

THE DECEMBER 1931

# RADIO INDEX

WHAT'S ON THE AIR TONIGHT?



25<sup>c</sup>

What 1932 Offers in Radio  
Changing to Pentode Tubes  
Can I Use the Variable-Mu Tube  
In My Set?

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DECEMBER 1, 1931



# RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



EIGHTH YEAR

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# What DOES 1932 OFFER in Radio

**I**NTEREST in modern radio receivers is aroused anew each year with the coming of the winter season. Christmas is in the offing, and this is a time when manufacturers present their latest models to the public. While there are many new sets to choose from this fall, it must be said that the recent New York Radio World's Fair exhibited few sets with outstanding features in circuit design. The 1932 trend seems almost generally to be toward functional development and improvement, and practically every radio manufacturer has returned to the incomparable superheterodyne circuit. The new tubes, of course, make their first debut in combination.

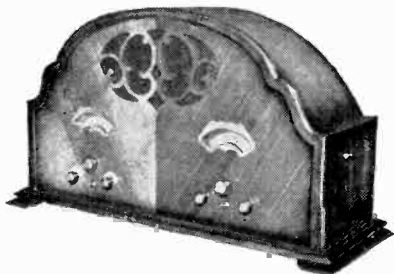
Short waves are receiving much attention from set builders. International radio is the demand of the 1932 radio fan. Television is to many the black magic of the hour, and it holds the fascination of impatient thousands. Receivers with built-in short wave sets, and some with television apparatus, have appeared on the market. Short-wave adapters of efficient operation may be bought, and several all-wave sets for broadcast and short-wave reception are being offered.



Atwater Kent model 82. This is a popular midget superheterodyne set using the variable-mu and pentode tubes with tone control and quick vision dial. The a. c. model sells for \$69.80, and the d. c. 2-volt model with "air-cell" battery sells for \$94.80.

Survey by  
**B. FRANCIS DASHIELL**

Midget receivers, and even a number of super-midgets of few tubes, abound. The latter are of the three and four-tube types, and are suitable only for local and short distance reception. They will fill, however, a certain 1932 demand for low-priced and supplementary sets. Even superheterodyne midgets with as few as



Pilot "All Wave." This is another 11 tube superheterodyne receiver for all waves from 11 to 550 meters in length. There are no coils to change or plug in as a small switch throws quickly from wave length to wave length. It is priced at \$99.50 for the table model which resembles somewhat the standard midget set.

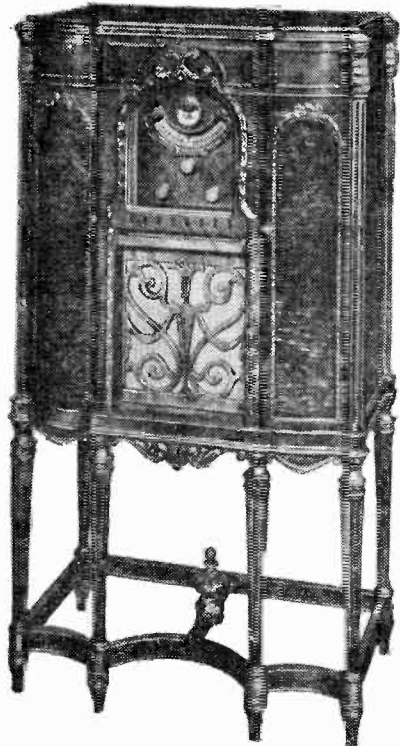
five tubes are shown at reasonable prices. The widespread development of the pentode tube has given new impetus to the midget industry. The variable-mu tube is increasing the popularity and selectivity of practically all the new sets of 1932.

## D. C. Sets Returning

Recent years seemed definitely to end the reign of the battery set. Rural demand, as well as an oft-expressed desire for quiet "d.x." reception, has brought about the revival of the direct current cabinet sets. This has been made possible by the development of a 1000-hour "air-cell" battery, as well as the new two-volt tubes in screen-grid and pentode styles. The family automobile has not been neglected for one may procure automotive sets using the new six-volt d. c. tubes.

The 1932 receivers are encased in cabinets mostly constructed of well-finished walnut. Power units and shield-

ing are improved, while the radio set chassis is more rugged. The —80 type tube is universally used for d.c. rectification. Considerable novelty is shown in small table-like sets that have built-in aerials and grounds and which may be



Zenith de-luxe model with automatic or self-tuning device. This is a 14-tube superheterodyne receiver with an automatic arrangement which will turn on selected stations and shut them off as soon as finished. Only the pressing of a button sets this self-tuning device in operation. Sells for \$290.00.

moved easily about. Some sets are combined in a grandfather clock case and require little floor space.

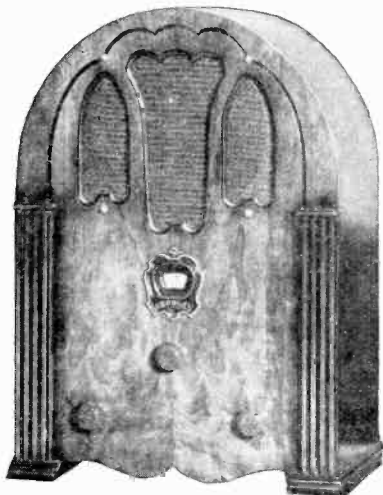
Prices for 1932 are in keeping with the present times. Never before in the history of radio has quality been so high, efficiency so remarkable, and receivers so enduring. Tubes last longer than ever, and, consequently, makers have been overproducing in the mistaken belief that replacements would be made rather frequently. Receivers are often equipped with factory matched sets of tubes. The average cost of a full-size

console cabinet super-heterodyne receiver is less than \$75, while midgets are less than \$40. There are luxurious sets having built-in short-wave converters, self-tuning devices, and combination short-wave and television apparatus, which sell for \$200 and more.

It is obvious that every model offered for 1932 cannot be listed herewith. A selected few of those sets which are likely to have a wide appeal in 1932 are briefly analyzed for the readers of RADEX.

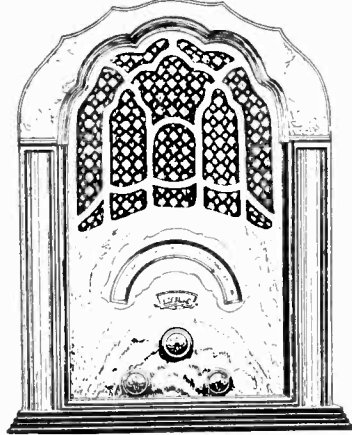
Combined broadcast and short-wave receivers with built-in television apparatus are newly offered. They will receive voice and picture broadcasts simultaneously on two different wave lengths. The Baird model sells for \$300, and the Empire State model is similarly priced. The Jenkins Television Corporation is about to offer a short-wave receiver and television machine combined which will sell for slightly more than \$100. Experimental television kits may be had from \$20 and up.

Automobile radios are offered by several makers. There is the Philco "Transitone" which uses seven tubes, including the pentode, and has a steering wheel control. It sells for \$100. The Crosley "Roamio" model 92 has six tubes and sells for \$92. The Majestic



Crosley model "Litifella." Another midget superheterodyne using five tubes. Sells complete for \$36.36.

“Motor” set with seven tubes and superheterodyne circuit uses the new —38 6-volt d.c. pentode, and sells complete for \$87.00.



Lyric model S-7. This is a 7-tube superheterodyne midget receiver using two —35 tubes, one —27, two —24s, and one —47 pentode. It has a spot light tuning beam of light that moves with the dial pointer to show quickly the station wanted. Complete with tubes for \$69.50.

Stewart-Warner offers a new portable console receiver with self-contained aera and ground. It may be plugged in anywhere about the home. It has a full-size superheterodyne circuit with one control and television terminals. Combined also with a short-wave receiver for world-wide reception. Easily moved about on its small rubber-tired wheels. Sells complete for \$90.75.

Stewart-Warner has a short-wave converter. It is a complete short-wave unit in an attractive midget style cabinet. The set will adapt practically any a.c. radio set, including superheterodynes, to short-wave reception. It is easily attached to the antenna connection of the radio receiver without removing tubes. There is single dial control, and the converter sells complete for \$23.95.

Silver-Marshall model 726 SW. This is a combination superheterodyne receiver covering a range from 10 to 550 meters. It contains 11 tubes. One is a —27 broadcast-wave oscillator; one a 27 short-wave oscillator; one —24 first detector for short waves, and one for long waves; three —35s for intermediate radio frequency; one —27 second detector for all waves; two —47 pentodes in push-pull; and one —80 for rectified d.c. voltages. This set sells complete for \$139.50.

RCA-Victor model “Radiolette.” This is a super-small midget using a tuned radio frequency circuit and four tubes in all. The set is best used for reception from local and strong nearby stations not over 200 miles distant. It uses the new pentode a.c. tube and sells complete for \$37.50.

Fada model 53. This is a Fada quality 7-tube superheterodyne receiver in a full-size console cabinet. It has the new multi-mu and pentode tubes. Priced complete at \$89.50.

# RADIO

THAT No. 1 mathematical puzzle in October attracted much comment. Several readers took us to task for giving them what they termed a “bum start” in our “If A plus B equals C” hint and decided the problem could not be solved from that beginning. We will admit that this was not intended to be the most helpful suggestion possible but nevertheless the problem could have been solved by following that premise to its conclusion. A number of contestants arrived at a sort of a solution by letting 2 equal both F and A. These were incorrect.

In the November contest, No. 1 is described as being not difficult but a lot of work. This would have been a sticker had we not given the frequencies as clues.

The No. 1 puzzle for November was solved in the following manner:

```

W..G...A.L.
...K.S.M.R..
.....C.M.CF
...K...P...PC
WI...B.X...
...X.E.T.Y..
...C.N.R.R...
...W.X...Y..Z
C..M.G...H.
.....K.P.CB
W..L....B.G
...X.E..F.A..
W.M.P.C....
...KD.B.....
K.G...BX...
...W...HB.Q
..W..J....W.
    
```

The missing letter in No. 2 was F. Inserting 18 F's gives the following calls: KGFJF-XFF-KFNF-CFCF-KFH-WFI-KGFF-WFDF-KFWF-KFXF.

In No. 3, the calls Manuel Miller found in the word “kilowatts” were KLS-KOA-KOIL-KOL-KTAT-KLO-KIT-KTSA-KTSL-KTW-KSL-KSO-WIS-WIAS-WIL-WLIT-WLS-WOAI-WOI-WOL-WOS- and WSAI.

## December Puzzles

For this month we have a cleverly arranged puzzle designed by Earl R. Roberts, 712 South 9th St., Cambridge, Ohio. If anyone thinks it is easy to

# PROBLEMS

invent a puzzle of this kind, let him try to fill these squares with calls of his own. Following are the descriptions of the calls used by Mr. Roberts:

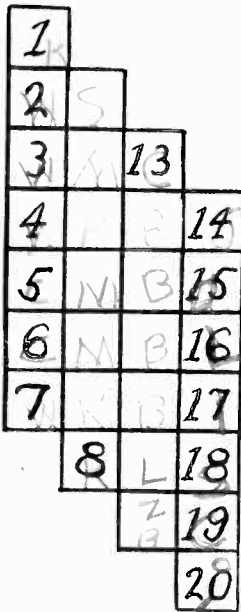
**Diagonal**

- 1-14 Shares time with a Wisconsin Station.
- 2-15 A 100-watter on 1500.
- 3-16 On 249.9 meters.
- 4-17 In Illinois.
- 5-18 Havana, Cuba.
- 6-19 2,600 miles from 5-18.
- 7-20 Recently moved to another city.

**Horizontal**

- 3-13 An NBC outlet.
- 4-14 Ten watts in the South.
- 5-15 Deleted last month.
- 6-16 In Cuba.
- 7-17 Shares time with another 100-watter in the same town.
- 8-18 A daytime in California.

**Puzzle No. 1**



**Puzzle No. 2**

In the following letter from one of our readers are hidden the calls for a number of stations, reading them either left to right or reversed. Can you find them all?

"I own a Crowley Lowboy, FK-17-A, and we bring in Washington OK. It has a whistle that is most vexing which cannot be tuned out. I cannot explain this. At times it

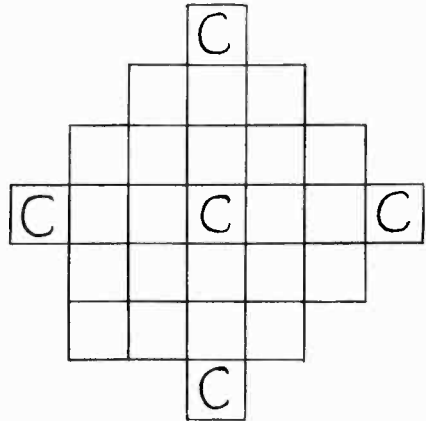
works well. What will remedy our trouble? We want your advice. We have your RADEX and your new map. Please save our set for us."

*Mr. J. C. Korecky,  
Wilmington, Del.*

The calls are all found in the Index by Frequencies. Send a list of those you find.

**Puzzle No. 3**

T. J. Johnson, Drawer E, Bowlegs, Okla., is the designer of this puzzle of the five C's. He suggested that no help other than the outline be given, but we fear that would be too difficult. No call is to be used twice and neither vertical nor horizontal calls are to be reversed. In order to make this puzzle somewhat easier, we are giving below the frequencies on which the stations used will be found: 920-860-1390-1400-880-990-960-1210-730-1030-1180-1000-890-590-660.



Get the correct answer to these three problems to us by December 20th and receive as a reward either the map of North America or a copy of the January RADEX. Subscriptions of successful contestants will be extended one issue when requested.

A little girl sat on top of a picket fence singing at the top of her young voice to the "Blue Devils of France" marching by, and became "The Songbird of the South." Read the story of Kate Smith in the January RADEX.

# DIALS AND DIFFICULTIES

Answers by

B. FRANCIS DASHIELL

## Troublesome Volume Control

*I have a Bremer-Tully No. 6 receiver and the volume control cannot be moved far without losing the station or causing distortion. Where may I obtain a copy of this circuit?*

The volume control used on your set is a 500,000 ohms rheostat in series with the "B" 90-volt connection and the plates of the first three —26 r.f. tubes. Perhaps the control needs replacing since it seems not to operate the "B" voltage on the tubes. Write to the Bremer-Tully Company, Technical Service Division, Muskegon, Mich., for a circuit diagram.

## Variable-Mu Tube Replacements

*Is there any advantage in changing my Philco Baby Grand Model 20 superheterodyne receiver over to the new —35 tubes? Where can I get a wiring diagram of this set?*

This set now uses three —24 screen grid tubes with a dual acting volume control that governs signal input and the first and second tube grid bias voltages. To change this set over to the —35 variable-mu tubes would be a difficult task and hardly worth the trouble. However, a set of adapters, such as manufactured by the Alden Company, can be placed in the sockets before inserting the new —35 tubes. A volume control is fitted to the cable connecting the adapters and replaces the present control. Such replacement involves wiring changes because of the difference between the two controls. A wiring diagram may be obtained from the makers, Philadelphia Storage Battery Co., Ontario and C Streets, Philadelphia, Pa.

## Light-Socket Antenna

*My Atwater Kent model 75 receiver has not worked well since my electric light socket antenna plug became shorted. The volume control got very hot. I had the set tested by a service man but it does not work well.*

These antenna devices are apt to cause

trouble if they become short-circuited. It is obvious that a heavy flow of current passed through the antenna-ground and volume control circuit of your receiver. Perhaps some wire or soldered connection was loosened, or the heat damaged the control. It is suggested that the



General Motors model 219. Built in an early English occasional table style with self-contained aerial. It can easily be moved to any location that is near a floor plug. This receiver is a superheterodyne employing seven tubes, and features a tone selector. It sells to \$79.50.

service man make a thorough continuity test with his analyzing machine and locate the seat of short circuit or broken connection within the set.

## How's My Antenna?

*My antenna is 30 feet high at the house end and only 15 feet at the extreme end. The lead-in comes off the high end, and the full length is 60 feet. The ground is a 5-foot length of rod driven in the ground and surrounded by salt. What do you think of these essentials?*

There is an old-fashioned belief that an antenna lead-in wire should come off the lower end and not the higher. We doubt whether it makes any difference in your case. We feel, however, that you will lose some sharpness of tuning because of the length of antenna, and it ought to be reduced to not more than



40 feet. You might raise the low end to the same height as the house end.

But, your ground! Why drive a rod down into a bed of salt? If you have an interior water pipe line make the connection to that, by all means, for water pipes run for miles beneath the ground and afford the best possible connection. If pipes are not available, make a ground of three lengths of new three-quarter-inch pipe driven down six feet or more into moist earth, each about five feet apart. Connect with bare copper wire, well soldered, or bolted to the top of each pipe. Water may be poured down into the open tops of the pipes to moisten the earth beneath and make a better ground.

#### **—25 Versus —35 Tubes**

*I wish to change my R.C.A. model 80 set over from —24s to —35s if feasible. Do you think the adapters now offered the public will be satisfactory? Is there some easier way of changing to the new—35 tubes?*

It is suggested that you procure one of the new adapters now on the market used to replace the —24 tubes with variable-mu —35s. This adapter outfit has a new volume control which can be used on your set in the place of the old control as it is necessary to obtain a variation of the grid bias which ranges from 3 to 50 volts. Remove the —24 tubes from the sockets—not the detector—and place an adapter in each socket. Then insert the new —35 tubes and the set is ready to use.

#### **Receiver Tunes Broadly**

*I own a model 50 Steinile receiver that tunes much too broadly. Why is this? Also, how can I change a 5-tube battery set over to screen-grid tubes?*

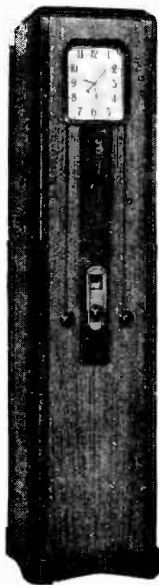
This make of receiver uses a vario-meter radio-frequency input tuning device which is not always as selective as a set might be. But we feel that your trouble is exceptionally bothersome. Perhaps you have too much antenna, and, if so, we suggest you cut it down to about 30 feet in length, exclusive of lead-in wires. Or you can try a .00025 mfd. fixed condenser in series with the antenna and the receiver terminal—the “S” post, or short terminal. This should increase the selectivity considerably.

You do not say what make of 5-tube battery set you wish to change to screen-grid tubes. But if from —01A tubes to —22s, the task is difficult, as the primaries of the radio-frequency coils must be replaced with windings of greater inductance. Also, rewiring of the sockets, together with a new, flexible grid lead for each tube, will be necessary, not to mention fixed condensers, increased “B” battery voltage, and other items. We doubt whether the change will prove worth-while, for screen-grid circuits must be designed for certain specific tubes.

#### **All Waves on —35s.**

*How can I change my Scott All-Wave receiver from —24 to —35 variable-mu tubes? Are major changes necessary, and if not please tell me what to do in the way of wiring?*

Yours is a complicated receiver using a superheterodyne circuit in which the —24 tubes play the part of first detectors and intermediate radio stage amplifiers. These tubes function in different ways and require certain grid bias, plate voltages, etc. For these reasons it seems to us to be rather impracticable to attempt the change; the wiring would be too complicated, and the gain in selectivity would be slight—very slight in



Westinghouse model WR-15. This 9-tube superheterodyne set is in a novel setting. It has an automatic volume control and makes use of the variable-mu and pentode tubes. It is a grandfather's clock which is electrically operated and radio set combined. It sells complete for \$125.00.

this particular set. We are confident that the makers of the set would strongly advise against such a change.

#### Roaring Sounds

*My Atwater Kent model 55 cuts on and off at times and is accompanied with a roaring sound. Sometimes touching the antenna terminal stops the roar. How can I remedy the trouble?*

It is likely that one of the two —45 tubes in the push-pull audio amplifier fails properly to operate. Examine to see whether they fit snugly in the sockets. Perhaps some other tube is defective; all should be tested, especially the —27 detector. Filter condensers may be defective, or the —80 rectifier tube may not fit its socket perfectly. There may be a loose connection in the volume control and associated resistor unit. The radio-frequency circuit, and antenna coil, should be closely examined for open or loose connections.

#### Steinite Wiring Diagram

*I have a Steinite set numbered 87286. It will stop and start right in the midst of a program. Service men say they need a diagram. Where can I procure one?*

You have given the serial number of your set and not the model number and

we cannot identify the set among the several models manufactured. Your trouble may be due to looseness in connections to the last audio amplifying tubes. Other than that we feel that a loose wire is present in the set. Have all the tubes tested carefully for performance. A wiring diagram may be had from the makers, who should be able to identify the serial number, if you address the Steinite Manufacturing Company, Fort Wayne, Indiana.

#### Poor Selectivity and Tone

*My Zenith model 34P was overhauled but still does not work perfectly. My antenna is 50 feet of 7-strand wire, and the set tunes broadly. Should I change to shielded wire? Will a small condenser cut down the hum of my set? How can I improve the tone of the set, as well as its range?*

We think that your aerial should be cut down to about 30 feet in length, and it may be an advantage to use the shielded lead-in cable between the antenna and the set, provided it is well grounded. A small .00025 mfd. fixed condenser can be connected between the antenna wire and the center connection plug socket of the antenna coil in the set which will sharpen the tuning considerably.

Additional condensers in the power supply are not likely to reduce hum for that circuit has been balanced and designed by the makers. A service test of the parts in the power circuit might show some defects that cause an increased hum.

The tone might be improved by using a pentode —47 tube in place of the —10 now in use. All that is necessary is an adapter that can be purchased at any supply place. Nothing can be done to increase the range of a set except to make it more selective and sensitive by providing good tubes and working conditions.

#### More Pentodes

*I have a Radiola model 17 receiver and I think that if I use the —47 pentode in place of the —71A I will get better volume.*

The change can not be made unless a new socket is placed in the set or an adapter, such as the Alden, is used. But

*(Continued on page 29)*



*This is Hildegard, a young German singer, who has been touring the nation on the RKO vaudeville circuit. NBC is arranging to present her on several programs in the near future.*

# BACK OF THE STUDIO SCENES

By "Betty"

**H**ERALDED as the truly different radio act, "Myrt and Marge," the backstage story of two girls of the chorus, made its debut over the Columbia network Monday, November 2nd. This series was conceived and written by Myrtle Vail, who plays the role of "Myrt," the worldly-wise veteran of a thousand curtain calls. The part of "Marge," the unsophisticated one who gets her break in the big-time chorus is played by Donna Damerel. Both Miss Vail and Miss Damerel formerly appeared on the stage, but face the "mike" for the first time on this program, which is sponsored by the William Wrigley Jr. Company. It is said that Miss Vail while listening one evening to a story over the air, decided she could write her experiences and make them more interesting than the story she had just heard. Without much delay she wrote a series of her chorus-girl experiences, but then the problem was to whom could she sell them. Just then her eyes chanced to fall on a stick of gum, and before long she found herself, trembling, but determined, in Mr. Wrigley's office asking for an interview. The result? A contract was signed, it is rumored, which runs into seven figures. The tragi-comic realistic story of "Myrt and Marge" may be heard every evening except Saturday and Sunday, over the eastern network, from 7:00 to 7:15 E.S.T., and over the Pacific coast network from 10:45 to 11:00 p.m., E.S.T.

## He Helps Kate

Jack Miller, Columbia's latest "find," with the rich baritone, is heard three times weekly, Tuesday, Thursday and Saturday, at 11 p.m., E.S.T. His theme song, "When the Stars Come Peepin' Through," was written by him the day before his first night broadcast. He is Kate Smith's pianist and arranger; has played for all her broadcasts and stage appearances since January, and is prouder of her success than his own mounting popularity. He is 5 feet, seven



*Show business provides the setting for "Myrt and Marge." "Myrt" (left) is Myrtle Vail, while "Marge" is Donna Damerel.*

inches, and weighs 155 pounds. Was born in Dorchester, Mass., 29 years ago. Never took a piano lesson in his life, nor a singing lesson. Didn't know he could vocalize until six years ago. He was working in a Boston music publishing house when an SOS call came for him to fill in on a local broadcasting station. Believing that a half-hour of piano would be monotonous for listeners, he started to sing. He was an instantaneous hit. Engagements with several prominent orchestras followed. He organized his own orchestra in 1928. Was featured at a fashionable Cape Cod dining rendezvous. He picked up his knowledge of orchestral and vocal arrangements in the music house of Boston. Two years ago he played at the State Theatre, in that city, as soloist, orchestra leaders and master-of-ceremonies. He remained one year by popular demand. Last January, Ted Collins, whom he had met in New York through recording work with his band, introduced him to Kate Smith. He was promptly assigned as her official accompanist. Even when she is

accompanied by an orchestra, he is at the piano. Jack is a blond, prefers brown clothes, likes sports, reads detective stories, sleeps nine hours, and says "My ambition is to become a radio artist."

### "She Stops the Show"

Mildred Bailey, youthful "blues" singer, was born in Spokane, Wash. At the Edgewater Beach Hotel, where she has been singing with Paul Whiteman's orchestra, Miss Bailey has been a sensation. Petite, dynamic and possessed of a voice of deep power, the western girl has captivated the middle west with her music. When Mildred's school days were over, she landed a job in a Seattle music store. That was much to her liking. Her voice caused people to buy music, many customers came again and again, if not to make purchases, at least to hear Mildred sing the latest tunes of the day in her inimitable manner. Then came a chance to work in Vancouver. She bobbed up at a fashionable club and was soon causing near-riots with her song interpretations. Then to Chicago, where Paul Whiteman heard her deep voice. Unique singing style just matches the rhythm of Whiteman's dance music. There is no better way of describing the effect this new star achieves than by saying "she stops the show." Mildred is five feet, two inches, and weighs 100 pounds; has hazel eyes and black hair; listens to the radio for diversion; owns several chow dogs; sends photographs to her radio admirers and manages to save something out of every pay envelope. She may be heard each Monday and Wednesday over the NBC-WJZ network from 12 midnight to 12:15 a.m. E.S.T.

### Mrs. Mills' Four Boys

Have you heard the Mills Brothers? The four young negroes who had been waiting patiently in the reception room of the Columbia Broadcasting System were finally admitted to the office of Ralph Wonders, director of the Artists Bureau. They said they were the Mills Brothers. They said they sang. Wonders, who has his share of unannounced visitors, played a hunch and arranged an immediate audition. The brothers sang

only one number. Wonders rushed them into the private office of Wm. S. Paley, President. "With your permission, Mr. Paley," Wonders said, "I'd like you to hear the Mills Brothers." With that brief introduction he signalled to the somewhat startled boys to sing. They did, and so delighted was the executive with their unique vocal renditions that he sent word to Wonders to have them continued. And for more than an hour the four went from one song to another. Three days later they were scheduled for their first broadcast. There was no advance ballyhoo; not a line of print, other than the bare program listing, heralding their network debut. They went on the air "cold," but as soon as their fifteen-minute broadcast was over, the telephone switchboard was flooded with calls from listeners, "Who are they?" . . . "What kind of instruments do they use?" . . . "How do they make themselves sound like an orchestra? ' ' ' "When can I hear them again?" Their success was immediate, and the four youths were a bit bewildered. They really are brothers, John, 21; Herbert, 19; Harry, 18; and Donald, 17. All the boys were born and raised in Piqua, Ohio, and began singing together when John was but 13, performing for stray pennies and nickels. Then their father set them up as entertainers in his barber shop, hoping to keep the boys off the street. They finally graduated to the local opera house. Last year they moved to Cincinnati, where they immediately won a place on the schedule of a local radio station. When it was suggested that they make a bid for the "big time" broadcasting in New York, they were a bit dubious as to how they would be received, but they finally agreed to go for a try-out if their mother would accompany them. She consented, and to New York they came, they sang, they conquered. Listen-in any Tuesday, Thursday or Saturday evening from 8:00-8:15 E.S.T.

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Are you listening to that delightful series of intimate scenes from the lives of "The Goldbergs?" Their story will be in the February RADEX.

# CAN I USE the VARIABLE-MU?

Here's How by  
MR. DASHIELL

**M**ANY readers have called upon us for information relative to the substitution of new variable-mu (—35) tubes for the older (—24) screen-grid tubes. As there is a considerable haze of misinformation surrounding the true qualifications of the new —35 tubes, we feel it should be cleared away as much as possible.

The —24 is simply a screen-grid tube with a cathode heater. The new —35 is the same but it shows improvement over the —24 when used only in new circuits especially designed for it. The —24 tube has done well in its place in receivers offered to the radio public up to now. There is no advantage in replacing it by the variable-mu —35 tube in older circuits. There might be a slight tendency toward a gain of better selectivity—there will be no increase in sensitivity. Changes in tubes call for rather radical changes in wiring in the set. Of course, the —35 may be used in place of a —24 simply by inserting it in the socket, but the results will be decidedly discouraging. Such practice is not recommended.

The new tubes take practically the same plate voltage, plate current, screen voltage, socket connections, etc., as the —24s. The positive screen-grid voltage for the —24 is obtained from a device connected to the "B" supply so as to give a variable supply ranging from 0 to 75 volts. This device, or potentiometer, provides a suitable method of volume control. The —35 tube requires a maximum of 90 volts on the screen-grid. And its volume is not controlled by variations in the potential of the screen, as is the case with the —24, but by a change in the control-grid (top cap connection) or "C" bias. This negative current varies from —3 to —50 volts, with signal intensity decreasing steadily as the higher negative bias is reached. In the —24 tube this bias usually remains constant at —1.5 volts.

When the —35 tube is used to replace

a —24 it becomes necessary to make some changes in wiring, essentially that of supplying the proper grid or "C" bias for the easy control of volume over a large range of signal voltages. Thus the local-distance switch or antenna potentiometer in the receiver can be discarded. When it is realized that there are about 22 different kinds of volume controls, it can be seen that the chances of having a set with a circuit suitable for changing to the —35 tubes are very remote.

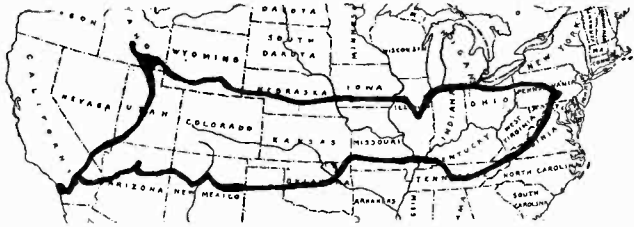
A device known as a variable-mu or —35 adapter has been developed. It consists of several sockets or adapters that fit the regular UY sockets after the —24 tubes have been removed. The —35s are then inserted. A wire connects all adapters to a new volume control which replaces the old control. A loose wire attached to the new control should be grounded to the frame of the chassis. A RADEX reader reported that this change in his Radiola 80 gave excellent results. But care must be exercised in changing with adapters to make sure the old control wiring is so arranged that the change can be made.



*Amiable originators of "Jake and Lenu," Gene Carroll (left) and Glenn Rowell have signed a long term contract with Quaker Oats for a continuation of their daily broadcasts over the NBC network.*

# ACROSS the NATION with a Portable

By RAYMOND M. BELL



**D**URING the past summer the writer made a motor trip from Pennsylvania to California and return; getting into 23 states, as far north as Idaho and as far south as Texas. A six-tube superheterodyne portable receiver (Radiola 26) with loop aerial was taken along and used daily. A special study was made of daylight reception along the route. Weather and topographical conditions may have played some part, but the results give a fairly reliable cross-section of reception across the country. In all cases, except where stated, reception took place during the daytime.

The start was made from southeastern Pennsylvania where New York, Baltimore and Washington provided the best reception. At night the principal stations east of the Mississippi River could be tuned in. In western Pennsylvania KDKA, WTAM and WLW were heard best, while in north central Ohio WJR replaced KDKA in the above trio. Near Chicago in addition to the many locals WLW and WTMJ were logged. In central Illinois Chicago stations were still the standbys; in addition some other midwest stations were heard with ease.

Farther west, in central Iowa, WMT provided the CBS programs, and a number of other stations in Iowa and surrounding states gave dependable reception. At Omaha besides the locals KFAB, WNAX and WREN were easily tuned in. KFAB, WOW AND KMMJ were mainstays in central Nebraska. There KOA, WENR, WLW and WFAA were loudest at night. In western Nebraska for the first time the number

of daylight stations was limited. Only the two Denver chain stations, KOA and KLZ, could be heard. At night it was different for KFI, WLW and many in between were logged with good volume. KWKH came in from the south. In Cheyenne and central Wyoming, Denver provided reception during the day. Western Wyoming was about the only section across the country where nothing could be logged in daytime on the portable, although as the sun was setting KFI, WFAA and KOA were all heard well with the same NBC program from New York. It is interesting to note that the same programs can be heard the whole way across the country because of the networks.

In central Idaho KTFI was heard best. At night all the Rocky Mountain and Pacific Coast stations were logged, with KFI and KNX loudest. Stations as far east as WLW were heard. Down in Ogden, Utah, KLO and the Salt Lake stations were locals. At night stations were heard north to KHQ, east to KOA, south to KTAR, and west to KFI. KFI became the dependable daylight station in southern Nevada. In Los Angeles only locals were heard, although the networks brought programs from all over the world. Many excellent broadcasts were available.

Heading east, Arizona brought KFI and KTAR in best. In Albuquerque, New Mexico, KGGM, the local, was heard. Near the Texas line only WFAA could be heard during the day. At night stations from KFI to WLW were tuned in, with WFAA, WOAI and KOA loudest. In northern Texas, WFAA was best by far, with KGKO and KGRS

loud also. Near Oklahoma City besides the locals WFAA and KVOO were heard; and in eastern Oklahoma KVOO, WFAA, WDAF and WIBW were dependable.

In the midst of the Ozarks KMOX was the star performer, while a day later in Kentucky, on the banks of the Ohio, WSM and KSD occupied the stage. At the latter place stations from WJZ to WFAA were heard after darkness had fallen. Near Nashville WSM and WLAC were always available. At night Memphis was among the many cities heard well.



Father and Mother are discussing "Raising Junior." In real life they are Mr. and Mrs. Peter Dixon. Daily, except Wednesday, 6:00-6:15 p.m. EST., NBC-WJZ network.

Fifteen miles from WSM an interesting test was made. Although WSM was on 650 keys., KFI 640 keys. and WFAF 660 keys., were tuned in on an August evening with good speaker volume. The portable easily brought in another western station, KOA, although WHAS was only 10 keys. away. Crossing the Tennessee mountains, near the Virginia-Tennessee line, WLW was loud day and night, with WHAS and KDKA also coming in well at night. Back in Pennsylvania KFI was tuned in on the portable;

## The Month's Changes

Power		
630	CKOC	Hamilton, Ont., 500 to 100.
910	CNRL	London, Ont., 500 to 5000.
990	WBZA	Boston, 15,000 to 25,000.
1120	KFSG	Los Angeles, 500 to 400.
1210	WOCL	Jamestown, N. Y., 25 to 50.
1310	KIT	Yakima, Wash., 50 to 100.
1330	WSAI	Cincinnati, Ohio, 500 to 1000.
1340	CMCY	Havana, Cuba, 15 to 100.
Locations		
1310	KTSL	Shreveport, La., to Laurel, Miss.
1450	WTFI	Toceaco, Ga., to Athens, Ga.
Owners		
670	WMAQ	Chicago, Ill., to National Broadcasting Co.
1180	WGBS	New York, N. Y., to American Radio News Corp.
1200	KGHI	Little Rock, Ark., to O. A. Cook.
1210	WIBU	Anderson, Ind., to Anderson Brdsteq. Corp
1310	KFJY	Ft. Dodge, Iowa, to Cedar Rapids Broadcast Co.
1310	WMBO	Auburn, N. Y., to WMBO, Inc.
1320	WSMB	New Orleans, La., to WSMB, Inc.
1350	KWK	St. Louis, Mo., to Thomas Patrick, Inc.
1430	WHP	Harrisburg, Pa., to Harrisburg Telegraph
1440	WTAD	Quincy, Ill., to Illinois Brdsteq. Corp.
1500	KUT	Austin, Texas, to KUT Broadcasting Co.
Permit to Move		
900	WLBL	Stevens Point, Wis., to Ellis, Wis.
1180	KOB	State College, N. M., to Albuquerque, N. M.
1200	KSMR	Santa Maria, Calif., to Bakersfield, Calif.
Chains		
970	KJR	Seattle, Wash., new NBC.
1180	KEX	Portland, Ore., new NBC.
1380	WKBH	LaCrosse, Wis., CBS out.
1470	KGA	Spokane, Wash., new NBC.
Frequencies		
570	WPCB	New York City, from 810.
630	CHCS	Hamilton, Ont., from 1010.
690	CNRR	Toronto, Ont., from 960.
840	CPRY	Toronto, Ont., from 690.
915	CFLC	Prescott, Ont., from 930.
960	CFCL	Toronto, Ont., from 580.
960	CKCL	Toronto, Ont., from 580.
960	CHCK	Charlottetown, P.E.I., from 1010.
1110	XEH	Monterrey, N. L., from 1132.
1120	CNRT	Toronto, Ont., from 840.
1350	KIDO	Boise, Idaho, from 1250.
Calls		
1180	WGBS	New York, N. Y., to WINS (?)
1310	KTSL	Laurel, Miss., to WTSL.
Deletions		
690	CHCA	Calgary, Alta.
690	CNRC	Calgary, Alta.
840	CHCT	Red Deer, Alta.
1210	WDWF	Providence, R. I.

Ollie Ross, the famous DXer, whose story appeared in the June issue of this magazine, is now traveling throughout the world. He is testing reception conditions in many countries, particularly of American stations. His first story, written for RADEX, will appear in the January issue.

providing the best long distance reception of the trip.

There are possibilities for interesting conditions of reception with a portable.

(Continued on page 18)

# LIFE in THOMPCKINS' CORNERS

Oak Park, Illinois.

Dear RADEX:

Last night's Chicago Daily News carried an item of news that interested me, and I am sure must have interested countless fans who visit Thompkins' Corners each Monday night with "Real Folks." It was the announcement that Elsie Mae Gordon, who is "Maybelle" with Hank Simmon's Show Boat, stars as "Sneed" with Real Folks.

What interests me and would probably interest many, many radio listeners is, who is the author of these Chesebrough incidents and who are these men and women who so cleverly take the parts of Mayor and Mrs. Thompkins, Elmer, Sneed (such lovable boy characters), Mrs. Jones, the Judge, Mrs. Watts, the Italian, the Swede, the school-teacher, and all the rest who seem real friends visiting us weekly. Could you not tell us about them in RADEX?

Yours truly,

(Miss) C.A.B.

So here is the story of "Real Folks."

Twelve years ago George Frame Brown came back from the war, a discharged "Yank" with an identification tag and no job. He tramped the streets of New York as a hungry architect seeking work.

Brown since has built an imaginary town, put people into it, and has gained

Matt and Martha  
and Elmer and Sneed

fame and fortune under one of the best known aliases in America. He is known to millions as Mayor Matt Thompkins of Thompkins Corners, U.S.A.

Matt Thompkins and his town comprise the central figure and locale of the popular "Real Folks" sketch heard weekly over a National Broadcasting Company network. More than one million fans have written letters to "Thompkins Corners," its folks have been on the air more than three years and are heard from coast to coast.

Brown, who quit drawing lines to speak them, creates the dramalogue and portrays the main character and other roles. He heads the cast of a half-dozen NBC players who pose as the people and even pets of a whole village.

