash.		San F'ncisco, Cal.	
CJRM 600		,				KFRU 630	10
					-	Columbia, Mo.	10
Moose Jaw, Sask.						Columbia, MO.	
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KFSD

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KTSA

KFSD 600	KGFF 1420	KIDO 1250	KPJM 1500
San Diego, Cal.	Alva, Okla.	Boise, Idaho	Prescott, Ariz.
KFSG 1120	KGFG 1370	KIT 1310	KPO 680
Los Angeles, Cal.	Oklahoma City	Yakima, Wash.	San F'ncisco, Cal.
KFUL 1290	KGFI 1500	KJBS 1070	KPOF 880
Galveston, Tex.	Corpus Ch'sti, Tex	San F'ncisco, Cal.	Denver, Colo.
KFUM 1270	KGFJ 1200	KJR 970	KPPC 1210
Col. Spgs., Colo.	Los Angeles, Cal.	Seattle, Wash.	Pasadena, Cal.
KFUO 550	KGFK 1500	KLCN 1290	KPQ 1500
St. Louis, Mo.	Moorhead, Minn.	Blytheville, Ark.	Wenatchee, Wash KPRC 920
KFUP 1310	KGFL 1370	KLO 1400	Houston, Texas
Denver, Colo.	Raton, N. M. KGFW 1310	Ogden, Utah KLPM 1420	KPSN 1360
KFVD 1000	KGFW 1310	Minot, N. Dak.	Pasadena, Cal.
Culver City, Cal.	Ravenna, Nebr.	KLRA 1390	KQV 1380
KFVS 1210	KGFX 580	Little Rock, Ark.	Pittsburgh, Pa.
Cape Gir'rd'u, Mo	Pierre, S. D. KGGC 1420	KLS 1440	KQW 1010
KFWB 950	KGGC 1420	Oakland, Cal.	San Jose, Cal.
Hollywood, Cal.	San F'ncisco, Cal KGGF 1010	KLX 880	KRE 1370
KFWF 1200		Oakland, Cal.	Berkeley, Cal.
St. Louis, Mo.	Picher, Okla. KGGM 1230	KLZ 560	KREG 1500
KFWI 930 San F'ncisco, Cal.	Alb'a'rang NM	Denver, Colo.	Santa Ana, Cal.
KFXD 1420	Alb'q'rque, N.M. KGHF 1320	KMA 930	KRGV 1260
Nompa Idaho	Pueblo, Colo:	Shenandoah, Ia.	Harlingen, Texas
Nampa, Idaho KFXF 920 70	KGHI 1200	KMAC 1370	KRLD 1040
	Little Roek, Ark.	San Antonio, Tex.	Dallas, Texas
Denver, Colo. KFXJ 1310	KGHL 950	KMBC 950	KRMD 1310
Edgewater, Colo.	Billings, Mont.	Kan. City, Mo.	Shreveport, La.
KFXM 1210	KGIQ 1320	KMED 1310	KROW 930
San Ber'd'no,Cal.	Twin Falls, Ida.	Medford, Ore.	Oakland, Cal.
KFXR 1310	KGIR 1360	KMIC 1120	KRSC 1120
Oklahoma City		Inglewood, Cal.	Seattle, Wash.
KFXY 1420	Butte, Mont. KGIW 1420	KMJ 1210	KSAC 580
Flagstaff, Ariz.	Trinidad, Colo.	Fresno, Cal.	Manh'tt'n, Kans.
KFYO 1420	KGIX 1420	KMLB 1200	KSCJ 1330
Abilene, Texas	Las Vegas, Nev. KGIZ 1500	Monroe, La.	Sioux City, Ia.
KFYR 550	KGIZ 1500	KMMJ 740	KSD 550
Bismarck, N.D.	Grant City, Mo KGJF 890	Clay Ctr., Nebr.	St. Louis, Mo. KSEI 900
KGA 1470	KGJF 890	KMO 860	KSEI 900 Pocatello, Idaho
Spokane, Wash.	Little Rock, Ark.	Tacoma, Wash. KMOX 1090	KSL 1130
KGAR 1370	KGKB 1500 Brownwood, Tex.	St. Louis, Mo.	Salt Lake City
Tucson, Ariz. KGB 1330	KGKL 1370	KMPC 710	KSMR 1200
San Diego, Cal.	San Angelo, Tex.	Los Angeles, Cal.	Santa Maria, Cal.
KGBU 900	KGKO 570	Los Angeles, Cal KMTR 570	KSO 1380
Ketchikan, Al'ka.	Wichita Flls., Tex	Los Angeles, Cal.	Clarinda, Iowa
KGBX 1310	KGKX 1420	KNX 1050	KSOO 1110
St. Joseph, Mo.	Sand Point, Ida.	Los Angeles, Cal.	Sioux Falls, S.D.
KGBZ 930 York, Nebr. 22	KGKY 1500	KOA 830	KSTP 1460
York, Nebr.	Scottsbluff, Nebr KGMB 1320	Denver, Colo.	ot. rau, within .
KGCA 12/0		KOAC 550	KTAB 560
Decorah, Iowa	Honolulu, T. H.	Corvallis, Ore.	San F'ncisco, Cal.
KGCR 1210	KGMP 1210	KOB 1180	KTAP 1420
Watertown, S.D.	Elk City, Okla.	State Coll., N.M KOCW 1400	San Antonio, Tex. KTAR 620
KGCU 1200	KGNF 1430		
Mandan, N.D. KGCX 1310	No. Platte, Neb KGNO 1210	Chickasha, Okla.	Phoenix, Ariz. KTAT 1240
KGCX 1310 Wolf P't, Mont.	Dodge City, Kans.	Reno, Nevada	Ft. Worth, Tex.
KGDA 1370	KGO 790	KOIL 1260	Ft. Worth, Tex. KTB1 1300
Mitchell, S. D.	San F'ncisco, Cal.	Council Bluffs, Ia.	Los Angeles, Cal.
KGDE 1200	KGRS 1410	KOIN 940	KTBR 1300
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KGDM 1100	KGU 940	KOL 1270	KTBS 1450
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KGDY 1200	KGW 620	KOMO 920	KTHS 1040 2 /
Oldham, S. D.	Portland, Ore.	Seattle, Wash.	Hot Spgs., Ark.
KGEF 1300	KGY 1200	KONO 1370	KTLC 1310
Los Angeles, Cal.	Lacey, Wash.	San Antonio, Tex	Houston, Texas
KGEK 1200	KHJ 900	KOOS 1370	KTM 780
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sanspen, mont.	The stand a was, sua.		
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Houston, Texas KTW 1270	Rochester, N. Y WABZ 1200	Columbus, Ohio WCAJ 590	Wilmington, Del. WDGY 1180
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KVOO 1140	WBAA 1400 Lafayette, Ind.	WCAZ 1070 Carthage, Itl.	WEAN 780 Providence, R. I.
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The Short Wave Stations

