

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?

## **RADIO THEORY AND MODERN PRACTICE**

**A New Book in Simple Terms  
Profusely Illustrated**

With chapters on Radio Principles, Vacuum Tubes, Receiver Circuits with diagrams of many of the best-known sets, Short Waves, Aerials, Loud Speakers, Radio Troubles, Radio Instruments, Broadcasting Transmitters, Television, etc.

224 pages, printed in large type, bound in flexible cloth, every point illustrated with drawing or diagram.

**Price, \$1.00, postpaid**

## **FILTERED AERIAL**

A revolutionary antenna composed of a solid straight wire insulated, and over the insulation is helically-wound enamelled wire the entire length

The straight inside wire is connected to a ground at each end, while one end of the helically-wound wire goes to the aerial post of the set.

Working on the transformer principle, the Filtered Aerial picks up very weak signals and amplifies them.

*Coil contains 60 feet, but the helically-wound wire is considerably longer due to winding.*

**Price, \$1.50, postpaid**

## **Headphone Adapter for Modern A. C. Sets**

Permits the use of the radio at night when others want to sleep and brings in those tantalizing DX stations that can't quite be brought out on the loud speaker.

Requires no risky changes in the wiring. Simply remove the last tube before the speaker and insert adapter in the socket. This cuts out power stage and reduces volume to comfortable point. If last stage is in push-pull, remove both tubes and place adapter in either socket.

*Can be used with any set using four-prong tubes in last stage.*

**Price, \$1.50, postpaid**

For five-prong tubes (Pentode) an extra adapter is required—price, \$1.00 or \$2.50 complete.

## **I. C. A. PHONES**

**Complete with Head Bands**

Specially made of lightweight material and give true reproduction of the broadcast signals. They are made of molded bakelite and lightweight nickle-plated metal. Extremely sensitive and reproduce the faintest signals.

2000 ohms.

**Price, \$2.75, postpaid**

## **Leatherette Cover**

**For Your RADEX**

A new cover just received. Most beautiful we have ever used. A rich brown trimmed in gold. Large pockets into which the covers of your latest RADEX are easily slipped. Matches the beauty of your set, protects your book and gives solid backing for making entries.

You'll be delighted with this cover.

**Price, 50 cents, postpaid**

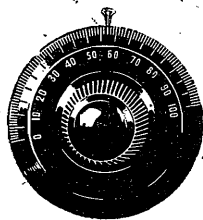
**THE RADEX PRESS » 5005 Euclid Avenue, Cleveland, Ohio.**

DECEMBER 1, 1931

# RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER  
Editor and Publisher



EIGHTH YEAR

## Contents

NUMBER 54

Frontispiece — Miriam Hopkins, Star of "Best People" Recently Interviewed in Radio "Close-Ups."	
What Does 1932 Offer in Radio? .....	2
Dials and Difficulties, by B. Francis Dashiell .....	6
Back of the Studio Scenes, by "Betty" .....	9
Can I Use the Variable-Mu? .....	11
Across the Nation With a Portable, by Raymond M. Bell .....	12
The Month's Changes .....	13
Life in Thompkins' Corners, the Story of "Real Folks" .....	14
How Ted Husing Caught His Football Plays .....	16
Radio Commission Swings Axe on Eight Stations .....	18
With the Midnight Marauders .....	24
Chain Stations, Alphabetically .....	32
What's on the Air Tonight? .....	33
A Complete Index by Frequencies .....	40
A Complete Index by States and Cities .....	54
A Complete Index by Call Letters .....	60
Some Station Slogans .....	66
Their Time on the Air, DX Programs .....	66

Published Monthly Excepting July and August  
See Subscription Blank on Page 22

\$1.75 per Year

25c per Copy

THE RADEX PRESS

5005 Euclid Avenue

Cleveland, Ohio

"Entered as second-class matter April 23, 1931, at the post office at  
Cleveland, Ohio, under the Act of March 3, 1879."

Printed in U. S. A.

# 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.

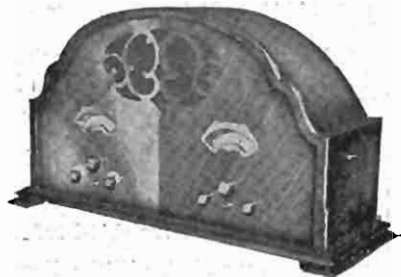


Atwater Kent model 82. This is a popular midget superheterodyne set using the variable- $\mu$  and pentode tubes with tone control and quick vision dial. The a.c. model sells for \$69.80, and the d.c. 2-volt model with "air-cell" battery sells for \$94.80.

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.

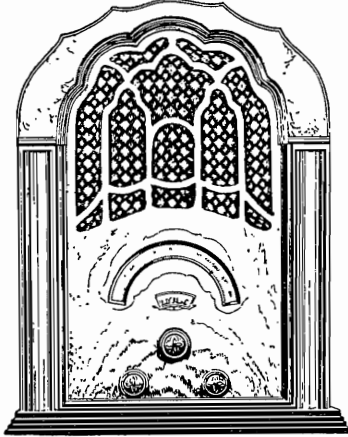
Combined broadcast and short-wave receivers with built-in television apparatus are newly offered. They will receive voice and picture broadcasts simultaneously on two different wave lengths. The Baird model sells for \$300, and the Empire State model is similarly priced. The Jenkins Television Corporation 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 "Litlfella." 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 tone 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 —30 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: KFJF-XFF-KFNF-CFCF-KFH-WF1-KGFF-WDF-KWFF-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





# 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 super-hetrodyne 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 Steinite 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 variometer 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



*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.*

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)*

# 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.

---

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 Lena," 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.*



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	Toceca, 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	WHBU	Anderson, Ind., to Anderson Brdcast. 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 Brdcast. 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	CNRX	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, PEI., 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 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,

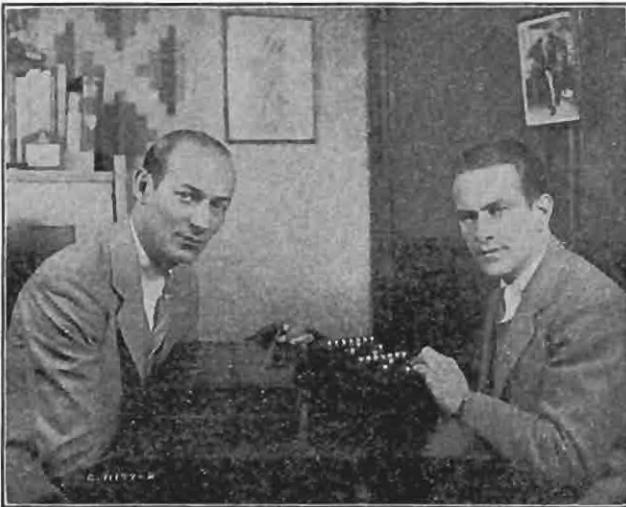
## Interesting Electrical Device Used

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 keys, 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-adapter 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 aerials: "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.

RADIO WORLD is the first and only national Radio Weekly. In tenth year. The news of the progress of the entertainment, science and business of radio *when it is news*. 15c a copy; newsdealers everywhere.

RADIO WORLD 145 West 45th Street  
New York N. Y. (Just East of Broadway)

Enclosed please find \$..... for.....  
weeks subscription for RADIO WORLD and  
please send as free premium the meters checked  
off below.

- I am a subscriber. Extend my subscription.  
(Check off if true.)
- 0-6 Voltmeter D. C. .... No. 326  
 0-50 Voltmeter D. C. .... No. 337  
 6-Volt Charge Tester D. C. .... No. 23  
 0-10 Amperes D. C. .... No. 338  
 0-25 Milliamperes D. C. .... No. 325  
 0-50 Milliamperes D. C. .... No. 350  
 0-100 Milliamperes D. C. .... No. 390  
 0-300 Milliamperes D. C. .... No. 399  
 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.

Olivier 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

**INSURE YOUR RADIO ENJOYMENT**

**SEND THIS BLANK TODAY**

The Radex Press,  
5005 Euclid Avenue,  
Cleveland, Ohio

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

- One radio map of North America ..... 25c
- One copy of the next RADEX ..... 25c
- Trial subscription, next five issues of RADEX ..... \$1.00
- One year's subscription to RADEX, 10 issues, and Radio Map free ..... 1.75
- 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 kcys. 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 postscripts "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 kcys. 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 kcys. 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. WDX, Tuscola, Ill., 1070 kcys., 2:00-2:30 a.m., E.S.T.; WAAB, Boston, Mass., 1410 kcys., 2:00-3:00 a.m., E.S.T.; WBSO, Needham, Mass., 920 kcys., 3:00-4:00 a.m., E.S.T.; WJAY, Cleveland, Ohio, 610 kcys., 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 kcys.? 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 kcys.? 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 fireboat John Purroy Mitchell, belonging to the City of New York, which has a frequency of 1596 kcys.

#### **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 kcys.," advises W. Dyson, 72 Cambridge Ave., Hamilton, Ont. Reports are desired and if you cannot get Canadian postage, send three pennies, or a nickle. 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 Janecko, 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, K TAR, 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, GFVW, 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 kcys., 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 kcys. 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	Amartillo, Texas
KGFL	Kingman, Ariz.
KSI	Los Angeles, Calif
WAEE	Camden, N. J.
WAEC	Pittsburgh, Pa.
WAEA	Indianapolis, Ind.
KSY	Tulsa, Okla.
KSX	Albuquerque, N. M.
KGTTJ	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	Ahlene, Texas
WSDP	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 kcys. 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.....**860**.....WABC NATIONAL, Red.....**650**.....WEAF NATIONAL, Blue.....**760**.....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 **139 132 77 124**

DIAL **107 92 79 82**

DIAL **145 98 75 70**

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

DAILY

DAILY

DAILY

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	WOAJ 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	WEEL 590 N	WJR 750 N	WRVA 1110 N
KFYR 550 N	WAAB 1410 C	WENR 870 N	WJZ 760 N	WSAJ 1330 N
KGA 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 1460 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.