Their activities, ranging from church socials and lodge meetings to weddings and baseball games, have become the concern of countless listeners across the country. Brown presents Thompkins Corners as a typical community of the U.S.A. and molds the character of Matt as "a genuine American and ideal citizen."

He is supported by Edwin M. Whitney (Bill Perkins, village cut-up and



Left: Scene in WJZ studio any Monday night, 10:30-11:00. Left to right: Elsie Mae Gordon, Tommy Brown, George Frame Brown, Virginia Farmer, Edwin Whitney and Phoebe Mackay.

Right: Mayor Matt Thompkins and Martha, his wife, otherwise George Frame Brown and Virginia Farmer.



"Prince," the dog), Virginia Farmer (mayor Matt's wife, Martha, and "Grandma" Overbrook), Tommy Brown (Elmer Thompkins' nephew, age 14), Elsie Mae Gordon (Bessie Stevens, village gossip and Sneed Yager, 15, Elmer's pal), Underhill Macy (Tony the Wop and Fred Tibbets, the barber), Phoebe Mackay (Effie Watts, the cockney boarding house keeper).

Brown has built his sketch on the observation that most American communities are cosmopolitan miniatures of the country's big cities. It has therefore, a universal appeal.

Brown and his "Real Folks" did not jump into fame over night. His readjustment after the war was not without struggle.

"After hitting New York on my own, following my return from France, I had to do everything to ward off starvation," Brown recalled, "Any kind of work and welcome. When there wasn't work, I went hungry, I shudder when I see them in the breadlines now. It was only a few years, but — oh well, it's a story common with many.

Through chance I made a Broadway revue as a monologist. I had some success "kidding" radio programs. The revue was broadcast and I learned I had the proper voice. From then on I had all the radio work I could handle."



*George Frame Brown at work on "Real Folks" for next Monday night.*

Brown was born in Seattle, Wash., thirty-five years ago, the son of southern parents. He grew up fly-fishing and hunting in the mountains, was studying architecture when war broke out, studied at Beaux Arts at the close.

"My father lost his business through extending credit as a wholesale grocer. He is fundamentally a Matt Thompkins, the kindest and most honest man I've known. He kept a real store and it failed. I run an imaginary store and it make money. He can't get over that."

The life of Brown typifies the varied background of his fellow actors. Edwin Whitney adventured through the Spanish-American war after college years. He was a farmer, book agent, laundryman, paper-hanger, cowboy and bicycle racer before he toured the Chautauqua circuits with a quartet. He later turned to production and radio where he has had versatile success.

"Real Folks" became an NBC coast-to-coast feature this fall with 154th performance.

# How Ted Husing Caught the Football Plays

**A** MECHANICAL device, through the use of which Ted Husing can determine almost without fail the player or players taking part in every play during a football game, has been perfected by Husing and John E. Norton, master control engineer of the Columbia Broadcasting System, and is now being used by the sports announcer in each of his football broadcasts.

The apparatus is in the form of mechanisms contained in two box-like appliances, with top panels on each keyed to the field order of two football teams. One of the boxes has a series of twenty-two buttons for transmitting signals, the other box has twenty-two corresponding light spaces for receiving the signals. By pressing the proper buttons on the one panel an observer communicates to Husing's receiving panel a detailed enumeration by name and position of the particular players on both contending teams participating in the plays.

The whole apparatus is an answer to a long-felt need for some device whereby Husing could determine at a distance, and particularly in the difficult weather that so often obtains for football contests, the details of the swift moves down the field. On a muddy field, particularly,

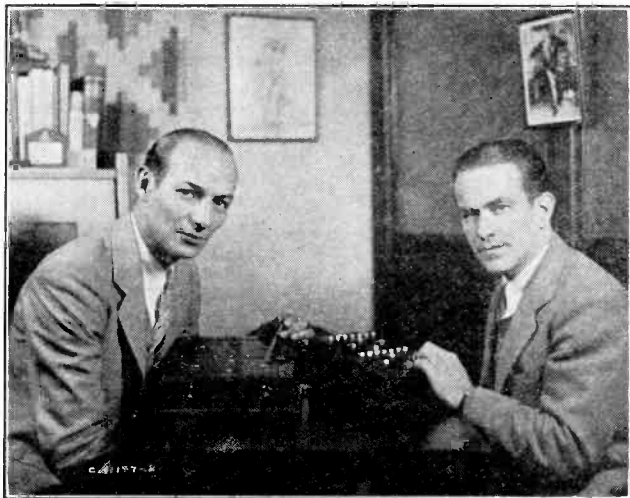
## Interesting Electrical Device Used

it was difficult for Husing to see exactly what intricate plays were being made in swift sequence.

The sending part of the device, with its button for each of the players on the teams, is operated by a well-placed observer whose duty it is to watch through strong field glasses with the one object of determining the participants in the play.

This observer is either within hearing distance of Husing's voice as he talks into his microphone, or else is equipped with earphones connected into the microphone circuit. As he listens to the sports announcer's verbal continuity he is able to supply at once, by illuminating the lights in the proper positions on Husing's receiving panel, the names of the players wanted.

For instance, Husing is observing and reporting the sequence of a certain Harvard play. "Barry Wood received the ball," he might say, "and made a short pass to . . . Schereschewsky." In the almost imperceptible pause the observer would have flashed him the required name on the panel.



*If you've wondered how Ted Husing manages to watch football games and report them so accurately, read the story.*

The receiving panel is, of course, the more interesting of the two. There are twenty-two oblong pieces of translucent glass set into the panel, and arranged in the field order of two football teams. That is, taking one team for example, there are seven pieces arranged on a line to denote the position of left end, left tackle, left guard, center, right guard, right tackle, and right end. On the second line one piece stands alone for quarterback. Behind and to the right and left of this piece are two pieces denoting right halfback and left halfback. And finally, alone in the rear, a piece for the fullback.

Beneath each piece of glass is an electric bulb, carefully screened so that the bulb when lighted shines only through the one piece of glass immediately above it. Thus when the observer operating the sending instrument, wants to report to Husing that the Harvard quarterback, for instance, received the ball from center and passed it to the right halfback who made a run around the opposing team's right end and was tackled by the opposing team's fullback, he transmits to Husing's panel in the proper order and the lights beneath those positions flash in a corresponding sequence.

The glass pieces on the receiving panel have a ground surface. Husing, at the beginning of the game, writes in pencil on each piece the names of the players. As substitutions are made he merely erases the name on the ground glass, and writes in the new names — a quick and easily done job.

The sets are operated by self-contained dry cell batteries, and are equipped with extra bulbs that can be quickly substituted for any lamps that may burn out beneath the names.

"I want a leatherette cover so I can find my RADEX when I want it," writes one good reader. This is only one of the many advantages of keeping your RADEX in one of the beautiful new slip covers.

## Replacing 45's with Pentodes

THE —47 tube may be substituted for —45 power tubes in some few circuits only. Its real ability is shown in circuits especially designed for its use. The pentode may also replace —71 power tubes in battery sets by the use of the new —38. An adapter is available which permits the changes to be made. A twin adapter for use in push-pull combinations is used for both —45s and —38s.

The replacement of —45s by —47s in output stages is not recommended, except in a few cases. The pentode, as explained in the descriptive article about that tube in the October RADEX should be used directly following the detector tube, for it is fed through the output of a single audio-stage working from the plate of the detector. When a receiver has a stage of audio-amplification with a single tube between the detector and push-pull transformer or single output tube, the pentode should not be used. There will be entirely too much input signal voltage, and the results will be poor and frequently dangerous to the output circuit and speaker. Replacements under these conditions are not recommended by manufacturers nor in these columns.

Pentode tubes have their proper place in new circuits. There they operate efficiently and with marked success. But they can seldom be placed in old circuits, for there are very few sets of older make able to feed the output tube (—45) directly from the detector. Not sufficient power can be created in these cases, but the —47 tube is capable of making up the deficiency.

The pentode may be used if the first audio-tube and stage is removed so that the pentode input transformer receives its initial signal voltage directly from the plate of the detector. Otherwise it is a waste of effort and expense to substitute a pentode for other power tubes. Most circuits have been designed for certain power tubes — the output transformers, speaker windings, etc., have all been matched to suit the particular tube characteristics. Any

radical changes may result in serious loss of tone and other desirable qualities.

The Alden Products Company, 715 Center Street, Brockton, Mass., are makers of adapters for —47 and —35 tubes in old sets. They are well-known as the makers of many socket devices, and will advise whether their adapters can be used in your old set, and furnish appropriate instructions.

## Commission Swings Axe

IT begins to look as though a long-suffering public were to have a little relief. This magazine has received hundreds of protests from readers whose radio enjoyment was being ruined due to scores of stations trying to wedge in on a few points of their dials. In the present congested condition of the ether lanes, it is impossible to build a set so selective that there will not be interference, with its consequent squealing and grumbling, at many points on the dial. The Radio Commission has been altogether too lenient in permitting the existence of stations which ought never to have been born and which have not a single reason to continue their unnecessary lives. The radio law specifically states that stations exist solely for "the public interest, convenience or necessity." Measured with this yard-stick, scores of stations would be found to be about half an inch long.

Last month after lengthy hearings during which the merits of the three stations were fully presented and considered, the Commission ordered stations WIBO and WPCC, both of Chicago, off the air in the interest of station WJKS, Gary, Ind. A little later similar proceedings resulted in an order to discontinue stations WNJ, Newark, and WKBO, Jersey City, in favor of WHOM, Jersey City. Now comes the news that four more stations have been convicted of lack of merit in "public interest, convenience and necessity."

WCHI, Chicago, and WJAZ, Chicago, sharing time with WCKY, Covington, Ky., on 1490 kcys. and all having 5000 watts power, are ordered off the air in favor of the last-named Kentucky station. WIBR, Steubenville, Ohio, and

WMBA, Newport, R. I., are eliminated for violating regulations and alleged failure to serve the public interest.

These decisions of the Commission must now run the gauntlet of the Federal courts, but since its legal victories over Dr. John R. Brinkley, the Commission backbone has been considerably stiffened. Congress undoubtedly intended the Commission to have complete powers over the existence of broadcasting stations. True, it would be regrettable if stations were ordered off the air with consequent loss of investment, indiscriminately, but the Commission can set high standards of conduct and then swing the axe unmercifully upon those stations which fail or refuse to live up to the required standard. In this way stations can be eliminated solely because of their own faults and the air will be made safe for the public ear.

## Across the Country with Portable

*(Continued on page 13)*

Just a few might be named: camping in an Ohio farm orchard — the landing of Post and Gatty in New York; among the Indiana sand tunes, along Lake Michigan — a band playing in Poznan, Poland; among the Wyoming Rockies — Amos 'n' Andy, the same as ever; in the downtown district of Los Angeles — a broadcast from New York; among the palms of southern California — a musical program from London; on the rim of the Grand Canyon — music from KFI; back in Pennsylvania — a talk by Lindbergh, from Tokyo.

A summary of observations may be interesting. The best reception was provided by KFI, WLW and WFAA, with good speaker volume up to 300 miles in daytime and 1000 miles at night. KOA and most of the other 50 kw. transmitters were dependable within smaller ranges. Although all kinds of country and different weather conditions were encountered, reception was excellent for the most part with very little static. Nearly all of the principal U.S. stations were tuned in. Clear channels and high power were important factors. More of these will do much to improve further radio reception throughout the country.

# The Newspaper's Side

On behalf of the harassed newspaper editors, G. R. Johnston, Night Editor of the Jackson Citizen Patriot, Jackson, Mich., writes us as follows:

"Will you please print the newspaper side of the question raised by E. O. Cutler, in the October issue, regarding the omission of the names of the sponsors of radio programs?"

"If you could see the thousands of letters and so-called 'news items' which yearly flood newspaper offices with requests and sometimes demands for free publicity, you would not feel so strongly that it is 'small potatoes' for the papers to omit the names of sponsors. If those same sponsors would be fair in their allotment of advertising to the newspapers, there would be a different face on the matter, but most of them feel that they can somehow worm space out of newspapers without a cent of cost, while at the same time their advertising budget provides funds only for radio or magazine advertisements. Newspapers thrive on advertising, just as does the radio and similarly, the magazines. Therefore, when the advertiser takes away the revenue of the paper and awards it to competitors, why should he expect the newspapers to continue to boost his products by giving him free publicity. It's only a measure of self-defense, as evidenced by the flagrant examples I'm enclosing. Please observe the marked opinion of Marlen Pew, who points out that from 15 to 40 per cent more real news can be given readers by cutting out free publicity.

"If the newspapers continued to publish 'news,' so-called, about the radio sponsors and their products, and the sponsors continued to place their paid advertising elsewhere, there would soon be no newspapers to publish their programs in!

"This newspaper realizes the reader-interest in what is going on in the radio world, and uses the Asso-

ciated Press condensed compilation, sent us daily. We do not delete sponsors' names if they are included, but obviously, we do not feel compelled to put them in. So we often get letters from manufacturers asking why we do not mention 'Rosenblatt's Soap Flake Orchestra,' or 'Solly's Mange Cure Trio,' etc."

This magazine, too, receives hundreds of requests for free publicity from sponsors of radio programs and their advertising agents. These necessarily all go into the waste basket. It was not to such that we referred in our article in the October number. We referred to the use of sponsors' names when the programs were definitely known by such names. We believe that a newspaper's first duty is to its readers and not to its advertisers or its prospective advertisers. To make things inconvenient or confusing for its readers merely to avoid mentioning some concern's name without getting paid for it, is, we think, a "small potatoes" type of journalism.

Many listeners like and look for, the "True Story" programs. To designate them by the names of the players means just nothing at all. They might better be carried in the radio column merely as "Dialogue." But we think that real journalism consists in giving readers the information they want regardless of whom it helps or hurts.

## The Filtered Aerial

Although the antenna is one of the most important parts of radio, this is the first improvement we have seen in aerial wires. It is built on the transformer principle of amplifying signals. A straight inner wire is grounded at either or both ends. Around this is an enameled wire, spirally wound, which goes to set or lead-in. The theory is an excellent one.

## Tough on His Game

Golfer (to players ahead): "Pardon me, gentlemen, but would you mind if I played through? I have just heard that my wife has been rushed to the hospital for an operation."—*Safe Worker*.

# The RADEX RADIO CLUB

## Many Topics of Interest

**T**HE RADEX family is undoubtedly the greatest radio club in existence and many readers write us of their keen enjoyment of the monthly meetings of the club conducted by the Editor in each issue of this magazine. It really is a fine thing, when you stop to think of it, that hundreds of us can sit down together as we do and talk over the matters in which we are so greatly interested. Radio is an ever-changing art. Although it seems to have reached high peaks, we will undoubtedly look back in twenty years to the radio of today and smile at its crudeness. Perhaps from the mind of one of our readers may come an idea that will advance the art. That boy over there tinkering with his set may be the Edison of the future. What a wonderful hobby it is.

We open the meeting this month by talking a little shop.

We have received so many letters asking "Will a phone adapter work on my set?" that we give the following explanation: The phone adapter consists of a cord with a connector at one end and a socket-plug at the other. The metal tips of the phone cords are inserted in the connector. The last tube in the set (the power tube) is removed from its socket and the socket-plug is put in its place. The socket-plug has four prongs and therefore can be used only in place of tubes which have four prongs, such as the 245. If there are two 245s in push-pull both tubes are removed from the sockets and the plug or adapter put in either one. This takes the signal off for the phones before it passes through the last or loud-speaker stage, otherwise the volume would be unbearable. The ordinary phone-adaptor cannot be used in screen-grid tube sockets as these tubes have five prongs. If your set uses screen-grid tubes in the last stage, it will be necessary to get an extra adapter with five prongs. This extra adapter is used between the phone-plug and the socket.

Some owners have trouble deciding which tube is the last or power tube. The last stage is the one from which the cords go to the speaker or the opposite end of the set from the antenna. On most sets this is at the right end looking at the set from the back.

### Locals Hog Dials

Daniel C. Looby, 141 West Seymour St., Philadelphia, Pa., certainly has his troubles. "At 1:00 a.m. yesterday," he writes, "WCAU covered from 1120 kcs. to 1300 kcs. on my set. WTEL with only 100 watts, covered twelve channels on their test yesterday morning. WCAU's transmitter is about eight miles away and WTEL's about six. WCAU will soon operate with 50,000 watts and, if I don't do something soon, I guess WCAU will be the only station I'll be able to get." About the only relief we can suggest is a good wave trap. Perhaps some other readers in similar locations can give Mr. Looby the benefit of their experience. He has a Philco eight-tube set with a single wire aerial 100 feet long and a 50-foot lead-in. Cutting down the length of the aerial would help some, but would reduce the strength of all his signals. Mr. Looby also experiences a crackling between 1110 and 1310 kcs. which is undoubtedly caused by some electrical interference near him.

### Too Much Aerial

Max Plung, 1425 Coney Island Ave., Brooklyn, N. Y., submits his experience with aeriels: "I find that the higher the aerial the better. An aerial 150 feet long and about 50 to 100 feet high is just as good and maybe better than a 300-foot aerial lower down. I now have a 120-foot aerial which drops from a 100-foot apartment house to about 35 feet at the lead-in. I find this is the best aerial I have ever used. I also have an aerial copied after the one used by the Naval Station at the Brooklyn Navy Yard. It consists of five separate wires all coming to a point at either end of the aerial. The wires are held apart by passing through holes in two six-foot pieces of wood. I find that this aerial is an ideal one for

reception on the crowded bands but it hasn't as much volume as the other aerial. Here is an odd thing: When I use both aerials at once, the volume is decreased which goes to prove that the more wire one uses, doesn't mean more volume."

### XER Makes a Mess

The new XER at Villa Acuna continues to interest our readers, many of whom are now receiving it regularly. A. H. Abernethy, Daytona Beach, Fla., sends us a letter he has received from the station from which we glean the following: "We were first licensed to operate on 665 kcs. but 735 is a clear channel and we were fortunate enough to obtain that frequency, which is the one we are now operating on definitely. XER is owned and operated by the Villa Acuna Broadcasting Co., Inc., Villa Acuna, Coahuila, Mexico, with studios located at Villa Acuna, Mexico, and in the Roswell Hotel, Del Rio, Texas." Mr. Abernethy adds: "XER is certainly messing up WSB with us. What will happen when WSB gets its fifty kilo-

watts?" XER was licensed to use 100,000 watts but as it seems to be using 75,000 we are changing our data accordingly.

### Those Modest Announcers

"Why don't you use your persuasive powers on announcers to give just the city only between each selection. If the announcer would only just say 'Baltimore' for instance and I am on 1060 I would know I have WBAL and not WTIC. It would advertise the city to mention its name every few minutes instead of every fifteen as now." This cry of distress comes from Harry Gosman, U. S. Naval Home, Philadelphia, Pa. It is one of the mysteries of an otherwise up-to-date business, why men who own broadcasting stations do not take advantage of their opportunities to advertise that station. It would be such a simple matter to say "Oshkosh" or "Kalamazoo" after each selection, but they just won't do it. They assume either that their station is a neighborhood affair or else that their voices are so well known that everybody in the U. S. must know who they are.

# FREE Your Choice of NINE Meters!

To do your radio work properly you need meters. Here is your opportunity to get them at no extra cost. See the list of nine meters below. Heretofore we have offered the choice of any one of these meters free with an 8-weeks subscription for RADIO WORLD, at \$1, the regular price for such subscription. Now we extend this offer. For the first time you are permitted to obtain any one or more or all of these meters free, by sending in \$1 for 8 weeks' subscription, entitling you to one meter; \$2 for 16 weeks, entitling you to two meters; \$3 for 26 weeks, \$6 for 52 weeks, entitling you to six meters. Return coupon with remittance, and check off desired meters in squares opposite.

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- |  |         |
|--|---------|
| <input type="checkbox"/> 0-6 Voltmeter D. C. ....        | No. 326 |
| <input type="checkbox"/> 0-50 Voltmeter D. C. ....       | No. 337 |
| <input type="checkbox"/> 6-Volt Charge Tester D. C. .... | No. 23  |
| <input type="checkbox"/> 0-10 Amperes D. C. ....         | No. 338 |
| <input type="checkbox"/> 0-25 Milliamperes D. C. ....    | No. 325 |
| <input type="checkbox"/> 0-50 Milliamperes D. C. ....    | No. 350 |
| <input type="checkbox"/> 0-100 Milliamperes D. C. ....   | No. 390 |
| <input type="checkbox"/> 0-300 Milliamperes D. C. ....   | No. 399 |
| <input type="checkbox"/> 0-400 Milliamperes D. C. ....   | No. 394 |

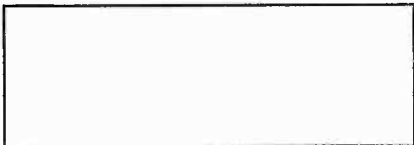
NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

"Here's a suggestion that should be worth a subscription," offers C. H. Waltner, 120 South Monument Ave., Hamilton, Ohio. "By all means devote one page to classified advertising—For Sale, Exchange, Wanted, etc. It would be appreciated by our subscribers and newsstand purchasers. For instance, I have a Norden-Hauck Super DX-5 short wave set, which with three pairs of coils but no tubes, sells today for \$150. My outfit with six tubes and two additional pairs of coils cost \$193.50. I would like to trade the outfit for either a Silver-Marshall all-wave Super or a Scott." So here is the heading for the suggested column. Send in your items. For the suggestion, we are giving Mr. Waltner this free advertisement.

**WANTED, FOR SALE OR EXCHANGE**  
**A Barter column for Our Readers**  
 Rate, 5c per word



**We Forgot the Ghosts**

Several readers call our attention to the fact that we failed to move the "ghost" stations in the Ontario district

when the actual stations were moved. The information regarding the changes in Canada came to us just as the November issue was going to press and we made the last minute corrections but we forgot altogether about the ghosts. They are being moved in this edition.

Oliver Cromwell, 783 Eighth Street, Oakland, Calif., says KOH, Reno, Nevada, state over the air that they have been for more than a year the only station in the Silver State. What has become of KGIX, Las Vegas? Have they left the air?

Robert Thornton, President of the Prairie State DX Club, 1450 West 81st St., Chicago, says their club was so enthused over the list of slogans appearing in RADEX that they decided to cooperate by sending all the members had gathered. This club would like to communicate with other DX clubs.

**That Ollie Ross Ground**

Many inquiries have come in relative to the Ollie Ross ground. This was described in a letter from Mr. Ross published in the Midsummer edition, No. 50. This is the only description we have. A few copies of this issue are still available.

S. H. Parsons, Jr., Box 289, University, Ala., reports that WFDV should be 1370 kcs. instead of 1310. According to our records this station moved from

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Enclosed find \$..... for which send me postpaid my choice of your offers as checked below:

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- Two subscriptions to RADEX with one leatherette cover and Radio Map, both free... 3.50
- One two-year subscription with leatherette cover and Radio map, both free ..... 3.50
- Leatherette Cover ..... .50

Write Name Plainly .....

Street and Number .....

City and State .....



1370 to 1310 during the summer; are we wrong?

### The Half-Moon is Found

The inquiry of Robert E. Moran, Ottawa, Ontario, in the November issue as to the identity of the "Half-Moon Orchestra," is answered by H. B. Huber, 1352 Liberty St., Harrisburg, Pa., as follows: "This is from WCOD, a 100-watt station on top of the Governor Hotel, Harrisburg, Pa. They are on the air from 8:00 a.m. until 11:00 a.m., 3:00 until 6:00 p.m. and 8:00 until 11:30 p.m., EST. During the time they are off the air WKJC, Lancaster, Pa., comes on. The 'Half-Moon Orchestra,' Johnny Derrick, leader, broadcasts every night from 11:00 to 11:30. They put this on from the 'Half-Moon Inn,' a roadhouse located in the Susquehanna valley. This station can certainly put the goods on. They should be heard in the middle of Asia. Try and get them on a Sunday afternoon about 3:00 to 4:00 when they have a United Brethren preacher on with a fifty-kilowatt voice."

Now we have located the 'Half-Moon Orchestra,' perhaps we can find the one that broadcasts from the "Egyptian Ball Room" on about 895 kcs. on October 18th, at 1:00 a.m. It is reported by Jack King, 26 Dunfield Ave., E. Toronto, Ont. One selection was "Now You're In My Arms." Jack wants to exchange hints with other DXers. Just lately he has brought in KECA, CJCA, KTAR and some other good ones.

### Some Answers and Questions

"I believe the station C. C. Norton of San Francisco inquires about is KGPL, the Los Angeles police station on 1712 kcs.," suggests Lester R. Reinmund, 1120 South 76th Ave., West Allis, Wis.

"Last Thursday, October 22nd, between 10:05 and 10:15 p.m., PST, I heard a station on 1030 kcs. which I would like to have someone identify," writes Gordon H. Wightman, 1171 32nd Ave., W., Vancouver, B. C. "The announcer was speaking in some foreign language. Every few minutes a cuckoo horn was blown and the announcer would continue to speak. This happened about five times and then the cuckoo horn was

sounded twice." Mr. Wightman adds in a postscript, "Last night I tuned in nine Japanese, five Australian and one New Zealand stations, as well as KZRM."

Roger F. Vore, Box 87, Merriam, Kansas, has made an indoor aerial with wires like the spokes in a wheel, taking off his lead-in at the hub. He reports that it works better than his outside



The "Crooning Colonels" of the CBS 5:45-6:00, Mondays. Jack Brooks, left, and Don Ross are accompanied by Leon Bloom and his orchestra.

antenna. He would like to hear from someone who has had good success with a short-wave converter.

Sam Kiamie, 2857 Sampson Ave., New York City, is anxious to identify a station he heard broadcasting what sounded like stock market quotations, on Sunday morning, October 11th, at 5:20 a.m. EST, on about 1000 kcs. It sounded like a European station does on a rebroadcast. Can anyone help him?

Another S O S: "On Tuesday morning, November 1st, at 2:40 a.m. EST, I heard a station on 1230 kcs.; the orchestra was playing the Yale College song. Can anyone identify it for me?" D. Wharton, 22 Elmwood Ave., Rye, N. Y.

J. Edw. Diehm, Jr., Pottstown, Pa., would like to hear from owners of Model 27 Zenith as to their pick-up and distance.

# With the MIDNIGHT MARAUDERS

"INCREASE the DX department," is the cry that comes to us from scores of readers. We receive hundreds of letters from DXers every month but it is only from a few that we are able to extract new and interesting ideas. Too many are mere repetitions of what they have done in the way of logging stations. We like to know of our readers' record but we can print but a few each month, not because of lack of space, but because of sameness. Write us about the unusual and different. All over the country DXers are without doubt having thrills and adventures in their midnight wanderings. Tell us about these. They are so much more interesting than mere numbers.

Now the DX Club will please come to order.

## Thinks He Got China

"I am somewhat of a DX fan and last night I received a station that has aroused my curiosity," says Virgil Engleman, 1948 E. Jefferson Ave., Detroit, Mich. It may be the same station that several other readers have been asking about. I got it at about 1:30 this morning (Oct. 30th) and held it until they signed off at about 2:00 a.m., E.S.T. It came in between 705 and 710 keys. A man talked the whole time in some foreign language which I do not think was Spanish. After every few words they rang a bell like he was stressing some point he had brought out. The language sounded kind of guttural and it may have been a Chinese or Japanese station. I never got one of them so I don't know how they sound when they talk. When they finally signed off they played something that sounded like a train leaving and that was all — no call letters or anything. Mr. Engleman post-scripts "I would like to know how much in stamps you have to send in your letter to a foreign station in order for them to acknowledge your reception." Cuba and Mexico and most South American countries are two cents, Canada is three, England is five. In the September RADEX, Richard Douglas, 1125 Krug

## The Great DX Hobby

Park Place, St. Louis, Mo., called attention to the International Reply-coupons which can be bought at any postoffice for nine cents each which are good for one full rate letter to any country in the postal union from any other country in the union. They are valid for six months after purchase.

## The Canadian Amateurs

10-BP, Wingham, Ont., writes us as follows: "We have always been interested in your great little magazine and since you have taken such a big interest in DX work, we are all the more interested. Last winter you had our DX programs for 10-BP listed and in all we received letters from nearly 600 U.S. listeners who received our tests and, in most cases, these letters referred to RADEX. We, here at 10-BP, feel that the success of our tests was due largely to your fine cooperation. 10-BP has been on the air all summer and now that the fall season is here again, we will give you our schedule of the coming winter so that you may include it in your coming issue. 10-BP operates on 1200 keys with a power of 25 watts. Being an amateur broadcast station, it operates without any direct income such as advertising. We are on the air ten hours a week. We will broadcast special DX programs from 1:00 to 2:30 a.m. on the 10th and 25th of December, January and February. These programs will be on 1190 keys which is mostly cleared at this period. We will gladly verify reception providing the writer will name at least two selections heard with the time logged. Another important requirement is a three-cent Canadian stamp or cash as U.S. stamps cannot be used here."

## Yes, WMIL Verifies

"As a member of the staff of WMIL, allow me to say that every single request for verification is answered personally by Mr. Milton Myrawitz, the operator," asserts Karl J. Halpern, 1435 Coney Island Ave., Brooklyn, N. Y. Mr.

Halpern advises us that the World Radio Reception Club of which he is secretary, has arranged for special DX programs from the following stations Saturday morning, December 26th. WDZ, Tuscola, Ill., 1070 keys., 2:00-2:30 a.m., E.S.T.; WAAB, Boston, Mass., 1410 keys., 2:00-3:00 a.m., E.S.T.; WBSO, Needham, Mass., 920 keys., 3:00-4:00 a.m., E.S.T.; WJAY, Cleveland, Ohio, 610 keys., 2:00-3:00 a.m., E.S.T. Mr. Halpern would like to see RADEX devoted entirely to DX matters. Too bad, but there are other members of the family.

#### **Finds an Error**

C. A. Overhiser, Hotel Clarke, Hastings, Nebr., calls our attention to the error in listing KGCX in the Index by Frequencies as Wolf Point, Minn., instead of Montana. He adds: "I have been getting RADEX ever since it first came out, about eight years ago, and this is the first mistake I have ever found in your magazine." We cannot flatter ourselves that this is the first mistake, we have made, but with thousands of kind friends, like Mr. Overhiser, ready and willing to call our attention to discrepancies (which just will creep in now and then) we hope to keep 99.9 per cent perfect. "In the thirty days I have had my new G.E. S-22," goes on Mr. Overhiser, "I have logged 139 new stations on it. I have just started to collect station stamps and would like to hear from other DXers with more experience."

#### **Wants Lima, Peru**

The inquiry of A. F. Buschmann, 1044 Barrett Ave., Louisville, Ky., is being answered by Mr. Dashiell in two articles in this issue. "I am using an R.C.A. 9-tube Superhetrodyne," he writes. "I would like to have the information regarding the change in wiring necessary to install 235's in place of my present 224 tubes. If possible, I would also like information concerning the change from the 245's in push-pull to 247's. My set is a year old," adds Mr. Buschmann, "and I have logged 286 stations, including CKWX, VAS, KFVD, KGCX and KGFK. I wonder if any reader of RADEX, in this vicinity, has ever received Japan, New Zealand, Hawaii or

England. My farthest south is XETF, Veracruz. What is the best time to try for OAX at Lima, Peru?"

#### **N. J. Gets KOH in Dogdays**

"I have been DXing for 22 months," submits Lloyd Rees, Box 64, Ridgewood, N. J., and have a log of 492 stations out of which 260 are verified. My best verification is from KGMB, Honolulu. Another good one is KOH which I heard in August (not a bad catch for the dog-days). They said in their verification that they were really surprised to be heard in New Jersey during the 'off' season of reception. Could you tell me what Mexican or Cuban station is operating on 1125 keys.? Heard it plainly last evening (Oct. 30th). Was almost as loud as XEO and XEW so it must be 5000 watts or thereabouts. No announcements were given in English." The nearest guess we can make is XEH on 1132. Some of these Mexican stations wander considerably off their path.

#### **Who is WRVE?**

W. H. Bradford, P.O. Box 22, Derry, N. H., reports that with his Crosley 5-tube he has logged so far 120 stations, but they include Cuba, Mexico, Canada, and as far away as San Francisco. "Could you give me any information on a call WRVE which I received on about 1500 keys.? The call was repeated about every five minutes, but that is all I heard." Anyone know WRVE? It may have been WRBE which is often reported from the East. This is the fire-boat John Purroy Mitchell, belonging to the City of New York, which has a frequency of 1596 keys.

#### **Special DX on CKOC**

"Station CKOC will broadcast a special DX program on December 12th, beginning at 2:00 a.m., E.S.T., on their new frequency of 630 keys.," advises W. Dyson, 72 Cambridge Ave., Hamilton, Ont. Reports are desired and if you cannot get Canadian postage, send three pennies, or a nickel. Mr. Dyson wants time of reception and other information about African stations on the b.c. band. He proffers the following to other inquirers: "H. W. Hulburt, Montclair, N. J., probably heard KSCJ at Sioux City. For Herbert Childs, I have

a verification from WCHI with the address as 201 N. Wells St., Chicago." Mr. Dyson is awaiting a verification from KOH to complete the full roster of all states and provinces.

#### The Time Signals

"Here is a tip on NAA," contributes Joseph F. Maertz, 3118 W. Scott St., Milwaukee, Wis. "They are on the air every day except Sundays and holidays, at 10:10 a.m., 3:45 p.m., and 10:00 p.m., E.S.T., with weather reports. Time signals at 11:55-12:00 noon and 9:55-10:00 p.m., E.S.T. I have a nice letter from them. One night I picked up XET after NAA signed off. I also picked up a Cuban station (150 watts) on 1070 the morning of October 30th. I am using a 7-tube Grebe t.r.f."

#### CMCY Wants Listeners

"Have your friends listen in any Sunday morning from 1:30 to 3:00 a.m., E.S.T.," writes M. D. Autran, G Street, No. 215, Havana, Cuba, to Rudolph Kure, 301 Warner Street, Cincinnati, Ohio. "Atmospheric conditions are improving, so are my programs. Give comment on the kind of programs, music, etc., broadcast. Have friends send in reports. Kindly note some reports come with U.S. stamps, which are not usable here. Not so U.S. coins which are legal tender the same as Cuban coin." CMCY is going to 100 watts with a frequency of 1345 keys.

#### Low-Powered Best

"To my mind," comments A. S. Burton, Kamloops, B. C., "the best catches are the low-powered distant stations such as WMMN, Fairmont, W. Va., a fifty-watter, which I have heard quite often. One evening I listened to WDAE, Tampa, Fla., on my National 5 Thrill Box, a short-wave set, and in their verification, the station said I heard them on their sixth harmonic. The new XER comes in here with tremendous volume and absolutely ruins reception of Vancouver stations only 250 miles away."

Shelby Harrison, Box 47, Robinson, Ill., who describes himself as "fourteen years old, a DXer and a RADEX fan," has caught 218 stations in about ten months. He considers his best catch

KPCB, Seattle, Wash., with 100 watts power. "They evidently broadcast early Sunday morning because it was 5:00 a.m., C.S.T., when I picked them up," he says. "They came in loud and strong, which seems almost impossible for so low-powered a station."

#### Porto Rico Without Aerial

Arnold Gee, 1918 E. 66th St., Cleveland, Ohio, reports that he purchased his Imperial Radio last April and since that time has logged 192 stations with WKAQ, Porto Rico, as his best catch. This came in without antenna. Now that he has an aerial he brings in CMK, XER and CMC at 7:00 p.m., E.S.T. Arnold would like to hear from some DX fan who can really get France and England in order to learn the best time to tune for them.

"My hobby is DXing," beings H. G. Taverner, 66 Green St., Augusta, Maine, "and I am using a Dayton Short-Wave adapter in conjunction with an Atwater Kent 44. Results: 33 stations in England, Holland, Mexico, Germany, Italy, Denmark, Spain, France, South America, Java, D. W. I., Cuba, Australia, New Zealand, Indo-China, and many plane and police stations and ships at sea. All with loud speaker volume and on voice. Total number of stations received from both sets is 478, which is a lot of dial twisting."

Harry F. Deibert, R.D. 2, Walnutport, Pa., submits a long list of stations he has heard recently with his dry-cell Radiola Super AR-812, second harmonic, 6 tubes. For an antenna he uses a heavy bare copper wire about 75 feet long buried six inches in the ground, in a moist spot in the form of an "L." He reports this antenna has given the best results of the many he has tried.

#### Some Good Reports

John Jancko, 83 Easy Street, Uniontown, Pa., wants to correspond with other DXers particularly those living in the mountains. With his 11-tube Philco he has received 300 stations since June, including such good catches as KOY, KTAR, KGCX, KFBB, CMCY and CMBS.

"I like to DX and have a total of 396 stations," writes Walter Dice, 315 Church St., Bridgeville, Pa. "Have had

several good catches from the Pacific Coast with two stations of only 100 watts. I now have 45 states, Canada, Mexico, Cuba and Porto Rico."

"On my Philco I have had 445 stations with 252 verifications," states Melvin de Jagar, 106 Llewellyn Ave., Hawthorne, N. J. On his short wave set, Melvin has received HSG, HKC, HRB, PCJ, G5SW, GBS, GBW, GFWV, the latter being the *S.S. Majestic* when near the English coast.

#### **Wants DX Programs**

A. W. Snyder, 3216 West 38th Place, Chicago, Ill., suggests that all DX Clubs send in their notices of special DX programs to RADEX for publication. We will be happy to print such information if it reaches us before the tenth of each month, the date our copy goes to the typesetters. Mr. Snyder reports that WIBO and WPCC may go off the air in November, giving way to WJKS, Gary, Ind.

DX Clubs that desire to have special programs by the Canadian amateur broadcasting stations can arrange them through W. T. Cruickshank of 10-BP, Wingham, Ont., owner of that station. This service is proffered to RADEX by Mr. Cruickshank.

#### **Those Expensive Dimes**

With 354 stations in less than a year and 162 verified the last five months, Clayton Huff, 309 North Main St., Martinsville, Ind., is getting ready for the new season. He puts in a good word for WBOQ, WKRC and WIBO who returned his dimes and said they did not issue stamps any longer. But he reports, on the other hand, that KFVS, WSMK, WLAC and WNBO kept his dimes and didn't send stamps.

"I get CMK, Havana, Cuba, every night and XER comes in with great volume," reports Alfred Cachia, 2045 Fifth St., Detroit, Mich. "I have a 7-tube Philco which I bought in 1928. I have logged 210 stations from U.S., Canada, Mexico and Cuba."

"I began to DX with my first copy of RADEX on January 2, 1931," reports Fred Litwitz, Jr., 2137 Lewis St., Chicago, Ill. Now I have 231 stations." Mr. Litwitz sends a fine list of Mexican and

low-powered U.S. stations. He has not yet brought in Cuba but hopes to soon.

Kenneth Peterson, Pontiac, Mich., has a log of 284 stations. He reports CKOC on 1000 keys., but we believe this must be because that station has not yet settled down to its new frequency of 1010.

Chris Tom Banakas, 28 N. Claybrook St., Memphis, Tenn., now reports a total of 483 with 23 Mexican and 24 Cubans, as well as Porto Rico, Costa Rica, Honolulu, Peru, and two each from Alaska and Japan.