Following is a list of the Stations in the United States which have been reported to us as broadcasting on short waves. These are largely experimental and change their frequencies from time to time. A list of the amateurs using short waves may be secured by sending 25 cents in coin to Superintendent of Docu-ments, Government Printing Office, Washington, D. C.

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Call	Station	Owner City and State	e Meters	Watts
WIXAA	WRAH	Stanley N. Read		75
W1XAB	WCSH	Congress Square Hotel CoPortland, Main		250
W1 XAE	WBZ	Westinghouse Elec. & Mfg. CoSpringfield, Ma	iss. 70.0	
W1XAF	WEEI	Edison Elec. Illuminating CoBoston, Mass.		
W1XAG		Edison Elec. Illuminating CoBoston, Mass.		
WIXY	WBRL	Booth Radio Laboratories	105-109	250
W2XAC	WGY	General Electric CoSchenectady, N		
W2XAD	WGY	General Electric CoSchenectady, N		
W2XAE	WGY	General Electric CoSchenectady, N		
W2XAF	WGY	General Electric CoSchenectady, N		
W2XAG	WGY	General Electric CoSchenectady, N		
W2XAH	WGY	General Electric CoSchenectady, N		
W2XAK	WGY	General Electric CoSchenectady, N	49.67	500
W2XAL	WRNY	Aviation Radio Station, IncNew York		100
W2XAO	Won	Atlantic Broadcasting Co.	105.9 65.4	50
W2XAQ	WOR	L. Bamberger Co		30
W2XAW	WGY	General Electric CoSchenectady, N WAAM, IncNewark, N. J.	65.18	50
W2XBA W2XBH	WAAM WCGU	Chas. G. Ungar		150
W2XBR	WBNY	Baruchrome Corp		100
W2XCD	WDNI	DeForest Radio Co	187.30	
W2XE	WABC	Atlantic Broadcasting CoRichmond Hill,		50
W2XZ	WADU	National Broadcasting CoBellmore, L. I.	49.15	50000
W3XAU	WCAU	Universal Broadcasting CoPhiladelphia, H		
W3XK	WORD	C. Francis Jenkins Labs	C.	
W3XL	WJZ	Radio Corp. of AmericaBound Brook,	N. J. 59.96	30000
W3XN		Bell Telephone Laboratory		
W4XD	WSM	Nat'l Life & Accident Ins. Co Memphis, Ten		
W4XE		William Justice Lee		250
W6XA	KNX	Los Angeles Express		100
W6XAD	KFWO	Lawrence Mott Avalon, Cal.	53.07	100
W6XAF	KNRC	Clarence B. Juneau Santa Monica,	Cal. 108.2	100
W6XAI	KGGM	Los Angeles Radio Club Los Angeles, C	al. 66.04	50
W6XAK	KFWH	F. W. MorseChico, Cal.	108.2	50
W6XAL	KFQZ	L. E. Taft		50
W6XAN	KRLO	Freeman LangLos Angeles, C		250
W6XAR	KJBS	J. Brunton & SonsSan Francisco,	Cal. 32.	50
W6XAU	кнј	Times-Mirror CoLos Angeles, C	al. 104.1	50
W6XAX	KGO	General Electric CoOakland, Cal.	10-40	10000
W6XAZ		Nelson Radio CoSan Diego, Ca	1. 106.	50
W6XBA	KFSG	Air-Fan Radio Corp. Los Angeles, C		250
W6XBE	KFBC	W. K. Azbill San Diego, Cal		50
W6XBH	KFQU	W. E. Riker Holy City, Cal Warner Bros. Picture Studio Los Angeles, C		50
W6XBR W6XBV	KFWB KGER	C. Merwin DobynsLong Beach, C		50
W6XBX	KFVD	McWhinnie Electric Co	105.	50
W6XN	KGO	General Electric Co	23.35	10000
W7XAB	KFPY	Symons Investment CoSpokane, Wash		
W7XAO	KWJJ	Wilbur Jerman, Inc	53-54	100
W7XC	KJR	Northwest Radio ServiceSeattle, Wash.		
W7XO	KJR	Northwest Radio ServiceSeattle, Wash.		
W8XAC	WHAM	Stromberg-Carlson Tel. Mfg. CoRochester, N.	Υ.	
W8XAL	WLW	Crosley Radio CorpCincinnati, Oh	io 49.50	500
W8XOA	WJR	WJR, Inc Detroit, Mich.	32.	75
W8XF	WHK	Radio Air Service CorpCleveland, Ohi	io 66.04	500
W8XJ	WEAO	Ohio State University Columbus, Oh	io 54.02	250
W8XK	KDKA	Westinghouse Elec. & Mfg. CoPittsburgh, Pa	. 25.25	40000
W8XP	KDKA	Westinghouse Elec. & Mfg. CoPittsburgh, Pa		500
W8XS	KDKA	Westinghouse Elec. & Mfg. CoPittsburgh, Pa		
W9YA	KOA	General Electric Co Denver, Colo.	31.48	
W9XAA	WCFL	Federation of Labor Chicago, Ill.	49.34	
W9XAB	WNAL	R. J. Rockwell Omaha, Nebr.	105.	50
W9XF	WENR	Great Lakes Broadcasting CoChicago, Ill. Mona Motor Oil CoCouncil Bluffs,	49.83 Iowa 61.06	500
W9XU	KOIL		Iowa 61.00	940
		1076	/ //	

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Principal Broadcasting Stations of the World