--	--	--

--	--	--

--	--	--

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 KFH KFJF KFPY  
KFRC 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  
KFRC KGB KHJ KLZ  
KMOX KOH KSCJ KVI  
KVOR WABC WBT WCAU  
WCCO WDSU WFBM 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  
WWVA

**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 WWVA

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

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

**8:00-8:15 The Mills Brothers**  
(Except Mon., Wed., Fri.)  
KFH KFJF KMOX KOIL  
KRLD KSCJ KTSA WABC  
WACO WADC WBRU 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 WCAF  
WEEL WFI WGY WRC  
WTAM

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

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

**9:00-4:00 Woman's Radio Review**  
(Except Saturday)  
KSD KYW WBEN WCAE  
WCSH WDAF WCAF WFI  
WGY WOC WOV WRC  
WSAI WTAM WWJ

**4:30-5:00 Phil Spitalny, Tea**  
Dansante  
KSD WBEN WCAE WCAF  
WGY WOC WTAM WWJ

**6:00-6:30 Waldorf-Astoria Orch.**  
CKGW KGO KSD KSL  
WAPI WCAE WCAF WFI  
WHAS WIOD WIS WJDX  
WKY WRC WSM

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

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

**7:45-8:00 The Goldbergs**  
WBEN WCAE WCAF 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  
WEAF WECB WENR WFAA  
WFI WFLA WGY WIBA  
WIOD WJAX WJDX WKY  
WMC WOAI WOC WRC  
11:15-11:30 Prince Albert—Alice Joy  
KPRC KSD KTHS WAPI  
WBAP WHAS WJDX WKY  
WMC WOAI WOC WOV  
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 WBAZ 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)  
KKW KYW WGAR WHAM  
WIBA WJZ

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

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

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

**7:30-7:45 Phil Cook, Quaker Man**  
(Except Saturday)  
KDKA WBAZ WENR WGAR  
WHAM WJZ WREN

**8:45-9:00 Sisters of the Skillet**  
(Except Mon., Wed., Sat.)  
KDKA KFAB KPRC KSTP  
KVOO KWK WBAP WBAZ  
WDAY WECB WHAM WIBA  
WJZ WKY WLS WOAI  
WREN WTMJ

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

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

### Columbia ----- WABC

8:30-8:45 Kate Smith — La Palina  
(Except Tuesdays and Fridays)  
KMBK KMOX KOIL WABC  
WADC WCAU WCCO WPBM  
WGN WHK WJAS WKRC  
WMAL WQOW  
10:45-11:00 Myrt and Marge  
(Except Saturday)  
KDYL KFPY KFRC KHJ  
KLZ KMBC KOIN WBBM  
WCCO  
11:00-11:15 Creme — Bing Crosby  
KDYL KFPY KLZ KOH  
KOIN K TSA WGN WQOW  
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 WQOW  
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 Budapest  
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 KFPY  
KMOX KOH KSCJ KVI  
WABC WFBL WIBW WJAS  
WMAL WTAQ

2:00-2:30 Sons of Eli Spirituals  
KMBK KMOX KOL KRLD  
WABC WADC WBBM WBRC  
WBT WCAU WCCO WDSU  
WFBL WHK WJAS WKRC  
WLAC WMAL WNAC WQOW

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 WBW 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 ---- WEFW

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

### SUNDAY

1:00-1:30 Isa Kremer with Orch.  
CFRC CKGW KGO KGW  
KOA KOMO KPRC KSL  
KSTP WAPI WBEN WCAE  
WDAF WDAY WEAF WBCB  
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  
CFRC CKGW WBEN WCHS  
WEAF WFI WGY WRC

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

2:15-2:30 Bright Spot—Pettis Orch.  
CFRC CKGW KGW KHQ  
KOA KPO KSD KSL  
KSTP KTAR KVOO KYW  
WAPI WBEN WCAE WCHS  
WDAF WDAY WEAF WBCB  
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 WCHS WDAF  
WEAF WGY WLIT WMAQ  
WOW WRC WTAM WWJ

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

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

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

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

5:00-5:30 Artists' Service Program  
WBEN WCAE WCHS 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 KFVR WENR WJZ  
WJZ WKY WRC WREN  
WST

11:45-12:00 Lew White, \*Organ  
(Except Tuesday and Friday)  
KFAB KFVR WENR WJZ  
WRC WREN WSB

12:00-12:15 Mildred Bailey and Jesters  
(Except Tuesday and Friday)  
KDKA KFAB WBAP 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 Inst.  
KFAB KGO KOA WDAY  
WHAM WHAS WJZ WMAQ

1:15-2:15 Walter Damrosch Hour  
KDKA KFAB KFVR 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  
WNNC

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

3:00-3:30 National Youth Conf.  
KDKA KFAB KFVR 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 WNNC

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

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

5:00-5:30 National Vespers  
KDKA KFAB KFI KFVR  
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  
WNNC

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



**Columbia ----- WABC**

WCCO WDSU WFMB WHK  
 WIBW 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  
 KFOR WIBW WQAM  
**6:30-7:00 Barnsdall Musical**

**Memories**

KFH KFJF KLRA KMBC  
 KMOX KOIL KSCJ WCCO  
 WGN WIBW

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

KDYL KFH KFJF KFPY  
 KFRC KGB KLZ KMOX  
 KOH KOL KSCJ KVI  
 KFOR WABC WBT WCCO  
 WDSU WFBL WFMB WIBW  
 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  
 KOIN KSCJ K TSA KVI  
 WABC WADC WBRW WCAU  
 WCCO WDSU WFBL WGN  
 WHK WIBW WJAS WKRC  
 WLAC WMAL WNAC

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

KDYL KFJF KGB KLZ  
 KOH KSCJ KFOR WBBM  
 WCCO WIBW WNAC

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

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

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

KDYL KFJF KFPY KFRC  
 KLZ KMOX KSCJ KFOR  
 WBT WCAU WCCO WDSU  
 WFMB 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  
 WOWO

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

KDYL KFH KFJF KLZ  
 KMBC KMOX KRLD K TSA  
 WABC WADC WBBM WCAU  
 WCCO WDSU WFBL WFMB  
 WHK WJAS WKBW WKRC  
 WMAL WOWO

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

CFRB CKAC KDYL KFJF  
 KFPY KGB KLZ KMOX  
 KSCJ KFOR WABC WBT  
 WCAU WDSU WFBL WFMB  
 WHK WIBW WJAS WKBW  
 WMAL WNAC WPG WQAM  
 WTOC

**11:00-11:30 The Gauchos—Spanish****Program**

KDYL KFH KFJF KFPY

**National, Red ----- WEFB**

KVOO WAPI WBAP WBEN  
 WCAE WCSH WDAF WDAY  
 WEFB WECB WENR WFI  
 WFLA WGY WIBA WIOD  
 WIS WJAX WJDX WKY  
 WMC WOAI WOC WOW  
 WPTF WRC WRVA WSAI  
 WSB WSMB WTAM WTMJ  
 WWJ WWNC

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

KGO KGW KOA KOMO  
 KPRC KSD KSTP KTAR  
 KTHS KVOO WBAP WBEN  
 WCAE WCSH WDAF WDAY  
 WEFB WECB WENR WFLA  
 WGY WIBA WIOD WJAX  
 WJDX WKY WLIT WMC  
 WOAI WOC WOW WRC  
 WRVA WSAI WSB WSM  
 WSMB WWJ

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

CPCF WCAE WDAF WEFB  
 WFLA WGY WIS WRC  
 WRVA WSAI WWNC

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

KSD WBEN WCAE WCSH  
 WDAF WEFB WGY WLIT  
 WLS WOC WRC WSAI  
 WTAM WWJ

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

CPCF CKGW KPRC KSD  
 KSTP KTHS KVOO WBEN  
 WCAE WCSH WDAF WEFB  
 WECB WFAA WFLA WGY  
 WHAS WHO WIOD WJDX  
 WKY WLIT WLS WMC  
 WOAI WOW WRC WSAI  
 WSB WSMB WTAM WTMJ  
 WWJ

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

KSD KTHS KVOO WBEN  
 WCSH WEFB WENR WFAA  
 WFI WFLA WGY WIOD  
 WIS WJDX WOC WOW  
 WRC WSAI WWNC

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

KFI KGO KGW KHQ  
 KOA KOMO KPRC KSD  
 KSTP KTAR KTHS WAPI  
 WBEN WCAE WCSH WDAY  
 WEFB WECB WENR WFI  
 WFLA WGY WHAS WIBA  
 WIOD WJAX WJDX WKY  
 WOAI WOC WOW WRC  
 WRVA WSAI WSB WSM  
 WSMB WTAM WTMJ WWJ

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

KFI KGO KGW KHQ  
 KOA KOMO KPRC KSD  
 KSTP KTAR KTHS WAPI  
 WAPI WBAP WBEN WCAE  
 WCSH WDAF WDAY WEFB  
 WECB WENR WFAA WFI  
 WFLA WGY WHAS WIBA  
 WIOD WJDX WKY WMC  
 WOAI WOC WOW WRC  
 WRVA WSAI WSB WSM  
 WSMB WTAM WTMJ WWJ

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

KFI KGO KGW KHQ  
 KOA KOMO KSTP KTAR  
 KYW WAPI WBEN WCAE  
 WCSH WDAF WDAY WEFB  
 WECB WFI WGY WHAS  
 WJDX WKY WMC WOAI  
 WOC WOW 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 KTAR 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  
 KTAR KWK KYW WCKY  
 WDAY WECB WGAR WIBA  
 WJR WJZ WREN WTMJ

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

KDKA KFI KGO KGW  
 KHQ KOA KOMO KSL  
 KSTP KTAR KVOO KWK  
 WDAY WECB WGAR WHAM  
 WJZ WKY WLS WLW  
 WOAI WREN WTMJ

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

KDKA KFI KGO KGW  
 KHQ KOA KOMO KPRC  
 KSL KSTP KTAR KVOO  
 KWK KYW WBZA WDAY  
 WECB 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**

CPCF CKGW KDKA KFAB  
 KFI KGW KHQ KOA  
 KOMO KPO KPRC KSL  
 KSTP KTAR KTHS KVOO  
 KWK KYW WBZA WDAY  
 WECB 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 KGW KHQ  
 KOA KOMO KPO KSL  
 KWK KYW WBZA 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 WBZA  
 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 WJZ 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 WECB 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**

KFCR KGB KLLZ KSCJ  
 KFOR WABC WBT WCAU  
 WDSU WFBL WFBM WHK  
 WJBW WMAL WNAC WPG  
 WQAM WTOC

**11:30-12:00 Ben Bernie and Orch.**  
 KDYL KFJF KRJF KFPY  
 KGB KLZ KSCJ KFOR  
 WABC WBT WCAU WCCO  
 WDSU WJBW WMAL WNAC  
 WPG WQAM WTOC