WDZ, Tuscola, Ill., is having its next DX program on December 20th, from 1:00 to 2:00 a.m., C.S.T., according to a report from Wm. R. Anderson, 852 Manning Ave., Toronto, Ont. Similar information comes to us from Chas. H. Kramer, 1906 Hanover Ave., Allentown, Pa.

Harold S. Johnston, 577 Logan Ave., Toronto, Ont., sends in a long list of stations he has brought in recently. A number of fifty and hundred-watters are included.

#### **NBA Bobs Up Again**

"At last I'm able to give you the correct information regarding the station NBA," writes Arthur H. Brackbill, RFD 2, Lancaster, Pa.:

"There is such a station. The studios are located in Panama City and the transmitter is located at Darien. The station which is government owned broadcasts daily from 5:00-6:00 a.m. E.S.T. to ships, etc. Several readers said they received no verification which may be on account of the government not allowing it. The station (NBA) operates on 580 keys. This information was given me by the Chief Engineer of WKJC, who worked there while in service for the U.S. army. He also showed me a picture of the transmitter as proof. Here's hoping the information is of value to the readers.

"I've been a DXer since the last week in January and have a log of 330 with 176 verified. Have all but six states. My set is an Atwater Kent 42. Would like to hear from other Atwater Kent 42 owners who have exceptional reception. Best catch is KGFJ."

### Verifies G5SW

"Verification from G5SW came in after five months of waiting," comments Prof. D. Gadoury, Montreal, Que. "On the broadcast band, I now have 337 logged. On Sunday morning, October 4th, between 1:45 and 2:00 a.m. E.S.T., a station on 705 or 706 kcys. was broadcasting music with announcements in English and what was probably Spanish, too. I cannot believe it was XEN as my dials were set for 706 kcys. Regarding this station, Samuel F. Ownes, Glenside, Pa., wrote me: 'You are not the only one who has been hearing this station on 705 kcys. It has been reported from all over the country with no one seeming to know who it is.'"

The latest Cuban and Mexican lists show no station near 705 than XEN on 711.

"KELW and KTM divide time in this manner," says Fred W. Janssen, 106 S. Santa Cruz St., Ventura, Calif. "KELW, Burbank, Calif., 780 kcys, 500 watts; Daily 1:00-6:00 a.m.; 10:00 a.m.-1:00 p.m.; 5:00-9:00 p.m. P.S.T. KTM, Los Angeles, Calif., Daily 6:00-10:00 a.m.; 1:00-5:00 p.m.; 9:00 p.m.-1:00 a.m., P.S.T. KFI, Los Angeles, 640 kcys, 50,000 watts, is on daily from 6:45 a.m. until midnight, P.S.T. KHJ, Los Angeles, 900 kcys., 1000 watts, Daily 7:00 a.m. to 1:00 a.m. P.S.T. Sunday 7:00 a.m. to midnight. KMTR, Los Angeles, 570 kcys. 500 watts, Daily 7:00 a.m. to 3:00 a.m. P.S.T.

### More About Oslo

**I**N the October issue we published a letter from LKO at Oslo, Norway, which stated that "there is not and never was any station in Oslo operating on 608 kcys." This seemed to dispose definitely of the issue, but Karl J. Halpern, Pittsburgh, now sends us the original letter he received from Oslo, dated April 16, 1930, which again throws the status of this station into dispute. Here is the letter:

"Your letter of 28th inst. to hand. We beg to say that it is quite possible that you heard Oslo on March 23rd at about 4:30 p.m. E.S.T. It is,

however, impossible to absolutely verify a "pick-up" of our programs unless we get fuller details as to programs, pauses and time. Our old Oslo transmitter with only 1.2 kw. in the aerial was actually heard by a score of listeners in the state of Illinois. Our present Oslo station is at present the most powerful transmitter in Europe with 75 kw. in the aerial. The wave is 493.4 m., 608 kcys.

"Thanking you for your kind report,

"Sincerely yours,

"Kringkastingselskapet a/s."

The debate regarding the Oslo station, Norway, still continues. Noel B. Eaton, Ballemena, Oakville, Ontario, writes: "I lived in England for nearly five years and I can distinctly remember hearing Oslo on the regular broadcast band near the top. Mr. Eaton sends us a copy of "World-Radio Station Identification Panels" which would be a most useful publication for our European DXers to have. "World-Radio" is published by the British Broadcasting Corporation of which the publishers say: "To the listener to distant stations it offers an unparalleled service in the provision of programmes, in the publication of an authoritative table of wave-lengths, and in the facilities it offers to its readers for the identification of unknown foreign stations, enquiries concerning which are answered either by post or free of charge in the columns of the paper. It is indispensable to anyone who is interested in foreign stations. World-Radio is published every Friday, price 2d." The "Station Identification Panels" are evidently published monthly, the price being one shilling. The information in this book concerning Oslo is typical. It gives the frequency and wave-length, the power, the distance from London, the opening call, the interval signal, the opening and closing signal, the time signal, the sex of the announcer, the closing words and the relay stations. The address of the British Broadcasting Corporation is Savoy Hill, London, W.C. 2.

## The Airport Stations

The following lists of airport stations is furnished by Karl Halpern, Pittsburgh, Pennsylvania.

### Transcontinental Air Transport and Western Air Express:

WAEF	Newark, N. J.
WAED	Harrisburg, Pa.
WAEB	Columbus, Ohio
KGTR	St. Louis, Mo.
KWS	Amarillo, Texas
KGPL	Kingman, Ariz.
KSI	Los Angeles, Calif.
WAEE	Camden, N. J.
WAEC	Pittsburgh, Pa.
WAEA	Indianapolis, Ind.
KSY	Tulsa, Okla.
KSX	Albuquerque, N. M.
KGTJ	Las Vegas, Nev.
KGTD	Wichita, Kans.
KST	Kansas City, Mo.

The above, Mr. Halpern says, may be heard only at night on 387 meters.

### Southern Air Transport:

WQDP	Atlanta, Ga.
WSDB	Jackson, Miss.
KGUF	Dallas, Texas
KGUL	Abilene, Texas
WSDE	Tuscaloosa, Ala.
KGUK	Shreveport, La.
KGUC	Ft. Worth, Texas
KGUG	Big Spring, Texas
KGUA	El Paso, Texas

The above may be heard only at night on 344 meters.

### Boeing Air Transport System:

WQDU	Aurora, Ill.
KQM	Des Moines, Iowa
KRF	Lincoln, Neb.
KQE	Cheyenne, Wyo.
KQD	Salt Lake City, Utah
KJE	Reno, Nev.
KRA	Boise, Idaho
KQQ	Iowa City, Iowa
KMP	Omaha, Neb.
KMR	North Platte, Neb.
KQC	Rock Spring, Wyo.
KKO	Elko, Nev.
KFO	Oakland, Calif.
KDD	Pasco, Wash.

The above may be heard only at night on 376 meters.

## Dials and Difficulties

(Continued from page 8)

your set is not designed for the —47 tube, and therefore you cannot receive its greatest benefits. The change is not suggested in the Radiola 17 receiver.

### Oscillating Receiver

*My model C Fada set persists in breaking into oscillation for a while soon after turning it on. Is the set out of balance and*

*how can I fix it? Can you send me a wiring diagram?*

There are many, many causes of regenerative howls and oscillation. This book could not hold all the reasons to be advanced. Incorrect plate voltage on a tube is an outstanding cause, while lack of proper neutralization can make violent noises. The latter can be corrected by adjusting the balancing and trimming devices or midget condensers attached to the large variable condensers. An open screen-grid by-pass condenser causes oscillation; poor contacts of shields with the chassis as well as other mechanical connections; open grid circuits in some of the tubes; ungrounded metallic covers of audio-transformers; broken wires in the secondaries of radio-frequency coils or in audio transformers and output push-pull transformers; too high voltage on the screen-grid, etc., are sources of excessive regeneration noises in a receiver.

Write to the F. A. D. Andrea Company, Inc., Long Island City, L. I., N. Y., for a copy of the circuit diagram.

### Using the Pentode

*I wish to use the new —47 pentode tube in my Brandes B-15 receiver in place of the two —45s in push-pull. Do I have to make many changes in wiring?*

It is not practicable to use the —47s in place of the —45s in your Brandes receiver. This is due to the fact that your last stage in which the —45s are used is previously fed by a step-up stage with one —27 audio amplifier which would have to be eliminated if the —47s would be used. Therefore, no gain is to be had and the change, besides being complicated, is not quite worthwhile.

### Varibale-Mu and Pentode Tubes

*How can I change my General Electric model H-31 receiver over to the new —35s and —47s in place of the tubes now in use?*

It is not practicable to replace the —24 from the standpoint of efficiency. The change can be made readily by use of an adapter outfit with a new volume control, for your set is constructed so that the alteration can be made. However, the slight gain in selectivity is hardly worth the trouble and expense.

The change to pentodes in place of the two —45s used in push-pull will be simple provided the special adapter is used. But in both cases the change to tubes that tend to upset the balance of a circuit designed for something else is not sanctioned by all concerned. The wiring of the circuit permits this change, and that is more than can be said of most other sets.

#### DX Headphones on Philco

*I have a Philco model 70 superheterodyne and have tried to attach a pair of headphones with a switch cutting out the loud speaker, but the results are poor. How shall I improve on my scheme shown in the diagram?*

You have not gone at the attachment in the right way, and cut into the wrong wires. Start over again. Remove the speaker unit from the cabinet by disconnecting the cable plug. There are three wires — black and white, green, and yellow. Also, connecting the transformer and voice coil on the cone — parts of the fixed unit — are two short wires, one light brown and one yellow. The switch to cut out the speaker must be inserted in either of these two wires, simply by cutting the wire and fastening the two ends to a small switch.

Cut into the insulation of the black and white wire and the green wire of the cable to the plug and attach two leads to each of these two wires. Disregard the yellow wire. Run the two new leads to a single phone jack. The headphones are then plugged into the jack and the switch opened to cut off the speaker as desired.

#### Automatic Volume Control

*My dealer advises against volume control saying that while it has advantages, it has greater disadvantages. He states that when volume is set fairly loud, reception from "mushy" stations would be vastly more disagreeable than fading. I have never tried volume control. What is the truth of its advantages?*

We assume that your refer to automatic volume control. It has great advantages, and, as your dealer states, certain disadvantages. Much of this is a matter of opinion held by individuals.

However, we claim that automatic volume control is one of the great improvements in radio design, and its advantages far outweigh any noticeable inconveniences. The automatic control sets the average volume of the incoming signals to a pleasing intensity; it cannot become too loud, and when weakened more current flows keeping the strength up to the normal volume. Mushy stations — that interfere and heterodyne — will be with you. Why tune in on them; no one cares to listen to interferences. And stations that are clear will come in smoothly and steadily, never changing to too high nor too low. Another advantage is that when tuning for stations the set cannot boom forth loudly when the peak of some station is passed over by the dial. But weak stations are intensified, and we have an increase in noise level and interferences which are undesirable.

### For Christmas

It's going to be a problem to find gifts this year that will be both useful and inexpensive. Why not make it a RADEX Christmas?

For \$3.50

Two years' subscription to RADEX with a leatherette cover.

For \$1.75

One year's subscription and the radio map.

For \$1.50

The Headphone Adapters or The Filtered Aerial.

For \$1.00

Next five issues of RADEX or the Book on Radio Theory and Practice.

For 50 Cents

The beautiful leatherette cover.



# The Chain Programs

CHANGING the form of our weekly programs gave us at least the knowledge that to many thousands of people, this is one of the most important features of our magazine. While we received, perhaps, as many favorable comments on the new plan as we did objections, yet we can readily see that a great many of our readers must have the stations if they are to get the greatest good from the programs. This is particularly true of those living in districts where they cannot readily tune in some nearby powerful station of each chain. Their position is summarized by C. K. Charles, Clearwater, Fla., who says: "Our troubles in following the chain programs are that there are so many that are carried only by groups of station in the various networks. For instance, we have found our local NBC station, WFLA-WSUN, running a program not an NBC main feature, while at the same time WSMB, New Orleans, WOAI, San Antonio, and WENR-WLS, Chicago, would be running entirely different programs, though all are listed as NBC programs. The same occurs on the Columbia stations."

A happy compromise is suggested by Dr. F. S. Taylor, Hastings, Neb., who asks: "Would it not be possible to list one powerful station in each zone, carrying the program?" We are acting on this suggestion but going a step farther. We are giving at least one station in each state, otherwise eliminating the small stations of from 100 to 500 watts. This cuts the list of stations in half and enables us to give twice as many programs as we could do otherwise. At the same time we are keeping the parallel column idea which many liked so well.

If each reader will mark in the blanks at the top of each chain, his dial numbers for those stations upon which he relies

for each of the networks, he will find that, nine times out of ten, one of these stations will have the feature he wants and save him the trouble of searching through the list of stations. We give on this page an illustration showing these dial numbers thus entered for a Philco set.

So many of our readers have said that it would add so greatly to their convenience if the calls could be arranged in alphabetical order, that we are trying once more to meet their desires. This is a most arduous task, but we want to do everything in our power to make RADEX of the greatest possible convenience to our readers.

## The Mexican List

*The Newark News* publishes a list of the Mexican stations, supposed to be as of October 7th, which was furnished to them by the Mexican Consul at New York. This list appears to us to be a very old one. Readers who have checked this list against the November RADEX are calling our attention to many supposed errors. The list as published by the *Newark News* is almost exactly the same list published in RADEX in March, 1931, since which time we have received three new lists from the Mexican Government. For instance, the RADEX list of March, 1931, showed thirteen Mexican stations on 1000 keys. Official changes removed twelve of these and for five issues we have shown but one Mexican station on 1000. *The Newark News* list again shows thirteen stations on 1000. It hardly seems probable that the Mexican authorities have again bunched thirteen stations on a single frequency. Until we receive more authentic information, therefore, we continue to show the Mexican stations in accordance with the last official list received from that Government.

**WHAT'S ON THE AIR TONIGHT?**

COLUMBIA <sup>860</sup> WABC NATIONAL Red <sup>680</sup> WEAF NATIONAL Blue <sup>760</sup> WJZ

For quick reference, fill in below the dial numbers at which you best hear the three chains. You can then turn quickly to one that has the feature you want.

DIAL <b>139 132 77 124</b>	DIAL <b>107 92 79 82</b>	DIAL <b>145 98 75 70</b>
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Time is given by Eastern Standard; for Central, subtract one hour; for Mountain, subtract two hours; and for Pacific, subtract three hours.

DAILYDAILYDAILY

# KEY TO CHAIN STATIONS

CFCF 1030 N	KPO 680 N	WCCO 810 C	WHK 1390 C	WNAX 570 C
CFRB 690 C	KPRC 920 N	WCFL 970 N	WHO 1000 N	WNOX 560 C
CKAC 730 C	KRLD 1040 C	WCKY 1490 N	WHP 1430 C	WOAI 1190 N
CKGW 840 N	KSCJ 1330 C	WCSH 940 N	WIBA 1280 N	WOC 1000 N
KDKA 980 N	KSD 550 N	WDAE 1220 C	WIBO 560 N	WOKO 1430 C
KDYL 1290 C	KSL 1130 N	WDAF 610 N	WIBW 580 C	WORC 1200 C
KECA 1430 N	KSTP 1460 N	WDAY 940 N	WIOD 1300 N	WOW 590 N
KEX 1180 N	KTAR 620 N	WDBJ 930 C	WIP 610 C	WOWO 1160 C
KFAB 770 N	KTHS 1040 N	WDBO 1120 C	WIS 1010 N	WPG 1100 C
KFH 1300 C	KTRH 1120 C	WDOD 1280 C	WISN 1120 C	WPTF 680 N
KFI 640 N	KTSA 1290 C	WDRC 1330 C	WJAR 890 N	WQAM 560 C
KFJF 1480 C	KVI 760 C	WDSU 1250 C	WJAS 1290 C	WRC 950 N
KFKX 1020 N	KVOO 1140 N	WEAF 660 N	WJAX 900 N	WREC 600 C
KFPY 1340 C	KVOR 1270 C	WEAN 780 C	WJDX 1270 N	WREN 1220 N
KFRC 610 C	KWK 1350 N	WEBC 1290 N	WJJD 1130 C	WRR 1280 C
KFSD 600 N	KYW 1020 N	WEEI 590 N	WJR 750 N	WRVA 1110 N
KFYR 550 N	WAAB 1410 C	WENR 870 N	WJZ 760 N	WSAI 1330 N
KG 1470 N	WABC 860 C	WFAA 800 N	WKBH 1380 C	WSB 740 N
KGB 1330 C	WACO 1240 C	WFAN 610 C	WKBN 570 C	WSM 650 N
KGO 790 N	WADC 1320 C	WFBL 1360 C	WKBW 1480 C	WSMB 1320 N
KGW 620 N	WAIU 640 C	WFBM 1230 C	WKRC 550 C	WSPD 1340 C
KHJ 900 C	WAPI 1140 N	WFBR 1270 N	WKY 900 N	WSUN 620 N
KHQ 590 N	WBAL 760 N	WFI 560 N	WLAC 1470 C	WTAG 580 N
KJR 970 N	WBAP 800 N	WFIW 940 C	WLAP 1010 C	WTAM 1070 N
KLRA 1390 C	WBBM 770 C	WFLA 620 N	WLBW 1260 C	WTAQ 1330 C
KLZ 560 C	WBCM 1410 C	WGAR 1450 N	WLBZ 620 C	WTAR 780 C
KMBC 950 C	WBEN 900 N	WGL 1370 C	WLIT 560 N	WTIC 660 N
KMOX 1090 C	WBRC 930 C	WGN 720 C	WLS 870 N	WTMJ 620 N
KOA 830 N	WBT 1080 C	WGR 550 C	WLW 700 N	WTOC 1260 C
KOH 1380 C	WBZ-A 990 N	WGST 890 C	WMAL 630 C	WWJ 920 N
KOIL 1260 C	WCAE 1220 N	WGY 790 N	WMAQ 670 N	WWNC 570 N
KOIN 940 C	WCAH 1430 C	WHAM 1150 N	WMC 780 N	WWVA 1160 C
KOL 1270 C	WCAO 600 C	WHAS 820 N	WMT 600 C	WXYZ 1240 C
KOMO 920 N	WCAU 1170 C	WHEC 1430 C	WNAC 1230 C	

# WHAT'S ON THE AIR TONIGHT?

COLUMBIA.....WABC      NATIONAL, Red.....WEAF      NATIONAL, Blue.....WJZ

For quick reference, fill in below the dial numbers at which you best hear the three chains.  
You can then turn quickly to one that has the feature you want.

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Time is given by Eastern Standard; for Central, subtract one hour; for Mountain, subtract two hours; and for Pacific, subtract three hours.

## Columbia.....WABC DAILY (Except Sunday)

**12:30-1:00 Columbia Revue**  
(Except Saturday)  
CFRB KFJ KFJF KFPY  
KFRK KGB KHJ KMOX  
KOH KSCJ KVI KVOR  
WABC WDSU WFBL WJAS  
WMAL WNAC WPG WQAM  
WTAQ

**2:30-3:00 American School of Air**  
(Except Saturday)  
KDYL KFH KFJF KFPY  
KFRK KGB KHJ KLZ  
KMOX KOH KSCJ KVI  
KVOR WABC WBT WCAU  
WCCO WDSU WFBL WHK  
WIBW WJAS WMAL WNAC  
WPG WQAM WTAQ WTOC

**7:00-7:15 Myrt and Marge**  
(Except Saturday)  
KMOX WABC WADC WCAU  
WJAS WKRC WMAL WNAC  
WVVA

**7:15-7:30 Cremo — Bing Crosby**  
WABC WADC WBT WCAU  
WHK WJAS WKRC WMAL  
WNAC WQAM WTAR WTOC

**7:30-7:45 Baker, Boswell Sisters**  
(Except Tues., Thurs. Sat.)  
KFH KMBC KMOX KOIL  
WADC WCCO WFBL WHK  
WJAS WKRC WNAC WVVA

**7:45-8:00 Camel — Morton Downey**  
KFH KFJF KLRA KMBC  
KMOX KOIL KRLL KSCJ  
WABC WACO WADC WBRC  
WBT WCAU WCCO WDSU  
WFBM WHK WIBW WJAS  
WKRC WLAC WMAL WNAC  
WNAX WQAM WTAR WTOC  
WVVA

**8:00-8:15 Columbians, Freddie Rich**  
(Except Tues., Thurs., Sat.)  
KFH KFJF KMBC KMOX  
KOIL KRLL KSCJ WABC  
WACO WADC WBRC WBT  
WCAU WCCO WDSU WFBL  
WHK WIBW WJAS WKRC  
WLAC WNAC WNAX WPG  
WTAR

**8:00-8:15 The Mills Brothers**  
(Except Mon., Wed. Fri.)  
KFH KFJF KMOX KOIL  
KRLL KSCJ KTSA WABC  
WACO WADC WBRC WBT  
WCAU WCCO WDSU WFBL  
WFBM WHK WIBW WJAS  
WKRC WLAC WMAL WNAC  
WNAX WPG WQAM WTAR  
WTOC

**8:15-8:30 Singing Sam, Barbasol**  
(Except Tues., Thurs., Sat.)  
KMBC KMOX KOIL WABC  
WADC WCAU WCCO WFBL  
WFBM WGN WHK WJAS  
WKBW WKRC WMAL WNA

## National, Red.....WEAF DAILY (Except Sunday)

**8:00-8:15 Gene and Glenn—Quaker**  
WBEN WCAE WCSH WEOF  
WEEI WFI WGY WRC  
WTAM

**8:15-8:30 Morning Devotions**  
KFYR WBEN WCAE WCKY  
WCSH WEOF WFI WFLA  
WGY WHAS WIBA WIOD  
WJAX WJDX WOW WPTF  
WRC WRVA WSW WWJ

**8:30-9:00 Cheerio**  
CKGW KFYR KPRC KSTP  
WAPI WBEN WCAE WCKY  
WCSH WDAF WDAY WEOF  
WEEI WFI WFLA WGY  
WHAS WIOD WJAX WJDX  
WMAQ WOAI WOW WRC  
WRVA WSB WSM WSMB  
WSUN WTAM WWJ

**3:00-4:00 Woman's Radio Review**  
(Except Saturday)  
KSD KYW WBEN WCAE  
WCSH WDAF WEOF WFI  
WGY WOC WOW WRC  
WSAI WTAM WWJ  
**4:30-5:00 Phil Spitalny, Tea**

**Dansante**  
KSD WBEN WCAE WEOF  
WGY WOC WTAM WWJ  
**6:00-6:30 Waldorf—Astoria Orch.**  
CKGW KGO KSD KSL  
WAPI WCAE WEOF WFI  
WHAS WIOD WIS WJDX  
WKY WRC WSM

**6:45-7:00 Swift — Stebbins Boys**  
(Except Saturday)  
KSD WBEN WCAE WCSH  
WEOF WFI WGY WRC  
WSAI WTAM WWJ

**7:30-7:45 Prince Albert — Alice Joy**  
KSTP WBEN WCSH WDAF  
WDAY WEOF WBCB WFLA  
WGY WIBA WIOD WIS  
WJAX WLIT WRC WRVA  
WSAI WTAM WTMJ WWJ  
WVNC

**7:45-8:00 The Goldbergs**  
WBEN WCAE WEOF WENR  
WGY WSAI WTAM WWJ  
**10:00-11:00 Lucky Strike Dance**

**Hour**  
(Except Mon. Wed., Fri.)  
KFI KGO KGW KHQ  
KOA KOMO KPRC KSD  
KSL KSTP KTAR WAPI  
WBEN WCAE WCSH WDAY  
WEOF WBCB WENR WFAA  
WFI WFLA WGY WIBA  
WIOD WJAX WJDX WKY  
WMC WOAI WOC WRC

**11:15-11:30 Prince Albert—Alice Joy**  
KPRC KSD KTBS WAPI  
WBPAP WHAS WJDX WKY  
WMC WOAI WOC WOW  
WSB WSM WSMB  
WRVA WSAI WSB WSM  
WSMB WTAM WTMJ WWJ

## National, Blue.....WJZ DAILY (Except Sunday)

**12:30-1:00 National Farm and Home**  
KDKA KFAB KOA KPRC  
KTHS KVOO KWK KYW  
WAPI WBZA WDAF WFLA  
WGAR WHAM WHAS WIBA  
WIOD WJAX WJDX WJR  
WJZ WLW WMC WOC  
WOW WPTF WRC WREN  
WSB WSM WSMB

**3:30-3:45 The Three Doctors**  
(Except Friday and Saturday)  
CKGW KFAB KSTP WAPI  
WDAY WFLA WHAS WJR  
WJZ WKY WLW WMC  
WREN WSM

**3:45-4:00 Chicago Serenade**  
(Except Friday and Saturday)  
CKGW KOA KSTP WFLA  
WGAR WHAM WHAS WJDX  
WJR WJZ WKY WMC  
WREN WSM

**5:45-6:00 Little Orphan Annie**  
WFLA WGAR WHAM WIOD  
WJAX WJZ WLW WPTF  
WRVA

**6:00-6:15 Raising Junior**  
(Except Wednesday)  
KWK KYW WGAR WHAM  
WIBA WJZ

**6:45-7:00 Literary Digest, Lowell Thomas**  
KDKA WBZA WHAM WJZ  
WLW

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

**7:15-7:30 Tasteyeast Jesters**  
(Except Tues., Wed., Fri.)  
KDKA WBZA WCKY WFLA  
WGAR WHAM WIOD WJAX  
WJZ WPTF WREN WRVA

**7:30-7:45 Phil Cook, Quaker Man**  
(Except Saturday)  
KDKA WBZA WENR WGAR  
WHAM WJZ WREN  
**8:45-9:00 Sisters of the Skillet**

(Except Mon., Wed., Sat.)  
KDKA KFAB KPRC KSTP  
KVOO KWK WBAP WBZA  
WDAY WBCB WHAM WIBA  
WJZ WKY WLS WOAI  
WREN WTAR

**10:30-10:45 Clara, Lu and Em**  
(Except Monday)  
KDKA KWK WBZA WGAR  
WHAM WJR WJZ WMAQ  
WREN

**11:00-11:15 Amos 'n' Andy**  
KFAB KOA KGW KHQ  
KOA KOMO KSL KSTP  
KTHS KWK WBAP WDAF  
WBCB WENR WHAS WIBA  
WJDX WKY WMAQ WMC

**Columbia ----- WABC**

8:30-8:45 Kate Smith — La Palina  
(Except Tuesdays and Fridays)  
KMBC KMOX KOIL WABC  
WADC WCAU WCCO WFBM  
WGN WHK WJAS WKRC  
WMAL WOWO

10:45-11:00 Myrt and Marge  
(Except Saturday)  
KDYL KFPY KFRC KHJ  
KLZ KMBC KOIN WBBM  
WCCO

11:00-11:15 Cremo — Bing Crosby  
KDYL KFPY KLZ KOH  
KOIN K TSA WGN WOWO  
WTAQ

11:15-11:30 Jack Miller songs  
(Except Mon., Wed., Fri.)  
KFJF WABC WBT WCAU  
WDSU WNAC WPG WQAM  
WTOC

11:15-11:30 Street Singer  
(Except Tues., Thurs., Sat.)  
WABC WBT WCAU WDSU  
WNAC WPG WQAM WTOC  
11:30-11:45 Camel — Morton

**Downey**

KDYL KFPY KLZ KOH  
KOIN K TSA WGN WOWO

11:45-12:00 Ann Leaf at Organ  
(Except Mondays and Thursdays)  
KDYL KFH KFJF KFPY  
KFRC KLZ KOH KVOR  
WABC WBT WCAU WDSU  
WFBL WKBW WMAL WNAC  
WQAM WTOC

**SUNDAY**

12:00-12:30 Voice of St. Louis  
CFRB KDYL KFJF KFPY  
KLZ KSCJ KVI KVOR  
WABC WBBM WBT WCCO  
WDSU WFBL WIBW WJAS  
WMAL WPG WQAM WTAQ  
12:30-12:45 International Broadcast  
CFRB KDYL KFJF KFPY  
KLZ KOH KSCJ KVI  
WABC WBT WCAU WDSU  
WFBL WHK WIBW WJAS  
WMAL WPG WQAM WTAQ  
WTOC

12:45-1:00 Cafe Budapesth  
CFRB KDYL KFJF KFPY  
KLZ KOH KSCJ KVI  
KVOR WABC WBT WCAU  
WCCO WDSU WFBL WIBW  
WJAS WMAL WQAM WTAQ  
WTOC

1:00-1:45 Cathedral Hour  
CFRB KDYL KFJF KLZ  
KMOX KOH KSCJ KVI  
WABC WFBL WIBW WJAS  
WMAL WTAQ

2:00-2:30 Sons of Eli Spirituals  
KMBC KMOX KOIL KRLD  
WABC WADC WBBM WBRB  
WBT WCAU WCCO WDSU  
WFBL WHK WJAS WKRC  
WLAC WMAL WNAC WOWO  
2:30-3:00 Columbia Church of the

**Air**

CFRB KDYL KFH KFJF  
KFPY KFRC KGB KLZ  
KOH KOL KSCJ KVOR  
WABC WBT WCCO WDSU  
WFBL WFBM WIBW WJAS  
WKBW WMAL WPG WQAM  
WTAQ

3:00-4:30 N.Y. Philharmonic Orch.  
CFRB KDYL KFH KFJF  
KFPY KFRC KGB KHJ  
KLZ KMOX KOH KSCJ  
KVI KVOR WABC WBT

**National, Red ----- WEAF**

11:45-12:00 Cab Calloway's Orch.  
(Except Tues., Wed., Sat.)  
KSD WEAF WGY WOW  
WWJ

**SUNDAY**

1:00-1:30 Isa Kremer with Orch.  
CFCF CKGW KGO KGW  
KOA KOMO KPRC KSL  
KSTP WAPI WBEN WCAE  
WDAF WDAY WEAF WEBC  
WENR WFAA WFI WFLA  
WHAS WIOD WJDX WRC  
WSM WSMB WTAM WWJ

1:30-1:45 Carveth Wells, Talk  
KSD WBEN WCAE WDAF  
WEAF WFI WGY WMAQ  
WOC WTAM WWJ

1:45-2:15 Old Company's Program  
CFCF CKGW WBEN WCSH  
WEAF WFI WGY WRC

1:45-2:15 Pop Concert  
KGO KGW KOA KOMO  
KPRC KSD KSTP KVOO  
WAPI WBAE WDAF WDAY  
WHAS WHA WKY WOW  
WSM WSMB WTAM WTMJ  
WWJ

2:15-2:30 Bright Spot — Pettis Orch.  
CFCF CKGW KGW KHQ  
KOA KPO KSD KSL  
KSTP KTAR KVOO KYW  
WAPI WBEN WCAE WCSH  
WDAF WDAY WEAF WEBC  
WFAA WFLA WGY WHAS  
WIOD WJAX WJDX WKY  
WLIT WMC WOAI WOC  
WOW WPTF WRC WRVA  
WSAI WSB WSM WSMB  
WTAM WTMJ WWJ

2:30-3:00 Moonshine and Honey-  
suckle

KSD WCAE WCSH WDAF  
WEAF WGY WLIT WMAQ  
WOW WRC WTAM WWJ

3:00-3:30 Wayne King's Orch.  
KSD KYW WBEN WCAE  
WCSH WDAF WEAF WGY  
WLIT WOC WOW WRC  
WSAI WTAM WWJ

3:30-4:00 Dr. S. Parkes Cadman  
KGO KGW KHQ KOA  
KOMO KPRC KSD KSL  
KSTP KVOO KYW WBEN  
WCAE WCSH WDAF WDAY  
WEAF WEBC WFAA WFLA  
WGY WHAS WIOD WIS  
WJAX WJDX WKY WMC  
WOAI WOW WPTF WRC  
WRVA WSAI WSB WSM  
WSMB WTAM WWJ WWNC

4:00-4:30 Florsheim Frolic  
KGO KGW KHQ KOA  
KOMO KPRC KTAR KTHS  
KVOO WAPI WBAE WBEN  
WCAE WCSH WDAF WDAY  
WEAF WFLA WGY WEAS  
WIBA WIOD WIS WJAX  
WJDX WKY WMC WOAI  
WOC WOW WPTF WRC  
WRVA WSAI WSB WSM  
WSMB WTAM WWJ WWNC

4:30-5:00 Wonder Program  
WBEN WCAE WCSH WDAF  
WEAF WENR WGY WOC  
WOW WRC WSAI WTAM  
WWJ

5:00-5:30 Artists' Service Program  
WHEN WCAE WCSH WDAF  
WEAF WGY WOC WOW  
WRC WSAI WTAM WWJ

5:30-6:30 General Electric Program  
KOA KPRC KSD KSTP

**National, Blue ----- WJZ**

WOAI WREN WSB WSM  
WSMB WTMJ  
11:15-11:30 Literary Digest, Lowell  
Thomas

KFAB KWK WDAY WEBC  
WENR WREN  
11:30-11:45 Russ Columbo, Songs  
KFAB KFYR WGAR WJR  
WJZ WKY WRC WREN  
WSB

11:45-12:00 Lew White, \*Orn  
(Except Tuesday and Friday)  
KFAB KFYR WENR WJZ  
WRC WREN WSB  
12:00-12:15 Mildred Bailey and  
Jesters

(Except Tuesday and Friday)  
KDKA KFAB WBAE WENR  
WGAR WJR WJZ WREN  
12:15-1:00 Larry Funk and Orch.  
WENR WGAR WJR WJZ

**SUNDAY**

11:30-12:15 Morning Musicales  
KDKA KEX KFAB KGA  
KJR KOA KPO KPRC  
KVOO KWK WAPI WDAY  
WFLA WHAS WJZ WKY  
WLW WMC WPTF WREN  
WSM WTMJ

12:15-12:30 American Council Int.  
KFAB KGO KOA WDAY  
WHAM WHAS WJZ WMAQ  
1:15-2:15 Walter Damrosch Hour  
KDKA KFAB KFYR KGO  
KGW KOA KOMO KPRC  
KVOO KWK WAPI WBZA  
WFLA WGAR WHAM WIOD  
WIS WJAX WJDX WJZ  
WKY WMC WOAI WPTF  
WREN WRVA WSB WSMB  
WWNC

2:30-3:00 Yeast Foamers  
KDKA KFAB KGW KHQ  
KOA KPO KPRC KSL  
KSTP KTAR KTHS KVOO  
KWK KYW WAPI WBZA  
WEBC WFAA WFLA WGAR  
WHAM WHAS WIOD WJAX  
WJDX WJR WJZ WKY  
WLW WMC WOAI WPTF  
WREN WRVA WSB WSM  
WSMB WTMJ

3:00-3:30 National Youth Conf.  
KDKA KFAB KFYR KGO  
KGW KHQ KOA KOMO  
KPRC KTAR KVOO KWK  
WAPI WBZA WFLA WHAM  
WIBA WIOD WIS WJAX  
WJDX WJZ WKY WMAQ  
WMC WOAI WPTF WREN  
WRVA WSB WSMB WWNC

4:00-4:30 Melodies de France  
CFCF CKGW KDKA KFAB  
KWK KYW WBZA WJZ  
WLW WREN

4:30-5:00 The Musical Showmen  
CKGW KDKA KFAB KWK  
KYG WHAM WJZ

5:00-5:30 National Sespers  
KDKA KFAB KFI KFYR  
KGO KGW KHQ KOMO  
KPRC KSL KSTP KTHS  
KVOO KWK WDAY WEBC  
WFAA WFLA WIBA WIOD  
WIS WJDX WJZ WKY  
WMAQ WOAI WPTF WREN  
WRVA WSB WSM WSMB  
WWNC

5:30-6:00 Simoniz Guardsmen  
KFAB KWK WBZA WGAR  
WHAM WJZ WLW WMAQ

**Columbia ----- WABC**

WCCO WDSU WFBM WHK  
WBW WJAS WKBW WMAL  
WQAM WTAQ WTOC

**6:00-6:30 Blue Coal Revue**

CFRB WABC WCAU

**6:00-6:30 Knight from Chicago**

KDYL KFJF KFPY KFRC  
KGB KHJ KLZ KMOX  
KOH KOL KSCJ KVI  
KVOR WBW WQAM

**6:30-7:00 Barnsdall Musical**

**Memories**

KFH KFJF KLRA KMBC  
KMOX KOIL KSCJ WCCO  
WGN WBW

**7:00-7:15 World's Business**

KDYL KFH KFJF KFPY  
KFRC KGB KLZ KMOX  
KOH KOL KSCJ KVI  
KVOR WABC WBT WCCO  
WDSU WFBM WFBM WBW  
WJAS WMAL WPG WQAM  
WTOC

**7:15-7:30 Charlie and Oscar**

KMBC KMOX WABC WCAU  
WCCO WGN WJAS WKRC  
WNAC

**7:30-8:00 Luden's Novelty Orch.**

KDYL KLZ KMBC KMOX  
KOIL KRLD WABC WCAU  
WCCO WDSU WGN WHK  
WKRC WMAL WNAC WNAX

**8:00-8:15 Devils, Drugs, Doctors**

KDYL KFPY KFRC KHJ  
KLZ KMBC KMOX KOIL  
KOH KSCJ KTSA KVI  
WABC WADC WBRC WCAU  
WCCO WDSU WFBM WGN  
WHK WBW WJAS WKRC  
WLAC WMAL WNAC

**8:15-8:45 Esther Cad-Kin with**

**Orchestra**

KDYL KFJF KGB KLZ  
KOH KSCJ KVOR WBBM  
WCCO WBW WNAC

**8:45-9:00 Angelo Patri, Your Child**

KMBC KMOX KOIL WABC  
WADC WCAU WCCO WGN  
WHK WJAS WKRC WMAL  
WNAC WQAM

**9:00-9:30 Roxy Theatre Symphony**

KDYL KFJF KFPY KFRC  
KLZ KMOX KSCJ KVOR  
WBT WCAU WCCO WDSU  
WFBM WHK WJAS WNAC  
WQAM WTOC

**9:30-10:00 Romances of the Sea**

CFRB KDYL KFPY KFRC  
KHJ KLZ KMBC KMOX  
KOIL KOIN KOL WABC  
WADC WCAU WGN WHK  
WJAS WKRC WMAL WNAC  
WQAM

**10:00-10:30 Hopper Variety Show**

KDYL KFH KFJF KLZ  
EMBC KMOX KRLD KTSA  
WABC WADC WBBM WCAU  
WCCO WDSU WFBM WFBM  
WHK WJAS WKBW WKRC  
WMAL WQAM

**10:30-11:00 Ernest Hutcheson,**

**Pianist**

CFRB CKAC KDYL KFJF  
KFPY KGB KLZ KMOX  
KSCJ KVOR WABC WBT  
WCAU WDSU WFBM WFBM  
WHK WBW WJAS WKBW  
WMAL WNAC WPG WQAM  
WTOC

**11:00-11:30 The Gauchos—Spanish**

Program  
KDYL KFH KFJF KFPY

**National, Red ----- WEAF**

KVOO WAPI WBAP WBEN  
WCAE WCHS WDAF WDAY  
WEAF WEBC WENR WFI  
WFLA WGY WIBA WIOD  
WIS WJAX WJDX WKY  
WMC WOAI WOC WOV  
WPTF WRC WRVA WSAI  
WSB WSMB WTAM WTMJ  
WWJ WUNC