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

	Kcys	Call	Watts	City	Country	Keys.		Watts		Country
	153.5			Angora	Turkey	7.3617	OKP	5000	Prague	Czecho-
	155			Kaunas	Lithuania	25000				slovakia
	160			Hilversum	Holland	72.620	AQM	500	San Salvador	Salvador
	167			Lahti	Finland	621	RV40	1200	Gomel	Russia.
	174	CFR	12000	Paris	France	626	5GB	25000	Daventry	Great Britain Russia
	183.5		. 26000	Konigs wuster-	6	7/630		1200	Simferopol	
				hausen	Germany	6 635	YN	13000 5000	Langenberg	Germany
	184		. 10000	Norddeich	Germany Great Britain	6644	EA J22	1000	Lyon Salamanca	France Spain
	193	5XX	25000	Daventry	Turkey	P P		8000	San Sebastian	Spain
	193.3 202.5	RAI	. 7000	Angor a Moscow	Russia	Feer	2FC	5000	Sydney	Australia
	207.5		12000	Eiffel Tower	France	665	CWOW	500	Montevideo	Uruguay
	212.5		8000	Warsaw	Poland	₩ ₹ 666.5		1000	Moscow	Russia
	217.3	RV8	10000	Baku	Russia	59 680	IRO	50000	Rome	Italy
	222.5		30000	Motala	Sweden	5700	HJL		Bogota	Columbia
	230	RV4	25000	Kharkov	Russia	57 689	SASA	1500	Stockholm	Sweden
	240	RA32	4000	Novosibirsk	Russia	5.7 690	6WF	5000	Perth	Australia
	250		. 5000	Stamboul	Turkey	56698		2500	Belgrade	Yogoslavia
				Reykjavik	Iceland	<u> </u>				
	260		. 7500	Kalundborg	Denmark		428 1	700		
	268.6		4000	Novosibirsk	Russia		900	100	3 L L	
	272	RA1	40000	Moscow	Russia	700	CWOA	1000	Montevideo	Uruguay
	279.6	RA14	4000	Rostov-Don	Russia	702.5	CWOA	4000	Kharkov	Russia
	280	HDO	6500	Hilversum	Holland	705	LOP	1000	LaPlata	Argentina
	280.1		. 2500	Scheveningen	Holland		СОМК	2000	Mukden	China
	283			Tiflis	Russia	707	EAJ7	2000	Madrid	Spain
	300	RV3	20000	Leningrad	Russia	716	2.101	1500	Berlin	Germany
	310			Guatemala	Guatemala	52720.5	RV13	4000	Odessa	Russia
	320	RV 49	50000	Moscow	Russia	725	2RN	1000	Dublin	Ireland
	331	RV 19	4000	Ashkabad	Russia	727		10000	Rabat	Могоссо
	343	RV13	2000	Samarkand	Russia	734		10000	Katowice	Poland
		RA11	4000	Tiflis	Russia		5CL	5000	Adelaide	Australia
	353	RA14	4000	Rostof	Russia	4 8739		4000	Nijni-Novgorod	Russia
	357	RA13	1800	Nijni-Novgorod	Russia	• 743	HBA	1000	Berne	Switzerland
	365	RV5	25000	Sverdlovsk	Russia					
	375	RV9	10000	Kiev	Russia		39.98	750	42	
	385	RV29 RV21	2000	Petrozavodsk	Russia		371570	130	¥7	
	400 416.6		4000 20000	Erivan Moscow	Russia Russia	4 750	JOBK	10000	Osaka	Japan
	410.0	RV2 RV10	4000	Minsk	Russia	750	7L0		Nairobi	Kenya, East
		RV45	1000	Orenburg	Russia					Africa
		RV43	1200	Omsk	Russia		LOT	1000	Buenos Aires	Argentina
	511	RV22	2000	Ufa	Russia		PRAP		Recife	Brazil
	527	K V 44		Ljubljana	Yogoslavia		PRAA		Rio Janeiro	Brazil