**12:00-12:30 Eddie Duchin and Orch.**  
 KDYL KRJF KFPY KLZ  
 KFOR WABC WCAU WCCO  
 WJBW WNAC

**12:30-1:00 Ann Leaf at Organ**  
 KDYL KRJF KFPY KLZ  
 KMOX KOH KFOR WABC  
 WCAU WCCO WFBL WJBW

**MONDAY**

**6:45-7:00 Reis and Dunn Comedy**  
 KFJF KRJF KLZ KOH  
 KSCJ KFOR WABC WBT  
 WDSU WFBL WJAS WKBW  
 WMAL WQAM WTOC

**9:00-9:15 Pompeian Make-Up Box**  
 CFRB KMBC KMOX KOIL  
 WABC WADC WCAU WFBL  
 WGN WHK WJAS WKBW  
 WKRC WMAL WNAC WOWO

**9:15-9:30 Howard Barlow Orch.**  
 CFRB KFJF KRJF KFPY  
 KGB KHJ KLZ KMOX  
 KOH KSCJ KFOR WABC  
 WBT WDSU WFBL WJBW  
 WJAS WKBW WQAM WTAQ  
 WTOC

**9:30-10:00 Bourgeois Evening in Paris**  
 KDYL KFJF KFPY KFCR  
 KHJ KLZ KMBC KMOX  
 KOIL KOIN KRLD WABC  
 WADC WBT WCAU WCCO  
 WDSU WFBL WGN WHK  
 WJAS WKBW WKRC WMAL  
 WNAC WOWO

**10:00-10:30 Pataneta — Guy Lombardo**  
 KDYL -KFJF KFPY KFCR  
 KHJ KLZ KMBC KMOX  
 KOIL KOIN KRLD KTSA  
 WABC WADC WBBM WCAU  
 WCCO WFBL WFBM WHK  
 WJAS WKBW WKRC WMAL  
 WNAC WOWO

**10:30-10:45 Toscha Seidel, Violinist**  
 CFRB KDYL KFJF KFPY  
 KGB KLZ KOH KSCJ  
 KFOR 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 WNAC

**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  
 WNAC

**8:30-8:45 Red Goose Adventures**  
 KDYL KFJF KRJF KFPY  
 KFCR KGB KHJ KLZ

**National, Red . . . . . WEAF**

WBEN WCAE WCSH WDAF  
 WDAY WEAJ WBBB WFPA  
 WFT WFLA WGY WHAS  
 WIO WJBA WJOD WJAX  
 WJDX WKY WMC WOW  
 WPTF WRC WRVA WSAI  
 WSB WSM WSMB WTAM  
 WTMJ WWJ

**11:30-12:00 Jesse Crawford at Organ**  
 WDAF WEAJ WENR WGY  
 WOC WOW WRC WTAM  
 WWJ

**MONDAY**

**8:00-8:30 Soconyland Sketches**  
 WBEN WCSH WEAJ WGY

**8:30-9:00 Voice of Firestone**  
 CFCF CKGW KPRC KSD  
 KTHS KVOO WBEN WCAE  
 WCSH WDAF WEAJ WFPA  
 WFLA WGY WHAS WIOD  
 WIS WJAX WJDX WKY  
 WLIT WMAQ WMC WQAI  
 WOC WOW WPTF WRC  
 WRVA WSAI WSB WSM  
 WSMB WTAM WWJ WWCN

**9:00-9:30 A. & P. Gypsies**  
 KSD WBEN WCAE WCSH  
 WDAF WEAJ 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 KTAR  
 WBEN WCAE WCSH WDAF  
 WEAJ WFPA WGY WHAS  
 WJDX WKY WLIT WMAQ  
 WMC WQAI WOC WOW  
 WRC WSAI WSB WSM  
 WTAM WTMJ WWJ

**10:00-10:45 True Story — Mary and Bob**  
 KSD WBEN WCAE WCSH  
 WEAJ WENR WGY WLIT  
 WOC WRC WSAI WTAM  
 WWJ

**11:00-11:30 Coon-Sanders' Orch.**  
 KSD WEAJ WGY WOW  
 WWJ

**TUESDAY**

**6:30-6:45 Nick Lucas, Troubadour**  
 KFJR KOA KSD KSTP  
 KVOO WCAE WDAF WEAJ  
 WENR WJAX WJDX WOW  
 WWJ

**7:00-7:30 Mid-Week Hymn Sing**  
 KOA KSTP WBEN WCAE  
 WCSH WEAJ WFI WJDX  
 WSAI WSB WSM

**8:00-8:30 Blackstone — Sanderson-Crumit**  
 KSD KSTP KYW WBEN  
 WCAE WCSH WDAF WEAJ  
 WBBB WFI WGY WOC  
 WOW WRC WSAI WTAM  
 WWJ

**8:30-9:00 Sousa and his Band**  
 KPRC KSD KYW WBEN  
 WCAE WCSH WDAF WEAJ  
 WFI WFLA WGY WHAS  
 WIOD WJAX WJDX WMC  
 WQAI 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  
 KTAR KYHS KVOO WBEN  
 WCAE WCSH WDAF WDAY  
 WEAJ WBBB WFI 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 KFYR  
 KGO KGW KHQ KOMO  
 KSL KSTP KTAR KWK  
 WBZA WBBB WGAR WHAM  
 WJAX WJZ WLS WREN

**9:00-9:30 Maytag Orchestra**  
 KDKA KGO KGW KHQ  
 KOA KOMO KPRC KSL  
 KQO KWK WBZA WDAY  
 WBBB WFPA WGAR WHAM  
 WIS WJR WJZ WKY  
 WMC WQAI 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 WBBB WFLA  
 WGAR WHAM WIOD WJAX  
 WJR WJZ WKY WMC  
 WQAI WREN WRVA WSB  
 WSM WTMJ

**10:30-11:00 Chesebrough Real Folks**  
 KDKA KFI KGO KGW  
 KHQ KOA KOMO KPRC  
 KTAR KTHS KWK KYW  
 WAPI WBAP WBZA WDAY  
 WBBB WFLA WGAR WHAM  
 WHAS WJBA WIOD WJAX  
 WJDX WJR WJZ WLW  
 WQAI WREN WRVA WSB  
 WSM WSB WTMJ

**11:00-11:30 Slumber Music**  
 WIOD WIS WJR WJZ  
 WRC WWNC

**TUESDAY**

**3:00-3:30 Music in the Air**  
 CKGW KDKA KFAB KOA  
 KTHS KVOO KWK WAPI  
 WBAP WBZA WDAY WBBB  
 WFLA WGAR WJBA WIOD  
 WIS WJAX WJDX WJR  
 WJZ WKY WLW WMC  
 WPTF WRC WREN WRVA  
 WSB WSM WSMB WWNC

**5:30-5:45 Old Pappy**  
 KOA WAPI WENR WHAS  
 WJDX WJR WJZ WMC  
 WREN WSM

**7:45-8:00 Back of the News**  
 KFJR KGO KOA WKY  
 WBBB WFLA WIOD WIS  
 WJZ WRC WREN

**8:00-8:30 Armstrong Quakers**  
 KDKA KFAB KWK WBZA  
 WHAM WJR WJZ WLS  
 WLW WREN

**8:30-8:45 Heel Hugger Harmonies**  
 KFI KGO KGW KHQ  
 KOA KOMO KSL KTAR  
 WHAM WJZ WLS WREN

**9:00-9:30 Household Finance Program**  
 KDKD 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 KTSA WABC  
 WADC WBT WCCO WDSU  
 WGN WHK WIBW 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 WOWNO

**9:00-9:30 Ben Bernie and Orchestra**

KDYL KFJ KFJF KFPY  
 KFRC KHJ KMBC KOIL  
 KOIN KTSA 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 KFJ KFJF  
 KFPY KGB KLZ KOH  
 KSCJ KVOR WABC WBT  
 WCCO WDSU WFBL WFBM  
 WIBW WJAS WKBW WMAL  
 WQAM WTOC

**10:15-10:30 Star Shoemakers**

KDYL KFJ KFJF KFPY  
 KFRC KGB KHJ KLZ  
 KMBC KMOX KOH KOIL  
 KOIN KRLL KSCJ WABC  
 WADC WBBM WBRC WBT  
 WCAU WCCO WDSU WFBM  
 WHK WIBW WJAS WKBW  
 WKRC WLAC WMAL WNAX  
 WOWO WQAM WTAR WTOC

**10:30-10:45 Arabesque, Desert Play**

CFRB KFJ KFJF KGB  
 KOH KVOR WABC WBT  
 WDSU WFBL WFBM WHK  
 WIBW WJAS WKBW WMAL  
 WPG WQAM WTOC

**10:45-11:15 Cuban Biltmore Orch.**

KFJ KFJF KGB KVOR  
 WABC WDSU WFBM WIBW  
 WJAS WKBW WPG WTOC

**WEDNESDAY****9:00-9:30 Gold Medal Freight**

KFJ 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 KRLL KTSA  
 KVI 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**  
 CKAC KDYL KFJF KLZ  
 KMBC KMOX KOIL KRLL  
 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 WEAF**

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

**9:30-10:00 The Fuller Man**

KGO KGW KHQ KOA  
 KOMO KSD KSL KSTP  
 KVOO KYW WBAP WBEN  
 WCAE WCSH WDAF WFAF  
 WEBC WFI WGY WKY  
 WOAI WOC WOW WRC  
 WSAI WSB WTAM WTMJ  
 WWJ

**11:00-11:15 Lee Morse, Songs**

CFCF WCAE WFAF WFI  
 WGY WIOD WJAX WTAM  
 WWJ

**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.**

KFYR KPRC KSD KSTP  
 WBEN WDAF WFAF WGY  
 WHAS WBA WOV WRC  
 WSB WWJ

**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 WOW  
 WTAM

**8:15-8:30 Ohman-Arden, Piano Duo**

KSD WBEN WCAE WCSH  
 WDAF WFAF WGY WLS  
 WOC WOW WRC WSAI  
 WTAM WWJ

**8:30-9:00 Mobiloil Concert**

KOA KSD KSTP KVOO  
 KKW WBEN WCAE WCSH  
 WDAF WDAY WFAF WEBC  
 WFAA WGY WHO WBA  
 WKY WLIT WOAI WOW  
 WRC WSAI WTAM WTMJ  
 WWJ