**6:30-7:00 Catholic Hour**

KGO KGW KOA KOMO  
KPRC KSD KSTP KTR  
KTHS KVOO WBAP WBEN  
WCAE WCHS WDAF WDAY  
WEAF WEBC WENR WFLA  
WGY WIBA WIOD WJAX  
WJDX WKY WLIT WMC  
WOAI WOC WOV WRC  
WRVA WSAI WSB WSM  
WSMB WWJ

**7:00-7:30 Through the Opera Glass**

CFCF WCAE WDAF WEAF  
WFLA WGY WIS WRC  
WRVA WSAI WUNC

**7:30-8:00 Iodent Club of the Air**

KSD WBEN WCAE WCHS  
WDAF WEAF WGY WLIT  
WLS WOC WRC WSAI  
WTAM WWJ

**8:00-9:00 Chase and Sanborn**

CFCF CKGW KPRC KSD  
KSTP KTHS KVOO WBEN  
WCAE WCHS WDAF WEAF  
WEBC WFAA WFLA WGY  
WHAS WHO WIOD WJDX  
WKY WLIT WLS WMC  
WOAI WOV WRC WSAI  
WSB WSMB WTAM WTMJ  
WWJ

**9:00-9:15 Our Government**

KSD KTHS KVOO WBEN  
WCHS WEAF WENR WFAA  
WFI WFLA WGY WIOD  
WIS WJDX WOC WOV  
WRC WSAI WUNC

**9:15-9:45 Album of Familiar Music**

KFI KGO KGW KHQ  
KOA KOMO KPRC KSD  
KSTP KTR KTHS WAPI  
WBEN WCAE WCHS WDAY  
WEAF WEBC WENR WFI  
WFLA WGY WHAS WIBA  
WIOD WJAX WJDX WKY  
WOAI WOC WOV WRC  
WRVA WSAI WSB WSM  
WSMB WTAM WTMJ WWJ

**9:45-10:15 Buick Program**

KFI KGO KGW KHQ  
KOA KOMO KPRC KSD  
KSTP KTR KTHS WAPI  
WBEN WCAE WCHS WDAY  
WEAF WEBC WENR WFI  
WFLA WGY WHAS WIBA  
WIOD WJAX WJDX WKY  
WOAI WOC WOV WRC  
WRVA WSAI WSB WSM  
WSMB WTAM WTMJ WWJ

**10:15-10:45 Ted Weems Orch.**

KFI KGO KGW KHQ  
KOA KOMO KSTP KTR  
KYW WAPI WBEN WCAE  
WCHS WDAF WDAY WEAF  
WEBC WFI WGY WHAS  
WJDX WKY WMC WOAI  
WOC WOV WRC WSAI  
WSB WSM WSMB WTAM  
WTMJ WWJ

**10:45-11:15 Sunday at Seth Parker's**

CKGW KGO KGW KHQ  
KOA KPRC KSD KSL  
KSTP KTR KYW WAPI

**National, Blue ----- WJZ**

6:30-6:45 My Portrait Gallery  
KFAB WBZA WJZ WREN

**6:45-7:00 Adventures, Barbara**

Wayne  
KWK WBZA WGAR WJR  
WJZ WLW WREN

**7:00-7:15 Willys—Overland Orch.**

KDKA KFI KGO KGW  
KHQ KOA KOMO KSL  
KTR KWK KYW WKY  
WDAY WEBC WGAR WIBA  
WJR WJZ WREN WTMJ

**7:15-7:30 Jolly Time Revue**

KDKA KFI KGO KGW  
KHQ KOA KOMO KSL  
KSTP KTR KVOO KWK  
WDAY WEBC WGAR WBAM  
WJZ WKY WLS WLW  
WOAI WREN WTMJ

**7:30-8:00 The Three Bakers**

KDKA KFI KGO KGW  
KHQ KOA KOMO KPRC  
KSL KSTP KTR KVOO  
WEBC WFAA WFLA WGAR  
WHAM WHAS WIBA WIOD  
WJDX WJR WJZ WKY  
WLW WMC WOAI WPTF  
WREN WRVA WSB WSM  
WSMB WTMJ

**8:00-8:15 Enna Jettick Melodies**

CFCF CKGW KDKA KFAB  
KFI KGW KHQ KFA  
KOA KOMO KPRC KSL  
KWK KYW WBA WDAY  
WEBC WFAA WFLA WGAR  
WHAM WHAS WIBA WIOD  
WJDX WJR WJZ WKY  
WLW WMC WOAI WREN  
WRVA WSB WSM WSMB  
WTMJ

**8:15-9:15 Collier's Radio Hour**

KDKA KFI KGO KHQ  
KOA KOMO KPRC KSL  
KWK KYW WBA WGAR  
WHAM WJR WJZ WLW  
WREN

**9:15-9:45 Bayuk Stag Party**

KDKA KWK KYW WBZA  
WGAR WJR WJZ WLW  
WREN

**9:45-10:15 Kellogg Slumber Music**

KDKA KWK KYW WBA  
WGAR WHAM WJR WJZ  
WLW WREN

**10:15-10:45 Harbor Lights, Drama**

KDKA KWK WENR WGAR  
WHAM WJR WJZ WREN

**10:45-11:00 Land of Wonder and**

Fear  
KDKA WBZA WHAM WJZ  
11:00-11:30 Witherspoon Chorus  
KDKA KFAB WENR WJR  
WJZ WREN

**11:45-12:00 South Sea Islanders**

KDKA KFAB KFYR KPRC  
KSTP KWK WHAM WIBA  
WJR WJZ WKY WREN  
WSB

**12:00-1:00 Henry Theis and Orch.**

KFYR KPRC WEBC WENR  
WGAR WJR WJZ WLW  
WMC WREN

**MONDAY**

**2:30-2:45 George Simons, Tenor**

KDKA KSTP WAPI WDAY  
WGAR WHAM WJDX WJZ  
WREN WSM

**Columbia ----- WABC**

KFRC KGB KLZ KSCJ  
 KVOR WABC WBT WCAU  
 WDSU WFBL WFBM WHK  
 WJBW WMAL WNAW WFG  
 WQAM WTOC

**11:30-12:00 Ben Bernie and Orch.**

KDYL KFJF KFJF KFPY  
 KGB KLZ KSCJ KVOR  
 WABC WBT WCAU WCCO  
 WDSU WJBW WMAL WNAW  
 WFG WQAM WTOC

**12:00-12:30 Eddie Duchin and Orch.**

KDYL KFJF KFPY KLZ  
 KVOR WABC WCAU WCCO  
 WJBW WNAW

**12:30-1:00 Ann Leaf at Organ**

KDYL KFJF KFPY KLZ  
 KMOX KOH KVOR WABC  
 WCAU WCCO WFBL WJBW

**MONDAY****6:45-7:00 Reis and Dunn Comedy**

KFH KFJF KLZ KOH  
 KSCJ KVOR WABC WBT  
 WDSU WFBM WJAS WKBW  
 WMAL WQAM WTOC

**9:00-9:15 Pompeian Make-Up Box**

CFRB KMBC KMOX KOIL  
 WABC WADC WCAU WFBL  
 WGN WHK WJAS WKRW  
 WKRC WMAL WNAW WOV

**9:15-9:30 Howard Barlow Orch.**

CFRB KFJF KFJF KFPY  
 KGB KHJ KLZ KMOX  
 KOH KSCJ KVOR WABC  
 WBT WDSU WFBL WJBW  
 WJAS WKBW WQAM WTAQ  
 WTOC

**9:30-10:00 Bourjois Evening in**

Paris  
 KDYL KFJF KFPY KFRC  
 KHJ KLZ KMBC KMOX  
 KOIL KOIN KRLD WABC  
 WADC WBT WCAU WCCO  
 WDSU WFBL WGN WHK  
 WJAS WKBW WKRC WMAL  
 WNAW WOWO

**10:00-10:30 Panatela — Guy**

Lombardo  
 KDYL KFJF KFPY KFRC  
 KHJ KLZ KMBC KMOX  
 KOIL KOIN KRLD KTSA  
 WABC WADC WBBM WCAU  
 WCCO WFBL WFBM WHK  
 WJAS WKBW WKRC WMAL  
 WNAW WOWO

**10:30-10:45 Toscha Seidel, Violinist**

CFRB KDYL KFJF KFPY  
 KGB KLZ KOH KSCJ  
 KVOR WABC WBT WDSU  
 WFBL WFBM WJBW WKBW  
 WMAL WQAM WTAQ WTOC  
 11:30-12:00 Cuban Biltmore Orch.  
 WABC WBT WCAU WDSU  
 WMAL WQAM WTOC

**TUESDAY**

7:30-8:00 Kaltenborn Edits News  
 KMBC KMOX KOIL WABC  
 WADC WBBM WCAU WCCO  
 WFBL WFBM WHK WJAS  
 WKRC WNAW

**8:15-8:30 Sterling — Abe Lyman's**

Band  
 KFJF KMBC KMOX KOIL  
 WABC WADC WCAU WCCO  
 WDSU WFBL WFBM WGN  
 WHK WJAS WKRC WMAL  
 WNAW

**8:30-8:45 Red Goose Adventures**

KDYL KFJF KFJF KFPY  
 KFRC KGB KHJ KLZ

**National, Red ---- WEAF**

WBEN WCAE WCSH WDAF  
 WDAY WEAF WEBC WFAA  
 WFI WFLA WGY WHAS  
 WHO WIBA WIOD WJAX  
 WJDX WKY WMC WOW  
 WPTF WRC WRVA WSAI  
 WSB WSM WSBM WTAM  
 WTMJ WWJ

**11:30-12:00 Jesse Crawford at**

Organ  
 WDAF WEAF WENR WGY  
 WOC WOW WRC WTAM  
 WWJ

**MONDAY****8:00-8:30 Soconyland Sketches**

WBEN WCSH WEAF WGY

**8:30-9:00 Voice of Firestone**

CFCF CKGW KPRC KSD

KTHS KVOO WBEN WCAE

WCSH WDAF WEAF WFAA

WFLA WGY WHAS WIOD

WIS WJAX WJDX WKY

WLIT WMAQ WMC WOAI

WOC WOW WPTF WRC

WRVA WSAI WSB WSM

WSMB WTAM WWJ WNNC

**9:00-9:30 A. & P. Gypsies**

KSD WBEN WCAE WCSH

WDAF WEAF WGY WLIT

WMAQ WOC WOW WRC

WSAI WTAM WWJ

**9:30-10:00 Parade of the States**

KFI KFJR KGO KGW

KHQ KOA KOMO KPRC

KSD KSL KSTP KTR

WBEN WCAE WCSH WDAF

WEAF WFAA WGY WHAS

WJDX WKY WLIT WMAQ

WMC WOAI WOC WOW

WRC WSAI WSB WSM

WTAM WTMJ WWJ

**10:00-10:45 True Story — Mary and**

Bob

KSD WBEN WCAE WCSH

WEAF WENR WGY WLIT

WOC WRC WSAI WTAM

WWJ

**11:00-11:30 Coon-Sanders' Orch.**

KSD WEAF WGY WOW

WWJ

**TUESDAY****6:30-6:45 Nick Lucas, Troubadour**

KFYR KOA KSD KSTP

KVOO WCAE WDAF WEAF

WENR WJAX WJDX WOW

WWJ

**7:00-7:30 Mid-Week Hymn Sing**

KOA KSTP WBEN WCAE

WCSH WEAF WFI WJDX

WSAI WSB WSM

**8:00-8:30 Blackstone — Sanderson-**

Crumit

KSD KSTP KYW WBEN

WCAE WCSH WDAF WEAF

WEBC WFI WGY WOC

WOW WRC WSAI WTAM

WWJ

**8:30-9:00 Sousa and his Band**

KPRC KSD KYW WBEN

WCAE WCSH WDAF WEAF

WFI WFLA WGY WHAS

WIOD WJAX WJDX WMC

WOAI WOC WOW WRC

WRVA WSAI WSB WSM

WSMB WTAM WWJ

**9:00-9:30 McKesson Musical Mag.**

KFI KGO KHQ KOA

KOMO KPRC KSD KSL

KTR KYHS KVOO WBEN

WCAE WCSH WDAF WFLA

**National, Blue ---- WJZ**

2:45-3:00 Piano Moods  
 CKGW KDKA KPO KPRC  
 KSTP WAPI WDAY WHAM  
 WJAX WJDX WJR WJZ  
 WKY WREN WSB WSM

**8:30-9:00 Death Valley Days, Drama**

KDKA KFAB KFI KFJR  
 KGO KGW KHQ KOMO  
 KSL KSTP KTR KWK  
 WBSA WEBC WGAR WHAM  
 WHL WJZ WLS WREN  
 WTMJ

**9:00-9:30 Maytag Orchestra**

KDKA KGO KGW KHQ

KOA KOMO KPRC KSL

KVOO KWK WBZA WDAY

WEBC WFAA WGAR WHAM

WIS WJR WJZ WKY

WMC WOAI WREN WSM

WTMJ

**9:30-10:00 Musical Dominos Orch.**

KDKA KWK KYW WBZA

WGAR WHAM WJR WJZ

WLW WREN

**10:00-10:30 Gold Medal Express**

KDKA KFI KGO KGW

KHQ KOA KOMO KSL

KSTP KTR KWK KYW

WBAP WBZA WEBC WFLA

WGAR WHAM WIOD WJAX

WJR WJZ WKY WMC

WOAI WREN WRVA WSB

WSM WTMJ

**10:30-11:00 Chesebrough Real Folks**

KDKA KFI KGO KGW

KHQ KOA KOMO KPRC

KTR KTHS KWK KYW

WAPI WBAP WBZA WDAY

WEBC WFLA WGAR WHAM

WHAS WIBA WIOD WJAX

WJDX WJR WJZ WLW

WOAI WREN WRVA WSB

WSM WSBM WTMJ

**11:00-11:30 Slumber Music**

WIOD WIS WJR WJZ

WRC WNNC

**TUESDAY****3:00-3:30 Music in the Air**

CKGW KDKA KFAB KOA

KTHS KVOO KWK WAPI

WBAP WBZA WDAY WEBC

WFLA WGAR WIBA WIOD

WIS WJAX WJDX WJR

WJZ WKY WLW WMC

WPTF WRC WREN WRVA

WSB WSM WSBM WNNC

**5:30-5:45 Old Pappy**

KOA WAPI WENR WHAS

WJDX WJR WJZ WMC

WREN WSM

**7:45-8:00 Back of the News**

KFYR KGO KOA WCKY

WEBC WFLA WIOD WIS

WJZ WRC WREN

**8:00-8:30 Armstrong Quakers**

KDKA KFAB KWK WBZA

WHAM WHL WJZ WLS

WLN WREN

**8:30-8:45 Heel Hugger Harmonies**

KFI KGO KGW KHQ

KOA KOMO KSL KTR

WHAM WJZ WLS WREN

**9:00-9:30 Household Finance Pro-**

gram

KDKA KWK WBZA WHAM

WJZ WMAQ WREN

**9:30-10:00 Great Personalities**

KDKA KWK WBZA WENR

WGAR WHAM WJR WJZ

WLW WREN WRVA

**Columbia WABC**

KMBC KMOX KOH KOIL  
 KOIN KSCJ K TSA WABC  
 WADC WBT WCCO WDSU  
 WGN WHK WLBW WJAS  
 WKRC WMAL WNAX WOWO  
 WQAM WTAR

**8:45-9:00 Walter Winchell**  
 KMBC KMOX KOIL WABC  
 WADC WCAU WFBL WHK  
 WJAS WJJD WKRC WMAL  
 WNAC WOWO

**9:00-9:30 Ben Bernie and Orchestra**  
 KDYL KFH KFJF KFPY  
 KFRC KHJ KMBC KOIL  
 KOIN K TSA WABC WADC  
 WBRC WBT WCAU WCCO  
 WDSU WFBL WGN WHK  
 WJAS WKRC WMAL WNAC  
 WOWO

**9:30-10:00 Romances of the Sea**  
 CFRB KMBC KMOX KOIL  
 WABC WADC WCAU WFBL  
 WGN WHK WJAS WKBW  
 WKRC WMAL WNAC WOWO

**10:00-10:15 Modern Male Chorus**  
 CFRB KDYL KFH KFJF  
 KFPY KGB KLZ KOH  
 KSCJ KVOR WABC WBT  
 WCCO WDSU WFBL WFBM  
 WIBW WJAS WKBW WMAL  
 WQAM WTCO

**10:15-10:30 Star Shoemakers**  
 KDYL KFH KFJF KFPY  
 KFRC KGB KHJ KLZ  
 KMBC KMOX KOH KOIL  
 KOIN KRLD KSCJ WABC  
 WADC WBBM WBRC WBT  
 WCAU WCCO WDSU WFBM  
 WHK WIBW WJAS WKBW  
 WKRC WLAC WMAL WNAX  
 WOWO WQAM WTAR WTCO

**10:30-10:45 Arabesque, Desert Play**  
 CFRB KFH KFJF KGB  
 KOH KVOR WABC WBT  
 WDSU WFBL WFBM WHK  
 WIBW WJAS WKBW WMAL  
 WPG WQAM WTCO

**11:00-11:15 Cuban Billmore Orch.**  
 KFH KFJF KGB KVOR  
 WABC WDSU WFBM WIBW  
 WJAS WKBW WPG WTCO

**WEDNESDAY**

**9:00-9:30 Gold Medal Freight**  
 KFH KMBC KMOX KOIL  
 KSCJ WABC WADC WCAU  
 WCCO WFBL WFBM WGN  
 WHK WJAS WKBW WKRC  
 WMAL WNAC WOWO

**9:30-10:00 Eno Crime Club**  
 CFRB KMBC KMOX KOIL  
 WABC WADC WCAU WFBL  
 WHK WJAS WKBW WKRC  
 WMAL WNAC WOWO WQAM

**10:00-10:15 Vitality Personalities**  
 KDYL KFJF KFPY KFRC  
 KHJ KLZ KMBC KMOX  
 KOIL KOIN KRLD K TSA  
 KYI WABC WADC WBBM  
 WBRC WBT WCAU WCCO  
 WDSU WFBL WFBM WHK  
 WJAS WKBW WKRC WLAC  
 WMAL WNAC WOWO

**10:15-10:30 Weed Tire Chain**  
 Symphony  
 CRAC KDYL KFJF KLZ  
 KMBC KMOX KOIL KRLD  
 WABC WADC WCAU WCCO  
 WFBL WGN WHK WJAS  
 WKBW WKRC WMAL WOWO

**10:30-10:45 Columbia Concerts**  
 Program  
 CFRB KDYL KFJF KFPY

**National, Red WJAX WJDX**

WHAS WIOD WJAX WJDX  
 WKY WLS WMC WOAI  
 WOC WOW WRC WRVA  
 WSAI WSB WSM WSMB  
 WTAM WTMJ WJJ

**9:30-10:00 The Fuller Man**  
 KGO KGW KHQ KOA  
 KOMO KSD KSL KSTP  
 KVOO KYW WBAP WBEN  
 WCAE WCSH WDAF WFAF  
 WECB WFI WGY WKY  
 WOAI WOC WOW WRC  
 WSAI WSB WTAM WTMJ  
 WJJ

**11:00-11:15 Lee Morse, Songs**  
 CFCF WCAE WFAF WFI  
 WGY WIOD WJAX WTAM  
 WJJ

**11:30-12:00 Jack Denny and Orch.**  
 CFCF KSD KSTP WBEN  
 WFAF WFI WGY WJAX  
 WOW WRC

**12:00-12:30 Rudy Vallee and Orch.**  
 KFJR KPRC KSD KSTP  
 WBEN WDAF WFAF WGY  
 WHAS WJAX WOW WRC  
 WSB WJJ

**WEDNESDAY**

**7:15-7:30 Campbell Orchestra**  
 CFCF WBEN WCSH WDAF  
 WFAF WGY WLIT WOW  
 WRC WSAI

**8:00-8:15 Snoop and Peep, Comedy**  
 CFCF CKGW WBEN WCSH  
 WFAF WGY WLIT WRC  
 WTAM

**8:15-8:30 Ohman-Arden, Piano Duo**  
 KSD WBEN WCAE WCSH  
 WDAF WFAF WGY WLS  
 WOC WOW WRC WSAI  
 WTAM WJJ

**8:30-9:00 Mobiloil Concert**  
 KOA KSD KSTP KVOO  
 KYW WBEN WCAE WCSH  
 WDAF WDAY WFAF WECB  
 WFAA WGY WHO WJAX  
 WKY WLIT WOAI WOW  
 WRC WSAI WTAM WTMJ  
 WJJ

**9:00-9:30 Halsey-Stuart Program**  
 CKGW KFI KGO KGW  
 KHQ KOA KOMO KPRC  
 KSD KSL KSTP KVOO  
 KYW WBEN WCAE WCSH  
 WFAF WGY WHAS WJAX  
 WLIT WMC WOAI WOC  
 WOW WRC WRVA WSAI  
 WSB WSM WSMB WTAM  
 WTMJ WJJ

**9:30-10:30 Palmolive Hour**  
 CKGW KFI KGO KGW  
 KHQ KOA KOMO KPRC  
 KSD KSL KSTP KVOO  
 WBEN WCAE WCSH WDAF  
 WFAF WFAA WGY WHAS  
 WJAX WLS WLIT WMAQ  
 WMC WOAI WOC WOW  
 WRC WSAI WSB WSM  
 WSMB WTAM WTMJ WJJ  
 WJAX WJDX

**10:30-11:00 Coca-Cola Program**  
 CFCF KFI KGO KGW  
 KHQ KOA KOMO KPRC  
 KSD KSL KSTP KJAR  
 KTHS WAPI WBAP WBEN  
 WCAE WCSH WDAF WFAF  
 WECB WENR WFLA WGY  
 WHAS WIOD WJAX WKY  
 WLIT WMC WOAI WOC  
 WOW WPTF WRC WRVA  
 WSAI WSB WSM WSMB  
 WTAM WTMJ WJJ

**National, Blue WJZ**

**10:45-11:00 Paris Night Life**  
 KDKA KYW WBZA WGAR  
 WHAM WJZ WREN  
**11:45-12:15 Dream Pictures**  
 KDKA KFAB WENR WGAR  
 WJR WJZ WREN

**12:15-1:00 Paul Whiteman and Orchestra**  
 KYW WGAR WJZ WREN

**WEDNESDAY**

**7:45-8:00 Believe It or Not, Ripley**  
 KDKA WBZA WHAM WJZ  
 WPTF WRVA

**8:00-8:15 College Memories**  
 KFI KGO KGW KHQ  
 KOA KOMO KPRC KSL  
 KSTP KJAR KVOO KWK  
 KYW WCKY WDAY WECB  
 WFAA WGAR WHAM WHAS  
 WJAX WJDX WJR WJZ  
 WMC WOAI WREN WSB  
 WSM WSMB WTMJ

**8:15-8:30 Guy Robertson, Baritone**  
 KFAB KOA KPRC KSL  
 KSTP KVOO KWK KYW  
 WBAP WBZA WCKY WDAY  
 WECB WFAA WFLA WGAR  
 WHAM WHAS WJAX WIOD  
 WJAX WJDX WJR WJZ  
 WKY WMC WOAI WPTF  
 WREN WRVA WSB WSM  
 WSMB

**8:30-9:00 Jack Frost Melody Moments**  
 KDKA WGAR WHAM WJR  
 WJZ WLS WLW

**9:00-9:30 Adventures of Sherlock Holmes**  
 KDKA KWK WBZA WGAR  
 WHAM WJR WJZ WLS  
 WLW WREN

**9:30-10:00 Dutch Masters Program**  
 KDKA KWK WBZA WENR  
 WGAR WHAM WJR WJZ  
 WLW WREN

**10:00-10:30 Rochester Civic Orch.**  
 KDKA WFLA WGAR WHAM  
 WIOD WIS WJR WJZ  
 WREN WJAX

**10:45-11:00 Hollywood Nights**  
 KDKA KWK WBZA WENR  
 WGAR WHAM WJR WJZ  
 WREN

**11:00-11:30 Slumber Music**  
 WIOD WJR WJZ WJAX  
**12:15-12:30 Coon-Sanders Orch.**  
 KFJR KOA KSTP KTHS  
 WENR WGAR WJAX WJR  
 WJZ WMC WREN WSB  
 WTMJ

**12:30-1:00 Ernie Holst and Orch.**  
 KOA WENR WGAR WJR  
 WJZ WREN WSB WSM

**THURSDAY**

**4:15-4:45 U.S. Navy Band**  
 WAPI WJDX WJR WJZ  
 WREN WSM

**5:00-5:30 Coffee Matinee**  
 KDKA KFAB KWK KYW  
 WBZA WGAR WHAM WJZ  
 WLW WREN  
**5:30-5:45 Old Pappy**  
 KVOO WENR WHAS WJDX  
 WJR WJZ WMC WREN  
 WSM

**7:45-8:00 Famous Fallacies of Business**  
 KFI KGO KGW KHQ  
 KOA KOMO KJAR WCKY  
 WECB WFLA WGAR WIS

**Columbia ----- WABC**

KFCR KGB KLZ KOH  
 KSCJ KVOR WABC WBT  
 WCCO WDSU WFBL WFBM  
 WIBW WKBW WMAL WPG  
 WQAM WTAQ WTOC  
 11:00-11:15 **Leon Belasco's Orch.**  
 KDYL KFH KFJF KFPY  
 KGB KLZ KOH KSCJ  
 KVOR WABC WDSU WFBM  
 WIBW WJAS WKBW WPG  
 WTOC

**THURSDAY**

7:30-7:45 **Kaltenborn Edits News**  
 KMBC KMOX KOIL WABC  
 WADC WBBM WCAU WCCO  
 WFBL WFBM WHK WJAS  
 WKRC WNAC  
 8:15-8:30 **Sterling — Abe Lyman's**  
**Band**  
 KFJF KMBC KOIL WABC  
 WADC WCAU WCCO WDSU  
 WFBL WHK WJAS WKRC  
 WMAL WNAC WQAM  
 8:45-9:00 **Angelo Patri, Your Child**  
 KMBC KMOX KOIL WABC  
 WADC WCAU WCCO WFBL  
 WHK WJAS WKRC WMAL  
 WNAC WOWO WQAM  
 9:00-9:30 **Eugene Ormandy Presents**  
 KDYL KFH KFJF KFPY  
 KFCR KGB KHJ KOH  
 KSCJ KVOR WABC WFBM  
 WJAS WKBW WMAL WNAC  
 WPG WTAQ WTOC  
 9:30-10:00 **Love Story**  
 KMBC KMOX KOIL WABC  
 WADC WBBM WCAU WFBL  
 WHK WJAS WKBW WKRC  
 WMAL WNAC WOWO

10:00-10:30 **Schaffner-Marx**  
**Trumpeters**  
 KFJF KLZ KMBC KMOX  
 KOIL KKLD WABC WADC  
 WBBM WCAU WCCO WDSU  
 WFBL WFBM WHK WJAS  
 WKBW WKRC WMAL WOWO  
 10:30-10:45 **Peter's Parade**  
 KDYL KFJF KFPY KFCR  
 KGB KHJ KLZ KOH  
 KOIL KOIN KRLD WABC  
 WADC WBRG WBT WDSU  
 WHK WIBW WJAS WKBW  
 WKRC WLAC WNAX WOWO  
 WQAM WTOC

11:15-11:30 **Jack Miller songs**  
 KVOR WABC WBT WCAU  
 WDSU WNAC WQAM WTOC  
 11:45-12:00 **Leon Belasco's Orchestra**  
 KDYL KFH KLZ KOH  
 KSCJ KVOR WABC WBT  
 WCAU WDSU WFBL WKBW  
 WPG WQAM WTOC

**FRIDAY**

8:30-9:00 **March of Time**  
 KDYL KLZ KMBC KMOX  
 KOIL WABC WADC WCAU  
 WCCO WGN WHK WJAS  
 WMAL WNAC WOWO  
 9:00-9:15 **Radio Reproductions**  
 KMBC KMOX WABC WBBM  
 WCAU WFBL WHK WJAS  
 WKBW WKRC WMAL WNAC  
 9:15-9:45 **Liberty Magazine**  
 KFJF KLZ KMBC KMOX  
 KOIL KRLD WABC WBRG  
 WBT WCAU WCCO WDSU  
 WFBL WGN WHK WJAS  
 WKBW WKRC WLAC WMAL  
 WNAC

**National, Red ----- WEAF**

11:00-11:15 **Voice of Radio Digest**  
 KSD KCSH WEAF WEBC  
 WGY WOW WRC WTAM  
 WWJ  
 11:30-12:00 **Vincent Lopez and**  
**Orchestra**  
 WAPI WDAF WEAF WENR  
 WIOD WQAI WOC WOW  
 WRC WTAM WWJ  
 12:30-1:00 **Paul Whiteman's Orch.**  
 WEAF WOC WRC WTAM  
 WWJ

**THURSDAY**

6:30-6:45 **The World Today**  
 WCAE WEAF WFI WIOD  
 7:00-7:15 **Vermont Lumber Jacks**  
 WBNB WCAE WCSH WEAF  
 WENR WFI WGY WSAI  
 WWJ  
 7:15-7:30 **Campbell Orchestra**  
 CFCF WBNB WCSH WDAF  
 WEAF WFI WOW WRC  
 WSAI  
 8:00-9:00 **Fleischmann — Rudy**  
**Vallee**  
 CFCF CKGW KGO KGW  
 KHQ KOA KOMO KPRC  
 KSD KSL KSTP KTAR  
 KTHS WAPI WBAP WBNB  
 WCAE WCSI WDAF WEAF  
 WLBC WFI WFLA WGY  
 WHAS WHO WIOD WJAX  
 WJDX WKY WMAQ WMC  
 WOAI WOW WRC WRVA  
 WSAI WSB WSM WSMB  
 WTAM WTMJ WWJ  
 9:00-9:30 **Arco Dramatic**  
**Musicale**  
 CKGW KGO KGW KHQ  
 KOA KOMO KSD KSL  
 KTAR KYW WAPI WBAP  
 WBNB WCAE WCSI WDAF  
 WEAF WEBC WFI WGY  
 WHAS WIOD WJAX WJDX  
 WKY WMC WOAI WOC  
 WOW WPTF WRC WRVA  
 WSAI WSB WSM WSMB  
 WTAM WTMJ WWJ  
 9:30-10:00 **Adventures of Sherlock**  
**Holmes**  
 CFCF CKGW KSD WBNB  
 WCSI WDAF WEAF WENR  
 WFI WGY WOC WOW  
 WRC WSAI WTAM WWJ

**FRIDAY**

7:00-7:30 **Major Bowes' Family**  
 KFJR KOA WCSH WEAF  
 WGY WHAS WJAX WOW  
 WPTF WRC WSAI WSB  
 8:00-9:00 **Cities Service Program**  
 CKGW KGO KGW KHQ  
 KOA KOMO KPRC KSD  
 KSL KSTP KTHS KYW  
 WBNB WCAE WCSI WDAF  
 WEAF WEBC WPAI WGY  
 WKY WLIT WOAI WOC  
 WOW WRC WSAI WTAM  
 WTMJ WWJ  
 9:00-9:30 **The Cliquot Club**  
 KSD WBNB WCAE WCSI  
 WDAF WEAF WGY WLIT  
 WOC WOW WRC WSAI  
 WWJ  
 9:30-10:00 **Pond's Dance Program**  
 KSD WBNB WCAE WCSI  
 WDAF WEAF WENR WGY  
 WLIT WOC WOW WRC  
 WSAI WTAM  
 10:30-11:00 **RKO Theatre of the Air**  
 KGO KGW KHQ KOA  
 KOMO KSD KSL KTAR

**National, Blue ----- WJZ**

WJAX WJZ WLS WPTF  
 WRC WRN WRVA WUNC  
 8:00-8:15 **Dixie Spiritual Singers**  
 KDKA KFAB KWK WBZA  
 WCKY WENR WHAM WJR  
 WJZ WLS WRN WRVA  
 8:15-8:30 **Rin-Tin-Tin Thriller**  
 KDKA KFAB KWK WBZA  
 WGAR WHAM WJR WJZ  
 WLS WLW WRN  
 8:30-8:45 **Pickard Family**  
 WBZA WJR WJZ WLS  
 WLW WRN  
 9:00-9:30 **Blackstone, Sandersson-**  
**Crumit**

KDKA WBZA WCKY WHAM  
 WJZ  
 9:30-10:00 **Maxwell House En-**  
**semble**  
 KDKA KGO KGW KHQ  
 KOA KOMO KSL KSTP  
 KTAR KWK KYW WAPI  
 WBZA WEBC WFLA WHAM  
 WHAS WIOD WJAX WJDX  
 WJR WJZ WKY WLW  
 WMC WRN WRVA WSB  
 WSM WSMB WTMJ  
 10:00-10:30 **A. & P. Gypsies**  
 KDKA KWK KYW WBZA  
 WGAR WHAM WJR WJZ  
 WLW WRN  
 10:45-11:00 **Paris Night Life**  
 KDKA KWK WBZA WGAR  
 WHAM WJZ WRN  
 12:15-12:30 **Earl Hines and Orch.**  
 KFJR KOA KPRC KTHS  
 WENR WGAR WJR WJZ  
 WRN WSB WSM

**FRIDAY**

11:00-12:00 **Walter Damrosch**  
 CFCF CKGW KDKA KFAB  
 KOA KPRC KSD KSL  
 KSTP KTHS KVOO KWK  
 KYW WAPI WBAP WBNB  
 WBZA WCAE WCSI WDAF  
 WDAY WEAF WEBC WENR  
 WFLA WGY WHAM WHAS  
 WIBA WIOD WJAX WJDX  
 WJR WJZ WKY WLIT  
 WMC WOAI WOC WOW  
 WPTF WRC WRN WRVA  
 WSAI WSB WSM WTAM  
 WTMJ WWJ  
 4:15-5:15 **Radio Guild**  
 CKGW KFAB KOA KPRC  
 KSL KVOO WAPI WDAY  
 WEBC WGAR WHAM WHAS  
 WIBA WIS WJAX WJDX  
 WJR WJZ WKY WMC  
 WOAI WPTF WRC WRN  
 WRVA WSB WSM WSMB  
 WUNC  
 5:15-5:30 **Fireside Songs**  
 KFAB KFJR KYW WJDX  
 WJR WJZ WRC WRN  
 WSM WUNC  
 7:45-8:00 **Believe It or Not, Ripley**  
 KDKA WBZA WJZ WPTF  
 WRVA  
 8:00-8:30 **Nestle's Program**  
 KDKA KFAB KWK WBZA  
 WCKY WGAR WHAM WJR  
 WJZ WLS WRN  
 9:00-9:30 **Interwoven Pair**  
 KDKA KFI KGO KGW  
 KHQ KOA KOMO KPRC  
 KSL KSTP KTAR KWK  
 KYW WAPI WBZA WCKY  
 WFCB WFAA WGAR WHAM  
 WHAS WIOD WJAX WJR  
 WJZ WKY WMC WOAI



**Columbia ----- WABC**

**9:45-10:00 Friendly Five Footnotes**  
KFJF KLZ KMBC KMOX  
KOIL KRLD WABC WBRK  
WBT WCAU WCCO WDSU  
WFBL WGN WHK WJAS  
WKBW WKRC WLAC WMAL  
WNAC

**10:00-10:30 Pillsbury Pageant**  
KFJF KMBC KMOX KOIL  
KRLD WABC WADC WBT  
WCAU WCCO WFBL WGN  
WHK WJAS WKBW WKRC  
WMAL WNAC WOWO WTAAR

**10:45-11:00 Tito Guizar, Tenor**  
CFRB KFJF KGB KOH  
KSCJ KVOR WABC WBT  
WCAU WDSU WFBL WIBW  
WJAS WKBW WMAL WQAM  
WTOC

**11:00-11:15 Leon Belasco Orch.**  
KFH KFJF KGB KSCJ  
KVOR WABC WDSU WIBW  
WJAS WKBW WTOC

**12:00-12:30 Ben Bernie and Orch.**  
KDYL KFJF KFPY KGB  
KOH KVOR WABC WCAU  
WCCO WDSU WFBL WIBW  
WKBW WNAC

**SATURDAY**

**6:00-6:30 Abrams Barn Orchestra**  
CFRB KFH KFPY KGB  
KOH KSCJ KVI KVOR  
WABC WBT WDSU WFBL  
WIBW WJAS WQAM WTOC

**6:30-6:45 Don Bigelow and Orch.**  
KFH KFJF KFPY KGB  
FOH KSCJ KVOR WABC  
WBBM WBT WCAU WFBL  
WFBM WIBW WJAS WKBW  
WNAX WQAM WTOC

**7:00-7:15 Political Situation**  
KDYL KFH KFJF KGB  
KLZ KOH KSCJ KVI  
KVOR WABC WBT WCAU  
WDSU WFBL WFBM WIBW  
WMAL WTOC

**7:30-7:45 Reis and Dunn**  
KDYL KFH KFJF KFPY  
KMOX KOH KSCJ KVOR  
WBT WCCO WDSU WFBM  
WJAS WNAC WQAM

**8:15-10:00 Philadelphia Symphony**  
CFRB CKAC KDYL KFH  
KFJF KFPY KPRC KHJ  
KLZ KMBC KMOX KOI  
KOIL KOIN KRLD KSCJ  
KTSB WCAU WADC WBBM  
WBT WCAU WCCO WDSU  
WFBL WFBM WGN WHK  
WIBW WJAS WKBW WKRC  
WLAC WMAL WNAC WNAX  
WOWO WPG WQAM WTAAR  
WTOC

**10:00-11:00 Hank Simmons**  
CFRB KDYL KFH KFPY  
KFPY KFRK KGB KHJ  
KLZ KOH KSCJ KVOR  
WABC WADC WCAU WCCO  
WDSU WFBL WHK WIBW  
WJAS WKBW WMAL WPG  
WTAQ

**11:30-11:45 Leon Belasco and Orch.**  
WABC WBT WCAU WDSU  
WMAL WQAM

**12:00-12:30 Guy Lombardo and Orch.**  
KDYL KFJF KFPY KOH  
KVOR WABC WCAU WCCO  
WFBL WIBW WKBW WNAC

**National, Red ---- WEAF**

WBEN WCAE WCSH WDAY  
WEAF WENR WFLA WGY  
WHAS WIBA WIOD WJAX  
WJDX WKY WLIT WMC  
WOAI WOC WOW WRC  
WRVA WSAI WSB WSMB  
WTAM WTMJ WWJ

**11:00-12:00 Vincent Lopez and Orch.**  
KSD WBEN WEAF WGY  
WIOD WOW WRC WTAM  
WWJ WWNC

**SATURDAY**

**5:30-5:45 Dandies of Yesterday**  
KSD KSTP KYW WCAE  
WDAY WEAF WENR WGY  
WHAS WJDX WKY WOC  
WOW WRC WSM WTAM  
WWJ

**7:00-7:15 Nick Lucas, Troubadour**  
KFYR KOA WBEN WCAE  
WCSH WDAY WEAF WENR  
WFI WJDX WOW WSAI  
WSB WTAM

**7:15-7:30 Laws Safeguard Society**  
KGO KOA KOMO KTAR  
WBEN WCSH WDAY WEAF  
WBCB WENR WFI WGY  
WJDX WOAI WOC WOW

**7:30-7:45 Breen and de Rose**  
CFCF WBEN WDAF WENR  
WFI WGY WOC WOW  
WRC WRVA WSM WTAM

**8:00-8:30 Civic Concerts Service**  
KSD WBEN WCAE WCSH  
WDAF WEAF WFI WGY  
WOC WOW WSAI WTAM  
WWJ

**8:30-9:00 Advisory Council on Radio**  
KFI KGO KGW KOA  
KOMO KPRC KSD KSL  
KSTP KTAR WCSH WDAF  
WDAY WEAF WBCB WFI  
WFLA WGY WHAS WIBA  
WIOD WIS WJAX WJDX  
WOC WOW WSAI WSB  
WSM WTMJ WWJ WWNC

**9:00-9:30 Arthur Pryor and Orch.**  
KFI KGO KGW KHQ  
KOA KOMO KPRC KSD  
KSL KSTP KTAR WAPI  
WBAP WBEN WCAE WCSH  
WDAF WDAY WEAF WBCB  
WFI WFLA WGY WHAS  
WIOD WJAX WJDX WLW  
WMC WOAI WOC WPTF  
WRC WRVA WSAI WSB  
WSMB WTAM WTMJ WWJ

**9:30-10:00 Club Valspar**  
CFCF CKGW KPRC KSD  
KSTP WAPI WBAP WBEN  
WCAE WCSH WDAF WDAY  
WEAF WBCB WFI WFLA  
WGY WHAS WIOD WJAX  
WJDX WKY WMC WOAI  
WOC WOW WPTF WRC  
WRVA WSAI WSB WSMB  
WTAM WTMJ WWJ

**11:00-11:15 Lee Morse, Songs**  
KSD WCAE WEAF WFI  
WGY WTAM

**11:30-12:00 Coon-Sanders' Orch.**  
CFCF KPRC KSD WCAE  
WDAF WEAF WFI WGY  
WIOD WMC WOC WOW  
WRC WSB WTAM WWJ

**12:00-12:30 Rudy Vallee and Orch.**  
KOA KPRC KSD WBEN  
WDAY WEAF WGY WIBA  
WMC WOW WRC WTAM  
WWJ

**National, Blue ---- WJZ**

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

**10:00-10:30 Paul Whiteman's**

**Paint Men**  
KDKA KFI KGO KGW  
KHQ KOA KOMO KPRC  
KSL KSTP KTAR KVOO  
KWK WBAP WBZA WDAY  
WBCB WENR WFLA WGAR  
WHAM WHAS WIOD WJAX  
WJDX WJR WJZ WKY  
WMC WOAI WREN WRVA  
WSB WSM WSMB WTMJ

**10:45-11:00 Waves of Melody**  
KDKA KWK KYW WBZA  
WGAR WHAM WJR WJZ  
WREN

**11:30-12:00 Jack Denny and Orch.**  
CFCF KFYR KPRC KSTP  
WBCB WENR WIBA WIS  
WJR WJZ WREN

**SATURDAY**

**1:30-2:00 Paul Whiteman and Orch.**  
CKGW KOA KYW WBZA  
WGAR WIOD WJZ WREN  
WSM

**7:45-8:00 Hollywood Nights**  
KDKA KFAB KWK KYW  
WBZA WCKY WGAR WHAM  
WJR WJZ WREN

**8:00-8:30 Danger Fighters, Drama**  
KDKA KFAB KFI KGO  
KGW KHQ KOA KOMO  
KPRC KSL KSTP KTAR  
KWK WAPI WDAY WBCB  
WHAM WHAS WIBA WJDX  
WJZ WLS WMC WOAI  
WREN WSB WSM WSMB  
WTMJ

**8:30-9:00 Dance with Countess**  
D'Orsay  
CFCF CKGW KDKA KWK  
WBZA WGAR WHAM WJR  
WJZ WLS WLW WREN

**9:00-9:30 Chicago Civic Opera**  
CFCF CKGW WHAM WJZ

**9:30-10:00 The First Nighter**  
KDKA KFI KGO KGW  
KHQ KOA KOMO KSL  
KSTP KTAR KWK KYW  
WBZA WDAY WBCB WGAR  
WHAM WJR WJZ WLW  
WREN WTMJ

**10:00-10:30 Cuckoo Burlesque Skit**  
CFCF CKGW KWK WBZA  
WGAR WHAM WJR WJZ  
WREN

**10:45-11:00 Twenty Fingers of**  
Harmony  
CFCF KDKA WHAM WJR  
WJZ WREN

**11:00-11:30 Slumber Music**  
WHAM WJR WJZ WWNC

**12:15-1:00 Paul Whiteman and**  
Orchestra  
KYW WGAR WJR WJZ  
WREN

# INDEX BY FREQUENCIES AND DIAL NUMBERS

## NOTICE OF COPYRIGHT

The method of logging by wave-lengths or frequencies was devised by The Radex Press in 1924 and has been copyrighted and recopyrighted each year since that time. The arrangement of stations in groups by frequencies or wave-lengths with dial readings in connection therewith is fully covered by our copyright and all infringers will be vigorously prosecuted.

### KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: \* Verifies receptions 2c; sends station stamp 10c; † Verifies 2c; no stamp; ‡ Sends stamp but does not verify otherwise; † Does not verify; § Did not reply. § Verification 25c, reply card 10c. 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 frequencies; Y given permit to move to another city. Dn — This daylight station may use evening hours under certain conditions. □ These stations operate simultaneously. Dashes (..) have no meaning.

## 540 kilocycles 555.6 meters

CKX	†	500	---	Brandon, Manitoba
XBY	--	101	547	Merida, Mexico

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Manitoba Telephone System  
Partido Socialista Surt

## 550 kilocycles 545.1 meters

KFDY	†	500	1+	Brookings, S. D.
KFUO	*	500	2+	St. Louis, Mo.
KFYR	†	1000	1+N	Bismarck, N. D.
KOAC	†	1000	---	Corvallis, Ore.
KSD	†	500	2N	St. Louis, Mo.
WGR	*†	1000	3S	Buffalo, N. Y.
WKRC	†	1000	C	Cincinnati, Ohio

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S. D. State College  
Concordia Theological Seminary  
Meyer Broadcasting Co.  
State Agricultural College  
Pulitzer Publishing Co.  
Buffalo Broadcasting Co.  
WKRC Incorporated

## 560 kilocycles 535.4 meters

KFDM	*	500	X+	Beaumont, Texas
KLZ	*	1000	C	Denver, Colo.
KTAB	*	1000	---	San Francisco, Cal.
WFI	*	500	1N	Philadelphia, Pa.
WIBO	*	1000	3+N	Chicago, Ill.
WLIT	†	500	1N	Philadelphia, Pa.
WNOX	*	1000	X+C	Knoxville, Tenn.
WPCC	*	500	3S	Chicago, Ill.
WQAM	*	1000	C	Miami, Fla.

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Magnolia Petroleum Co.  
Reynolds Radio Co., Inc.  
Associated Broadcasters  
Strawbridge & Clothier  
Nelson Bros. Bond & Mortgage Co.  
Lit Brothers  
WNOX, Inc.  
North Shore Congregational Church  
Miami Broadcasting Co.

## 570 kilocycles 526.0 meters

KGKO	*	250	+	Wichita Falls, Texas
KMTR	*	500	---	Hollywood, Cal.
KXA	*	500	---	Seattle, Wash.
TGW	--	50	---	Guatamala
WEAO	†	750	1	Columbus, Ohio
WKBN	*†	500	1C	Youngstown, Ohio
WMAC	--	250	2	Syracuse, N. Y.
WMCA	*†	500	3	New York City
WNAX	*†	1000	C	Yankton, S. D.
WNYC	†	500	3	New York City
WPCH	*†	500	D	New York City
WSYR	--	250	2	Syracuse, N. Y.
WWNC	--	1000	N	Asheville, N. C.

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Wichita Falls Broadcasting Co.  
KMTR Radio Corp.  
American Radio Tel. Co.  
  
Ohio State University  
WKBN Broadcasting Corp.  
Clive B. Meredith  
Knickerbocker Broadcasting Co., Inc.  
House of Gurney, Inc.  
Dept. of Plants and Structures  
Eastern Broadcasters, Inc.  
Clive B. Meredith  
Citizens Broadcasting Co., Inc.

## 580 kilocycles 516.9 meters

CFCY	*	500	---	Charlottetown, P. E. I.
CHMA	--	250	4S	Edmonton, Alta.
CKUA	†	500	4	Edmonton, Alta.
KGFX	--	200	D	Pierre, S. D.
KSAC	†	500	2+	Manhattan, Kans.
WIBW	*	1000	2+C	Topeka, Kansas
WOBU	*†	250	1+	Charleston, W. Va.
WSAZ	*	250	1	Huntington, W. Va.
WTAG	*	250	N	Worcester, Mass.

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The Island Radio Co.  
Christian and Missionary Alliance  
University of Alberta  
Dana McNeil  
State Agricultural College  
Topeka Broadcasting Assn., Inc.  
WOBU, Inc.  
WSAZ, Inc.  
Telegram Publishing Co.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 590 kilocycles 508.2 meters

CMW	--	1400	588
KHQ	--	1000	+N
WCAJ	*	500	I
WEEL	†	1000	N
WKZO	*	1000	D
WOW	*	1000	1N
XEZ	*	500	588

Havana, Cuba  
Spokane, Wash.  
Lincoln, Nebr.  
Boston, Mass.  
Kalamazoo, Mich.  
Omaha, Nebr.  
Mexico City

Columbus Commercial & Radio Co. Louis Wasmer, Inc. Nebraska Wesleyan University Edison Elec. Illuminating Co. WKZO, Inc. Woodmen of the World Gonzales Zamacona y Cia.		

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

### 600 kilocycles 499.7 meters

CNRO	†	500	--
KFSD	*	500	+N
WCAC	†	250	2+
WCAO	†	250	C
WICC	*	250	2+
WMT	*	500	C
WREC	*	500	+C

Ottawa, Ont.  
San Diego, Cal.  
Storrs, Conn.  
Baltimore, Md.  
Bridgeport, Conn.  
Waterloo, Iowa  
Memphis, Tenn.

78 Canadian National Railways Airfan Radio Corp. Conn. Agricultural College Monumental Radio, Inc. Bridgeport Broadcasting Station, Inc. Waterloo Broadcasting Co. WREC, Inc.		

### 610 kilocycles 491.5 meters

KFRC	*	1000	C
WDAF	*	1000	N
WFAN	*	500	2C
WIP	*	500	2C
WJAY	†	500	D

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

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

### 620 kilocycles 483.6 meters

CMCJ	--	250	--
KGW	*	1000	+N
KTAR	*	500	+N
WFLA	*	1000	1+N
WLBZ	†	500	C
WSUN	*	1000	1+N
WTMJ	*	1000	+N

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

Rafael Rodriguez Oregonian Publishing Co. KTAR Broadcasting Co. Chamber of Commerce Maine Broadcasting Co., Inc. Chamber of Commerce Milwaukee Journal		

### 630 kilocycles 475.9 meters

CFCT	*	50	--
CHCS	--	500	2+
CJGX	--	500	--
CKOC	--	1000	2--
CNRA	*	500	--
KFRU	*	500	1--
WGBF	†	500	I
WMAL	*	250	+C
WOS	*	500	I

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

Victoria Broadcasting Association The Hamilton Spectator Winnipeg Grain Exchange Wentworth Radio Broadcasting Co. Canadian National Railways Stevens College Evansville on the Air, Inc. M. A. Leese State Marketing Bureau		

### 640 kilocycles 468.5 meters

CHRC	--	100	645
CKCI	†	100	645
CKCR	--	50	645
CMHJ	--	40	645
KFI	*	50000	N
WAIU	*	500	C Dn
WOI	*	5000	D
XFG	--	2000	638

Quebec, Que.  
Quebec, Que.  
Waterloo, Ont.  
Cienfuegos, Cuba  
Los Angeles, Cal.  
Columbus, Ohio  
Ames, Iowa  
Mexico City

E. Fontaine Le "Soleil," Ltd. John Patterson Arturo Hernandez Earle C. Anthony, Inc. Associated Radiocasting Corp. State College of Agriculture Secretaria de Guerra y Marina		

### 650 kilocycles 461.3 meters

KPCB	*	100	Dn
WSM	*	5000	N

Seattle, Wash.  
Nashville, Tenn.

Queen City Broadcasting Co. National Life & Accident Ins. Co.		

### 660 kilocycles 454.3 meters

CHWK	†	100	665
CJRM	†	500	665
CJRW	--	500	665
CMCO	--	250	--
CMDC	--	500	--
RUS	--	500	664
WAAW	†	500	D
WEAF	†	50000	N□
WTIC	*	5000	N□

Chilliwack, B. C.  
Moose Jaw, Sask.  
Fleming, Sask.  
Havana, Cuba  
Havana, Cuba  
Salvador  
Omaha, Nebr.  
New York City  
Hartford, Conn.

Chilliwack Broadcasting Co., Ltd. Jas. Richardson & Sons, Ltd. Jas. Richardson & Sons, Ltd. J. L. Stowers Juan Fernandez de Castro Republic of El Salvador Omaha Grain Exchange National Broadcasting Co., Inc. Travelers Broadcasting Service, Inc.		

### 670 kilocycles 447.5 meters

HIX	--	100	669
VOWR	--	500	675
WMAQ	*	5000	N

Santo Domingo  
St. Johns, N. F.  
Chicago, Ill.

Dominican Republic Wesley United Church National Broadcasting Co.		

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 680 kilocycles 440.9 meters

KFEQ	*	2500	D	St. Joseph, Mo.
KPO	†	5000	N	San Francisco, Cal.
WPTF	*	1000	N Dn	Raleigh, N. C.
XETF	--	500	685	Veracruz, Mexico

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Scroggin & Co., Bank  
Hale Bros. & The Chronicle  
Durham Life Insurance Co.  
Manuel Angel Fernandez & Cia

### 690 kilocycles 434.5 meters

CFAC	--	500	1	Calgary, Alta.
CFRB	--	5000	2C	Toronto, Ont.
CJCI	*	500	1	Calgary, Alta.
CNRX	*	5000	2	Toronto, Ont.
NAA	--	1000	---	Arlington, Va.
VAS	†	10000	685	Glace Bay, N. S.
XET	†	500	---	Monterrey, Mexico

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The Calgary Herald  
Rogers-Majestic Corp., Ltd.  
Albertan Publishing Co., Ltd.  
Canadian National Railways  
U. S. Navy  
Canadian Marconi Co.  
Mexico Music Co., S. A.

### 700 kilocycles 428.3 meters

WLW	*	50000	N	Cincinnati, Ohio
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Crosley Radio Corp.

### 710 kilocycles 422.3 meters

KMPC	*	500	Dn	Beverly Hills, Cal.
WOR	*	5000	---	Newark, N. J.
XEN	†	1000	711	Mexico City

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R. S. MacMillan  
Bamberger Broadcasting Service, Inc  
Cia. Civil de Inversiones

### 720 kilocycles 416.4 meters

WGN	†	25000	C	Chicago, Ill.
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Chicago Tribune

### 730 kilocycles 410.7 meters

CHLS	--	50	1	Vancouver, B. C.
CHYC	--	5000	2S	Montreal, Que.
CKAC	*	5000	2C	Montreal, Que.
CKCD	--	50	1	Vancouver, B. C.
CKFC	--	50	1	Vancouver, B. C.
CKMO	†	100	1	Vancouver, B. C.
CKWX	†	100	1	Vancouver, B. C.
CMK	--	3150	---	Havana, Cuba
CNRM	--	5000	2	Montreal, Que.
XEM	†	500	---	Tampico, Mexico
XER	--	75000	735	Villa Acuna, Mex.

30		
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W. G. Hassell  
Northern Electric Co., Ltd.  
La Presse Publishing Co., Ltd.  
Vancouver Daily Province  
United Church of Canada  
Sprott-Shaw Radio Co.  
A. Holstead & Wm. Hanlon  
Cuban Broadcasting Co., Hotel Plaza  
Canadian National Railways  
Herbert H. Denny y Cia.  
Dr. John R. Brinkley

### 740 kilocycles 405.2 meters

KMMJ	*	1000	Dn	Clay Center, Nebr.
WSB	--	5000	N	Atlanta, Ga.

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

### 750 kilocycles 399.8 meters

WJR	†	5000	N	Detroit, Mich.
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WJR, The Goodwill Station, Inc.

### 760 kilocycles 394.5 meters

KVI	*	1000	C Dn	Tacoma, Wash.
WBAL	*	1000	N □	Baltimore, Md.
WEW	*	1000	D	St. Louis, Mo.
WJZ	†	30000	N □	New York City

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Puget Sound Broadcasting Co., Inc.  
Consolidated Gas, Elec. & Power Co.  
St. Louis University  
National Broadcasting Co., Inc.

### 770 kilocycles 389.4 meters

KFAB	*	5000	1N	Lincoln, Nebr.
WBBM	*	25000	1C	Chicago, Ill.
WJBT	--	25000	1S	Chicago, Ill.

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KFAB Broadcasting Co.  
WBBM Broadcasting Corp.  
WJBT Broadcasting Corp.

### 780 kilocycles 384.4 meters

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

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Manitoba Telephone System  
Canadian National Railways  
Magnolia Park, Ltd.  
Pickwick Broadcasting Corp.  
Shepard Broadcasting Service, Inc.  
Memphis Commercial-Appeal, Inc.  
WTAR Radio Corp.  
WTAR Radio Corp.

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### 790 kilocycles 379.5 meters

CMBS	--	150	---	Havana, Cuba
CMBT	--	150	---	Havana, Cuba
CMHC	--	100	---	Tuinucu, Cuba
KGO	†	7500	N	San Francisco, Cal.
WGY	†	50000	N	Schenectady, N. Y.

415		
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Enrique Artalejo  
Emilio Perera  
Frank H. Jones  
National Broadcasting Co., Inc.  
General Electric Co.

### 800 kilocycles 374.8 meters

WBAP	†	10000	IXN	Fort Worth, Texas
WFAA	†	50000	1N	Dallas, Texas
XEU	--	101	---	Veracruz, Mexico
XFC	--	350	805	Aguascalientes, Mexico

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Cartier Publications, Inc.  
News & Journal  
Fernando Pazos  
Gobierno del Estado de Aguascalientes

KCYS.  
**880**

### 810 kilocycles 370.2 meters

WCCO	*	5000	C	Minneapolis, Minn.
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Northwestern Broadcasting, Inc.

MTRS.  
**340.7**

### 820 kilocycles 365.6 meters

WHAS	†	10000	N	Louisville, Ky.
XFI	--	1000	818	Mexico City

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Courier-Journal & Times  
Sria. de Ind., Comercio y Trabajo

DIAL

### 830 kilocycles 361.2 meters

CMGA	--	100	834	Colon, Cuba
KOA	†	12500	N	Denver, Colo.
WEEU	--	1000	DCP	Reading, Pa.
WHDH	--	1000	D	Boston, Mass.
WRUF	*	5000	Dn	Gainesville, Fla.

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

### 840 kilocycles 356.9 meters

CKGW	*	5000	1N	Toronto, Ont.
KCLC	†	1000	2	Red Deer, Alta.
CMC	*	500	---	Havana, Cuba
CNRD	†	1000	2	Red Deer, Alta.
CPRY	--	5000	1	Toronto, Ont.

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Gooderham & Worts, Ltd.  
Alberta Pacific Grain Co., Ltd.  
Cuban Telephone Co.  
Canadian National Railways  
Canadian Pacific Railways

### 850 kilocycles 352.7 meters

KWKH	*	10000	1	Shreveport, La.
WWL	*	5000	1	New Orleans, La.

345		
-----	--	--

Hello World Broadcasting Corp.  
Loyola University

### 860 kilocycles 348.6 meters

CMJE	--	20	856	Camaguey, Cuba
KMO	†	500	+ Dn	Tacoma, Wash.
WABC	*	50000	C	New York City
WBOQ	--	50000	---	New York City
WHB	*	500	D	Kansas City, Mo.
XEJ	*	101	857	Juarez, Mexico
XFX	--	500	---	Mexico City, Mexico

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Manuel Fernandez  
KMO, Inc.  
Atlantic Broadcasting Corp.  
Atlantic Broadcasting Corp.  
WHB Broadcasting Co.  
Juan Buttner  
Secretaria de Educacion Publica

### 870 kilocycles 344.6 meters

WENR	--	50000	1N	Chicago, Ill.
WLS	†	50000	1N	Chicago, Ill.

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National Broadcasting Co., Inc.  
Agricultural Broadcasting Co.

### 880 kilocycles 340.7 meters

CHML	*	50	4	Hamilton, Ont.
CJCB	*	50	---	Sydney, N. S.
CKCV	†	50	3	Quebec, Que.
CKPC	†	50	4	Preston, Ont.
CNRQ	†	50	3	Quebec, Que.
KFKA	†	500	2+	Greeley, Colo.
KLX	*	500	---	Oakland, Cal.
KPOF	*	500	2	Denver, Colo.
WCOC	*	500	+	Meridian, Miss.
WGBI	*	250	1	Scranton, Pa.
WQAN	*	250	1	Scranton, Pa.
WSUI	*	500	---	Iowa City, Iowa

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Maple Leaf Radio Co., Ltd.  
N. Nathanson  
G. A. Vandry  
Metal Shingle & Siding Co.  
Canadian National Railways  
Midwestern Radio Corp.  
Tribune Publishing Co.  
Pillar of Fire, Inc.  
Mississippi Broadcasting Co., Inc.  
Scranton Broadcasters, Inc.  
Scranton Times  
University of Iowa

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890 kilocycles 336.9 meters

CFBO	*	500	---	St. John, N. B.
CKCO	‡	100	3	Ottawa, Ont.
CKPR	--	50	3	Port Arthur, Ont.
CMCF	†	250	---	Havana, Cuba
CMX	*	500	---	Havana, Cuba
KFNF	--	500	2+	Shenandoah, Iowa
KGJF	*	250	---	Little Rock, Ark.
KUSD	*	500	2	Vermillion, S. D.
WGST	*	250	+C	Atlanta, Ga.
WILL	*	250	2+	Urbana, Ill.
WJAR	*	250	+N	Providence, R. I.
WKAQ	*	250	---	San Juan, P. R.
WMMN	*	250	+	Fairmount, W. Va.
XES	\$	500	---	Tampico, Mexico

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C. A. Munro, Ltd.  
Dr. G. M. Geldert  
Dougall Motor Car Corp.  
Raoul Karman  
Francisco Lavin  
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  
Holt-Rowe Broadcasting Co.  
Difusora Portena XES

900 kilocycles 333.1 meters

KGBU	†	500	---	Ketchikan, Alaska
KHJ	*	1000	C	Los Angeles, Cal.
KSEI	*	250	---	Pocatelli, Idaho
TIC	--	50	---	San Jose, Costa Rica
WBEN	--	1000	N	Buffalo, N. Y.
WJAX	*	1000	N	Jacksonville, Fla.
WKY	*	1000	N	Oklahoma City
WLBL	*	2000	DY	Stevens Point, Wis.

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Alaska Radio & Service Co.  
Don Lee, Inc.  
Radio Service Corp.

WBEN, Inc.  
City of Jacksonville  
WKY Radiophone Co.  
Wisconsin Dept. of Markets

910 kilocycles 329.6 meters

CFLC	*	50	915	Prescott, Ont.
CFQC	--	500	1	Saskatoon, Sask.
CHNS	*	500	3Z	Halifax, N. S.
CJGC	*	5000	2	London, Ont.
CNRH	--	500	3Z	Halifax, N. S.
CNRL	--	5000	2	London, Ont.
CNRS	--	500	1	Saskatoon, Sask.
XEW	†	5000	---	Mexico City

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Radio Association  
The Electric Shop, Ltd.  
Halifax Herald, Ltd.  
Free Press Printing Co., Ltd.  
Canadian National Railways  
Canadian National Railways  
Canadian National Railways  
Mexico Music Co.

920 kilocycles 325.9 meters

HHK	*	1000	---	Port au Prince, Haiti
KFEL	†	500	1	Denver, Colo.
KFXF	*	500	1	Denver, Colo.
KOMO	†	1000	N	Seattle, Wash.
KPRC	--	1000	+N	Houston, Texas
WAAF	--	500	D	Chicago, Ill.
WBSO	--	500	D	Needham, Mass.
WWJ	†	1000	N	Detroit, Mich.
XFF	--	250	915	Chihuahua, Mexico

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Republic of Haiti  
Eugene P. O'Hallan, Inc.  
Colorado Radio Corp.  
Fisher's Blend Station, Inc.  
Houston Printing Co.  
Drovers' Journal Publishing Co.  
Babson Statistical Organization, Inc.  
The Detroit News  
Gobierno del Estado de Chihuahua

930 kilocycles 322.4 meters

CFCH	--	100	3	North Bay, Ont.
CFRC	--	50	3+	Kingston, Ont.
CJCA	*	500	---	Edmonton, Alta.
CMCD	--	250	925	Havana, Cuba
CMCN	--	250	925	Havana, Cuba
CMJF	--	50	---	Camaguey, Cuba
KFWI	†	500	1	San Francisco, Cal.
KGBZ	--	500	2+	York, Nebr.
KMA	*	500	2+	Shenandoah, Iowa
KROW	*	500	1+X	Oakland, Cal.
WBRC	*	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WIBG	*	25	S	Elkins Park, Pa.

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Northern Supplies, Ltd.  
Queen's University  
The Edmonton Journal, Ltd.  
Angel Bertermaty  
Antonio Ginard  
John L. Stowers  
Radio Entertainments, Inc.  
Dr. George R. Miller  
May Seed & Nursery Co.  
Educational Broadcasting Corp.  
Birmingham Broadcasting Co., Inc.  
Times-World Corp.  
St. Paul's P. E. Church.

940 kilocycles 319.0 meters

KGU	†	1000	---	Honolulu, Hawaii
KOIN	*	1000	C	Portland, Oregon
KZRC	--	500	937.5	Cebu, P. I.
WAAT	--	300	D	Jersey City, N. J.
WCSH	*	1000	N	Portland, Maine
WDAY	*	1000	N	Fargo, N. D.
WFIW	*	1000	C	Hopkinsville, Ky.
WHA	--	750	D+	Madison, Wis.
XEO	--	5000	---	Mexico City

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Marion A. Mulrony  
KOIN, Inc.

Bremer Broadcasting Corp.  
Congress Square Hotel Co.  
WDAY, Inc.  
WFIW, Inc.  
University of Wisconsin  
National Revolucionario Party

950 kilocycles 315.6 meters

CMHD	--	250	---	Caibarien, Cuba
KFWB	*	1000	---	Hollywood, Cal.

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Manuel Alvarez  
Warner Bros. Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

KGHL -- 1000 ---  
 KMBC \* 1000 C  
 T14NRH -- 75 948  
 WRC † 500 N

Billings, Mont.  
 Kansas City, Mo.  
 Heredia, C. R.  
 Washington, D. C.

Northwestern Auto Supply Co., Inc.  
 Midland Broadcasting Co., Inc.  
 Armando Cespedes  
 National Broadcasting Co., Inc.

960 kilocycles 312.3 meters

CFCL -- 500 2S  
 CHCK -- 100 ---  
 CHWC \* 500 3  
 CJBR -- 500 3  
 CKCK † 500 3  
 CKCL \* 500 2  
 CKNC \* 500 2  
 CMBC -- 150 965  
 CMDB -- 150 965  
 CNRR -- 500 3  
 XED \* 1000 965

Toronto, Ont.  
 Charlottetown, P. E. I.  
 Regina, Sask.  
 Regina, Sask.  
 Regina, Sask.  
 Toronto, Ont.  
 Toronto, Ont.  
 Havana, Cuba  
 Havana, Cuba  
 Regina, Sask.  
 Reynosa, Mexico

Blank box  
 Blank box  
 Blank box  
 Dominion Battery Co.  
 W. E. Burke  
 R. H. Williams & Sons, Ltd.  
 Cooperative Wheat Producers, Ltd.  
 Leader Publishing Co., Ltd.  
 The Dominion Battery Co.  
 Canadian National Carbon Co., Ltd.  
 Domingo Fernandez  
 Luis Perez Garcia  
 Canadian National Railways  
 International Broadcasting Co.

970 kilocycles 309.1 meters

CMGF -- 50 977  
 KJR -- 5000 N  
 WCFL -- 1500 N Dn

Matanzas, Cuba  
 Seattle, Wash.  
 Chicago, Ill.

Blank box  
 Blank box  
 Blank box  
 Bernabe R. de la Torre  
 Northwest Broadcasting System, Inc.  
 Chicago Federation of Labor

980 kilocycles 305.9 meters

CFCN -- 10000 985  
 KDKA -- 50000 N  
 XEFE -- 101 ---

Calgary, Alta.  
 Pittsburgh, Pa.  
 Laredo, Mexico

232  
 Blank box  
 Blank box  
 Western Broadcasting Co.  
 Westinghouse Elec. & Mfg. Co.  
 Rafael T. Carranza

KCYS.  
 1040

MTRS.  
 288.3

990 kilocycles 302.8 meters

WBZ-A † 25000 1N  
 XEK -- 101 ---

Springfield-Boston  
 Mexico City

Blank box  
 Blank box  
 Blank box  
 Westinghouse Elec. & Mfg. Co.  
 Arturo Martinez

DIAL

1000 kilocycles 299.8 meters

KFVD \* 250 Dn  
 WHO \* 5000 1N  
 WOC \* 5000 1N  
 XEI \* 101 ---

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

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

1010 kilocycles 296.8 meters

CKIC -- 50 ---  
 CMWB -- 150 ---  
 CMBZ -- 150 ---  
 KGGF † 500 2  
 KQW \* 500 ---  
 WHN \* 250 1  
 WIS \* 500 +N  
 WLAP † 250 C  
 WNAD \* 500 2  
 WPAP \* 250 1  
 WQAO -- 250 1  
 WRNY -- 250 1  
 XEQ -- 1000 1015

Wolfville, N. S.  
 Havana, Cuba  
 Havana, Cuba  
 S. Coffeyville, Okla.  
 San Jose, Cal.  
 New York City  
 Columbia, S. C.  
 Louisville, Ky.  
 Norman, Okla.  
 New York City  
 New York City  
 New York City  
 Juarez, Mexico

Blank box  
 Blank box  
 Blank box  
 Acadia University  
 Modesto Alvarez  
 Manual y G. Salas  
 Powell & Platz  
 Pacific Agricultural Foundation, Ltd.  
 Marcus Loew Booking Agency  
 South Carolina Broadcasting Co., Inc.  
 American Broadcasting Corp. of Ky.  
 University of Oklahoma  
 Palisades Amusement Park  
 Calvary Baptist Church  
 Aviation Radio Station, Inc.  
 Feliciano Lopez Islas

1020 kilocycles 293.9 meters

CMJH -- 15 1017  
 KFKX \* 10000 1N  
 KYW \* 10000 1N  
 WRAX † 250 D

Ciego de Avila, Cuba  
 Chicago, Ill.  
 Chicago, Ill.  
 Philadelphia, Pa.

Blank box  
 Blank box  
 Blank box  
 Luis Marauri  
 Westinghouse Elec. & Mfg. Co.  
 Westinghouse Elec. & Mfg. Co.  
 WRAX Broadcasting Co.

1030 kilocycles 291.1 meters

CFCF -- 500 N  
 CMKC \* 150 1034  
 CNRV † 500 ---  
 XEB † 1000 ---  
 XEV -- 101 1034

Montreal, Que.  
 Santiago de Cuba  
 Vancouver, B. C.  
 Mexico City, Mexico  
 Puebla, Mexico

Blank box  
 Blank box  
 Blank box  
 Canadian Marconi Co.  
 M. P. Martinez  
 Canadian National Railways  
 El Buen Tono, S. A.  
 Ciro Molina

1040 kilocycles 288.3 meters

KRLD \* 10000 1C  
 KTHS † 10000 1N  
 WKAR \* 1000 D  
 WMAK \* 1000 Dn

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

Blank box  
 Blank box  
 Blank box  
 KRLD Radio Corp.  
 Chamber of Commerce  
 Michigan State College  
 Buffalo Broadcasting Corp.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1050 kilocycles 285.5 meters

KFBI	*	5000	Dn	Milford, Kansas
KNX	*	5000	---	Hollywood, Cal.

193			
Farmers & Bankers Life Insurance Co. Western Broadcast Co.			

### 1060 kilocycles 282.8 meters

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

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

### 1070 kilocycles 280.2 meters

CMBG	--	150	---	Havana, Cuba
CMCB	--	150	---	Havana, Cuba
KJBS	*	100	D	San Francisco, Cal.
WCAZ	*	50	D	Carthage, Ill.
WDZ	†	100	D	Tuscola, Ill.
WTAM	*	5000	N	Cleveland, Ohio

Francisco Garrigo Antonio Capablanca Julius Brunton & Sons Co. Superior Broadcasting Service James L. Bush National Broadcasting Co., Inc.			

### 1080 kilocycles 277.6 meters

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

Station WBT, Inc. Wilbur Glenn Voliva Moody Bible Institute			

### 1090 kilocycles 275.1 meters

KMOX	*	5000	C	St. Louis, Mo.
XEL	--	10	1091	Salttillo, Mexico

Voice of St. Louis, Inc. Antonio Garza Castro			

### 1100 kilocycles 272.6 meters

KGDM	*	250	DX	Stockton, Cal.
WLWL	*	5000	1	New York City
WPG	*	5000	1C	Atlantic City, N. J.

17			
E. F. Peffer Missionary Society of St. Paul WPG Broadcasting Corp.			

### 1110 kilocycles 270.1 meters

CMHI	--	15	---	Santa Clara, Cuba
KS00	*	2500	Dn	Sioux Falls, S. D.
WRVA	*	5000	N	Richmond, Va.
XEH	--	5000	---	Monterrey, Mexico

Laviz y Paz Sioux Falls Broadcasting Assn., Inc. Larus & Bros. Co., Inc. Tarnava y Cia.			

### 1120 kilocycles 267.7 meters

CFCA	†	500	4	Toronto, Ont.
CFJC	*	100	---	Kamloops, B. C.
CHGS	*	100	---	Summerside, P. E. I.
CJOC	†	100	---	Lethbridge, Alta.
CNRT	*	500	4	Toronto, Ont.
KFIO	†	100	D	Spokane, Wash.
KFSG	*	400	3	Los Angeles, Cal.
KMCS	*	500	3Y	Inglewood, Cal.
KRSC	†	50	D	Seattle, Wash.
KTRH	*	500	2C	Houston, Texas
WDBO	*	500	+C	Orlando, Fla.
WDEL	†	250	+X	Wilmington, Del.
WHAD	*	250	1	Milwaukee, Wis.
WISN	†	250	1C	Milwaukee, Wis.
WTAW	*	500	2	College Station, Texas

Star Pub. & Ptg. Co. N. S. Dagleish & Sons R. T. Holman, Ltd. Harold R. Carson Canadian National Railways 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			

### 1130 kilocycles 265.3 meters

KSL	*	5000	N	Salt Lake City
WJJD	*	2000	C Dn	Mooseheart, Ill.
WQV	--	1000	D	New York City
XEE	*	105	---	Oaxaca, Mexico

Radio Service Corp. of Utah Loyal Order of Moose International Broadcasting Corp. Alfonso Zorilla B.			

### 1140 kilocycles 263.0 meters

KVOO	*	5000	1N	Tulsa, Okla.
WAPI	*	5000	1N	Birmingham, Ala.
XETA	--	500	---	Mexico City

Southwestern Sales Corp. Alabama Polytechnic Institute Manuel Espinosa Tagle			

### 1150 kilocycles 260.7 meters

CMCQ	--	600	---	Havana, Cuba
CMQ	†	250	---	Havana, Cuba
WHAM	*	5000	N	Rochester, N. Y.

Andres Martinez Jose Fernandez Stromberg-Carlson Tel. Mfg. Co.			



INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

WWOW \* 10000 1C  
 WWVA \* 5000 1C

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

Main Auto Supply Co.  
 West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

WCAU \* 10000 C

Philadelphia, Pa.

Universal Broadcasting Co.

1180 kilocycles 254.1 meters

KEX \* 5000 2N  
 KOB \* 20000 2Y  
 WDGY \* 1000 1 Dn  
 WGBS † 500 ---  
 WMAZ † 500 ---

Portland, Ore.  
 State College, N. M.  
 Minneapolis, Minn.  
 New York City  
 Macon, Ga.

Western Broadcasting Co.  
 College of Agriculture & Mech. Arts  
 Dr. George W. Young  
 American Radio News Corp.  
 Southeastern Broadcasting Co., Inc.

1190 kilocycles 252.0 meters

WOAI \* 50000 N

San Antonio, Texas

Southern Equipment Co.

1200 kilocycles 249.9 meters

CKOV -- 100  
 CMGB -- 7.5 1205  
 CMJA -- 30  
 KBTM -- 100 D  
 KFJB † 100 +  
 KFWF -- 100 5+  
 KGDE \* 100 +  
 KGDY -- 100  
 KGDK † 100 9  
 KGEW † 100 9  
 KGFJ -- 100 ---  
 KGHI \* 100 ---  
 KGY † 10 +  
 KMLB -- 100 D  
 KSMR -- 100 Y  
 KVOS \* 100  
 KWG \* 100 ---  
 WABI † 100 ---  
 WABZ \* 100 1  
 WBBZ \* 100 ---  
 WBHS -- 50 10CP  
 WCAT † 100 ---  
 WCAx \* 100 2  
 WCLO \* 100 ---  
 WCOD † 100 3  
 WEPS † 100 7  
 WFAM \* 100 8  
 WFBC \* 50 10  
 WFBE † 100 +  
 WHBC † 10 4S  
 WHBY † 100 ---  
 WIBX \* 100 +  
 WIL \* 100 5+  
 WJBC \* 100 6  
 WJBL † 100 1  
 WJBW † 100 3  
 WKJC \* 100 +  
 WLBG \* 100 4  
 WNBO † 100 ---  
 WNBW † 10 2  
 WNBX † 10 7CX  
 WORC \* 100 ---  
 WRBL † 50 ---  
 WWAE \* 100 8  
 XEA -- 101 ---

Kelowna, B. C.  
 Matanzas, Cuba  
 Camaguey, Cuba  
 Paragould, Ark.  
 Marshalltown, Iowa  
 St. Louis, Mo.  
 Fergus Falls, Minn.  
 Huron, S. D.  
 Yuma, Colo.  
 Fort Morgan, Colo.  
 Los Angeles, Cal.  
 Little Rock, Ark.  
 Lacey, Wash.  
 Monroe, La.  
 Santa Maria, Cal.  
 Bellingham, Wash.  
 Stockton, Cal.  
 Bangor, Maine  
 New Orleans, La.  
 Ponca City, Okla.  
 Huntsville, Ala.  
 Rapid City, S. D.  
 Burlington, Vt.  
 Janesville, Wis.  
 Harrisburg, Pa.  
 Worcester, Mass.  
 South Bend, Ind.  
 Knoxville, Tenn.  
 Cincinnati, Ohio  
 Canton, Ohio  
 Green Bay, Wis.  
 Utica, N. Y.  
 St. Louis, Mo.  
 La Salle, Ill.  
 Decatur, Ill.  
 New Orleans, La.  
 Lancaster, Pa.  
 Petersburg, Va.  
 Washington, Pa.  
 Carbondale, Pa.  
 Springfield, Vt.  
 Worcester, Mass.  
 Columbus, Ga.  
 Hammond, Ind.  
 Guadalajara, Mexico

J. W. B. Browne  
 Jose Anorga  
 Pedro Nogueras  
 W. J. Beard's Temple of Music  
 Marshall Electric Co., Inc.  
 St. Louis Truth Center, Inc.  
 Jarett Drug Co.  
 Voice of South Dakota  
 Beehler Elec. Equipment Co.  
 City of Fort Morgan  
 Ben S. McGlashan  
 O. A. Cook  
 St. Marten's College  
 J. C. Liner  
 Santa Maria Radio  
 KVOS, Inc.  
 Portable Wireless Tel. Co., Inc.  
 Pine Tree Broadcasting Corp.  
 Samuel D. Reeks  
 C. L. Carrell  
 The Hutchens Co.  
 State School of Mines  
 Burlington Daily News  
 WCLO Radio Corp.  
 Keystone Broadcasting Corp.  
 Alfred Frank Kleindienst  
 South Bend Tribune  
 First Baptist Church  
 Post Publishing Co.  
 St. John's Catholic Church  
 St. Norbert's College  
 WIBX, Inc.  
 Missouri Broadcasting Corp.  
 Kaskaskia Broadcasting Co.  
 Commodore Broadcasting, Inc.  
 Charles C. Carlson, Jr.  
 Lancaster Brdcastg. Service Inc.  
 WLBG, Inc.  
 John Brownlee Spriggs  
 Home Cut Glass & China Co.  
 First Congregational Church  
 Alfred Frank Kleindienst  
 WRBL Radio Station, Inc.  
 Hammond-Calumet, Broad. Corp.  
 Alberto Palos Sauza

KCY.S.  
 1210  
 MTRS.  
 247.8  
 DIAL

1210 kilocycles 247.8 meters

CFCO -- 100 8  
 CFNB \* 100 ---  
 CTOR \* 500 ---  
 CKMC -- 100 8  
 KDFN † 100 ---

Chatham, Ont.  
 Fredericton, N. B.  
 Vancouver, B. C.  
 Ccball, Ont.  
 Casper, Wyo.