	531			Smolensk	Russia		PRAL		Sao Paulo	Brazil
9	\$ 545	MT1	20000	Budapest	Hungary			50	Valparaiso	Brazil
		CMAT	200	Tacna	Chile	752	5SC	1000	Glasgow	Scotland
4	6 550.5	RV32	1200	Stavropol	Russia	755	OAX	1500	Lima	Peru
3	550.5 554	SAS.L		Sundsvall	Sweden	43760	CWOR	500	Montevideo	Uruguay
	6 563		1500	Munich	Germany		JQAK	1000	Dairen	Japan
\$	37 572	KCX	3000	Riga	Latvia	761	• • • • • • • • •	12000	Bucharest	Roumania
ž	458t	ORV	15000	Vienna	Austria	4 4770	KOLUT	1500	Frankfurt	Germany
8	3 585		. 1200	Archangel	Russia	45 779	JOHK 1GE	10000 1000	Sendai Genoa	Japan Italy
3	8/ 590	BAV	1000	Brussels, No. 1	Belgium	72 119	4QG	5000	Brisbane	Australia
20	599		7000	Milan	Italy	783.5	RV30	1200	Dnepropetrovsk	Russia
				5		788		8000	Toulouse	France
						789	LOX	1000	Buenos Aires	Argentina
		499	600	78			LOW	500	Mendoza	Argentina
			200	تت السا السا		41 790	CWOS JOGK	500 10000	Montevideo Kumamato	Uruguay Japan
	603.5		. 1200	Moscow	Russia		RV37	1000	Moscow	Russia
24	608		60000	Oslo	Norway	797	ZZY	1000	Manchester	Great Britain
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V	0-11	Watts	City	Country	1	Kcys.	Call	Walts	City	Country
-	Call			Country		030	LOS	5000	Buenos Aires	
	314	800	39		- 1	030.3	CWOB	. 7000	Turin	Argentina Italy
800	AYRE	1000	Caracas	Venezuela	501	034 040	6BM	1000	Montevideo Bournemouth	Uruguay Great Britain
806 808	3L0	. 1500 5000	Hamburg Melbourne	Germany Australia			5NO	1000	Newcastle	Great Britain
800	7CA	3000	Calcutta	India		049	YR	1500	Radio-Lyon	France
38810	JOCK	1000 2000	Nagoya Calcutta	Japan India			285	1050	192	
810.5	RV26	1200	Artemovsk	Russia		071		1050	Radio-Liege	Belgium
815 819.5	EAJ5 RV43	1500 1200	Seville Nokolaiev	Spain Russia			CMAE	100	Santiago	Chile
27 820	JODK	1000	Keijo	Japan		075 076	F1	20 12500	Santa Fe Bratislava	Argentina Czecho-
823 824	••••	12000	Algiers Bergen	Algeria Norway				. 12300		slovakia
36 830	LOV	1000	Buenos Aires	Argentina		080 085	CWSC	2500	Montevideo Koninsberg	Uruguay Germany
833	JOIK	10000	Sapporo /Stuttgart	Japan Germany /		091	B2	100	Buenos Aires	Argentina
	PRAC		Rio Janeiro	Brazil	4.		H5 PRAG	100	Cordoba Porto Alegre	Argentina Brazil
838	2BL 7BY	5000 3000	Sydney Bombay	Australia India		•••	TRAG		I onto Alegro	Diata
35 840	JODK	1000	Seoul	Chosen			172	1100		
842	VUB 2LO	2000 30000	Bombay London	India England	12 1	111	LOJ	1000	Buenos Aires	Argentina
			Longon		· ·		F2 PRAZ	100	Rosario	Argentina Brazil
	552	850	34		i	112		1500	Franca Kaiserlautern	Germany
850	JOFK	10000	Hiroshima	Japan /	1631	120	CWSI		Paysandu	Uruguay