**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 WSBM WTAM  
 WTMJ WWJ

**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  
 WBA WIS WLIT WMAQ  
 WMC WOAI WOC WOW  
 WRC WSAI WSB WSM  
 WSBM WTAM WTMJ WWJ  
 WWNC

**10:30-11:00 Coca-Cola Program**

CFCF KFI KGO KGW  
 KHQ KOA KOMO KPRC  
 KSD KSL KSTP KTAR  
 KTBS WAPI WBAP WBEN  
 WCAE WCSH WDAF WFAF  
 WEBC WENR WFLA WGY  
 WHAS WIOD WJAX WKY  
 WLIT WMC WOAI WOC  
 WOW WPTF WRC WRVA  
 WSAI WSB WSM WSBM  
 WTAM WTMJ WWJ

**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 KTAR KVOO KWK  
 KYW WKY WDAY WEBC  
 WFAA WGAR WHAM WHAS  
 WBA WJDX WJR WJZ  
 WMC WOAI WREN WSB  
 WSM WSBM WTMJ

**8:15-8:30 Guy Robertson, Baritone**

KFAB KOA KPRC KSL  
 KSTP KVOO KWK KYW  
 WBAP WBZA WCKY WDAY  
 WEBC WFAA WFLA WGAR  
 WHAM WHAS WBA WIOD  
 WJAX WJDX WJR WJZ  
 WKY WMC WOAI WPTF  
 WREN WRVA WSB WSM  
 WSBM

**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 WEAM WJR WJZ  
 WLW WREN

**10:00-10:30 Rochester Civic Orch.**

KDKA WFLA WGAR WHAM  
 WIOD WIS WJR WJZ  
 WREN WWNC

**10:45-11:00 Hollywood Nights**

KDKA KWK WBZA WENR  
 WGAR WHAM WJR WJZ  
 WREN

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

WIOD WJR WJZ WWNC  
 12:15-12:30 Coon-Sanders Orch.  
 KFYR KOA KSTP KTBS  
 WENR WGAR WBA 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 Busi-**

**ness**  
 KFI KGO KGW KHQ  
 KOA KOMO KTAR WCKY  
 WEBC WFLA WGAR WIS

**Columbia ----- WABC**

KFRC KGB KLZ KOH  
 KSCJ KFOR WABC WBT  
 WCCO WDSU WFBL WFBM  
 WBW WKBW WMAL WPG  
 WQAM WTAQ WTOC  
 11:00-11:15 Leon Belasco's Orch.  
 KDYL KFJF KFJF KFPY  
 KGB KLZ KOH KSCJ  
 KFOR WABC WDSU WFBL  
 WBW 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 KFJF KFJF KFPY  
 KFRC KGB KHJ KOH  
 KSCJ KFOR WABC WFBL  
 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 KRLL WABC WADC  
 WBBM WCAU WCCO WDSU  
 WFBL WFBL WHK WJAS  
 WKBW WKRC WMAL WOWO  
 10:30-10:45 Peter's Parade  
 KDYL KFJF KFPY KFRC  
 KGB KHJ KLZ KOH  
 KOIL KOIN KRLL WABC  
 WADC WBRB WBT WDSU  
 WHK WIBW WJAS WKBW  
 WKRC WLAC WNAX WOWO  
 WQAM WTOC  
 11:15-11:30 Jack Miller songs  
 KFOR WABC WBT WCAU  
 WDSU WNAC WQAM WTOC  
 11:45-12:00 Leon Belasco Orchestra  
 KDYL KFJF KLZ KOH  
 KSCJ KFOR 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 KRLL WABC WBRB  
 WBT WCAU WCCO WDSU  
 WFBL WGN WHK WJAS  
 WKBW WKRC WLAC WMAL  
 WNAC

**National, Red ----- WEAJ**

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

**THURSDAY**

6:30-6:45 The World Today  
 WCAE WEAJ WFI WIOD  
 7:00-7:15 Vermont Lumber Jacks  
 WBEN WCAE WCSH WEAJ  
 WENR WFI WGY WSAI  
 7:15-7:30 Campbell Orchestra  
 CFCF WBEN WCSH WDAF  
 WEAJ 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 WBEN  
 WCAE WCSH WDAF WEAJ  
 WEBC 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  
 WBEN WCAE WCSH WDAF  
 WEAJ 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 WBEN  
 WCSH WDAF WEAJ WENR  
 WFI WGY WOC WOW  
 WRC WSAI WTAM WWJ

**FRIDAY**

7:00-7:30 Major Bowes' Family  
 KFYP KOA WCSH WEAJ  
 WGY WHAS WJAX WOW  
 WPTF WRC WSAI WBSL  
 8:00-9:00 Cities Service Program  
 CKGW KGO KGW KHQ  
 KOA KOMO KPRC KSD  
 KSL KSTP KTHS KYW  
 WBEN WCAE WCSH WDAF  
 WEAJ WEBC WFAA WGY  
 WKY WLIT WOAI WOC  
 WOW WRC WSAI WTAM  
 WTMJ WWJ  
 9:00-9:30 The Cluquot Club  
 KSD WBEN WCAE WCSH  
 WDAF WEAJ WGY WLIT  
 WOC WOW WRC WSAI  
 WWJ  
 9:30-10:00 Pond's Dance Program  
 KSD WBEN WCAE WCSH  
 WDAF WEAJ 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 WREN WRVA WWNC  
 8:00-8:15 Dixie Spiritual Singers  
 KDKA KFAB KWK WBSA  
 WKY WENR WHAM WJR  
 WJZ WLS WREN WRVA  
 8:15-8:30 Rin-Tin-Tin Thriller  
 KDKA KFAB KWK WBSA  
 WGAR WHAM WJR WJZ  
 WLS WLW WREN  
 8:30-8:45 Pickard Family  
 WBZA WJR WJZ WLS  
 WLW WREN  
 9:00-9:30 Blackstone, Sandersen-  
 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 WREN WRVA WSB  
 WSM WSMB WTMJ  
 10:00-10:30 A. & P. Gypsies  
 KDKA KWK KYW WBZA  
 WGAR WHAM WJR WJZ  
 WLW WREN  
 10:45-11:00 Paris Night Life  
 KDKA KWK WBZA WGAR  
 WHAM WJZ WREN  
 12:15-12:30 Earl Hines and Orch.  
 KFYP KOA KPRC KTHS  
 WENR WGAR WJR WJZ  
 WREN WSB WSM

**FRIDAY**

11:00-12:00 Walter Damrosch  
 CFCF CKGW KDKA KFAB  
 KOA KPRC KSD KSL  
 KSTP KTHS KVOO KWK  
 KYW WAPI WBAP WBEN  
 WBZA WCAE WCSH WDAF  
 WDAY WEAJ WEBC WENR  
 WFLA WGY WHAM WHAS  
 WIBA WIOD WJAX WJDX  
 WJR WJZ WKY WLIT  
 WMC WOAI WOC WOW  
 WPTF WRC WREN WRVA  
 WSAI WSB WSMB 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 WREN  
 WRVA WSB WSM WSMB  
 WWNC  
 5:15-5:30 Fireside Songs  
 KFAB KFYP KYW WJDX  
 WJR WJZ WRC WREN  
 WSM WWNC  
 7:45-8:00 Believe It or Not, Ripley  
 KDKA WBZA WJZ WPTF  
 WRVA  
 8:00-8:30 Nestle's Program  
 KDKA KFAB KWK WBSA  
 WCKY WGAR WHAM WJR  
 WJZ WLS WREN  
 9:00-9:30 Interwoven Pair  
 KDKA KFI KGO KGW  
 KHQ KOA KOMO KPRC  
 KSL KSTP KTAR KWK  
 KYW WAPI WBZA WCKY  
 WEBC WFAA WGAR WHAM  
 WHAS WIOD WJAX WJR  
 WJZ WKY WMC WOAI

**Columbia . . . . . WABC**

9:45-10:00 **Friendly Fire Footnotes**  
 KFJF KLZ KMBC KMXZ  
 KOIL KRLD WABC WBRC  
 WBT WCAU WCCO WDSU  
 WFBL WGN WHK WJAS  
 WKBW WMAL WQAM  
 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 WTAR

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.**  
 KFJF 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.**  
 KFJF KRIF KFPY KGB  
 FOH KSCJ KVOR WABC  
 WBBM WBT WCAU WFBL  
 WBMM 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 KJH  
 KLZ KMBC KMOX KOH  
 KOIL KOIN KRLD KSCJ  
 K TSA WABC WADC WBRC  
 WBT WCAU WCCO WDSU  
 WFBL WFBM WGN WHK  
 WIBW WJAS WKBW WKRC  
 WLAC WMAL WNAC WNAX  
 WOWO WPG WQAM WTAR  
 WTOC

10:00-11:00 **Hank Simmons**  
 CFRB KDYL KFH KFJF  
 KFPY KPRC KGB KJH  
 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 . . . . . WVEAF**

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

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

**SATURDAY**

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

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

7:15-7:30 **Laws Safeguard Society**  
 KGO KOA KOMO KTAR  
 WBEN WCSH WDAY WVEAF  
 WEBC WENR WFI WGY  
 WJDX WQAI 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 WVEAF WFI WGY  
 WOC WOW WSAI WTAM  
 WWJ

8:30-9:00 **Advisory Council on Radio**  
 KFI KGO KGW KOA  
 KOMO KPRC KOSL  
 KSTP KTAR WCSH WDAF  
 WDAY WVEAF WEBC WFI  
 WFLA WGY WEAS WIBA  
 WIOD WIS WJAX WJDX  
 WOC WOW WSAI WSB  
 WSM WTMJ WWJ WWCN

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 WVEAF WEBC  
 WFI WFLA WGY WEAS  
 WIOD WJAX WLW  
 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  
 WVEAF WEBC WFI WFLA  
 WGY WEAS WIOD WJAX  
 WJDX WKY WMC WQAI  
 WOC WOW WPTF WRC  
 WRVA WSAI WSB WSMB  
 WTAM WTMJ WWJ

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

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

12:00-12:30 **Rudy Vallee and Orch.**  
 KOA KPRC KSD WBEN  
 WDAY WVEAF 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 WEBC 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 KVOC  
 KWK WBAP WBZA WDAY  
 WEBC 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 KFJR KPRC KSTP  
 WEBC 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 WEBC  
 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 WEBC 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 WWCN

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

100		
-----	--	--

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		Buffalo, N. Y.
WKRC	†	1000	C	Cincinnati, Ohio

95		
----	--	--

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.