Western Ontario "Better Radio" Club  
 James S. Neill & Sons, Ltd.  
 G. C. Chandler  
 R. L. MacAdam  
 Donald Lewis Hathaway

## INDEX BY FREQUENCIES AND DIAL NUMBERS

KDLR	†	100	---	Devil's Lake, N. D.	KDLR, Inc.
KFOR	*	100	+	Lincoln, Nebr.	Howard A. Shuman
KFVS	*	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.	Greater Kampeska Radio Corp.
KGNO	*	100	---	Dodge City, Kansas	Dodge City Broadcasting Co.
KMJ	*	100	---	Fresno, Cal.	James McClatchy Co.
KPPC	§	50	9	Pasadena, Cal.	Pasadena Presbyterian Church
KWEA	*	100	---	Shreveport, La.	Hello World Broadcasting Corp.
WALR	*	100	---	Zanesville, Ohio	Roy W. Waller
WBAX	*	100	1	Wilkes-Barre, Pa.	John H. Stenger, Jr.
WBBL	†	100	7S	Richmond, Va.	Grace Covenant Pres. Church
WBBS	*	100	2	Springfield, Ill.	H. L. Dewing & Chas. Messter
WCOH	*	100	3	Yonkers, N. Y.	Westchester Broadcasting Corp.
WCRW	*	100	4	Chicago, Ill.	Clinton R. White
WEBQ	*	100	6	Harrisburg, Ill.	First Trust & Savings Bank
WEDC	--	100	4	Chicago, Ill.	Emil Denemark, Inc.
WGBB	*	100	3	Freeport, N. Y.	Harry H. Carman
WGCM	*	100	---	Gulfport, Miss.	Great Southern Land Co., Inc.
WHBF	*	100	---	Rock Island, Ill.	Beardsley Specialty Co.
WHBU	†	100	---	Anderson, Ind.	Anderson Broadcasting Corp.
WIBU	*	100	---	Poynette, Wis.	Wm. C. Forrest
WJBI	--	100	3	Red Bank, N. J.	Monmouth Broadcasting Co.
WJBU	*	100	1	Lewisburg, Pa.	Bucknell University
WJBY	*	100	3	Gadsden, Ala.	Gadsden Broadcasting Co., Inc.
WJW	*	100	---	Mansfield, Ohio	Mansfield Broadcasting Assn.
WLCI	*	50	---	Ithaca, N. Y.	Lutheran Assn. of Ithaca
WMBG	*	100	7	Richmond, Va.	Havens & Martin, Inc.
WMRJ	*	100	3	Jamaica, N. Y.	Peter J. Prinz
WOCL	*	50	---	Jamestown, N. Y.	A. E. Newton
WOMT	*	100	---	Manitowoc, Wis.	Francis M. Kadow
WPAW	*	100	5	Pawtucket, R. I.	Shartenburg & Robinson Co.
WPRO	*	100	5	Providence, R. I.	Cherry & Webb Broadcasting Co.
WQDX	*	100	---	Thomasville, Ga.	Stevens Luke
WRBQ	†	100	+	Greenville, Miss.	J. Pat. Scully
WSBC	*	100	4	Chicago, Ill.	World Battery Co., Inc.
WSEN	†	100	---	Columbus, Ohio	Columbus Broadcasting Co.
WSIX	*	100	---	Springfield, Tenn.	638 Tire & Vulcanizing Co.
WSOC	†	100	---	Gastonia, N. C.	WSOC, Inc.
WTAX	†	100	2	Springfield, Ill.	WTAX, Inc.
XEX	--	500	---	Mexico City	Excelsior, Cia Editorial S. A.

### 1220 kilocycles 245.8 meters

CMBY	--	350	1225	Havana, Cuba	
CMCA	--	150	1225	Havana, Cuba	Callejas-Coscolluela
KFKU	*	500	1	Lawrence, Kansas	Manuel Cruz
KTW	--	1000	---	Seattle, Wash.	University of Kansas
KWSC	*	1000	+	Pullman, Wash.	First Presbyterian Church
WCAD	*	500	D	Canton, N. Y.	State College of Washington
WCAE	*	1000	N	Pittsburgh, Pa.	St. Lawrence University
WDAE	*	1000	C	Tampa, Fla.	WCAE, Inc.
WREN	*	1000	1N	Lawrence, Kansas	Tampa Publishing Co.

--	--	--

Jenny Wren Co.

### 1230 kilocycles 243.8 meters

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

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South Bend Tribune

### 1240 kilocycles 241.8 meters

CMAB	--	20	1249	Pinar del Rio, Cuba	Francisco Martinez
KGCU	--	250	3	Mandan, N. D.	Mandan Radio Assn.
KLPM	†	250	3	Minot, N. D.	John B. Cooley
KTAT	†	1000	1	Ft. Worth, Texas	S. A. T. Broadcast Co.
WACO	†	1000	1C	Waco, Texas	Central Texas Broadcasting Co., Inc.
WXYZ	†	1000	C	Detroit, Mich.	Kunsky-Trendle Broadcasting Corp.

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Kunsky-Trendle Broadcasting Corp.

### 1250 kilocycles 239.9 meters

KFMX	†	1000	2	Northfield, Minn.	Carleton College
KFOX	*	1000	---	Long Beach, Cal.	Nichols & Warinner, Inc.

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Nichols & Warinner, Inc.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

WAAM	*	1000	1+X	Newark, N. J.
WCAL	*	1000	2	Norhfield, Minn.
WDSU	†	1000	C	New Orleans, La.
WGCP	*	250	1	Newark, N. J.
WLB	†	1000	2	St. Paul, Minn.
WODA	†	1000	1	Paterson, N. J.
WRHM	*	1000	2	Minneapolis, Minn.
XEFA	--	250	---	Mexico City

WAAM, Inc.  
St. Olaf College  
Jos. H. Uhalt  
May Radio Broadcast Corp.  
University of Minnesota  
Richard E. O'Dea  
Minnesota Broadcasting Corp.  
Luis F. Murguia

### 1260 kilocycles 238.0 meters

KOIL	*	1000	C	Council Bluffs, Iowa
KRGV	*	500	1	Harlingen, Texas
KVOA	†	500	D	Tucson, Arizona
KWWG	*	500	1	Brownsville, Texas
WLBW	*	500	C+	Oil City, Pa.
WTOC	*	500	C	Savannah, Ga.

Mona Motor Oil Co.  
KRGV, Inc.  
Robert M. Riculfi  
Herald Pub. Co.  
Radio-Wire Program Corp.  
Savannah Broadcasting Co.

### 1270 kilocycles 236.1 meters

KGCA	†	50	2D	Decorah, Iowa
KOL	†	1000	C	Seattle, Wash.
KVOR	*	1000	C	Colorado Springs, Colo.
KWLC	*	100	2D	Decorah, Iowa
WASH	*	500	1	Grand Rapids, Mich.
WEAI	*	1000	D	Ithaca, N. Y.
WFBR	--	500	N	Baltimore, Md.
WJDX	*	1000	N	Jackson, Miss.
WOOD	†	500	1	Grand Rapids, Mich.

Charles W. Greenley  
Seattle Broadcasting Co., Inc.  
Reynolds Radio Co., Inc.  
Luther College  
WASH Broadcasting Corp.  
Cornell University  
Baltimore Radio Show, Inc.  
Lamar Life Insurance Co.  
Kunsky-Trendle Broadcasting Corp.

### 1280 kilocycles 234.2 meters

CMCU	--	150	1285	Havana, Cuba
CMCW	--	150	1285	Havana, Cuba
KFBB	*	1000	+	Great Falls, Mont.
WCAM	*	500	1	Camden, N. J.
WCAP	*	500	1	Asbury Park, N. J.
WDOD	*	1000	+C	Chattanooga, Tenn.
WIBA	*	500	+N	Madison, Wis.
WOAX	*	500	1	Trenton, N. J.
WRR	†	500	C	Dallas, Texas

Jorge Garcia Serra  
Jose Lorenzo  
Buttrely Broadcast, Inc.  
City of Camden  
Radio Industries Broadcast Co.  
WDOD Broadcasting Corp.  
Badger Broadcasting Co.  
WOAX, Inc.  
City of Dallas

### 1290 kilocycles 232.4 meters

KDYL	†	1000	C	Salt Lake City
KFUL	--	500	1	Galveston, Texas
KLNC	--	50	D	Blytheville, Ark.
KTSA	†	1000	1+C	San Antonio, Texas
WEBC	*	1000	+N	Superior, Wis.
WJAS	*	1000	C+	Pittsburgh, Pa.
WNBZ	--	50	D	Saranac Lake, N. Y.

Intermountain Broadcasting Corp.  
News Publishing Co.  
C. L. Lintzenich  
Lone Star Broadcast Co.  
Head of Lake Broadcasting Co.  
Pittsburgh Radio Supply House  
Smith & Mace

KCYS.  
**1310**  
MTRS.  
**228.9**  
DIAL

### 1300 kilocycles 230.6 meters

KFAC	*	1000	4	Los Angeles, Cal.
KFH	*	1000	2C	Wichita, Kansas
KFJR	*	500	3	Portland, Ore.
KGEF	*	1000	4	Los Angeles, Cal.
KTBR	--	500	3	Portland, Ore.
WBBR	*	1000	1	Brooklyn, N. Y.
WEVD	*	500	1	New York City
WHAP	*	1000	1	New York City
WHAZ	*	500	1	Troy, N. Y.
WIOD	*	1000	N	Miami, Fla.
WOO	*	1000	2	Kansas City, Mo.
XETY	--	2000	---	Mexico City

Los Angeles Broadcasting Co.  
Radio Station KFHC  
Ashley C. Dixon—KFJR, Inc.  
Trinity Methodist Church  
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  
Juan Gutierrez, Jr.

### 1310 kilocycles 228.9 meters

KCRJ	†	100	D	Jerome, Arizona
KFBK	†	100	--	Sacramento, Cal.
KFGQ	†	100	7--	Boone, Iowa
KFIY	†	100	7	Ft. Dodge, Iowa
KFLP	†	100	---	Dublin, Texas
KFPM	*	15	--	Greenville, Texas
KFUP	--	100	8--	Denver, Colo.
KFXJ	†	100	8	Grand Junction, Colo.

Chas. C. Robinson  
Jas. McClatchy Co.  
Boone Biblical College  
Cedar Rapids Broadcast Co.  
C. C. Baxter  
The New Furniture Co.  
Fitzsimmons General Hospital  
Western Slope Broadcasting Co.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

KFXR	†	100	+	Oklahoma City	Exchange Ave. Baptist Church
KGBX	*	100	---	St. Joseph, Mo.	KGBX, Inc.
KGCCX	†	100	+	Wolf Point, Mont.	First State Bank of Vida
KGEZ	†	100	---	Kalispell, Mont.	Treloar-Church Broadcasting Co.
KGFW	†	100	Y	Ravenna, Nebr.	Central Nebraska Broadcasting Corp.
KIT	†	100	---	Yakima, Wash.	Carl E. Haymond
KMED	†	100	---	Medford, Ore.	Mrs. W. J. Virgin
KRMD	†	50	---	Shreveport, La.	Robert M. Dean
KTLCC	*	100	---	Houston, Texas	Houston Broadcasting Co.
KTSM	†	100	---	El Paso, Texas	W. S. Bledsoe & W. T. Blackwell
KWCR	†	100	7	Cedar Rapids, Iowa	Cedar Rapids Broadcast Co.
KXRO	†	100	---	Aberdeen, Wash.	KXRO, Inc.
WBEO	---	100	CP	Marquette, Mich.	Lake Superior Broadcasting Co.
WBOW	*	100	---	Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE	---	100	---	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	*	100	1	Joliet, Ill.	WCLS, Inc.
WDAH	†	100	2	El Paso, Texas	Bledsoe & Blackwell
WDEB	*	100	+	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WEXL	†	50	---	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG	*	100	3X	Altoona, Pa.	Wm. F. Gable Co.
WFDF	*	100	---	Flint, Mich.	Frank D. Fallain
WFDV	†	100	D	Rome, Ga.	Rome Broadcasting Corp.
WGAL	*	100	5	Lancaster, Pa.	WGAL, Inc.
WGH	*	100	---	Newport News, Va.	Hampton Roads Broadcasting Corp
WHAT	†	100	4	Philadelphia, Pa.	Independence Broadcasting Co.
WJAC	*	100	3	Johnstown, Pa.	Johnstown Automobile Co.
WJAK	*	50	6Y	Elkhart, Ind.	Truth Publishing Co., Inc.
WKAV	*	100	---	Laconia, N. H.	Laconia Radio Club
WKBB	*	100	1	Joliet, Ill.	Sanders Bros. Radio Station
WKBC	*	100	---	Birmingham, Ala.	R. B. Broyles Furniture Co
WKBS	*	100	---	Galesburg, Ill.	Permil N. Nelson
WLBC	†	50	6	Muncie, Ind.	Donald A. Burton
WMBO	†	100	---	Auburn, N. Y.	WMBO, Inc.
WNBH	*	100	---	New Bedford, Mass.	New Bedford Broadcasting Co.
WOL	*	100	---	Washington, D. C.	American Broadcasting Co.
WRAW	*	100	5X	Reading, Pa.	Reading Broadcasting Co.
WROL	†	100	---	Knoxville, Tenn.	Stewart Broadcasting Co.
WSAJ	*	100	---	Grove City, Pa.	Grove City College
WSJS	*	100	---	Winston-Salem, N. C.	Winston-Salem Journal Co.
WTEL	*	100	4	Philadelphia, Pa.	Foukrod Radio Engineering Co.
WTJS	†	100	+	Jackson, Tenn.	Sun Publishing Co.
WTSL	--	100	9	Laurel, Miss.	G. A. Houseman

### 1720 kilocycles 227.1 meters

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

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C. P. Ritchie & J. E. Finch  
 Honolulu Broadcasting Co., Ltd.  
 KID Broadcasting Co.  
 Radio Broadcasting Corp.  
 Allen T. Simmons  
 WSMB, Inc.

### 1330 kilocycles 225.4 meters

KGB	*	500	C	San Diego, Cal.	
KSCJ	*	1000	1+C	Sioux City, Iowa	Don Lee, Inc.
WDRC	*	500	C	Hartford, Conn.	Perkins Bros. Co.
WSAI	*	1000	N	Cincinnati, Ohio	WDR, Inc.
WTAQ	*	1000	1C	Eau Claire, Wis.	Crosley Radio Corp., Lessee
XEC	--	50	1333	Toluca, Mexico	Gillette Rubber Co.

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Don Lee, Inc.  
 Perkins Bros. Co.  
 WDR, Inc.  
 Crosley Radio Corp., Lessee  
 Gillette Rubber Co.  
 Jesus R. Benavides

### 1340 kilocycles 223.7 meters

CMCG	--	30	1345	Havana, Cuba	
CMCR	--	150	1345	Havana, Cuba	Jose Justo Moran
CMCY	--	100	1345	Havana, Cuba	Aurelio Hernandez
KFPY	†	50	D	Fort Smith, Ark.	M. D. Aufran
KFPW	†	1000	C	Spokane, Wash.	Southwestern Hotel Co.
WCOA	*	500	---	Pensacola, Fla.	Symons Broadcasting Co.
WSPD	*	1000	C	Toledo, Ohio	City of Pensacola

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Jose Justo Moran  
 Aurelio Hernandez  
 M. D. Aufran  
 Southwestern Hotel Co.  
 Symons Broadcasting Co.  
 City of Pensacola  
 Toledo Broadcasting Co.

### 1350 kilocycles 222.1 meters

KIDO	†	1000	---	Boise, Idaho	
KWK	*	1000	N	St. Louis, Mo.	Boise Broadcasting Station
WAWZ	*	250	1	Zarephath, N. J.	Thomas Patrick, Inc.
WBNX	--	250	1	New York City	Pillar of Fire
WCDA	*	250	1	New York City	Standard Cahill Co., Inc.
WEHC	*	500	D	Emory, Va.	Italian Educ. Broadcasting Co., Inc.
WMSSG	--	250	1	New York City	Emory & Henry College

<i>8 1/2</i>			
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Boise Broadcasting Station  
 Thomas Patrick, Inc.  
 Pillar of Fire  
 Standard Cahill Co., Inc.  
 Italian Educ. Broadcasting Co., Inc.  
 Emory & Henry College  
 Madison Sq. Garden Brdctg. Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

KGFR	*	1000	---
KGIR	†	500	---
WCSC	*	500	---
WFBL	*	1000	CX
WGBS	*	500	1+
WJKS	*	1000	1+
WQBC	†	500	D
XETO	--	101	---

Long Beach, Cal.
Butte, Montana
Charleston, S. C.
Syracuse, N. Y.
Chicago, Ill.
Gary, Ind.
Vicksburg, Miss.
Mexico City

Consolidated Broadcasting Corp.
KGIR, Inc.
Lewis Burk
Onondaga Radio Broadcasting Corp.
Oak Leaves Broadcasting Station, Inc.
Johnson-Kennedy Radio Corp.
Delta Broadcasting Co., Inc.
Ricardo Gonzales Montero

1370 kilocycles 218.7 meters

CMAC	--	30	1375
CMGE	--	30	1375
CMGH	--	150	---
HRB	--	2300	---
KCRC	†	100	2+
KFBL	*	50	3
KFJI	†	100	---
KFJM	†	100	---
KFJZ	*	100	---
KFLX	*	100	---
KGAR	†	100	+
KGDA	†	100	---
KGFG	†	100	2
KGFL	†	50	---
KGKL	†	100	---
KMAC	†	100	5
KONO	†	100	5
KOOS	*	100	---
KRE	--	100	6
KUJ	†	100	---
KVL	--	100	3
KWKC	--	100	---
WBCF	†	50	---
WBTM	†	100	7
WCBM	*	100	+Z
WELK	†	100	+
WGL	†	100	C
WHBD	†	100	---
WHBQ	†	100	---
WHDF	†	100	+
WIBM	--	100	1
WJBK	*	50	1
WJTL	--	100	Y
WLEY	--	100	+
WLVA	†	100	7
WMBR	†	100	---
WPOE	†	100	---
WQDM	*	100	D
WRAK	*	100	---
WRAM	*	100	---
WRBJ	†	10	X
WRDO	§	100	CP
WRJN	--	100	---
WSVS	*	50	---

Pinar del Rio, Cuba
Cardenas, Cuba
Matanzas, Cuba
Tegucigalpa, Hond.
Enid, Okla.
Everett, Wash.
Astoria, Ore.
Grand Forks, N. D.
Ft. Worth, Texas
Galveston, Texas
Tucson, Arizona
Mitchell, S. D.
Oklahoma City
Raton, N. M.
San Angelo, Texas
San Antonio, Texas
San Antonio, Texas
Marshfield, Ore.
Berkeley, Cal.
Walla Walla, Wash.
Seattle, Wash.
Kansas City, Mo.
Glens Falls, N. Y.
Danville, Va.
Baltimore, Md.
Philadelphia, Pa.
Fort Wayne, Ind.
Mount Orab, Ohio
Memphis, Tenn.
Calumet, Mich.
Jackson, Mich.
Detroit, Mich.
Tifton, Ga.
Lexington, Mass.
Lynchburg, Va.
Tampa, Fla.
Patchogue, N. Y.
St. Albans, Vt.
Williamsport, Pa.
Wilmington, N. C.
Hattiesburg, Miss.
Augusta, Maine
Racine, Wis.
Buffalo, N. Y.

Oscar S. Mechoso
Genaro Sebater
Alberto Alvarez
Enid Radiophone Co.
Leese Bros.
KFJI Broadcasters, Inc.
University of North Dakota
Estate of H. C. Meachem
George Roy Clough
Tucson Motor Service Co.
Mitchell Broadcasting Corp.
Oklahoma Broadcasting Co., Inc.
KGFL, Inc.
KGKL, Inc.
W. W. McAllister
Mission Broadcasting Co.
H. H. Hanseth, Inc.
First Congregational Church
KUJ, Inc.
KVL, Inc.
Wilson Duncan Broadcasting Co.
W. N. Parker and H. H. Metcalfe
Clarke Electric Co.
Baltimore Broadcasting Corp.
WELK Broadcasting Station, Inc.
Fred Z. Zieg
F. P. Moler
Broadcasting Station WHBQ, Inc.
Upper Michigan Broadcasting Co.
WIBM, Inc.
James F. Hopkins, Inc.
Oglethorpe University
Lexington Air Stations
Lynchburg Broadcasting Corp.
F. J. Reynolds
Nassau Broadcasting Corp.
A. J. St. Antoine
C. R. Cummins
Wilmington Radio Association
Hattiesburg Broadcasting Co.
WRDO, Inc.
Racine Broadcasting Corp.
Seneca Vocational School

1380 kilocycles 217.3 meters

CMJC	--	150	1382
KOH	†	500	C
KQV	†	500	2
KSO	*	500	1
WKBH	*	1000	1
WSMK	*	200	2

Camaguey, Cuba
Reno, Nevada
Pittsburgh, Pa.
Clarinda, Iowa
La Crosse, Wis.
Dayton, Ohio

Feliciano Isaac
The Bee, Inc.
KQV Broadcasting Co.
Iowa Broadcasting Co.
WKBH, Inc.
Stanley M. Krohn, Jr.

KCY.S.  
1400  
MTRS.  
214.2

1390 kilocycles 215.7 meters

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

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

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

DIAL

1400 kilocycles 214.2 meters

CMBI	--	30	1405
CMBN	--	30	1405
CMCH	--	15	1405
CMCM	--	15	1405
KLO	*	500	---

Havana, Cuba
Havana, Cuba
Havana, Cuba
Havana, Cuba
Ogden, Utah

Francisco Mayorquim
Armado Romeu
Hernani Torralbas
Martinez-Madico
Peery Building Co.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

KOCW	*	250	+
WBAA	*	500	1+
WBBC	*	500	2
WCGU	*	500	2
WCMA	†	500	1
WFOX	†	500	2
WKBF	†	500	1
WLTH	*	500	2
XEP	--	2500	--

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

College for Women  
Purdue University  
Brooklyn Broadcasting Corp.  
U. S. Broadcasting Corp.  
General Broadcasting Corp.  
Paramount Broadcasting Co.  
Indianapolis Broadcasting, Inc.  
The Voice of Brooklyn, Inc.  
La Voz Latino

### 1410 kilocycles 212.6 meters

KFLV	†	500	4
KGRS	*	1000	1
WAAB	*	500	C
WBMC	*	500	C
WDAG	*	1000	1
WHBL	*	500	4
WHIS	†	250	2
WODX	†	500	3
WRBX	†	250	2
WSPA	†	500	3

Rockford, Ill.  
Amarillo, Texas  
Boston, Mass.  
Bay City, Mich.  
Amarillo, Texas  
Sheboygan, Wis.  
Bluefield, W. Va.  
Mobile, Ala.  
Roanoke, Va.  
Montgomery, Ala.

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Rockford Broadcasters, Inc.  
Gish Radio Service  
Bay State Broadcasting Corp.  
James E. Davidson  
National Radio & Broadcasting Corp.  
Press Pub. Co.  
Daily Telegraph  
Mobile Broadcasting Corp.  
Richmond Development Corp.  
Montgomery Broadcasting Co., Inc.

### 1420 kilocycles 211.1 meters

KABC	†	100	--
KBPS	†	100	4
KFIZ	--	100	--
KFQU	*	100	5
KFQW	*	100	--
KFXD	*	100	--
KFX Y	--	100	--
KFY	†	100	+
KGFF	†	100	+
KGCG	†	100	--
KGW	†	100	5
KGIX	†	100	--
KGKX	†	100	--
KGVO	†	100	D
KICK	*	100	--
KORE	*	100	--
KXL	*	100	4
KX YZ	--	100	--
WAGM	--	100	CP
WDEV	--	50	D
WEDH	*	100	--
WEHS	*	100	2
WELL	†	50	X
WFDW	*	100	--
WHFC	†	100	2
WIAS	†	100	--
WIBR	†	50	--
WILM	*	100	--
WJBO	*	100	--
WJMS	*	100	CPD
WKBI	†	100	2
WLB F	†	100	--
WBMC	*	100	+
WMBH	--	100	+
WPAD	†	100	--
WSPA	*	100	+
WTBO	*	100	+

San Antonio, Texas  
Portland, Ore.  
Fond du Lac, Wis.  
Holy City, Cal.  
Seattle, Wash.  
Nampa, Idaho  
Flagstaff, Arizona  
Abilene, Texas  
Shawnee, Okla.  
San Francisco, Cal.  
Trinidad, Colo.  
Las Vegas, Nevada  
Sand Point, Idaho  
Missoula, Montana  
Red Oak, Iowa  
Eugene, Ore.  
Portland, Ore.  
Houston, Texas  
Presque Isle, Maine  
Waterbury, Vt.  
Erie, Pa.  
Cicero, Ill.  
Battle Creek, Mich.  
Anniston, Ala.  
Cicero, Ill.  
Ottumwa, Iowa  
Steubenville, Ohio  
Wilmington, Del.  
New Orleans, La.  
Ironwood, Mich.  
Cicero, Ill.  
Kansas City, Kansas  
Detroit, Mich.  
Joplin, Mo.  
Paducah, Ky.  
Spartanburg, S. C.  
Cumberland, Md.

Alamo Broadcasting Co.  
Benson Polytechnic Institute  
Reporter Printing Co.  
W. E. Riker  
KFQW, Inc.  
Frank E. Hurt  
Albert H. Scherman  
T. E. Kirksey  
KGFF Broadcasting Co.  
Golden Gate Broadcasting Co.  
Leonard E. Wilson  
Las Vegas, Nevada, Radio Corp.  
C. E. Twiss and F. H. McCann  
Mosby's Incorporated  
Red Oak Radio Corp.  
Eugene Broadcasting Station  
KXL Broadcasters, Inc.  
Harris County Broadcast Co.  
Aroostook Broadcasting Corp.  
Harry C. Whitehill  
Erie Dispatch-Herald  
WEHS, Inc.  
Enquirer-News Co.  
Raymond G. Hammett  
WHFC, Inc.  
Iowa Broadcasting Co.  
George W. Robinson  
Delaware Broadcasting Co., Inc.  
Valdemar Jensen  
Marius Johnson  
WKBI, Inc.  
WLB F Broadcasting Co.  
Michigan Broadcasting Co., Inc.  
Edwin Dudley Aber  
Paducah Broadcasting Co.  
Voice of South Carolina  
Associated Broadcasting Corp.

### 1430 kilocycles 209.7 meters

KECA	†	1000	N
KGNF	†	500	D
WBAK	†	500	1+
WCAH	†	500	C□
WFEA	--	500	CP
WGBC	*	500	2S
WHFC	*	500	C□
WHP	*	500	1C+□
WNBR	*	500	2
WOKO	†	500	C□

Los Angeles, Cal.  
North Platte, Nebr.  
Harrisburg, Pa.  
Columbus, Ohio  
Manchester, N. H.  
Memphis, Tenn.  
Rochester, N. Y.  
Harrisburg, Pa.  
Memphis, Tenn.  
Albany, N. Y.

Earle C. Anthony, Inc.  
Great Plains Broadcasting Co.  
Penna. State Police  
Commercial Radio Service Co.  
Rines Hotel Co.  
Memphis Broadcasting Co.  
Hickson Electric & Radio Corp.  
WHP, The Harrisburg Telegraph  
Memphis Broadcasting Co.  
WOKO, Inc.

### 1440 kilocycles 208.2 meters

KLS	*	250	D
WBIG	*	500	--
WCBA	*	250	1

Oakland, Cal.  
Greensboro, N. C.  
Allentown, Pa.

Warner Bros.  
North Carolina Broadcasting Co.  
B. B. Musselman

## INDEX BY FREQUENCIES AND DIAL NUMBERS

WMBD	*	500	3+	Peoria Heights, Ill.
WSAN	*	250	1	Allentown, Pa.
WTAD	†	500	3	Quincy, Ill.

Peoria Broadcasting Co.  
Allentown Call Publishing Co., Inc.  
Illinois Broadcasting Corp.

### 1450 kilocycles 206.8 meters

KTBS	*	1000	---	Shreveport, La.
WBMS	*	250	N	Hackensack, N. J.
WGAR	†	500	1	Cleveland, Ohio
WHOM	*	500	1	Jersey City, N. J.
WKBO	*	250	1	Jersey City, N. J.
WNJ	*	250	1	Newark, N. J.
WSAR	*	250	---	Fall River, Mass.
WTFI	--	500	---	Athens, Ga.

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

### 1460 kilocycles 205.4 meters

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

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National Battery Broadcasting Co.  
Independent Publishing Co.

### 1470 kilocycles 204.0 meters

KGA	†	5000	N	Spokane, Wash.
WLAC	*	5000	C	Nashville, Tenn.

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

### 1480 kilocycles 202.6 meters

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

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

### 1490 kilocycles 201.2 meters

TJW	--	7.5	---	Hamilton, Bermuda
WCHI	*	5000	1	Chicago, Ill.
WKY	*	5000	1N	Covington, Ky.
WJAZ	--	5000	1	Chicago, Ill.

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

### 1500 kilocycles 199.9 meters

CMBL	--	20	---	Havana, Cuba
CMBQ	--	50	---	Havana, Cuba
CMBR	--	15	---	Havana, Cuba
KDB	*	100	---	Santa Barbara, Cal.
KGFI	*	100	+	Corpus Christi, Texas
KGFK	†	50	---	Moorhead, Minn.
KGIZ	†	100	---	Grant City, Mo.
KGKB	†	100	---	Tyler, Texas
KGKY	*	100	---	Scottsbluff, Nebr.
KPJM	*	100	---	Prescott, Arizona
KPO	†	50	---	Wenatchee, Wash.
KREG	†	100	---	Santa Ana, Cal.
KUT	†	100	---	Austin, Texas
KXO	*	100	---	El Centro, Cal.
WDIX	†	100	---	Tupelo, Miss.
WKBV	*	100	+	Connersville, Ind.
WKBZ	*	50	---	Ludington, Mich.
WLBX	*	100	1	Long Island City, N. Y.
WLOE	*	100	+	Boston, Mass.
WMBB	†	100	---	Newport, R. I.
WMBQ	*	100	1	Brooklyn, N. Y.
WMIL	†	100	1	Brooklyn, N. Y.
WMPC	†	100	---	Lapeer, Mich.
WNB	*	100	---	Binghamton, N. Y.
WOP	*	100	---	Bristol, Tenn.
WPEN	*	100	+	Philadelphia, Pa.
WRDW	*	100	---	Augusta, Ga.
WSYB	†	100	---	Rutland, Vt.
WWRL	†	100	1	Woodside, N. Y.
WWSW	*	100	---	Pittsburgh, Pa.

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Julio C. Hidalgo  
Gali-Sardinas  
Tomas Basail  
Santa Barbara Broadcasters, Ltd.  
Eagle Broadcasting Co., Inc.  
Red River Broadcasting Co., Inc.  
Grant City Park Corp.  
Eagle Publishing Co.  
Hilliard Co., Inc.  
A. P. Miller  
Wescoast Broadcasting Co.  
J. S. Edwards  
KUT Broadcasting Co.  
E. R. Irely and F. M. Bowles  
North Mississippi Broadcasting Corp.  
Knox Battery & Electric Co.  
K. L. Ashbacher  
John N. Brahy  
Boston Broadcasting Co.  
LeRoy Joseph Beebe  
Paul J. Gollhofer  
Arthur Faske  
First M. P. Church  
Howitt, Wood Radio Co., Inc.  
Radiophone Brdcastg. Station, Inc.  
Wm. Penn Broadcasting Co.  
Musicove, Inc.  
Philip Weiss Music Co.  
Long Island Broadcasting Corp.  
William S. Walker

KCYS.  
**1500**  
MTRS.  
**199.9**  
DIAL

## INDEX BY LOCATIONS WITH MAP KEY

<b>ALABAMA</b>					
	Watts		Keys.		
Annniston O-22	100	WFDW	1420	San Jose J-1	500 KQW 1010
Birmingham O-21	5000	WAPI	1140	Santa Ana M-3	100 KREG 1500
	500	WBRC	930	Santa Barbara M-2	100 KDB 1500
	100	WKBC	1310	Santa Maria L-2	100 KSMR 1200
Gadsden O-21	100	WJBY	1210	Stockton J-2	250 KGDM 1100
Huntsville N-21	50	WBHS	1200		100 KWG 1200
Mobile Q-20	500	WODX	1410		
Montgomery P-21	500	WSFA	1410		
<b>ALASKA</b>					
Anchorage	100	KFOD	1230		
Ketchikan	500	KGBU	900		
<b>ARIZONA</b>					
Flagstaff M-7	100	KFXV	1420		
Jerome M-6	100	KCRJ	1310		
Phoenix N-6	500	KOY	1390		
	500	KTAR	620		
Prescott M-6	100	KPJM	1500		
Tucson O-7	100	KGAR	1370		
	500	KVOA	1260		
<b>ARKANSAS</b>					
Blytheville M-19	50	KLCN	1290		
Fayetteville M-16	1000	KUOA	1390		
Fort Smith N-16	50	KFPW	1340		
Hot Springs N-17	10000	KTHS	1040		
Little Rock N-17	100	KGHI	1200		
	250	KGJF	890		
	1000	KLRA	1390		
Paragould M-18	100	KBTM	1200		
<b>CALIFORNIA</b>					
Berkeley J-2	100	KRE	1370		
Beverly Hills M-3	500	KMPC	710		
Burbank M-3	500	KELW	780		
Culver City M-3	250	KFVD	1000		
El Centro N-4	100	KXO	1500		
Fresno K-2	100	KMJ	1210		
Hollywood M-3	1000	KFWB	950		
	500	KMTR	570		
	5000	KNX	1050		
Holy City K-1	100	KFOU	1420		
Inglewood M-3	500	KMCS	1120		
Long Beach M-3	1000	KFOX	1250		
	1000	KGER	1360		
Los Angeles M-3	1000	KECA	1430		
	1000	KFAC	1300		
	50000	KFI	640		
	400	KFSG	1120		
	1000	KGEF	1300		
	1000	KGFI	1200		
	1000	KHJ	900		
	500	KTM	780		
Oakland J-1	250	KLS	1440		
	500	KLX	880		
	500	KROW	930		
Pasadena M-3	50	KPPC	1210		
Sacramento J-2	100	KFBK	1310		
San Bernardino M-3	100	KFXM	1210		
San Diego N-3	500	KFSD	600		
	500	KGB	1330		
San Francisco J-1	1000	KFRC	610		
	500	KFWI	930		
	100	KGGC	1420		
	7500	KGO	790		
	100	KJBS	1070		
	5000	KPO	680		
	1000	KTAB	560		
	1000	KYA	1230		
				San Jose J-1	500 KQW 1010
				Santa Ana M-3	100 KREG 1500
				Santa Barbara M-2	100 KDB 1500
				Santa Maria L-2	100 KSMR 1200
				Stockton J-2	250 KGDM 1100
					100 KWG 1200
				<b>COLORADO</b>	
				Colorado Springs K-11	1000 KVOR 1270
				Denver K-11	500 KFEL 920
					100 KFUP 1310
					500 KFXX 920
					1000 KLZ 560
					12500 KOA 830
					500 KPOF 880
				Fort Morgan J-11	100 KGEW 1200
				Grand Junction K-9	100 KFXJ 1310
				Greeley J-11	500 KFKA 880
				Pueblo L-11	250 KGHF 1320
				Trinidad L-11	100 KGIV 1420
				Yuma J-12	100 KGEK 1200
				<b>CONNECTICUT</b>	
				Bridgeport H-27	250 WICC 600
				Hartford H-27	500 WDRC 1330
					50000 WTIC 660-1060
				Storrs H-28	250 WCAC 600
				<b>DELAWARE</b>	
				Wilmington J-26	250 WDEL 1120
					100 WILM 1420
				<b>DISTRICT OF COLUMBIA</b>	
				Washington J-26	250 WMAL 630
					500 WRC 950
					100 WOL 1310
				<b>FLORIDA</b>	
				Clearwater R-24	1000 WFLA 620
				Gainesville Q-24	5000 WRUF 830
				Jacksonville Q-24	1000 WJAX 900
				Miami T-25	1000 WIOD 1300
					1000 WQAM 560
				Orlando R-24	500 WDBO 1120
				Pensacola Q-21	500 WCOA 1340
				St. Petersburg S-24	1000 WSUN 620
				Tampa R-24	1000 WDAE 1220
					100 WMBR 1370
				<b>GEORGIA</b>	
				Athens O-23	500 WTFI 1450
				Atlanta O-22	250 WGST 890
					5000 WSB 740
				Augusta O-23	100 WRDW 1500
				Columbus O-22	50 WRBL 1200
				Macon O-23	500 WMAZ 1180
				Rome N-22	100 WFDV 1310
				Savannah O-24	500 WTOG 1260
				Thomasville Q-22	100 WQDX 1210
				Tifton P-23	100 WJTL 1370
				<b>HAWAII</b>	
				Honolulu	250 KGMB 1320
					1000 KGU 940
				<b>IDAHO</b>	
				Boise G-5	1000 KIDO 1350
				Idaho Falls G-7	250 KID 1320
				Nampa G-5	50 KFXD 1420
				Pocatello H-7	250 KSEI 900
				Sand Point D-6	100 KGKX 1420
				Twin Falls H-6	250 KTFI 1320