851		. 7000	Graz	Austria		121 127	EAJ1 EAJ13	10000 10000	Barcelona Catalina	Spain Spain
855.5 857	RV36 PRAH	1200	Leningrad Bahia	Russia Brazil	1821	139		. 10000	Moravska- Ostrava	Czecho- slovakia
	PRAE		Sao Paulo	Brazil	1	146	LOQ	3000	Buenos Aires	Argentina
33860 862	EAJ1 M6	8000	Barcelona Mendoza	Spain Argentina		148		. 30000	London, No. 2	England
869		. 12000	Strasbourg	France			260	1150	UT	
3 2870	LOR JOAK	1000 10000	Buenos Aires Tokio	Argentina Japan				1150		
	CMAI	1500	Conception	Chile	1	154	PRAI PRAK		Rib'ro Preto Rio Janeiro	Brazil Brazil
875 878	PRAJ	2400	Juis de Fora Brno	Brazil Czecho-		157		1500	Leipzig	Germany
882	PRAN		Curytiba	slovakia Brazil		166 175	PTT	. 10000 1500	Horby Toulouse	Sweden France
887	1 KAN	• • • • •	Brussels, No. 2	Belgium	1	184	D3	. 5000	Gleiwitz Buenos Aires	German y Argentina
38 891.5	RV31	8000	Velsen Ivan-Vornesensk	Belgium	., i	193	EA J 18	1000	Almeria	Spain
896		. 1200	Posen	Poland	121	196.6		. 1000	Schaerbeek	Belgium
		000	<pre>cp</pre>				249	1200		
	333	· • •	80		1	200	H6	20	Cordoba	Argentina
905 909	1NA LOZ	1500 1000	Naples Buenos Aires	Italy Argentina			CWSK		Montevideo	Urugway
5 9910	KRC	5000	Shanghai	Hong Kong	i	210	CMO1	10 	Salto Juan-les-Pins	Uruguay France
28 920 28 920	PTT PRAD	1000	Grenoble Pelotas	France Brazil	1	215	CWOI	50	Salto	Uruguay
923	F KAD	2000	Breslau	Germany		224	СМАК	100	Temuco Gand	Brazil Belgium
932 934	PRAO	. 10000	Goteborg Sao Paulo	Sweden Brazil	1	238	2BE	1000	pelfast	Ireland
938	CMAD	1000	Santiago	Brazil			339.9	1250		
943 952	PRAB LOY	1000	Rio Janeiro Buenos Aires	Brazil Argentina						-
25 959		1000	Cracow .	Poland		256		. 1000 2000	Nimes Nurnberg	France Germany
968 973	5WA	1000	Cardiff Radio-Vitus	Great Britai France	i n 1	260.4		1000	Bordeaux-Sud-	
986	PTT	1000	Bordeaux-La-	1	,	271	LOL	2000	Ouest Buenos Aires	France Argentina
23 990	LOW	1000	fayette Buenos Aires	France Argentina		273.5			Charleroi	Belgium
995	2BD	1000	Aberdeen	Scotland			120	1300	00	
	3.44	1000	22					1300		D 11
	1					1304 1313	PRAM	1500	Amparo Biarritz	Brazil France
1000	GOW	1500	Victoria LaPaza	Hong Kong Bolivia	1	319		2000	Cologne	Germany
	PRAY		Mogy d'Cruzes	Brazil		1337 1345	6CK	1000	Cork Luxembourg	Ireland Luxembourg
	PRAS CWOH	50	Santos Montevideo	Brazil. Uruguay		373		1000	Flensburg	Germany
1004			Hilversum	Holland		1	214	1400		
1013 1017	PRAR	12000	Tallinn Sao Paulo	Esthonia Brazil			. /	1400		
2/1020	CWOO	50 .2000	Montevideo Kosice	Uruguay Czecho-		1401 1415		2000	Fecamp Warsa w	France Poland
1022	••••		ITOSICE.	slovakia		1429	LON	5000	Buenos Aires	Argentina
				r	69	1				