93		
----	--	--

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	---	Guatemala
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.

91		
----	--	--

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.
KSAK	†	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.

89		
----	--	--

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	1
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

88

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.

85

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

84

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.

82

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	1
WMAL	*	250	+C
WOS	*	500	1

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

80

Victoria Broadcasting Association  
The Hamilton Spectator  
Winnipeg Grain Exchange  
Wentworth Radio Broadcasting Co.  
Canadian National Railways  
Stephens 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
WOL	*	5000	D
XFG	--	2000	638

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

78

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.

76

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.

74

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.

73

Dominican Republic  
Wesley United Church  
National Broadcasting Co.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 680 kilocycles 440.9 meters

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

<b>72</b>		
-----------	--	--

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

<b>70</b>		
-----------	--	--

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	✓	* 5000	N	Cincinnati, Ohio
-----	---	--------	---	------------------

<b>69</b>		
-----------	--	--

Crosley Radio Corp.

### 710 kilocycles 422.3 meters

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

<b>68</b>		
-----------	--	--

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

### 720 kilocycles 416.4 meters

WGN	✓	† 25000	C	Chicago, Ill.
-----	---	---------	---	---------------

<b>67</b>		
-----------	--	--

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.

<b>65</b>		
-----------	--	--

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.

<b>64</b>		
-----------	--	--

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

### 750 kilocycles 399.8 meters

WJR	✓	† 5000	N	Detroit, Mich.
-----	---	--------	---	----------------

<b>63</b>		
-----------	--	--

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

<b>61</b>		
-----------	--	--

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.

<b>60</b>		
-----------	--	--

KFAB Broadcasting Co.  
WBBM Broadcasting Corp.  
WBBM 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.

<b>5859</b>		
-------------	--	--

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.



INDEX BY FREQUENCIES AND DIAL NUMBERS

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.

574

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	IN	Dallas, Texas
XEU	--	101		Veracruz, Mexico
XFC	--	350	805	Aguascalientes, Mexico

57

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

KCYS.  
880

MTRS.  
340.7

DIAL

810 kilocycles 370.2 meters

WCCO	✓*	5000	C	Minneapolis, Minn.
------	----	------	---	--------------------

56

Northwestern Broadcasting, Inc.

820 kilocycles 365.6 meters

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

55

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

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.

54

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.
CKLC	†	1000	2	Red Deer, Alta.
CMC	--	500	---	Havana, Cuba
CNRD	†	1000	2	Red Deer, Alta.
CPRY	✓--	5000	1	Toronto, Ont.

52

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.

~~53~~ 51

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

50

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.

49

National Broadcasting Co., Inc.  
Agricultural Broadcasting Co.

880 kilocycles 340.7 meters

CHML	*	50	4	Hamilton, Ont.
CJCB	*	50	3	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	2	Oakland, Cal.
KPOF	*	500	2	Denver, Colo.
WCOC	*	500	+	Meridian, Miss.
WGBI	*	250	1	Scranton, Pa.
WQAN	*	250	1	Scranton, Pa.
WSUT	*	500	---	Iowa City, Iowa

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

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
KFNFB	✓	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

47

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.

46

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	*	500	2	London, Ont.
CNRH	---	500	3Z	Halifax, N. S.
CNRL	---	500	2	London, Ont.
CNRS	---	500	1	Saskatoon, Sask.
XEW	✓	500	---	Mexico City

45

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.
WVJ	†	1000	N	Detroit, Mich.
XFF	---	250	915	Chihuahua, Mexico

Republic of Haiti  
Eugene P. O'Fallon, Inc.  
Colorado Radio Corp.  
Fisher's Blend Station, Inc.  
Houston Printing Co.  
Drivers' 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.

44

Northern Supplies, Ltd.  
Queen's University  
The Edmonton Journal, Ltd.  
Angel Bertemay  
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

42

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.

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

CFLC -- 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 \* 10000 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

~~410-411~~  
 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.

~~39-40~~  
 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

~~39~~  
 Western Broadcasting Co.  
 Westinghouse Elec. & Mfg. Co.  
 Rafael T. Carranza

990 kilocycles 302.8 meters

WBZ-A † 25000 1N  
 XEK -- 101 ---

Springfield-Boston  
 Mexico City

~~38 1/2~~  
 Westinghouse Elec. & Mfg. Co.  
 Arturo Martinez

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

~~38~~  
 Los Angeles Broadcasting Co.  
 Central Broadcasting Co.  
 Central Broadcasting Co.  
 Carlos Gutierrez M.

1010 kilocycles 296.8 meters

CKIC -- 50 ---  
 CMWB -- 150 ---  
 CMZB -- 150 ---  
 KGGF † 500 2  
 KQW \* 500 ---  
 WHN \* 250 1  
 WIS \* 500 C+N  
 WLAP † 250 ---  
 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

~~37~~  
 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.

~~36~~  
 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

~~35~~  
 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.

~~34~~  
 KRLD Radio Corp.  
 Chamber of Commerce  
 Michigan State College  
 Buffalo Broadcasting Corp.

KCYS. 1040  
 MTRS. 288.3  
 DIAL

2

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1050 kilocycles 285.5 meters

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

**33**

Farmers & Bankers Life Insurance Co.  
 Western Broadcast Co.

### 1060 kilocycles 282.8 meters

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

**31**

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.  
 WDX \* 100 D Tuscola, Ill.  
 WTAM \* 50000 ✓ N Cleveland, Ohio

**31-32**

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.  
 WCBF \* 5000 1 Dn Zion, Ill.  
 WMBI \* 5000 1 Dn Chicago, Ill.

**30 1/2**

Station WBT, Inc.  
 Wilbur Glenn Voliva  
 Moody Bible Institute

### 1090 kilocycles 275.1 meters

KMOX \* 50000 C St. Louis, Mo.  
 XEL -- 10 1091 Saittilo, Mexico

**30**

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.

**30 1/2**

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

### 1110 kilocycles 270.1 meters

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

**29**

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

**28**

Star Pub. & Ptg. Co.  
 N. S. Dalgleish & 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 \* 20000 C Dn Mooseheart, Ill.  
 WOV \* 1000 D New York City  
 XEE -- 105 --- Oaxaca, Mexico

**28**

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

**27**

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.

**27**

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

WOWO \* 10000 1C  
 WWVA \* 5000 1C

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

25

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  
 WDCY \* 1000 1Dn  
 WGBS † 500  
 WMAZ † 500

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

24

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

24 23 1/2

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  
 KGEK † 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 I  
 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 6  
 WJBW † 100 1  
 WKJC \* 100 3  
 WLBG \* 100 +  
 WNBO \* 100 4  
 WNBW † 10  
 WNBX † 10 2  
 WORC \* 100 7CX  
 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

23

J. W. B. Browne  
 Jose Anorga  
 Pedro Nogueras  
 W. J. Beard's Temple of Music  
 Marshall Electric Co., Inc.  
 St. Louis Truth Center, Inc.  
 Jaren 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 Brdcstg. 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

KCYS.  
 1210  
 MTRS.  
 247.8  
 DIAL

1210 kilocycles 247.8 meters

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

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

22 1/2

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.
KFOR	*	100	+	Lincoln, Nebr.
KFVS	*	100	6	Cape Girardeau, Mo.
KFXM	↑	100	9	San Bernardino, Cal.
KGCR	↑	100	---	Watertown, S. D.
KGNO	↑	100	---	Dodge City, Kansas
KMJ	*	100	---	Fresno, Cal.
KPPC	*	50	9	Pasadena, Cal.
KWEA	*	100	---	Shreveport, La.
WALR	*	100	---	Zanesville, Ohio
WBAX	*	100	1	Wilkes-Barre, Pa.
WBBL	↑	100	7S	Richmond, Va.
WBBS	*	100	2	Springfield, Ill.
WCOH	*	100	3	Yonkers, N. Y.
WCRW	*	100	4	Chicago, Ill.
WEBQ	*	100	6	Harrisburg, Ill.
WEDC	*	100	4	Chicago, Ill.
WGBB	*	100	3	Freeport, N. Y.
WGCM	*	100	---	Great Southern Land Co., Inc.
WHBF	*	100	---	Rock Island, Ill.
WHBU	↑	100	---	Anderson, Ind.
WIBU	*	100	---	Poynette, Wis.
WJBI	↑	100	3	Red Bank, N. J.
WJBU	*	100	1	Lewisburg, Pa.
WJBY	↑	100	3	Gadsen, Ala.
WJW	*	100	---	Mansfield, Ohio
WLCI	*	50	---	Ithaca, N. Y.
WMBG	*	100	7	Richmond, Va.
WMRJ	*	100	3	Jamaica, N. Y.
WOCL	*	50	---	Jamestown, N. Y.
WOMT	*	100	---	Manitowoc, Wis.
WPAW	*	100	5	Pawtucket, R. I.
WPRO	*	100	5	Providence, R. I.
WDX	*	100	---	Thomasville, Ga.
WRBQ	↑	100	+	Greenville, Miss.
WSBC	*	100	4	Chicago, Ill.
WSEN	↑	100	---	Columbus, Ohio
WSIX	↑	100	---	Springfield, Tenn.
WSOC	↑	100	---	Gastonia, N. C.
WTAX	↑	100	2	Springfield, Ill.
XEX	---	500	---	Mexico City

KDLR, Inc.  
Howard A. Shuman  
Hirsch Battery & Radio Co.  
J. C. & E. W. Lee  
Greater Kampeska Radio Corp.  
Dodge City Broadcasting Co.  
James McClatchy Co.  
Pasadena Presbyterian Church  
Hello World Broadcasting Corp.  
Roy W. Waller  
John H. Stenger, Jr.  
Grace Covenant Pres. Church  
H. L. Dewing & Chas. Messter  
Westchester Broadcasting Corp.  
Clinton R. White  
First Trust & Savings Bank  
Emil Denemark, Inc.  
Harry H. Carman  
Great Southern Land Co., Inc.  
Beardsley Specialty Co.  
Anderson Broadcasting Corp.  
Wm. C. Forrest  
Monmouth Broadcasting Co.  
Bucknell University  
Gadsen Broadcasting Co., Inc.  
Mansfield Broadcasting Assn.  
Lutheran Assn. of Ithaca  
Havens & Martin, Inc.  
Peter J. Prinz  
A. E. Newton  
Francis M. Kadow  
Shartenburg & Robinson Co.  
Cherry & Webb Broadcasting Co.  
Stevens Luke  
J. Pat. Scully  
World Battery Co., Inc.  
Columbus Broadcasting Co.  
638 Tire & Vulcanizing Co.  
WSOC, Inc.  
WTAX, Inc.  
Excelsior, Cia Editorial S. A.