INDEX BY LOCATIONS WITH MAP KEY

ILLINOIS

	Watts	WCAZ	Kcys.
Carthage J-18	50	WCAZ	1070
Chicago 1-20	10000	KFKX	1020
	10000	KYW	1020
	500	WAAF	920
	25000	WBMM	770
	1500	WCFL	970
	5000	WCHI	1490
	100	WCRW	1210
	100	WEDC	1210
	50000	WENR	870
	500	WGES	1360
	25000	WGN	720
	1000	WBO	560
	5000	WTJZ	1490
	25000	WTJT	770
	50000	WLS	870
	5000	WMAQ	670
	5000	WMBI	1080
	500	WPCC	560
	100	WIBC	1210
Cicero 1-20	100	WEHS	1420
	100	WHFC	1420
	100	WKBI	1420
	100	WJBL	1200
Decatur K-19	100	WKBS	1310
Galesburg J-18	100	WEBQ	1210
Harrisburg L-19	100	WCLS	1310
Joliet 1-19	100	WKBB	1310
La Salle J-19	100	WJBC	1200
Mooseheart 1-19	20000	WJD	1130
Peoria Heights J-19	500	WMBD	1440
Quincy K-18	500	WTAD	1440
Rockford 1-19	500	KFLV	1410
Rock Island 1-18	100	WHBF	1210
Springfield K-19	100	WCBS	1210
	100	WTAX	1210
Tuscola K-20	100	WDZ	1070
Urbana J-20	250	WILL	890
Zion 1-20	5000	WCBF	1080

INDIANA

Anderson J-21	100	WHBU	1210
Connersville K-21	100	WKBV	1500
Culver 1-20	500	WCMA	1400
Elkhart 1-21	50	WJAK	1310
Evansville L-20	500	WGBF	630
Fort Wayne J-21	100	WGL	1370
	10000	WOWO	1160
Gary 1-20	1000	WJKS	1360
Hammond I-20	100	WWAE	1200
Indianapolis J-21	1000	WFBM	1230
	500	WKBK	1400
Lafayette J-20	500	WBAA	1400
Muncie J-21	50	WLBC	1310
South Bend 1-20	100	WFAM	1200
	500	WSBT	1230
Terre Haute K-20	100	WBOW	1310

IOWA

Ames 1-17	5000	WFO	640
Boone 1-17	100	KFGQ	1310
Cedar Rapids 1-18	100	KWCR	1310
Clarinda J-16	500	KSO	1380
Council Bluffs J-16	1000	KOIL	1260
Davenport 1-18	5000	WOC	1000
Decorah H-18	50	KGCA	1270
	100	KWLC	1270
Des Moines 1-17	5000	WHIO	1000
Fort Dodge 1-16	100	KFYJ	1310
Iowa City 1-18	500	WSUI	880
Marshalltown 1-17	100	KFJB	1200
Ottumwa J-17	100	WIAS	1420
Red Oak J-16	100	KICK	1420

Shenandoah J-16	500	KFNF	890
	500	KMA	930
Sioux City 1-15	1000	KSCJ	1330
Waterloo 1-17	500	WMT	600

KANSAS

Dodge City L-13	100	KGNO	1210
Kansas City K-16	100	WLBF	1420
Lawrence K-16	500	KFKU	1220
	1000	WREN	1220
Manhattan K-15	500	KSAC	580
Milford K-14	5000	KFBI	1050
Topeka K-16	1000	WIBW	580
Wichita L-15	1000	KFH	1300

KENTUCKY

Covington K-22	5000	WCKY	1490
Hopkinsville M-20	1000	WFTW	940
Louisville L-21	10000	WHAS	820
	250	WLAP	1010
Paducah M-19	100	WPAD	1420

LOUISIANA

Monroe P-18	100	KMLB	1200
New Orleans R-19	100	WABZ	1200
	1000	WDSU	1250
	100	WJBO	1420
	100	WJBW	1200
	500	WSMB	1320
	5000	WWL	850
Shreveport P-17	50	KRMID	1310
	1000	KTBS	1450
	100	KWEA	1210
	10000	KWKH	850

MAINE

Augusta F-28	100	WRDO	1370
Bangor F-29	100	WABI	1200
	500	WLBZ	620
Portland F-28	1000	WCSH	940
Presque Isle D-29	100	WAGM	1420

MARYLAND

Baltimore J-26	10000	WBAL	760-1060
	250	WCAO	600
	100	WCBM	1370
	500	WFBR	1270
Cumberland J-25	100	WTBO	1420

MASSACHUSETTS

Boston G-28	500	WAAB	1410
	1000	WBIS	1230
	1000	WEEL	590
	1000	WHDH	830
	100	WLOE	1500
	1000	WNAC	1230
Fall River H-28	250	WSAR	1450
Lexington G-28	100	WLEY	1370
Needham G-28	500	WBSO	920
New Bedford H-28	100	WNBH	1310
Springfield H-27	25000	WBZ-A	990
Worcester G-28	100	WEPS	1200
	100	WORC	1200
	250	WTAG	580

MICHIGAN

Battle Creek I-21	50	WELL	1420
Bay City H-22	500	WBCM	1410
Calumet E-19	100	WHDF	1370
Detroit H-22	50	WJBK	1370
	5000	WJR	750
	100	WMBG	1420

# INDEX BY LOCATIONS WITH MAP KEY

Detroit H-22	1000	WWJ	920
	1000	WXYZ	1240
East Lansing H-21	1000	WKAR	1040
Flint H-22	100	WFDF	1310
Grand Rapids H-21	500	WASH	1270
	500	WOOD	1270
Ironwood F-18	100	WJMS	1420
Jackson I-21	100	WIBM	1370
Kalamazoo I-21	1000	WKZO	590
Lapeer H-22	100	WMPC	1500
Ludington H-20	50	WKBZ	1500
Marquette F-19	100	WBEO	1310
Royal Oak H-22	50	WEXL	1310

## MINNESOTA

Fergus Falls F-15	100	KGDE	1200
Minneapolis G-17	5000	WCCO	810
	1000	WDGY	1180
	1000	WRHM	1250
Moorhead F-15	50	KGFK	1500
Northfield G-17	1000	KFMX	1250
	1000	WCAL	1250
St. Paul G-17	1000	WLB	1250
	10000	KSTP	1460

## MISSISSIPPI

Greenville O-18	100	WRBQ	1210
Gulfport Q-19	100	WGCM	1210
Hattiesburg Q-19	10	WRBJ	1370
Jackson P-19	1000	WJDX	1270
Laurel P-20	100	WTSI	1310
Meridian P-20	500	WCOC	880
Tupelo N-20	100	WDIX	1500
Vicksburg P-18	500	WQBC	1360

## MISSOURI

Cp. Girardeau L-19	100	KFVS	1210
Columbia K-17	500	KFRU	630
Grant City J-16	100	KGIZ	1500
Jefferson City L-17	500	WOS	630
Joplin M-16	100	WMBH	1420
Kansas City K-16	1000	KMBC	950
	100	KWKC	1370
	1000	WDAF	610
	500	WHB	860
	1000	WOQ	1300
St. Joseph K-16	2500	KFEQ	680
	100	KGBX	1310
St. Louis L-18	500	KFUO	550
	100	KFWF	1200
	5000	KMOX	1090
	500	KSD	550
	1000	KWK	1350
	1000	WEW	760
	100	WIL	1200

## MONTANA

Billings F-9	1000	KGHL	950
Butte F-7	500	KGIR	1360
Great Falls E-8	1000	KFBB	1280
Kalispell D-7	100	KGEB	1310
Missoula E-7	100	KGVO	1420
Wolf Point E-11	100	KGCX	1310

## NEBRASKA

Clay Center J-14	1000	KMMJ	740
Lincoln J-15	5000	KFAB	770
	100	KFOR	1210
	500	WCAJ	590
Norfolk I-15	1000	WJAG	1060
North Platte J-13	500	KGNF	1430
Omaha J-15	500	WAAW	660
	1000	WOW	590
Ravenna J-14	100	KGFV	1310
Scottsbluff I-11	100	KGKY	1500
York J-15	500	KGBZ	930

## NEVADA

Las Vegas L-5	100	KGIX	1420
Reno I-3	500	KOH	1380

## NEW HAMPSHIRE

Laconia G-28	100	WKAV	1310
Manchester G-28	500	WFEA	1430

## NEW JERSEY

Asbury Park I-27	500	WCAP	1280
Atlantic City J-27	5000	WPG	1100
Camden I-26	500	WCAM	1280
Hackensack I-27	250	WBMS	1450
Jersey City I-27	300	WAAT	940
	500	WHOM	1450
	250	WKBO	1450
Newark I-27	1000	WAAM	1250
	250	WGCP	1250
	250	WNJ	1450
	5000	WOR	710
Paterson I-27	1000	WODA	1250
Red Bank I-27	100	WJBI	1210
Trenton I-26	500	WOAX	1280
Zarephath I-27	250	WAWZ	1350

## NEW MEXICO

Albuquerque N-7	250	KGGM	1230
Raton M-11	50	KGFL	1370
State College P-9	20000	KOB	1180

## NEW YORK

Albany H-27	500	WOKO	1430
Auburn H-25	100	WMBO	1310
Binghamton H-26	100	WNBF	1500
Brooklyn I-27	500	WBBC	1400
	1000	WBRR	1300
	500	WCGU	1400
	500	WFOX	1400
	500	WLTH	1400
	100	WMBQ	1500
	100	WMIL	1500
Buffalo H-24	1000	WBEN	900
	100	WEBR	1310
	1000	WGR	550
	5000	WKBW	1480
	1000	WMAK	1040
	50	WVSV	1370
Canton F-26	500	WCAD	1220
Freeport I-27	100	WGBB	1210
Glens Falls G-27	50	WBGF	1370
Ithaca H-25	1000	WEAI	1270
	50	WLCI	1210
	100	WMRJ	1210
Jamestown H-24	50	WOCL	1210
Long Island City I-27	100	WLBX	1500
New York City I-27	50000	WABC	860
	250	WBNX	1350
	50000	WBOQ	860
	250	WCDA	1350
	50000	WEAF	660
	500	WEVD	1300
	500	WGBS	1180
	1000	WHAP	1300
	250	WHN	1010
	30000	WJZ	760
	5000	WLWL	1100
	500	WMCA	570
	250	WMSG	1350
	500	WNYC	570
	1000	WOV	1130
	250	WPAP	1010
	500	WPCH	570
	250	WQAO	1010
	250	WRNY	1010

INDEX BY LOCATIONS WITH MAP KEY

Patchogue I-27	100	WPOE	1370
Rochester G-25	5000	WHAM	1150
	500	WHBC	1430
Saranac Lake F-26	50	WNBZ	1290
Schenectady G-27	50000	WGY	790
Syracuse G-25	1000	WFBF	1360
	250	WMAC	570
	250	WSYR	570
Troy G-27	500	WHAZ	1300
Utica G-26	100	WIBX	1200
Woodside I-27	100	WWRL	1500
Yonkers I-27	100	WCOH	1210

NORTH CAROLINA

Asheville M-23	1000	WWNC	570
Charlotte M-24	5000	WBT	1080
Gastonia M-24	100	WSOC	1210
Greensboro M-24	500	WBG	1440
Raleigh M-25	1000	WPTF	680
Wilmington N-26	100	WRAM	1370
Winston-Salem M-24	100	WSJS	1310

NORTH DAKOTA

Bismarck F-13	1000	KFYR	550
Devils Lake E-14	100	KDLR	1210
Fargo F-15	1000	WDAY	940
Grand Forks E-15	100	KFJM	1370
Mandan F-13	100	KGCU	1240
Minot E-13	100	KLPM	1240

OHIO

Akron I-23	1000	WADC	1320
Canton I-23	10	WHBC	1200
Cincinnati K-22	100	WBFE	1200
	1000	WKRC	550
	50000	WLW	700
	1000	WSAI	1330
Cleveland I-23	500	WGAR	1450
	1000	WHK	1390
	500	WJAY	610
Columbus J-22	50000	WTAM	1070
	500	WUIU	640
	500	WCAH	1430
	750	WEAO	570
	100	WSEN	1210
Dayton J-22	200	WSMK	1380
Mansfield J-22	100	WJW	1210
Mount Orab K-22	100	WHBD	1370
Steubenville J-23	50	WIBR	1420
Toledo I-22	1000	WSPD	1340
Youngstown I-23	500	WKBN	570
Zanesville J-23	100	WALR	1210

OKLAHOMA

Chickasha N-14	250	KOCW	1400
Enid M-14	100	KCRC	1370
Norman N-15	500	WNAD	1010
Oklahoma N-15	5000	KJFF	1480
	100	KFXR	1310
	100	KFGF	1370
	1000	WKY	900
Ponca City M-15	100	WBBZ	1200
S. Coffeyville M-15	500	KGGF	1010
Shawnee N-15	100	KGGF	1420
Tulsa M-15	5000	KVOO	1140

OREGON

Astoria D-2	100	KFJI	1370
Corvallis E-2	1000	KOAC	550
Eugene F-2	100	KORE	1420
Marshfield F-1	100	KOOS	1370

Medford G-2	100	KMED	1310
Portland E-3	5000	KEX	1180
	100	KBPS	1420
	500	KFJR	1300
	1000	KGW	620
	1000	KOIN	940
	500	KTBR	1300
	500	KWJJ	1060
	100	KXL	1420

PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
Altoona I-25	100	WFBG	1310
Carbondale H-26	10	WNBW	1200
Elkins Park I-26	25	WIBG	930
Erie H-24	100	WEDH	1420
Grove City I-24	100	WSAJ	1370
Harrisburg I-25	500	WBAA	1430
	100	WCOD	1200
	500	WHP	1430
Johnstown J-24	100	WJAC	1310
Lancaster I-26	100	WGAL	1310
	100	WKJC	1200
	100	WJBU	1210
Lewisburg I-26	500	WLBW	1260
Oil City I-24	10000	WCAU	1170
Philadelphia I-26	100	WELK	1370
	500	WFAN	610
	500	WFI	560
	100	WHAT	1310
	500	WIP	610
	100	WPEN	1500
	250	WRAX	1020
	100	WTEL	1310
Pittsburgh J-24	50000	KDKA	980
	500	KQV	1380
	1000	WCAE	1220
	1000	WJAS	1290
	100	WWSW	1500
Reading I-26	1000	WEEU	830
	100	WRAW	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
State College I-25	500	WPSC	1230
Washington J-24	100	WNBO	1200
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	100	WRAC	1370

PHILIPPINES

Cebu	500	KZRC	937.5
Manila	1000	KZKA	1110
	500	KZRM	625

PORTO RICO

San Juan W-34	250	WKAQ	890
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RHODE ISLAND

Newport H-28	100	WMBA	1500
Pawtucket H-28	100	WPAW	1210
Providence H-28	250	WEAN	780
	250	WJAR	890
	100	WPRO	1210

SOUTH CAROLINA

Charleston O-25	500	WCSC	1360
Columbia N-24	500	WIS	1010
Spartanburg N-23	100	WSPA	1420



## INDEX BY LOCATIONS WITH MAP KEY

Edmonton A-8	250	CHM/	580	<b>QUEBEC</b>	Watt	Keys.	
	500	CJCA	930	Montreal E-26	500	CFCF 1030	
Lethbridge C-8	500	CKUA	580		5000	CHYC 730	
Red Deer A-8	100	CJOC	1120		5000	CKAC 730	
	1000	CKLC	840	Quebec D-27	5000	CNRM 730	
		CNRD	840		100	CHRC 645	
					100	CKCI 645	
					50	CKCV 880	
					50	CNRQ 880	
<b>BRITISH COLUMBIA</b>				<b>SASKATCHEWAN</b>			
Chilliwack B-3	100	CHWK	665	Fleming C-13	500	CJRW 665	
Kamloops B-5	100	CFJC	1120	Moose Jaw C-11	500	CJRM 665	
Kelowna C-5	100	CKOV	1200	Regina C-12	500	CHWC 960	
Vancouver B-3	500	CJOR	730		500	CJBR 960	
	50	CKCD	730		500	CKCK 960	
	50	CKFC	730		500	CNRR 960	
	100	CKMO	730	Saskatoon B-11	500	CFQC 910	
	100	CKWX	730		500	CNRS 910	
Victoria C-3	500	CNRV	1030	Yorkton B-13	500	CJGX 630	
	50	CFCT	630				
<b>MANITOBA</b>				<b>CENTRAL AMERICA</b>			
Brandon D-14	500	CKX	540	<b>COSTA RICA</b>			
Winnipeg D-15	5000	CKY	780	Heredia FF-23	75	T14NRH 948	
	5000	CNRW	780	San Jose FF-23	50	TIC 900	
<b>NEW BRUNSWICK</b>				<b>GUATAMALA</b>			
Fredericton D-29	100	CFNB	1210	Guatamala CC-19	50	TGW 570	
Moncton D-30	500	CNRA	630	<b>HONDURAS</b>			
St. John D-30	500	CFBO	890	Tegucigalpa CC-21	2300	HRB 1370	
<b>NEWFOUNDLAND</b>				<b>SALVADOR</b>			
St. Johns A-35	500	VOWR	675	Salvador CC-19	500	RUS 664	
<b>NOVA SCOTIA</b>				<b>MEXICO</b>			
Glace Bay C-32	10000	VAS	685	<b>AGUASCALIENTES</b>			
Halifax E-31	500	CHNS	910	Aguascalientes W-10	350	XFC 805	
	500	CNRH	910	<b>CHIHUAHUA</b>			
Sydney C-32	50	CJCB	880	Chihuahua, Chih. R-9	250	XFF 915	
Wolville D-31	50	CKIC	1010	Juarez P-9	101	XEJ 857	
					1000	XEQ 1015	
<b>ONTARIO</b>				<b>COAHUILA</b>			
Chatham H-22	100	CFCO	1210	Saltillo, Coah. U-12	10	XEL 1091	
Cobalt E-23	100	CKMC	1210	Villa Acuna R-12	75000	XEP 735	
Hamilton H-24	500	CHCS	630	<b>D. F.</b>			
	50	CHML	880	Mexico City Y-13	1000	XEB 1030	
	1000	CKOC	630		250	XEFA 1250	
Kingston G-25	50	CFRC	930		101	XEK 990	
London H-23	5000	CJGC	910		1000	XEN 711	
	5000	CNRL	910		5000	XEO 940	
North Bay E-23	100	CFCH	930		500	XETA 1140	
Ottawa F-25	100	CKCO	890		100	XETO 1360	
	500	CNRO	600		2000	XETY 1300	
Port Arthur E-19	50	CKPR	890		5000	XEW 910	
Prescott F-25	50	CFCL	915		500	XEX 1210	
Preston H-23	50	CKPC	880		500	XEZ 588	
Toronto G-24	500	CFCA	1120		2000	XFG 638	
	500	CFCL	960		1000	XFI 818	
	5000	CFRB	690		500	XFX 860	
	500	CKCL	960		50	XEC 1333	
	5000	CKGW	840				
	500	CKNC	960				
	500	CNRT	1120				
	5000	CNRX	690				
	5000	CPRY	840				
Waterloo G-23	50	CKCR	645				
<b>PRINCE EDWARD ISLAND</b>				<b>JALISCO</b>			
Charlottetown C-31	500	CFCY	580	Toluca. Y-12			
	100	CHCK	960				
Summerside C-31	100	CHGS	1120	Guadalajara, Jal. X-10	101	XEA 1200	

CFAC 690		CJRW 665		CMBZ 1010		CNRD 840	
Calgary, Alta.		Fleming, Sask.		Havana, Cuba		Red Deer, Alta.	
CFBO 890		CKAC 730	50	CMC 840	35 1/2	CNRH 910	
St. John, N. B.		Montreal, Que.		Havana, Cuba		Halifax, N. S.	
CFCA 1120	16	CKCD 730		CMCA 1225		CNRL 910	29
Toronto, Ont.	21	Vancouver, B. C.		Havana, Cuba		London, Ont.	
CFCF 1030		CKCI 645		CMCB 1070		CNRM 730	
Montreal, Que.		Quebec, Que.		Havana, Cuba		Montreal, Que.	
CFCH 930		CKCK 960		CMCD 925	27	CNRO 600	
North Bay, Ont.		Regina, Sask.		CMCF 890	31	Ottawa, Ont.	
CFCL 960		CKCL 960	84 1/2	Havana, Cuba		CNRQ 880	
Toronto, Ont.		Toronto, Ont.		Havana, Cuba		Quebec, Que.	
CFCN 985	23 1/2	CKCO 890		CMCG 1345		CNRR 960	
Calgary, Alta.		Ottawa, Ont.		Havana, Cuba		Regina, Sask.	
CFCO 1210		CKCR 645	66 1/2	CMCH 1405		CNRS 910	
Chatham, Ont.		Waterloo, Ont.		Havana, Cuba		Saskatoon, Sask.	
CFCT 630		CKCV 880		CMCJ 620		CNRT 1100	35 1/2
Victoria, B. C.		Quebec, Que.		Havana, Cuba		Toronto, Ont.	
CFCY 500	25	CKCF 730		CMCM 1405		CNRV 1030	
Ch'lottet'n, P.E.I.		Vancouver, B. C.		Havana, Cuba		Vancouver, B. C.	
CFJC 1120		CKGW 840	35	CMCN 925		CNRW 780	
Kamloops, B. C.		Toronto, Ont.		Havana, Cuba		Winnipeg, Man.	
CFKC 915		CKIC 1010		CMCO 660		CNRX 600	25 1/2
Prescott, Ont.		Wolfville, N. S.		CMCQ 1150		Toronto, Ont.	35
CFNB 1210		CKLK 840		Havana, Cuba		CPRY 840	
Fredericton, N.B.		Red Deer, Alta.		CMCR 1345		Toronto, Ont.	
CFQC 910		CKMC 1210		Havana, Cuba		HHK 920	
Saskatoon, Sask.		Cobalt, Int.		CMCU 1285		Port au Prince, H.	
CFRB 690	57	CKMO 730		Havana, Cuba		HIX 669	
Toronto, Ont.		Vancouver, B. C.		CMCW 1285		Santo Domingo	
CFRC 930		CKNC 960	25	Havana, Cuba		HRB 1370	
Kingston, Ont.		Toronto, Ont.	69	CMCY 1345		Tequeigalpa	
CHCK 960		CKOC 630		Havana, Cuba		KABC 1420	
Ch'lottet'n, P.E.I.		Hamilton, Ont.		CMDC 660		San Antonio, Tex.	
CHCS 630		CKOV 1200	31 1/2	Havana, Cuba		KBPS 1420	
Hamilton, Ont.		Kelowna, B. C.		CMGA 834		Portland, Ore.	
CHGS 1120		CKPC 880		Colon, Cuba		KBTM 1200	
Sum'rside, P.E.I.		Preston, Ont.		CMGB 1205		Paragould, Ark.	
CHLS 730		CKPR 890		Matanzas, Cuba		KGAC 1370	8 1/2
Vancouver, B. C.		Port Arthur, Ont.		CMGE 1375		Enid, Okla.	
CHMA 580		CKUA 580		Cardenas, Cuba		CNRJ 1310	
Edmonton, Alta.		Edmonton, Alta.		CMGF 977		Jerome, Ariz.	
CHML 880	31 1/2	CKWX 730		Matanzas, Cuba		KDB 1500	
Hamilton, Ont.		Vancouver, B. C.		CMGH 1370		S. Barbara, Cal.	
CHNS 910		CKX 540		Matanzas, Cuba		KDFN 1210	
Halifax, N. S.		Brandon, Man.		CMHC 790		Casper, Wyo.	
CHRC 645		Winnipeg, Man.		Tuinucu, Cuba		KDKA 980	24
Quebec, Que.		CMAB 1249		CMHD 950		Pittsburgh, Pa.	
CHWC 960		Pinar del Rio, Cu		Caibarien, Cuba		LDLR 1210	
Regina, Sask.		CMAC 1375		CMHI 1110		Devils Lake, N.D.	
CHWK 665		Pinar del Rio, Cu		Santa Clara, Cu		KDYL 1290	10 1/4
Chilliwack, B. C.		CMBC 965		CMHJ 645		Salt Lake City	
CHYC 730		Havana, Cuba		Cienfuegos, Cuba		KECA 1430	
Montreal, Que.		CMBD 965		CMJA 1200		Los Angeles, Cal.	
CJBR 960		Havana, Cuba		Camaguey, Cuba		KELW 780	
Regina, Sask.		CMBG 1070		CMJC 1382		Burbank, Cal.	
CJCA 930		Havana, Cuba		Camaguey, Cuba		KEX 1180	13 1/2
Edmonton, Alta.		CMBI 1405		CMJE 856		Portland, Ore.	
CJCB 880		Havana, Cuba		Camaguey, Cuba		KFAB 770	44
Sydney, N. S.		CMBL 1500		CMJF 930		Lincoln, Nebr.	
CJJC 690		Havana, Cuba		Camaguey, Cuba		KFAC 1390	
Calgary, Alta.		CMBN 1405		CMJH 1017		Los Angeles, Cal.	
CJGC 910	80	Havana, Cuba		Ciego de Avila, C.		KFBB 1280	
London, Ont.		CMBQ 1500		CMK 730	50	Great Fls., Mont.	
CJGX 630		Havana, Cuba		Havana, Cuba		KFBI 1050	17 3/4
Yorckton, Sask.		CMBR 1500		CMKC 1034		Meriden, Kans.	
CJOC 1120		Havana, Cuba		Santiago, Cuba		KFKB 1310	
Lethbridge, Alta.		CMBS 790		CMQ 1150		Sacramento, Cal.	
CJOR 1210		Havana, Cuba		Havana, Cuba		KFBL 1370	
Vancouver, B. C.		CMBT 790		CMW 588	88 1/2	Everett, Wash.	
CJRM 665		Havana, Cuba		Havana, Cuba		KFDM 560	
Moose Jaw, Sask.		CMBW 1010		CMX 890		Beaumont, Tex.	
CKOK	43 1/2	Havana, Cuba		CMY 890		KFYD 550	
		CMBY 1225		CNRA 630		Brookings, S. D.	
		Havana, Cuba		Moncton, N. B.			
		CKTB	69				
		CJSC	57				

KFEL 920 Denver, Colo.		KFVS 1210 Cape Gir'rd'u, Mo		KGFX 580 Pierre, S. D.		KLS 1440 Oakland, Cal.	
KFEQ 680 St. Joseph, Mo.		KFWB 950 Hollywood, Cal.	26	KGCC 1420 San F'nisco, Cal.		KLX 880 Oakland, Cal.	
KFGQ 1310 Boone, Iowa		KFWF 1200 St. Louis, Mo.		KGGF 1010 Coffeeville, Okla.		KLZ 560 Denver, Colo.	
KFH 1300 Wichita, Kansas	10	KFWI 930 San F'nisco, Cal.	27 1/4	KGGM 1230 Albuq'rque, N.M.		KMA 930 Shenandoah, Ia.	27 1/4
KFI 640 Los Angeles, Cal.	67	KFXD 1420 Nampa, Idaho		KGHH 1320 Pueblo, Colo.		KMAC 1370 San Antonio, Tex.	
KFIO 1120 Spokane, Wash.		KFFX 920 Denver, Colo.	28	KGHI 1200 Little Rock, Ark.		KMBC 950 Kan. City, Mo.	25 3/4
KFIZ 1420 Fond du Lac, Wis.		KFXJ 1310 Grand Junc, Cal.		KGHL 950 Billings, Mont.		KMCS 1120 Inglewood, Cal.	
KFJB 1200 Marshalltown, Ia.	12 3/4	KFXM 1210 San Ber'd no, Cal.		KGIR 1360 Butte, Mont.	8 1/2	KMED 1310 Medford, Ore.	
KFJE 1480 Oklahoma City		KFXR 1310 Oklahoma City		KGIW 1420 Trinidad, Colo.		KMJ 1210 Fresno, Cal.	8 1/2
KFJI 1370 Astoria, Ore.		KFXY 1420 Flagstaff, Ariz.		KGIX 1420 Las Vegas, Nev.		KMLB 1200 Monroe, La.	
KFJM 1370 Grd. Forks, N.D.		KFYO 1420 Abilene, Texas		KGIZ 1500 Grant City, Mo		KMMJ 740 Klay Ctr., Nebr.	48
KFJR 1300 Portland, Ore.		KFYR 550 Bismarck, N. D.		KGJF 890 Little Rock, Ark.		KMO 860 Tacoma, Wash.	
KFJJ 1310 Fort Dodge Ia.		KGA 1470 Spokane, Wash.		KGKB 1500 Tyler, Texas		KMOX 1090 St. Louis, Mo.	17 3/4
KFJZ 1370 Ft. Worth, Tex.		KGAR 1370 Tucson, Arizona		KGKL 1370 San Angelo, Tex.		KMPV 710 Beverly Hills, Cal	53 1/2
KFKA 880 Greeley, Colo.		KGB 1330 San Diego, Cal.		KGKO 570 Wichita Fls., Tex.		KMTR 570 Hollywood, Cal.	
KFKU 1220 Lawrence, Kans.		KGBU 900 Ketchikan, Al'ka		KGKX 1420 Sand Point, Idaho		KNX 1050 Los Angeles, Cal.	19 1/2
KFKX 1020 Chicago, Ill.	21	KGBX 1310 St. Joseph, Mo.		KGKY 1500 Scottsbluff, Nebr.		KOA 830 Denver, Colo.	36
KFLV 1410 Rockford, Ill.	7 1/4	KGBZ 930 York, Nebr.	27	KGMB 1320 Honolulu, T. H.		KOAC 550 Corvallis, Ore.	
KFLX 1370 Galveston, Tex.		KGCA 1270 Decorah, Iowa		KGNF 1430 No. Platte, Nebr.		KOB 1180 State Coll., N.M.	
KFMX 1250 N'tfield, Minn.		KGCR 1210 Watertown, S. D.		KGNO 1210 Dodge City, Kas.		KOCW 1400 Chickasha, Okla.	
KFNF 890 Shenandoah, Ia.	31	KGCU 1240 Mandan, N. D.		KGO 790 San F'nisco, Cal.	41 1/2	KOH 1380 Reno, Nevada	
KFOR 1210 Lincoln, Nebr.		KGCV 1310 Wolf P't, Mont.		KGRS 1410 Amarillo, Texas		KOIL 1260 Council Bluffs, Ia.	11
KFOX 1250 Long Beach, Cal.		KGDA 1370 Mitchell, S. D.		KGU 940 Honolulu, Hawaii		KOIN 940 Portland, Ore.	
KFPL 1310 Dublin, Texas		KGDE 1200 Fergus Falls, Minn	13	KGVO 1420 Missoula, Mont.		KOL 1270 Seattle, Wash.	
KFPM 1310 Greenville, Texas		KGDM 1100 Stockton, Cal.		KGW 620 Portland, Ore.		KOMO 920 Seattle, Wash.	28
KFPW 1340 Ft. Smith, Ark.		KGDY 1200 Huron, S. D.		KGY 1200 Lacey, Wash.		KONO 1370 San Antonio, Tex.	
KFPY 1340 Spokane, Wash.		KGFE 1300 Los Angeles, Cal.		KHJ 900 Los Angeles, Cal.	29 1/2	KOOS 1370 Marshfield, Ore.	
KFQD 1230 Anchorage, Alas.		KGEK 1200 Yuma, Colo.	13	KHK 590 Spokane, Wash.		KORE 1420 Eugene, Ore.	
KFQU 1420 Holy City, Cal.		KGER 1360 Long Beach, Cal.	27 1/4	KICK 1420 Red Oak, Iowa		KOY 1390 Phoenix, Arizona	
KFQW 1420 Seattle, Wash.		KGEW 1 20 Ft. Morgan, Colo.		KID 1320 Idaho Falls, Ida.		KPCB 650 Seattle, Wash.	
KFR 610 San F'nisco, Cal.	25	KGEZ 1310 Kalispell, Mont.		KIDO 1350 Boise, Idaho		KPJM 1500 Prescott, Ariz.	
KFRU 630 Columbia, Mo.	70	KGFF 1420 Shawnee, Okla.		KIT 1310 Yakima, Wash.		KPO 680 San F'nisco, Cal.	59
KFSD 600 San Diego, Cal.	78	KGFG 1370 Oklahoma City		KJBS 1070 San F'nisco, Cal.		KPOF 880 Denver, Colo.	32
KFSG 1120 Los Angeles, Cal.		KGFI 1500 Corp's Ch'sti, Tex		KJR 970 Seattle, Wash.	29 1/2	KPPC 1210 Pasadena, Cal.	
KFUL 1290 Galveston, Texas		KGFJ 1200 Los Angeles, Cal.		KLCN 1290 Blytheville, Ark.		KPQ 1500 Wenatchee, Wash	
KFUO 550 St. Louis, Mo.		KGFK 1500 Moorhead, Minn.		KLO 1400 Ogden, Utah		KPRC 920 Houston, Texas	27 1/2
KFUP 1310 Denver, Colo.		KGFL 1370 Raton, N. M.		KLPM 1240 Minot, N. Dak.		KPV 1380 Pittsburgh, Pa.	7 3/4
KFVD 1000 Culver City, Cal.	23 1/4	KGFW 1310 Ravenna, Nebr.		KLRA 1390 Little Rock, Ark.		KQW 1010 San Jose, Cal.	
KFKB	19 1/2						

KRE 1370	KVOS 1200	WALR 1210	WAO 600
Berkeley, Cal.	Bellingh'm, Wash.	Zanesville, Ohio	Baltimore, Md.
KREG 1500	KWCR 1310	WAPI 1140	WCAP 1280
Santa Ana, Cal.	Cedar Rapids, Ia.	Birmingham, Ala.	Asbury Pk., N. J.
KRGV 1260	KWEA 1210	WASH 1270	WCAT 1200
Harlingen, Texas	Shreveport, La.	Gr. Rapids, Mich.	Rapid City, S. D.
KRLD 1040	KWG 1200	WAWZ 1350	WCAU 1170
Dallas, Texas	Stockton, Cal.	Zarephath, N. J.	Philadelphia, Pa.
KRMD 1310	KWJJ 1060	WBAA 1400	WCAZ 1200
Shreveport, La.	Portland, Ore.	Lafayette, Ind.	Burlington, Vt.
KROW 930	KWK 1350	WBAM 1430	WCZ 1070
Oakland, Cal.	St. Louis, Mo.	Harrisburg, Pa.	Carthage, Ill.
KRSC 1120	KWKC 1370	WBAL 760-1060	WCB 1440
Seattle, Wash.	Kansas City, Mo.	Baltimore, Md.	WCB 1440
KSAC 580	KWKH 850	WBAP 800	WCB 1440
Manh'tt'n, Kans.	Shreveport, La.	Fort Worth, Tex.	WCB 1440
KSCJ 1330	KWLC 1270	WRAX 1210	WCBM 1370
Sioux City, Ia.	Decorah, Iowa	Wilkes-Barre, Pa.	Baltimore, Md.
KSD 550	KWSD 1220	WBBC 1400	WCS 1210
St. Louis, Mo.	Pullman, Wash.	Brooklyn, N. Y.	Springfield, Ill.
KSEI 900	KWWG 1260	WBBL 1210	WCCO 810
Pocatello, Idaho	Brownsville, Tex.	Richmond, Va.	Minneap., Minn.
KSL 1130	KXA 570	WBBM 770	WCDA 1350
Salt Lake City	Seattle, Wash.	Chicago, Ill.	New York City
KSMR 1200	KXL 1420	WBBR 1300	WCFL 970
Santa Maria, Cal.	Portland, Ore.	Brooklyn, N. Y.	Chicago, Ill.
KSO 1380	KXO 1500	WBBZ 1200	WCGU 1400
Clarinda, Iowa	El Centro, Cal.	Ponca City, Okla.	Brooklyn, N. Y.
KSOO 1110	KXRO 1310	WBCM 1410	WCHI 1490
Sioux Falls, S. D.	Aberdeen, Wash.	Bay City, Mich.	Chicago, Ill.
KSTP 1460	KXYZ 1420	WBEN 900	WCKY 1490
St. Paul, Minn.	Houston, Texas	Buffalo, N. Y.	Covington, Ky.
KTAB 560	KYA 1230	WBEO 1310	WCLO 1200
San F'nscisco, Cal.	San F'nscisco, Cal.	Marquette, Mich.	Janesville, Wis.
KTAR 620	KYW 1020	WBGF 1370	WCLS 1310
Phoenix, Ariz.	Chicago, Ill.	Glens Falls, N. Y.	Joliet, Ill.
KTAT 1240	KZRC 937.5	WBHS 1200	WCMA 1400
Pt. Worth, Tex.	Cebu, P. I.	Huntsville, Ala.	Culver, Ind.
KTBR 1300	NAA 690	WBIG 1440	WCOA 1340
Portland, Ore.	Arlington, Va.	Greensboro, N. C.	Pensacola, Fla.
KTBS 1450	RUS 664	WBIS 1230	WCOC 880
Shreveport, La.	Salvador	Boston, Mass.	Meridian, Miss.
KTFE 1320	TGW 570	WBMS 1450	WCOD 1200
Twin Falls, Ida.	Guatemala	Hackensack, N. J.	Harrisburg, Pa.
KTHS 1040	TIC 900	WBX 1350	WCOH 1210
Hot Spgs., Ark.	San Jose, C. R.	New York City	Yonkers, N. Y.
KTLC 1310	T14NRH 948	WBOQ 860	WCRW 1210
Houston, Texas	Heredia, C. R.	New York City	Chicago, Ill.
KTM 780	VAS 585	WBOW 1310	WCS 1360
Los Angeles, Cal.	Glace Bay, N. S.	Terre Haute, Ind.	Charleston, S. C.
KTRH 1120	VOWR 675	WBRC 930	WCSH 940
Houston, Texas	St. Johns, N. F.	Birmingham, Ala.	Portland, Maine
KTSA 1290	WAAB 1410	WBRE 1310	WDAE 1220
San Antonio, Tex.	Boston, Mass.	Wilkes-Barre, Pa.	Tampa, Fla.
KTSM 1310	WAAP 920	WBSO 920	WDAF 610
El Paso, Texas	Chicago, Ill.	Newham, Mass.	Kansas City, Mo.
KTW 1220	WAAM 1250	WBT 1080	WDAG 1410
Seattle, Wash.	Newark, N. J.	Charlotte, N. C.	Amarillo, Texas
KUJ 1370	WAAT 940	WBTM 1370	WDAH 1310
Walla Wal., Wash.	Jersey City, N. J.	Danville, Va.	El Paso, Texas
KUOA 1390	WAAW 660	WBZ-A 990	El Paso, Texas
Fayetteville, Ark.	Omaha, Nebr.	Springfield, Mass.	Fargo, N. D.
KUSD 890	WABC 860	WCAC 600	WDBJ 930
Vermillion, S. D.	New York City	Storrs, Conn.	Roanoke, Va.
KUT 1500	WABI 1200	WCAD 1220	WDBO 1120
Austin, Texas	Bangor, Maine	Canton, N. Y.	Orlando, Fla.
KVI 760	WABZ 1200	WCAP 1220	WDEL 1120
Tacoma, Wash.	New Orleans, La.	Pittsburgh, Pa.	Wilmington, Del.
KVL 1370	WACO 1240	WCAH 1430	WDEB 1420
Wattle, Wash.	Waco, Texas	Columbus, Ohio	Waterbury, Vt.
KVOA 1260	WADC 1320	WCAJ 590	WDGY 1180
Tucson, Arizona	Akron, Ohio	Lincoln, Nebr.	Minneap., Minn.
KVOO 1140	WAGM 1420	WCAL 1250	WDIX 1500
Tulsa, Okla.	Presque Isle, Me.	Northfield, Minn.	Tupelo, Miss.
KVOR 1270	WAUI 640	WCAM 1280	WDOD 1280
Col. Sp'gs, Colo.	Columbus, Ohio	Camden, N. J.	Chatt'an'ga, Tenn
KTNT	VPN		