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Time Station Dia	FAVORITE Feature		GRA Station	MS Dials	Feature
Γ	DAILY	ſ	W	EDNESDA	r i i i
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SI	UNDAY		1	THURSDAY	
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M	ONDAY			FRIDAY	
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TU	JESDAY		5	SATURDAY	
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RADEX RADIO MAP OF NORTH AMERICA

Twelve times the size of this page with all states and provinces accurately shown and all cities which contain broadcasting stations plainly lettered. Guide lines with key to correspond with that given in Index by States and Cities. Time zones correctly marked. Simple method of measuring distance between any two cities. Just the thing you have been looking for.

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Write Name Plainly	
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City and State	

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If all the Radio sets I've "fooled" with in my time were piled on top of each other. they'd reach about half way to Mars The trouble with me was that I thought 1 knew so much about Radio that 1 really didn't know the first thing. 1 thought Radio was a plaything that was all I could see in it for me

I Thought Radio Was a Plaything

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

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

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

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

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

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

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

And as for the role athat a spiendid Kadio job might be mine, if I made a little effort to prepare for it — such an idea never entered my mind. When a friend suggested it to me one year ago I laughed at him. "You're kidding me," I said. "I'm not," he replied. "Take a look at this ad."

He pointed to a page ad in a magazine 1'd seen many times but just passed up. This time 1 read the ad care-fully. It told of many big opportunities for trained men to succeed in the great new Radio field. With the advertisement was a coupon. I sent the coupon in, and in a few days received a handsome 64-page book, telling about the opportunities in the Radio field and how a man can prepare quickly and easily at home to take advantage of these opportunities. Well, it was a revelation to me. I read the book carefully, and when I finished it I made my decision. What's happened in the twelve months since that day,

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

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

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

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

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

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

Take another tip - No matter what your plans are, no natter how much or how little you know about Radio -clip the coupon below and look their free book over. It is filled with interesting facts, figures, and photos, and the information it will give you is worth a few minutes ore intermation it will give you is worth a few minutes of anybody's time. You will place yourself under no obligation — the book is free, and is gladly sent to anyone who wants to know about Radio. Just address J. E. Smith, President, National Radio Institute, Dept. OK52, Wash-ington, D. C.

J. E. SMITH, President, National Radio Institute, Dept. OK52,

will call on me.

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

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