### 1220 kilocycles 245.8 meters

CMBY	--	350	1225	Havana, Cuba
CMCA	--	150	1225	Havana, Cuba
KFKU	*	500	1	Lawrence, Kansas
KTW	*	1000	---	Seattle, Wash.
KWSC	*	1000	---	Pullman, Wash.
WCAD	*	500	D	Canton, N. Y.
WCAE	*	1000	N	Pittsburgh, Pa.
WDAB	*	1000	C	Tampa, Fla.
WREN	↑	1000	1N	Lawrence, Kansas

22		
----	--	--

Callejas-Coscolluela  
Manuel Cruz  
University of Kansas  
First Presbyterian Church  
State College of Washington  
St. Lawrence University  
WCAE, Inc.  
Tampa Publishing Co.  
Jenny Wren Co.

### 1230 kilocycles 243.8 meters

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

21		
----	--	--

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

### 1240 kilocycles 241.8 meters

CMAB	↑	20	1249	Pinar del Rio, Cuba
KGCU	↑	250	3	Mandan, N. D.
KLPM	↑	250	3	Minot, N. D.
KTAT	↑	1000	1	Ft. Worth, Texas
WACO	↑	1000	1C	Waco, Texas
WXYZ	↑	1000	C	Detroit, Mich.

20 1/2		
--------	--	--

Francisco Martinez  
Mandan Radio Assn.  
John B. Cooley  
S. A. T. Broadcast Co.  
Central Texas Broadcasting Co., Inc.  
Kunsky-Trendle Broadcasting Corp.

### 1250 kilocycles 239.9 meters

KFMV	↑	1000	2	Northfield, Minn.
KFOX	*	1000	---	Long Beach, Cal.

20		
----	--	--

Carleton College  
Nichols & Warinner, Inc.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

WAAM	1000	1+X	Newark, N. J.
WCAL	1000	2	Northfield, Minn.
WDSU	1000	C	New Orleans, La.
WGCP	250	1	Newark, N. J.
WLB	1000	2	St. Paul, Minn.
WRDM	1000	1	Paterson, N. J.
WRFM	1000	2	Minneapolis, Minn.
XBFA	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.  
Luís F. Murguía

### 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.
WFER	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  
Buttrety 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
KLCN	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

### 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.
WBRR	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.
WOQ	1000	2	Kansas City, Mo.
XETY	2000	---	Mexico City

Los Angeles Broadcasting Co.  
Radio Station KFH Co.  
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
KFJY	100	7	Ft. Dodge, Iowa
KFPL	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.

KCYS.  
1310  
MTRS.  
228.9  
DIAL

## INDEX BY FREQUENCIES AND DIAL NUMBERS

KFXR	†	100	+	Oklahoma City	Exchange Ave. Baptist Church
KGBX	*	100	+	St. Joseph, Mo.	KGBX, Inc.
KGCX	†	100	+	Wolf Point, Mont.	First State Bank of Vida
KGEZ	†	100	+	Kalispell, Mont.	Treloar-Church Broadcasting Co.
KGFV	†	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	9	Shreveport, La.	Robert M. Dean
KTLC	*	100	---	Houston, Texas	Houston Broadcasting Co.
KTSM	†	100	2	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
WEBR	†	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.
WNL	*	100	---	Washington, D. C.	American Broadcasting Co.
WRAP	*	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.
WTSL	†	100	4	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
WTJS	†	100	+	Jackson, Tenn.	Sun Publishing Co.
WTSL	---	100	9	Laurel, Miss.	G. A. Houseman

### 1320 kilocycles 227.1 meters

KGHF	†	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

--	--	--

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

--	--	--

Don Lee, Inc.  
Perkins Bros. Co.  
WDRG, 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	
CMCY	---	100	1345	Havana, Cuba	
KFPW	†	50	D	Fort Smith, Ark.	
KFP Y	*	1000	C	Spokane, Wash.	
WCOA	*	500	---	Pensacola, Fla.	
WSPD	*	1000	C	Toledo, Ohio	

15		
----	--	--

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

### 1350 kilocycles 222.1 meters

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

--	--	--

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

KGEB	*	1000	---	Long Beach, Cal.
KGIR	†	500	---	Butte, Montana
WCSC	* 500	---	---	Charleston, S. C.
WFBL	* 1000	CX	---	Syracuse, N. Y.
WGES	* 500	1+	---	Chicago, Ill.
WJKS	* 1000	1+	---	Gary, Ind.
WOBC	† 500	D	---	Vicksburg, Miss.
XETO	-- 101	---	---	Mexico City

13 1/2		
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	Pinar del Rio, Cuba
CMGE	--	30	1375	Cardenas, Cuba
CMGH	--	150	---	Matanzas, Cuba
HRB	†	2300	---	Tegucigalpa, Hond.
KCRC	†	100	2+	Enid, Okla.
KFBL	*	50	3	Everett, Wash.
KFJI	†	100	---	Astoria, Ore.
KFJM	†	100	---	Grand Forks, N. D.
KFJZ	*	100	---	Ft. Worth, Texas
KFLX	†	100	---	Galveston, Texas
KGAR	*	100	+	Tucson, Arizona
KGDA	†	100	---	Mitchell, S. D.
KGFG	†	100	2	Oklahoma City
KGFL	†	50	---	Raton, N. M.
KGKL	†	100	---	San Angelo, Texas
KMAC	†	100	5	San Antonio, Texas
KONO	†	100	5	San Antonio, Texas
KOOS	*	100	---	Marshfield, Ore.
KRE	†	100	6	Berkeley, Cal.
KUJ	†	100	---	Walla Walla, Wash.
KVL	--	100	3	Seattle, Wash.
KWKC	†	100	---	Kansas City, Mo.
WBGF	†	50	---	Glen Falls, N. Y.
WBTM	†	100	7	Danville, Va.
WCBM	* 100	+	Z	Baltimore, Md.
WELK	†	100	+	Philadelphia, Pa.
WGL	* 100	C	---	Fort Wayne, Ind.
WHBD	†	100	---	Mount Orab, Ohio
WHBQ	†	100	---	Memphis, Tenn.
WHDF	†	100	+	Calumet, Mich.
WIBM	†	100	1	Jackson, Mich.
WJBK	* 50	1	---	Detroit, Mich.
WJTL	--	100	Y	Tifton, Ga.
WLEY	†	100	+	Lexington, Mass.
WLVA	†	100	7	Lynchburg, Va.
WMBR	†	100	---	Tampa, Fla.
WPOE	†	100	---	Patchogue, N. Y.
WQDM	* 100	D	---	St. Albans, Vt.
WRAK	* 100	---	---	Williamsport, Pa.
WRAM	* 100	---	---	Wilmington, N. C.
WRBJ	†	10	X	Hattiesburg, Miss.
WRDO	†	100	CP	Augusta, Maine
WRJN	†	100	---	Racine, Wis.
WSVS	* 50	---	---	Buffalo, N. Y.

13		
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	Camaguey, Cuba
KOH	†	500	C	Reno, Nevada
KQV	†	500	2	Pittsburgh, Pa.
KSO	*	500	1	Clarinda, Iowa
WKBH	* 1000	1	---	La Crosse, Wis.
WSMK	* 200	2	---	Dayton, Ohio

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

KCYS.  
1400  
MTRS.  
214.2  
DIA

1390 kilocycles 215.7 meters

KLRA	*	1000	1C	Little Rock, Ark.
KOY	* 500	---	---	Phoenix, Arizona
KUOA	†	1000	1	Fayetteville, Ark.
WHK	* 1000	C	---	Cleveland, Ohio

12		
Arkansas Broadcasting Co.		
Nielsen Radio & Sporting Goods Co.		
University of Arkansas		
Radio Air Service Corp.		

1400 kilocycles 214.2 meters

CMBI	--	30	1405	Havana, Cuba
CMBN	--	30	1405	Havana, Cuba
CMCH	--	15	1405	Havana, Cuba
CMCM	--	15	1405	Havana, Cuba
KLO	* 500	---	---	Ogden, Utah

11 1/2		
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
WCGW	*	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
WBCM	*	500	C
WDAG	*	1000	1
WHBL	*	500	4
WHIS	†	250	2
WODX	*	500	3
WRBX	*	250	2
WSFA	†	500	3

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

--	--	--

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
KFOW	*	100	---
KFXD	*	100	---
KEXY	*	100	---
KFYO	†	100	+
KGFF	†	100	---
KGGC	†	100	5
KGIW	†	100	---
KGLX	†	100	---
KGKX	†	100	---
KGVO	†	100	D
KICK	*	100	---
KORE	*	100	---
KXL	*	100	4
KXYZ	---	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
WLBV	†	100	---
WMBG	*	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  
KFOW, 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.  
WLBV 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
WHBC	*	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.  
WEHP, 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.

<b>10</b>		
-----------	--	--

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	1	Hackensack, N. J.
WGAR ✓	500	N	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.

9 1/2

--	--	--

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.

9

--	--	--

National Battery Broadcasting Co.  
Independent Publishing Co.

### 1470 kilocycles 204.0 meters

KGa ↑	5000	N	Spokane, Wash.
WLAC ✓ *	5000	C	Nashville, Tenn.

8

--	--	--

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

### 1480 kilocycles 202.6 meters

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

8

--	--	--

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

### 1490 kilocycles 201.2 meters

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

7

--	--	--

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

### 1500 kilocycles 199.9 meters

CMBL --	20	---	Havana, Cuba
CMBO --	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.
WMBa ↑	100	---	Newport, R. I.
WMBQ *	100	1	Brooklyn, N. Y.
WMIL ↑	100	1	Brooklyn, N. Y.
WMPC ↑	100	---	Lapeer, Mich.
WNBf *	100	---	Binghamton, N. Y.
WOPi *	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.