WDRC 1330		WFIW 940		WHIS 1410	7/4	WJBW 1200	
Hartford, Conn.	8/74	Hopkinsville, Ky.	2/4	Bluefield, W. Va.		New Orleans, La.	
WDSU 1250		WFLA 620	73	WHK 1390	7/34	WJBY 1210	
New Orleans, La.		Clearwater, Fla.		Cleveland, Ohio		Gadsden, Ala.	
WDZ 1070		WFOX 1400		WHN 1010		WJDX 1270	
Tuscola, Ill.	18 1/2	Brooklyn, N. Y.		New York City		Jackson, Miss.	
WEAF 660	63 1/2	WGAL 1310	9	WHO 1000	22	WJDD 1130	12 1/2
New York City		Lancaster, Pa.	6	Des Moines, Ia.	6 1/4	Mooseheart, Ill.	
WEAL 1270	107 1/4	WGAR 1450		WHOM 1450	6 3/4	WJKS 1360	8 1/2
Ithaca, N. Y.		Cleveland, Ohio		Jersey City, N. J.	6 3/4	Gary, Ind.	
WEAN 780		WGBB 1210		WHP 1430		WJMS 1420	
Providence, R. I.		Freeport, N. Y.		Harrisburg, Pa.		Ironwood, Mich.	
WEAO 570	88	WGBC 1430		WIAS 1420		WJR 750	47
Columbus, Ohio	10	Memphis, Tenn.		Ottumwa, Iowa		Detroit, Mich.	
WEBC 1290		WGBF 630		WIBA 1280	10 1/2	WJVS 1460	6
Superior, Wis.	12 1/2	Evansville, Ind.	70	Madison, Wis.		Alexandria, Va.	
WBBQ 1210	12 1/2	WGRI 880	32	WIBG 930		WJTL 1370	
Harrisburg, Ill.	9 1/2	Scranton, Pa.	14	Elkins Park, Pa.		Tifton, Ga.	
WBBR 1310		WGBS 1180		WIBM 1370		WJW 1210	12 1/2
Buffalo, N. Y.	7	New York City		Jackson, Mich.	9 1/2	Mansfield, Ohio	
WEDC 1210		WGCM 1210		WIBO 560		WJZ 760	40
Chicago, Ill.		Gulftport, Miss.		Chicago, Ill.		New York City	
WEDH 1420		WGCP 1250		WIBR 1420		WKAQ 890	
Eric, Pa.	31	Newark, N. J.		Steuenville, O.		San Juan, P. R.	
WEI 590	36 1/2	WGES 1360	8 1/4	WIBU 1210	7 3/4	WKAR 1040	
Boston, Mass.	8 1/2	Chicago, Ill.		Poynette, Wis.	84	E. Lansing, Mich.	
WEU 830		WGH 1310		WIBW 580		WKAJ 1310	
Reading, Pa.		Newsp't News, Va.		Topeka, Kansas		Laconia, N. H.	
WEHC 1350		WGL 1370		WIRX 1200		WKBB 1310	
Emory, Va.		Ft. Wayne, Ind.		Utica, N. Y.		Joliet, Ill.	
WEHS 1420		WGN 720	5 1/2	WICC 600	13 1/4	WKBC 1310	
Cicero, Ill.	8	Chicago, Ill.	9 1/2	Bridgeport, Conn		Birmingham, Ala.	
WELK 1370		WGR 550		WIL 1200		WKBF 1400	7 1/2
Philadelphia, Pa.		Buffalo, N. Y.		St. Louis, Mo.		Indianapolis, Ind.	
WELL 1420		WGST 890		WILL 890		WKBH 1380	
Battle C'k, Mich.		Atlanta, Ga.		Urbana, Ill.	31	La Crosse, Wis.	
WENR 870	32	WGY 790	4 1/2	WILM 1420		WKBI 1420	7
Chicago, Ill.		Schenec'dy, N. Y.		Wilmingdon, Del.		Cicero, Ill.	
WEPS 1200		WHA 940		WIOD 1000	16	WKBN 570	87
Worcester, Mass.		Madison, Wis.		WIP 610	15	Youngstown, O.	6 1/4
WEVD 1300		WHAD 1120	15 1/2	Philadelphia, Pa.	22	Jersey City, N. J.	
New York City		Milwaukee, Wis.		WIS 1010		WKBS 1310	
WEW 760	9 1/2	Rochester, N. Y.	9 1/2	Columbia, S. C.		Galesburg, Ill.	
St. Louis, Mo.		WHAP 1300	37	WISN 1120		WKRK 1500	
WEXL 1310	40	New York City		Milwaukee, Wis.		Connersville, Ind.	
Royal Oak, Mich.		WHAS 820		WJAC 1310		WKBW 1480	5 1/2
WFAA 800	13	Louisville, Ky.		Johnstown, Pa.	19	Buffalo, N. Y.	
Dallas, Texas	75	WHAT 1310		WJAG 1060		WKBZ 1500	
WFBM 1200		Philadelphia, Pa.		Norfolk, Nebr.		Ludington, Mich.	
So. Bend, Ind.		WHAZ 1300	10	WJAK 1310		WKJC 1200	
WFBN 610		Troy, N. Y.		Elkhart, Ind.		Lancaster, Pa.	
Philadelphia, Pa.		WHB 860		WJAR 890		WKRC 550	96
WFCB 1200		Kansas City, Mo.		WJAS 1290	10	Cincinnati, Ohio	
Knoxville, Tenn		WHBC 1200		Pittsburgh, Pa.	39 3/4	WKY 900	
WFBE 1200		Canton, Ohio	8	WJAX 900		Oklahoma City	
Cincinnati, Ohio		WHBD 1370		Jacksonville, Fla.		WKZO 590	
WFBG 1310		Mt. Orab, Ohio		WJAY 610		Kalamazoo, Mich.	
Altoona, Pa.		WHBF 1210		WJAC 1490		WLAC 1470	5 3/4
Syracuse, N. Y.	11 1/2	Rock Island, Ill.		WJAZ 1410		Nashville, Tenn.	
WFBM 1230	10 3/4	WHBL 1410		Chicago, Ill.		WLAP 1010	
Indianapolis, Ind.		Sheboygan, Wis.		WJBC 1200		Louisville, Ky.	
WFBR 1270		WHBQ 1370		La Salle, Ill.	12 1/2	WLB 1500	
Baltimore, Md.		Memphis, Tenn.		WJBI 1210		St. Paul, Minn.	
WFDF 1310		WHD 1210		Red Bank, N. J.		WLCB 1310	
Flint, Mich.		Anderson, Ind.		WJBK 1370		Muncie, Ind.	
WFDV 1310		WHDY 1200		Detroit, Mich.		WLBK 1420	
Rome, Ga.		Green Bay, Wis.		WJBL 1200		Kansas City, Ks.	
WFDW 1420		WHDH 1370		Decatur, Ill.		WLBG 1200	
Anniston, Ala.		Calumet, Mich.		WJBO 1420		Ettrick, Va.	
WFEA 1430	6 1/2	WHDH 830	36	New Orleans, La.		WBL 900	
Manchester, N.H.		Boston, Mass	6 1/2	WJBT 770	44	Stevens Pt., Wis.	
WFI 560		WHEC 1430		Chicago, Ill.		WLBW 1260	11
Philadelphia, Pa.	36	Rochester, N. Y.		WJBU 1210		Oil City, Pa.	
		WHFC 1420		Lewisburg, Pa.		WLBX 1500	5
		Cleero, Ill.			20	L. I. City, N. Y.	12 1/2
							11
							87
							301

WLBZ 620 Bangor, Maine	72	WNBR 1430 Memphis, Tenn.		WPTF 680 Raleigh, N. C.	59	WSJS 1310 Winst.-Sal., N. C.	
WLCI 1210 Ithaca, N. Y.		WNBW 1200 Carbondale, Pa.	13	WQAM 560 Miami, Fla.	9 1/2	WSM 650 Nashville, Tenn.	63 1/4
WLEY 1370 Lexington, Mass.	8	WNBX 1200 Springfield, Vt.		WQAN 880 Scranton, Pa.	32	WSMB 1320 New Orleans, La.	9 1/4
WLIT 560 Philadelphia, Pa.	42 1/2	WNBZ 1290 Sar'n'e L'ke, N.Y.		WQAO 1010 New York City		WSMK 1380 Dayton, Ohio	2 3/4
WLOE 1500 Boston, Mass.		WNJ 1450 Newark, N. J.		WQBC 1360 Vicksburg, Miss.		WSOC 1210 Gastonia, N. C.	
WLS 870 Chicago, Ill.	32	WNOX 560 Knoxville, Tenn.	9 1/2	WQDM 1370 St. Albans, Vt.		WSPA 1420 Spartanburg, S.C.	
WLTH 1400 Brooklyn, N. Y.		WNYC 570 New York City		WQDX 1210 Thomasville, Ga.		WSPD 1340 Toledo, Ohio	8 1/2
WLVA 1370 Lynchburg, Va.		WOAI 1190 San Antonio, Tex.	13 1/2	WRAC 1370 Williamsport, Pa.		WSUI 880 Iowa City, Iowa	32
WLW 700 Cincinnati, Ohio	53	WOAX 1280 Trenton, N. J.	10 1/2	WRAM 1370 Wilmington, N.C.		WSUN 620 St. Petersburg, Fla.	73
WLWN 1100 New York City	17	WOBU 580 Charlest'n, W.Va.	84	WRWA 1310 Reading, Pa.		WSVS 1370 Buffalo, N. Y.	8
WMAC 570 Syracuse, N. Y.		WOC 1000 Davenport, Iowa	22	WRAX 1020 Philadelphia, Pa.		WSYP 1500 Rutland, Vt.	
WMAK 1040 Buffalo, N. Y.	20 1/2	WOGL 1210 Jamestown, N. Y.	12 1/2	WRBJ 1370 Hattiesburg, Miss.		WSYB 570 Syracuse, N. Y.	
WMAL 630 Washington, D.C.	20	WODA 1250 Paterson, N. J.	11 1/4	WRBL 1200 Columbus, Ga.		WTAD 1440 Quincy, Ill.	
WMAQ 670 Chicago, Ill.	61	WODX 1410 Mobile, Ala.		WRBQ 1210 Greenville, Miss.		WTAG 580 Worcester, Mass.	84
WMAZ 1180 Macon, Ga.		WOI 640 Ames, Iowa		WRBX 1410 Roanoke, Va.	7 1/4	WTAM 1070 Cleveland, Ohio	18 1/2
WMBA 1500 Newport, R. I.		WOKO 1430 Albany, N. Y.	6 1/2	WRC 950 Washington, D.C.	26	WTAA 1330 Eau Claire, Wis.	
WMBC 1420 Detroit, Mich.		WOL 1310 Washington, D.C.	7 1/2	WRDO 1370 Augusta, Maine		WTAR 780 Norfolk, Va.	42 1/2
WMBD 1440 Peoria Hghts., Ill.	6 1/4	WOMT 1210 Manitowoc, Wis.		WRDW 1500 Augusta, Ga.		WTAV 1120 College Sta., Tex.	
WMBG 1210 Richmond, Va.		WOOD 1270 Gr. Rapids, Mich.	10 3/4	WREC 600 Memphis, Tenn.	5	WTAX 1210 Springfield, Ill.	
WMBH 1420 Joplin, Mo.		WOPI 1500 Bristol, Tenn.	3	WREN 1220 Lawrence, Kans.	12 1/4	WTBO 1420 Cumberland, Md.	
WMBI 1080 Chicago, Ill.	78	WQJ 1300 Kansas City, Mo.	53 1/2	WRHM 1250 Minneap., Minn.	11 1/4	WTCL 1310 Philadelphia, Pa.	9 3/4
WMBQ 1310 Auburn, N. Y.		WOK 710 Newark, N. J.		WRJN 1370 Racine, Wis.	8	WTFI 1450 Toccoa, Ga.	
WMBR 1370 Tampa, Fla.		WORC 1200 Worcester, Mass.	70	WRNY 1010 New York City	22	WTGA 660-1060 Hartford, Conn.	19
WMC 780 Memphis, Tenn.	42 1/2	WOS 630 Jeff's'n City, Mo.		WROL 1310 Knoxville, Tenn.		WTJS 1310 Jackson, Tenn.	
WMCA 570 New York City	88	WOW 1130 New York City		WRR 1280 Dallas, Texas		WTMJ 620 Milwaukee, Wis.	73 1/2
WMIL 1500 Brooklyn, N. Y.	5	WOW 590 Omaha, Nebr.	80	WRUF 830 Gainesville, Fla.	30	WTOC 1260 Savannah, Ga.	
WMMN 890 Fairmont, W. Va.	1	WOWO 1160 Ft. Wayne, Ind.	13	WRVA 1110 Richmond, Va.	16 3/4	WTSL 1310 Laurel, Miss.	13
WMP 1500 Lapeer, Mich.		WPAD 1420 Paducah, Ky.	21 1/2	WSAI 1330 Cincinnati, Ohio	9	WVAE 1200 Hammond, Ind.	28
WMPJ 1210 Jamaica, N. Y.		WPAP 1010 New York City		WSAJ 1310 Grove City, Pa.		WWJ 920 Detroit, Mich.	28
WMSG 1350 New York City		WPAW 1210 Pawtucket, R. I.		WSAN 1440 Allentown, Pa.		WWL 850 New Orleans, La.	24 1/2
WMT 600 Waterloo, Iowa	78	WPCC 560 Chicago, Ill.		WSAR 1450 Fall River, Mass.		WWNC 570 Asheville, N. C.	88
WNA 1230 Boston, Mass.	11 1/2	WPCH 570 New York City		WSAZ 580 Hunt'gton, W. Va.	85	WWRL 1500 Woodside, N. Y.	5
WNAD 1010 Norman, Okla.		WPEN 1500 Philadelphia, Pa.	5	WSB 740 Atlanta, Ga.	48	WWSW 1500 Pittsburgh, Pa.	5
WNAX 570 Yankton, S. D.	88	WPG 1100 Atl'ntic City, N.J.	17	WSBC 1210 Chicago, Ill.		WVVA 1160 Wheeling, W. Va.	14 1/2
WNEF 1500 Bingh'm't'n, N.Y.		WPOE 1370 Patchogue, N. Y.	8	WSBT 1230 South Bend, Ind.	11 1/2	WXYZ 1240 Detroit, Mich.	11 3/4
WNBH 1310 New B'd'd, Mass.	9 1/2	WPOR 780 Norfolk, Va.		WSEN 1210 Columbus, Ohio		XEA 1200 Guad'l'jara, Mex.	
WNBO 1200 Washington, Pa.	13	WPRO 1210 Providence, R. I.		WSPA 1410 Montgomery, Ala.		XEB 1030 Mexico City	
		WPSC 1230 State College, Pa.		WSIX 1210 Springfield, Tenn.		XEC 1333 Toluca, Mexico	
						XED 965 Reynosa, Mexico	20
WLSI WOBT	12 1/2 9 3/4	WOK WMA5	22 1/2 7	WTNT WRAK (EIRIE)	5 1/2 7		

XEE 1132 Oaxaco, Mexico	XEM 730 Tampico, Mexico	XETA 1140 Mexico City	XEY 547 Merida, Mexico
XEFA 1250 Mexico City	XEN 711 Mexico City	XETF 685 Veracruz, Mex.	XEZ 588 Mexico City
XEFE 980 Laredo, Mexico	XEO 940 Mexico City	XETO 1360 Mexico City	XFC 805 Aguascal'tntes, M.
XEH 1110 Monterrey, Mex.	XEP 1400 Laredo, Mexico	XETY 1300 Mexico City	XFF 915 Chihuahua, Mex.
XEI 1000 Morelia, Mexico	XEQ 1015 Juarez, Mexico	XEU 800 Veracruz, Mex.	XFG 638 Mexico City
XEJ 857 Juarez, Mexico	XER 735 Villa Acuna, Mex.	XEV 1034 Puebla, Mexico	XFI 818 Mexico City
XEK 990 Mexico City	XES 890 Tampico, Mexico	XEW 910 Mexico City	XFJ 860 Mexico City
XEL 1091 Saltillo, Mexico	XET 690 Monterrey, Mex.	XEX 1210 Mexico City	
	XEPN	31/2	10-132 13

INDEX BY LOCATIONS WITH MAP KEY

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Location	Watts	Call Letters	Keys.	Location	Watts	Call Letters	Keys.
MICHOACAN				Havana W-23	50	CMBQ	1500
Morelia, Mich. Y-12	101	XEI	1000		15	CMBR	1500
NEUVO LEON					150	CMBS	790
Laredo, N. L. S-13	101	XEFE	980		150	CMBT	790
	2500	XEP	1400		150	CMBW	1010
Monterrey N. L. U-13	5000	XEH	1110		350	CMBY	1225
	500	XET	690		150	CMBZ	1010
OAXACA					500	CMC	840
Oaxaca, Oak. AA-14	105	XEE	1132		150	CMCA	1225
PUEBLA					150	CMCB	1070
Puebla Z-13	101	XEV	1034		250	CMCD	925
TAMAULIPAS					250	CMCF	890
Reynosa, Tams. T-14	10000	XED	965		30	CMCG	1345
Tampico, Tams. W-14	500	XEM	730		15	CMCH	1405
	500	XES	890		250	CMCJ	620
VERA CRUZ					15	CMCM	1405
Veracruz, Ver. Z-14	500	XETF	685		250	CMCN	925
	101	XEU	800		225	CMCO	660
YUCATAN					600	CMCQ	1150
Merida, Yuc. X-19	105	XEY	547		150	CMCR	1345
WEST INDIES					150	CMCU	1285
BERMUDA					150	CMCW	1285
Hamilton M-35	7.5	TJW	1490		100	CMCY	1345
CUBA					500	CMDC	660
Caibarien W-25	250	CMHD	950		3150	CMK	730
Cardenas W-24	30	CMGE	1375		250	CMQ	1150
Camaguey W-26	30	CMJA	1200		1400	CMW	588
	150	CMJC	1382		500	CMX	890
	20	CMJE	856	Matanzas W-24	7.5	CMGB	1205
	50	CMJF	940		50	CMGF	977
Ciego de Avila W-26	15	CMJH	1017		150	CMGH	1370
Cienfuegos W-25	40	CMHJ	645	Pinar del Rio W-22	20	CMAB	1249
Colon W-24	100	CMGA	834		30	CMAC	1375
Havana W-23	150	CMBC	965	Santa Clara W-25	15	CMHI	1110
	150	CMBD	965	Santiago X-28	150	CMKC	1034
	150	CMBG	1070	Tuinucu	100	CMHC	790
	30	CMBI	1405	DOMINICAN REPUBLIC			
	20	CMBL	1500	Santo Domingo X-31	1000	HIX	669
	30	CMBN	1405	HAITI			
				Port au Prince X-30	1000	HFHK	920

# SOME STATION SLOGANS

KELW White Spot of the San Fernando Valley.  
 KEX A Public Service Necessity.  
 KFAB Home Sweet Home.  
 KPBL Voice of Puget Sound.  
 KFEL The Argonaut Station.  
 KFH Kansas' Finest Hotel.  
 KFI National Institution.  
 KFBJ Marshalltown, the Heart of Iowa.  
 KFKU Up at Lawrence on the Kaw.  
 KFNF Known for Neighborly Folks.  
 KFPL Baxter's Place.  
 KFQW Gateway to Alaska and the Orient.  
 KFRU Where Friendliness Is Broadcast Daily.  
 KFSG The Church of the Air.  
 KFUL The City of Perpetual Sunshine.  
 KFUO The Gospel Voice.  
 KFXJ America's Scenic Center.  
 KFXM Voice of the Orange Empire.  
 KFYO Breckenridge, the Dynamo of West Texas.  
 KGAR Way Out on the Desert.  
 KGB Music for the Sick.  
 KGBZ The Swine and Poultry Station.  
 KGCU The Voice of the West.  
 KGEZ The Beautiful Flathead Valley.  
 KGFI Voice of West Texas.  
 KGU In the Land of Sunshine.  
 KGW Keep Growing Wiser.  
 KGY Where the Cedars Meet the Sea.  
 KHJ Kindness, Happiness, Joy.  
 KJBS Voice of the Storage Battery.  
 KLS City of Golden Opportunity.  
 KMA Keep Millions Advised.  
 KMAC Radio Sam at San Antonio.  
 KMED See Crater Lake.  
 KMTR Your Friend in Hollywood.  
 KOAC Science for Service.  
 KOIL The Hilltop Studio.  
 KQV The Smoky City Station.  
 KQW For God and Country.  
 KRLD Down Where the Blue Bonnets Grow.  
 KREI Kummunity Southeast Idaho.  
 KSL Voice of the Intermountain Empire.  
 KSMR The Valley of Gardens.  
 KSO Keep Serving Others.  
 KTAB Knowledge, Truth and Beauty.  
 KTM The Station with a Smile.  
 KVI Puget Sound Station.  
 KWSC The Voice of the Cougars.  
 NAA Where the Time Signals Originate.  
 WAAM Sunshine Station.  
 WABI The Pine Tree Wave.  
 WADC Watch Akron Develop Commercially.  
 WAU Voice of American Insurance Union.  
 WBAK Voice of Pennsylvania.  
 WBAL The Station of Good Music.  
 WBBL Richmond, the Gateway to North and South.  
 WBBR Watch Tower.  
 WBEN Buffalo Evening News Station.  
 WBRC Biggest Little Station in the World.  
 WBT Queen City of the South.  
 WCAE Where Prosperity Begins.  
 WCAL College on the Hill.  
 WCAO Gateway of the South.  
 WCAU Where Chorus Awaits U.  
 WCHI Watch Tower Radio Word.  
 WCMR Voice of Culver.  
 WCSH Voice from Sunrise Land.  
 WDAF Voice of Times at Tampa.  
 WDAF Enemies of Sleep.  
 WDAG Where Dollars Always Grow.  
 WDEL First City of the First State.  
 WEAN We Entertain a Nation.  
 WEEI The Friendly Voice.  
 WFBG Original Gateway to the West.  
 WFBL When Feeling Blue, Listen.  
 WEI Key City of Industry.  
 WFLA Inviting the World to the Springtime City.  
 WGBB Voice of the Sunrise Trail.  
 WGES World's Greatest Entertainment Service.  
 WGST Southern School with the National Reputation.  
 WIBR Where Investments Bring Results.

WIBW Where Investments Bring Wealth  
 WICC Industrial Capital of Connecticut.  
 WIP-WFAN Watch Its Progress, Philadelphia.  
 WJAC Voice of the Friendly City.  
 WJAG Home of the Printers' Devil.  
 WJAX Wonderful Jacksonville.  
 WJBU In the Heart of the Keystone State.  
 WKBF We Keep Building Friendship.

## Their Time on the Air

THE following information regarding time on the air has been secured from the stations concerned, from newspaper clippings, and from our readers. The times shown can be quickly converted into your own time by use of the following table:

Your Zone	Where Time is Given as			
	EST	CST	MST	PST
EST	.....	Add 1 hr.	Add 2 hrs.	Add 3 hrs.
CST	Subt. 1 hr.	.....	Add 1 hr.	Add 2 hrs.
MST	Subt. 2 hrs.	Subt. 1 hr.	.....	Add 1 hr.
PST	Subt. 3 hrs.	Subt. 2 hrs.	Subt. 1 hr.	.....

State	City	Call	Keys	Watts
Arizona	Phoenix	KTAR	620	500
	Daily, 7:00 a.m.-11:15 p.m., MST.			
California	Culver City	KFVD	1000	250
	Sunday, 8 a.m.-sunset; 9:15 p.m.-12 mid., PST.			
	Mon., Tues., Thur., Sat., 6 a.m.-sunset; 10 p.m.-1 a.m.			
	Wed., Fri., 6 a.m.-sunset; 9:15 p.m.-1 a.m.			
	Inglewood	KMCS	1120	500
	Sunday, 12:30 p.m.-2 p.m.; 4:30-6:30 p.m.; 11 p.m.-7 a.m., PST.			
	Monday, 9 a.m.-7 a.m. Tues.			
	Balance week, 9 a.m.-7:30 p.m.; 11 p.m.-7 a.m.			
	Los Angeles	KFSG	1120	400
	Sunday, 7-12 a.m.; 2-5 p.m.; 6:30-11 p.m., PST.			
	Monday, 7-9 a.m.			
	Balance week, 7-9 a.m.; 7:30-11 p.m.			
	San Diego	KFSD	600	500
	Daily, 7:30 a.m.-12 mid., PST.			
	San Francisco	KFRC	610	1000
	Sunday, 8 a.m.-12 mid., PST.			
	Daily, 7 a.m.-1 a.m.			
	Stockton	KGDM	1100	250
	Daily, 6 a.m.-sunset, PST.			
Colorado	Denver	KFXF	920	500
	Sun. Mon., Wed., Sat., 8:30 a.m.-6 p.m.; 7:30 p.m.-12 mid., MST.			
	Tues., Thur., Fri., 8:30 a.m.-6 p.m.; 7:30 p.m.-9 p.m.			
	Denver	KPOF	880	500
	Sun. Mon. Wed., 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.			
	Tues., Thur., 7:30-9 a.m.; 2:30-4:30 p.m.; 6-8 p.m.			
	Fri., Sat., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.			
	Test programs 2 a.m.-3 a.m. MST, last Tuesday in month, Oct.-April.			
Iowa	Shenandoah	KMA	930	500
	Sunday, 8-9:15 a.m.; 11:15 a.m.-1:30 p.m.; 3-4:30 p.m.; 6-7 p.m.; 8:30-11 p.m., CST.			
	Monday, 6-7:30 a.m.; 9:30-11 a.m.; 12:30-2 p.m.; 3:30-5 p.m.; 6:30-12 mid.			
	Tues., Fri., 6-7:30 a.m.; 9:30-11 a.m.; 12:30-2 p.m.; 3:30-5 p.m.; 6:30-8:30 p.m.			
	Wednesday, 9:30-11 a.m.; 12:30 a.m.-2 p.m.; 3:30-5 p.m.; 6:30-8:30 p.m.; 10-11:30 p.m.			
	Thursday, 9:30-11 a.m.; 12:30-2 p.m.; 3:30-5 p.m.			
	Saturday, 6-7:30 a.m.; 9:30-11 a.m.; 12:30-2 p.m.; 3:30-5 p.m.			

State	City	Call	Keys.	Watts
Louisiana	New Orleans	WABZ	1200	100
	Sunday, 5-9 p.m., CST.			
	Monday, 8 p.m.-2 a.m.			
	Friday, 8 p.m.-1 a.m.			
	Balance week, 8 p.m.-12 mid.			
	New Orleans	WWL	850	5000
	Sunday, 10 a.m.-7:45 p.m., CST.			
	Daily, 8 a.m.-3:30 p.m.			
Mississippi	Meridian	WCOC	880	500
	Sunday, 5-11 p.m., CST.			
	Daily, 7:30 a.m.-1:30 p.m.			
	Late night and early morning programs often.			
New York	New York	WPCB	570	500
	Daily, 9 a.m.-6:30 p.m., EST.			
North Dakota	Bismarck	KFYR	550	1000
	Sunday, 10 a.m.-10:30 p.m., CST.			
	Daily, 6:15 a.m.-12:30 p.m.; 2:00-10:30 p.m.			
Oregon	Portland	KGW	620	1000
	Sunday, 8 a.m.-12 mid., PST.			
	Daily, 6:30 a.m.-12 mid.			
	Saturday, 6:30 a.m.-1 a.m.			
	Portland	KOIN	940	1000
	Sunday, 8 a.m.-11:30 p.m., PST.			
	Daily, 6 a.m.-1 a.m.			
Pennsylvania	Pittsburgh	WWSW	1500	100
	Sunday, 10 a.m.-10 p.m. EST.			
	Daily, 9 a.m.-11 p.m.			
	Saturday, 9 a.m.-12 mid.			
	Scranton	WQAN	880	250
	Mon., Wed., 9-9:30 a.m.; 12:30-1:30 p.m.; 4:30-5:30 p.m., EST.			
	Tues., Fri., 12:30-1:30 p.m.; 4:30-5:30 p.m.; 8 p.m.-12 mid.			
	Thur., Sat., 12:30-1:30 p.m.; 4:30-5:30 p.m.			
Texas	Beaumont	KFDM	560	500
	Sunday, 8:30 a.m.-10:15 p.m., CST.			
	Daily, 7 a.m.-2 p.m.; 4:30-10 p.m.			
Washington	Bellingham	KVOS	1200	100
	Sunday, 9:45 a.m.-9 p.m., PST.			
	Daily, 6:45 a.m.-11 p.m.			
	Seattle	KJR	970	5000
	Sun., Mon., Tues., 8 a.m.-12 mid., PST.			
	Balance week, 6 a.m.-12 mid.			
	Seattle,	KRSC	1120	50
	Daily 6 a.m.-5:30 p.m., PST.			
<b>CANADA</b>				
Alberta	Calgary	CFAC	690	500
	Sunday, 11 a.m.-12:30 p.m.; 2:45-5 p.m.; 7-9 p.m., MST			
	Monday, 8-9 a.m.; 11:30 a.m.-1:45 p.m.; 3:30-6 p.m.; 9-10:30 p.m.			
	Tues., Thur., 8-9 a.m.; 11:30 a.m.-1:45 p.m.; 3:30-6 p.m.; 7-12 mid.			
	Wednesday, 8-9 a.m.; 11:30 a.m.-1:45 p.m.; 3:30-6 p.m.; 8:30-11:30 p.m.			
	Friday, 8-9 a.m.; 11:30 a.m.-1:45 p.m.; 3:30-6 p.m.; 10-12 mid.			
	Saturday, 8-9 a.m.; 11:30 a.m.-1:45 p.m.; 3:30-6 p.m.; 7-8 p.m.			
British Columbia	Chilliwack	CHWK	665	100
	Daily (except Sunday), 12 noon-7 p.m., PST.			
	Special DX each Friday, midnight-1 a.m. Sat.			
Quebec	Quebec	CHRC	645	100
	Sunday, 12 noon-11 p.m., EST.			
	Daily, 8 a.m.-2 p.m.; 6 p.m.-12 mid. (Sat. off 11 p.m.)			

**STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY ACT OF CONGRESS OF AUGUST 24, 1912**

Of Radio Index, published monthly except July and August, at Cleveland, Ohio, for October 1, 1931.  
 State of Ohio }  
 County of Cuyahoga } ss.

Before me, a notary public in and for the State and county aforesaid, personally appeared Fred C. Butler, who, having been duly sworn according to law, deposes and says that he is the Editor and Publisher of the Radio Index, and that the following is to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 411, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor managing editor, and business managers are:  
 Publisher, Fred C. Butler, 5005 Euclid Ave., Cleveland, O.  
 Editor, Fred C. Butler, 5005 Euclid Ave., Cleveland, O.  
 Managing Editor, Fred C. Butler, 5005 Euclid Ave., Cleveland, O.  
 Business Manager, Fred C. Butler, 5005 Euclid Ave., Cleveland, O.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

Fred C. Butler, doing business as The Radex Press.

3. That the known bondholders, mortgagees and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed through the mails or otherwise, to paid subscribers during the six months preceding the date shown above is. (This information is required from daily publications only.)

Fred C. Butler.

Sworn to and subscribed before me this 1st day of October, 1931.

[ Seal ]

R. E. Schmiel.

(My commission expires April 5, 1932.)

**AMATEUR BROADCAST STATIONS IN CANADA**

Call	Owner of Station	Location of Station	Keys.	Meters	Watts
10 AK	Classic Radio Club	151 Ontario St., Stratford, Ont.	1200	250	10
10BU	Canora Radio Association	Railway Ave., East Canora, Saskatchewan	1200	250	15
10BP	Wingham Radio Club	Brunswick Hotel Bldg., Wingham, Ont.	1200	250	15
10BI	Prince Albert Radio Club	331 20th St. West, Prince Albert, Saskatchewan	1200	250	25
10AB	Moose Jaw Radio Association	338 Main St., North Moose Jaw, Saskatchewan	1200	250	25
10BQ	Telephone City Radio Asso.	12 Terrace Hill, Brantford, Ont.	1200	250	5

The World Stations by Frequencies appeared in the November issue. World Stations by Countries were published in October. Next month a list of the Short-Wave Broadcasters of North America.

# FAVORITE PROGRAMS

Time	Station	Dials	Feature	Time	Station	Dials	Feature
<b>DAILY</b>				<b>WEDNESDAY</b>			
2:00-2:30	WABZ	18½	December 26				
3:00-3:30	WABZ	7½	" "				
3:30-4:00	WDSO	27½	" "				
4:30-5:00	WKYC	9	Sunday				
5:00-5:30	WDZ	18½	December 20				
5:30-6:00	WBNS	13½	" 25				
6:00-6:30	KPOF	31½	" 29				
<b>SUNDAY</b>				<b>THURSDAY</b>			
3:00-4:00	CHOK	64	Thursday				
<b>MONDAY</b>				<b>FRIDAY</b>			
<b>TUESDAY</b>				<b>SATURDAY</b>			

# HOW TO TUNE A SET CORRECTLY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

KNO 1900 Spokane, Wash.  
WCAJ 500 Elkhart, Ind.  
WED 1000 Boston, Mass.  
WOW 1000 Omaha, Neb.  
WVIC 1000 Brainerd Springs, Mich.

600 kilocycles 499.7 meters

CFCH 350 Froquois Falls, Ont.  
KIDJ 1000 San Diego, Calif.  
WED 250 Baltimore, Md.  
WEMW 250 Beirut, Wis.  
WGAN 500 Lancasterburg, Tenn.  
WVIC 500 Memphis, Tenn.  
WVIC 750 Hartford, Conn.

610 kilocycles 491.5 meters

CFRC 1000 San Francisco, Calif.  
KIDJ 1000 Kansas City, Mo.  
WGAN 500 Philadelphia, Pa.  
WVIC 1000 Kansas City, Mo.

620 kilocycles 483.6 meters

KPAD 500 Phoenix, Ariz.  
KIDJ 1000 Omaha, Neb.  
KIDJ 1000 Tampa, Fla.  
WED 500 Philadelphia, Pa.  
WVIC 1000 Denver, Colo.  
WVIC 1000 Milwaukee, Wis.

630 kilocycles 475.9 meters

CFCH 500 Victoria, B. C.  
CFCH 500 Vancouver, B. C.  
KIDJ 500 Moncton, N. B.  
KIDJ 500 Montreal, Que.  
WEMW 500 Columbia, Mo.  
WGAN 500 Knoxville, Tenn.  
WOS 500 Jefferson City, Mo.

640 kilocycles 468.5 meters

KFI 500 Los Angeles, Calif.  
WATU 5000 Columbus, Ohio

650 kilocycles 461.3 meters

WSM 5000 Nashville, Tenn.

660 kilocycles 454.3 meters

WFEW 5000 New York City

670 kilocycles 447.5 meters

WMAO 500 Chicago, Ill.

680 kilocycles 440.9 meters

KPO 5000 San Francisco, Calif.  
WPTF 5000 Raleigh, N. C.

76 74

Louis Warner, Inc.  
Robinson-Wrightman University  
Edison Elec. Illuminating Co.  
Woodmen of the World  
Commercial Missionary College

75 73

Abilene Power & Paper Co.  
Bishop & Thomas  
Albany Radio Club  
International Radio Co., Inc.  
Belair College  
Youthmen National of Music  
WMAK, Inc.  
Travelers Insurance Co.

74 72

Don Lee, Inc.  
Kansas City Star Co.  
Kesterson Broadcasting Co., Inc.  
Citizens Union, Inc.  
Unity School of Christianity

73 71

Electrical Equipment Co.  
Oregonian Publishing Co.  
James Publishing Co.  
Ballou College, Inc.  
Thompson L. Greenleaf  
Milwaukee Journal

72 70

Victoria Broadcasting Ass'n  
Whitcomb Grain Elevator  
Canadian National Railways  
Carroll L. Lippman  
Stephen College  
Engineers on the Air, Inc.  
M. A. Lewis Co.  
State Marketing Bureau

70 68

Radio Antennas, Inc.  
American Insurance Union

70 68

National Life & Accident Ins. Co.

69 67

Omaha Grain Exchange  
National Broadcasting Co., Inc.

68 66

Chicago Daily News, Inc.

67 65

State Bros. & The Chronicle  
New York Life Insurance Co.



*Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am certainly rolling in the money now. Maybe my story will show you the way to larger earnings also.*

# 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, a year ago I thought anyone making that much was just plain lucky.

Twelve months ago I was just barely getting by. It was the same old story—a little job; a salary as small as the job.

If you had told me that twelve months later I would be making \$100 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees a half a mile long to make good money.

One day I picked up a magazine and the headline of an ad attracted me because it seemed to fit my case. It said, "I will show you how to start a spare time or full time Radio business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought. "but I'll find out what it is all about anyway."

I wrote in and within a few days received a 64-page book telling about the opportunities in Radio, how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets and doing other jobs. It would probably have sounded too good to be true if the promises had not been backed up by 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream to me now. I took their course and in about a month I was ready to start making money in my neighborhood—as much as \$20 and \$30 a week. It wasn't long until I had saved enough money to start a little business of my own.

That business has since grown to the point where I am clearing an average of \$100 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines—in case I wasn't interested in having my own business. Broadcasting stations, Radio Manufacturers, Operating on Board Ship Servicing sets, Aircraft Radio, Tele-

vision and Talking Movies are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I have never had a chance—will never have one because I have no pull and have never had the advantage of a good education!"

Friend—you may not be as bad off as I was—but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years, at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

Take my tip—write for their book. It won't cost you anything—only a two-cent stamp. It shows you a lot of things which I don't believe you know now—a lot of facts and figures on the opportunities in this new fast-growing field. Where the jobs are, what they pay, how to get ready for one. Beginners as well as experienced men are making as much as \$1,000 to \$2,000 a year more as a result of N. R. I. training. You place yourself under no obligation because the book is free and is gladly sent to anyone who is ambitious and wants to get ahead. Just address J. E. Smith, President National Radio Institute, Dept. 1NO, Washington, D. C.

J. E. SMITH, President,  
National Radio Institute,  
Dept. 1NO, Washington, D. C.

Dear Mr. Smith:

Send me your 64-page free book, which gives information on the opportunities in Radio—Operating on Board Ship, in Broadcasting Stations, Commercial Land Stations, Set Servicing, Radio Manufacturing, Aircraft Radio, Television and Talking Movies. I understand this request places me under no obligation and no salesman will call on me.

Name .....

Address .....

City ..... State .....