6

--	--	--

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. Irey and F. M. Bowles  
North Mississippi Broadcasting Corp.  
Knox Battery & Electric Co.  
K. L. Ashbacker  
John N. Brahy  
Boston Broadcasting Co.  
LeRoy Joseph Beebe  
Paul J. Gollhofer  
Arthur Faske  
First M. P. Church  
Howitt, Wood Radio Co., Inc.  
Radiophone Brdcstg. 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

7



INDEX BY LOCATIONS WITH MAP KEY

**ILLINOIS**

	Watts		Keys.
Carthage J-18	50	WCAZ	1070
Chicago I-20	10000	KFKX	1020
	10000	KYW	1020
	500	WAAF	920
	25000	WBBM	770
	1500	WCFL	970
	5000	WCHI	1490
	100	WCRW	1210
	100	WEDC	1210
	50000	WENR	870
	500	WGES	1360
	25000	WGN	720
	1000	WIBO	560
	5000	WJAZ	1490
	25000	WJBT	770
	50000	WLS	870
	5000	WMAQ	670
	5000	WMBI	1080
	500	WPCC	560
	100	WSBC	1210
Cicero I-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 I-19	100	WKBB	1310
La Salle J-19	100	WJBC	1200
Mooseheart I-19	20000	WJJD	1130
Peoria Heights J-19	500	WMBD	1440
Quincy K-18	500	WTAD	1440
Rockford I-19	500	KFLV	1410
Rock Island I-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 I-20	5000	WCBD	1080

**INDIANA**

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

**IOWA**

Ames I-17	5000	WOI	640
Boone I-17	100	KFGQ	1310
Cedar Rapids I-18	100	WKCR	1310
Clarinda J-16	500	KSO	1380
Council Bluffs J-16	1000	KOIL	1260
Davenport I-18	5000	WOC	1000
Decorah H-18	50	KCCA	1270
	100	KWLC	1270
Des Moines I-17	5000	WHO	1000
Fort Dodge I-16	100	KFJY	1310
Iowa City I-18	500	WSUI	880
Marshalltown I-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 I-15	1000	KSCJ	1330
Waterloo I-17	500	WMT	600

**KANSAS**

Dodge City L-13	100	KGNO	1210
Kansas City K-16	100	WLBZ	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
	50	KRMD	1310
Shreveport P-17	1000	KTBS	1450
	100	KWEA	1210
	10000	KWKH	850

**MAINE**

Augusta F-28	100	WRDO	1370
Bangor F-29	500	WABI	1200
	100	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
	250	WSAR	1450
Fall River H-28	100	WLEY	1370
Lexington G-28	500	WBOS	920
Needham G-28	100	WNBH	1310
New Bedford H-28	25000	WBZ-A	990
Springfield H-27	100	WEPS	1200
Worcester G-28	100	WORC	1200
	250	WTAG	580

**MICHIGAN**

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

## INDEX BY LOCATIONS WITH MAP KEY

Detroit H-22	1000	WWJ	920	<b>NEVADA</b>			
	1000	WXYZ	1240		Watts		Keys.
East Lansing H-21	1000	WKAR	1040	Las Vegas L-5	100	KGIX	1420
Flint H-22	100	WFDF	1310	Reno I-3	500	KOH	1380
Grand Rapids H-21	500	WASH	1270	<b>NEW HAMPSHIRE</b>			
	500	WOOD	1270	Laconia G-28	100	WKAV	1310
Ironwood F-18	100	WJMS	1420	Manchester G-28	500	WFEA	1430
Jackson I-21	100	WIBM	1370	<b>NEW JERSEY</b>			
Kalamazoo I-21	1000	WKZO	590	Asbury Park I-27	500	WCAP	1280
Lapeer H-22	100	WMPZ	1500	Atlantic City J-27	5000	WPG	1100
Ludington H-20	50	WKBC	1500	Camden I-26	500	WCAM	1280
Marquette F-19	100	WBEO	1310	Hackensack I-27	250	WBMS	1450
Royal Oak H-22	50	WEXL	1310	Jersey City I-27	300	WAAT	940
<b>MINNESOTA</b>					500	WHOM	1450
Fergus Falls F-15	100	KGDE	1200	Newark I-27	1000	WAAM	1250
Minneapolis G-17	5000	WCCO	810		250	WGCP	1250
	1000	WDGY	1180		250	WNJ	1450
	1000	WRHM	1250	Paterson I-27	5000	WOR	710
Moorhead F-15	50	KGFK	1500	Red Bank I-27	1000	WODA	1250
Northfield G-17	1000	KFMX	1250	Trenton I-26	100	WJBI	1210
	1000	WCAL	1250	Zarephath I-27	500	WOAX	1280
St. Paul G-17	1000	WLB	1250		250	WAWZ	1350
	10000	KSTP	1460	<b>NEW MEXICO</b>			
<b>MISSISSIPPI</b>				Albuquerque N-7	250	KGGM	1230
Greenville O-18	100	WRBQ	1210	Raton M-11	50	KGFL	1370
Gulfport Q-19	100	WGCM	1210	State College P-9	20000	KOB	1180
Hattiesburg Q-19	10	WRBJ	1370	<b>NEW YORK</b>			
Jackson P-19	1000	WJDX	1270	Albany H-27	500	WOKO	1430
Laurel P-20	100	WTSL	1310	Auburn H-25	100	WMBO	1310
Meridian P-20	500	WCOC	880	Binghamton H-26	100	WNBF	1500
Tupelo N-20	100	WDIX	1500	Brooklyn I-27	500	WBBC	1400
Vicksburg P-18	500	WQBC	1360		1000	WBRR	1300
<b>MISSOURI</b>					500	WCGU	1400
Cp. Girardeau L-19	100	KFVS	1210		500	WFOJ	1400
Columbia K-17	100	KFRU	630		500	WLTH	1400
Grant City J-16	100	KGIZ	1500		100	WMBQ	1500
Jefferson City L-17	500	WOS	630		100	WMIL	1500
Joplin M-16	100	WMBH	1420	Buffalo H-24	1000	WBEN	900
Kansas City K-16	1000	KMBC	950		100	WEBR	1310
	100	KWKC	1370		1000	WGR	550
	1000	WDAF	610		5000	WKBW	1480
	500	WHB	860		1000	WMAK	1040
	1000	WOQ	1300		50	WSVS	1370
St. Joseph K-16	2500	KFEQ	680	Canton F-26	500	WCAD	1220
	100	KGBX	1310	Freeport I-27	100	WGBB	1210
St. Louis L-18	500	KFUO	550	Glens Falls G-27	50	WBGF	1370
	100	KFWF	1200	Ithaca H-25	1000	WEAI	1270
	50000	KMOX	1090		50	WLCl	1210
	500	KSD	550	Jamaica H-27	100	WMRJ	1210
	1000	KWK	1350	Jamestown H-24	50	WOCL	1210
	1000	WEW	760	Long Island City I-27	100	WL BX	1500
	100	WIL	1200	New York City I-27	50000	WABC	860
<b>MONTANA</b>					250	WBXN	1350
Billings F-9	1000	KGHL	950		50000	WBOQ	860
Butte F-7	500	KGIR	1360		250	WCDA	1350
Great Falls E-8	1000	KFBB	1280		50000	WEAF	660
Kalispell D-7	100	KGEZ	1310		500	WEVD	1300
Missoula E-7	100	KGVO	1420		500	WGBS	1180
Wolf Point E-11	100	KGCX	1310		1000	WHAP	1300
<b>NEBRASKA</b>					250	WHN	1010
Clay Center J-14	1000	KMMJ	740		30000	WJZ	760
Lincoln J-15	5000	KFAB	770		5000	WLWL	1100
	100	KFOR	1210		500	WMCA	570
	500	WCAJ	590		250	WMSC	1350
Norfolk I-15	1000	WJAC	1060		500	WNYC	570
North Platte J-13	500	KGNF	1430		1000	WQV	1130
Omaha J-15	500	WAAW	660		250	WPAP	1010
	1000	WOW	590		500	WPCH	570
Ravenna J-14	100	KGFW	1310		250	WQAO	1010
Scottsbluff I-11	100	KGKY	1500		250	WRNY	1010
York J-15	500	KGBZ	930				

INDEX BY LOCATIONS WITH MAP KEY

Patchogue I-27	100	WPOE	1370
Rochester G-25	5000	WHAM	1150
	500	WHEC	1430
Saranac Lake F-26	50	WNBZ	1290
Schenectady G-27	50000	WGY	790
Syracuse G-25	1000	WFBL	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	WBIG	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	WFBE	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	WAIU	640
	500	WCAH	1430
	750	WEAQ	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	KOCWJ	1400
Enid M-14	100	KCRC	1370
Norman N-15	500	WNAD	1010
Oklahoma N-15	5000	KFFJ	1480
	100	KFXR	1310
	100	KGFG	1370
	1000	WKY	900
Ponca City M-15	100	WBBZ	1200
S. Coffeyville M-15	500	KGGF	1010
Shawnee N-15	100	KGFF	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	WFEG	1310
Carbondale H-26	10	WNBW	1200
Elkins Park I-26	25	WBG	930
Erie H-24	100	WEDH	1420
Grove City I-24	100	WSAJ	1310
Harrisburg I-25	500	WBAK	1430
	100	WCOD	1200
	500	WHP	1430
Johnstown J-24	100	WJAC	1310
Lancaster I-26	100	WGAL	1310
	100	WKJC	1200
Lewisburg I-26	100	WJBU	1210
Oil City I-24	500	WLBW	1260
Philadelphia I-26	10000	WCAU	1170
	100	WELK	1370
	500	WFAN	610
	500	WFT	560
	100	WHAT	1310
	500	WIP	610
	500	WLIT	560
	100	WPEN	1500
	250	WRAX	1020
	100	WTEL	1310
Pittsburgh J-24	50000	KDKA	980
	500	KOV	1380
	1000	WCAB	1220
	1000	WJAS	1290
	100	WWSW	1500
Reading I-26	1000	WBEU	830
	100	WRAW	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
State College I-25	500	WFSC	1230
Washington J-24	100	WNEB	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
---------------	-----	------	-----

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				
	500	CJCA	930				
	500	CKUA	580				
Lethbridge C-8	100	CJOC	1120				
Red Deer A-8	1000	CKLC	840				
	1000	CNRD	840				
<b>BRITISH COLUMBIA</b>							
Chilliwack B-3	100	CHWK	665				
	100	CFJC	1120				
Kamloops B-5	100	CKOV	1200				
Kelowna C-5	100	CKOV	1200				
Vancouver B-3	50	CHLS	730				
	500	CJOR	1210				
	50	CKCD	730				
	50	CKFC	730				
	100	CKMO	730				
	100	CKWX	730				
	500	CNRV	1030				
Victoria C-3	50	CFCT	630				
<b>MANITOBA</b>							
Brandon D-14	500	CKX	540				
Winnipeg D-15	5000	CKY	780				
	5000	CNRW	780				
<b>NEW BRUNSWICK</b>							
Fredericton D-29	100	CFNB	1210				
Moncton D-30	500	CNRA	630				
St. John D-30	500	CFBO	890				
<b>NEWFOUNDLAND</b>							
St. Johns A-35	500	VOWR	675				
<b>NOVA SCOTIA</b>							
Glace Bay C-32	10000	VAS	685				
Halifax E-31	500	CHNS	910				
	500	CNRH	910				
Sydney C-32	50	CJCB	880				
Wolfville D-31	50	CKIC	1010				
<b>ONTARIO</b>							
Chatham H-22	100	CFCO	1210				
Cobalt E-23	100	CKMC	1210				
Hamilton H-24	500	CHCS	630				
	50	CHML	880				
	1000	CKOC	630				
Kingston G-25	50	CFRC	930				
London H-23	5000	CJGC	910				
	5000	CNRL	910				
North Bay E-23	100	CFCH	930				
Ottawa F-25	100	CKCO	890				
	500	CNRO	600				
Port Arthur E-19	50	CKPR	890				
Prescott F-25	50	CFLC	915				
Preston H-23	50	CKPC	880				
Toronto G-24	500	CFCA	1120				
	500	CFCL	960				
	5000	CFRB	690				
	500	CKCL	960				
	5000	CKGW	840				
	500	CKNC	960				
	500	CNRT	1120				
	5000	CNRX	690				
	5000	CPR Y	840				
Waterloo G-23	50	CKCR	645				
<b>PRINCE EDWARD ISLAND</b>							
Charlottetown C-31	500	CFCY	580				
	100	CHCK	960				
Summerside C-31	100	CHGS	1120				
<b>QUEBEC</b>							
Montreal E-26	Watt						
	500	CFCF	1030				
	5000	CHYC	730				
	5000	CKAC	730				
	5000	CNRM	730				
Quebec D-27	100	CHRC	645				
	100	CKCI	645				
	50	CKCV	880				
	50	CNRQ	880				
<b>SASKATCHEWAN</b>							
Fleming C-13	500	CJRW	665				
Moose Jaw C-11	500	CJRM	665				
Regina C-12	500	CHWC	960				
	500	CJBR	960				
	500	CKCK	960				
	500	CNRR	960				
Saskatoon B-11	500	CFQC	910				
	500	CNRS	910				
Yorkton B-13	500	CJGX	630				
<b>CENTRAL AMERICA</b>							
<b>COSTA RICA</b>							
Heredia FF-23	75	T14NRH	948				
San Jose FF-23	50	TIC	900				
<b>GUATAMALA</b>							
Guatamala CC-19	50	TGW	570				
<b>HONDURAS</b>							
Tegucigalpa CC-21	2300	HRB	1370				
<b>SALVADOR</b>							
Salvador CC-19	500	RUS	664				
<b>MEXICO</b>							
<b>AGUASCALIENTES</b>							
Aguascalientes W-10	350	XFC	805				
<b>CHIHUAHUA</b>							
Chihuahua, Chih. R-9	250	XFF	915				
Juarez P-9	101	XEJ	857				
	1000	XEQ	1015				
<b>COAHUILA</b>							
Saltillo, Coah. U-12	10	XEL	1091				
Villa Acuna R-12	75000	XER	735				
<b>D. F.</b>							
Mexico City Y-13	1000	XEB	1030				
	250	XEFA	1250				
	101	XEK	990				
	1000	XEN	711				
	5000	XEO	940				
	500	XETA	1140				
	100	XETO	1360				
	2000	XETY	1300				
	5000	XEW	910				
	500	XEX	1210				
	500	XEZ	588				
	2000	XFG	638				
	1000	XFI	818				
	500	XFY	860				
Toluca. Y-12	50	XEC	1333				
<b>JALISCO</b>							
Guadalajara, Jal. X-10	101	XEA	1200				



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.	72	KFWB 950 Hollywood, Cal.		KGGC 1420 San F'n'cisco, Cal.		KLX 880 Oakland, Cal.	
KFGQ 1310 Boone, Iowa		KFWF 1200 St. Louis, Mo.		KGGF 1010 Coffeeville, Okla.		KLZ 560 Denver, Colo.	
KFI 1300 Wichita, Kansas		KFWI 930 San F'n'cisco, Cal.	43	KGGM 1230 Albuq'rque, N.M.		KMA 930 Shenandoah, Ia.	44
KFI 640 Los Angeles, Cal.	78	KFXD 1420 Nampa, Idaho		KGHF 1320 Pueblo, Colo.		KMAC 1370 San Antonio, Tex.	
KFO 1120 Spokane, Wash.		KFXF 920 Denver, Colo.		KGHI 1200 Little Rock, Ark.		KMBC 950 Kan. City, Mo.	
KFIZ 1420 Fond du Lac, Wis.		KFXJ 1310 Grand Junc., Col.		KGHL 950 Billings, Mont.		KMCS 1120 Inglewood, Cal.	
KFJB 1200 Marshalltown, Ia.		KFXM 1210 San Ber'd no, Cal.		KGIR 1360 Butte, Mont.		KMED 1310 Medford, Ore.	
KFFJ 1480 Oklahoma City	8	KFXR 1310 Oklahoma City		KGIW 1420 Trinidad, Colo.		KMJ 1210 Fresno, Cal.	
KFJI 1370 Astoria, Ore.		KFXZ 1420 Flagstaff, Ariz.		KGIX 1420 Las Vegas, Nev.		KMLB 1200 Monroe, La.	
KFJM 1370 Grd. Forks, N.D.	73	KFYO 1420 Abilene, Texas	95	KGIZ 1500 Grant City, Mo		KMMJ 740 Clay Ctr., Nebr.	64
KFJR 1300 Portland, Ore.		KFYI 550 Bismarck, N. D.		KGJF 890 Little Rock, Ark.		KMO 860 Tacoma, Wash.	
KFYJ 1310 Fort Dodge Ia.		KGA 1470 Spokane, Wash.		KGKB 1500 Tyler, Texas		KMOX 1090 St. Louis, Mo.	30
KFJZ 1370 Fl. Worth, Tex.		KGAR 1370 Tucson, Arizona		KGKL 1370 San Angelo, Tex.		KMP 710 Beverly Hills, Cal	
KFWA 880 Greeley, Colo.		KGB 1330 San Diego, Cal.		KGKO 570 Wichita Flls., Tex.		KMTR 570 Hollywood, Cal.	
KFV 1220 Lawrence, Kans.		KGBU 900 Ketchikan, Al'tka		KGKX 1420 Sand Point, Idaho		KNX 1050 Los Angeles, Cal.	33
KFKX 1020 Chicago, Ill.		KGBX 1310 St. Joseph, Mo.		KGKY 1500 Scottsbluff, Nebr.		KOA 830 Denver, Colo.	54
KFLV 1410 Rockford, Ill.		KGBZ 930 York, Nebr.		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'thfield, Minn.		KGCR 1210 Watertown, S. D.		KGNO 1210 Dodge City, Kas.		KOCW 1400 Chickasha, Okla.	
KFNF 890 Shenandoah, Ia.		KGCU 1240 Mandan, N. D.		KGO 790 San F'n'cisco, Cal.		KOH 1380 Reno, Nevada	
KFOR 1210 Lincoln, Nebr.		KGCX 1310 Wolf P't, Mont.		KGRS 1410 Amarillo, Texas		KOIL 1260 Council Bluffs, Ia.	
KFOX 1250 Long Beach, Cal.		KGDA 1370 Mitchell, S. D.		KGU 940 Honolulu, Hawaifi		KOIN 940 Portland, Ore.	
KFPL 1310 Dublin, Texas		KGDE 1200 Fergus Falls, Minn		KGVO 1420 Missoula, Mont.		KOL 1270 Seattle, Wash.	
KFPM 1310 Greenville, Texas		KGDM 1100 Stockton, Cal.		KGW 620 Portland, Ore.		KOMO 920 Seattle, Wash.	
KFPW 1340 Ft. Smith, Ark.		KGDY 1200 Huron, S. D.		KGY 1200 Lacey, Wash.		KONO 1370 San Antonio, Tex.	
KFPY 1340 Spokane, Wash.		KGEF 1300 Los Angeles, Cal.		KHJ 900 Los Angeles, Cal.	88	KOOS 1370 Marshfield, Ore.	
KFQD 1230 Anchorage, Alas.		KGEK 1200 Yuma, Colo.		KHQ 590 Spokane, Wash.		KORE 1420 Eugene, Ore.	
KFQU 1420 Holy City, Cal.		KGER 1360 Long Beach, Cal.		KICK 1420 Red Oak, Iowa		KOY 1390 Phoenix, Arizona	
KFQW 1420 Seattle, Wash.		KGEW 1370 Ft. Morgan, Colo.		KID 1320 Idaho Falls, Ida.		KPCB 650 Seattle, Wash.	
KFRC 610 San F'n'cisco, Cal.		KGEZ 1310 Kalispell, Mont.		KIDO 1350 Boise, Idaho		KPJM 1500 Prescott, Ariz.	
KFRU 630 Columbia, Mo.		KGFF 1420 Shawnee, Okla.		KIT 1310 Yakima, Wash.		KPO 680 San F'n'cisco, Cal.	
KFSB 600 San Diego, Cal.		KGFG 1370 Oklahoma City		KJBS 1070 San F'n'cisco, Cal.		KPOF 880 Denver, Colo.	
KFSG 1120 Los Angeles, Cal.		KGFI 1500 Corp's Ch'sti, Tex		KJR 970 Seattle, Wash.		KPPC 1210 Pasadena, Cal.	
KFUL 1290 Galveston, Texas		KGJJ 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	
KFUP 1310 Denver, Colo.		KGFL 1370 Raton, N. M.		KLPM 1240 Minot, N. Dak.		KQV 1380 Pittsburgh, Pa.	
KFVD 1000 Culver City, Cal.		KGFW 1310 Ravenna, Nebr.		KLRA 1390 Little Rock, Ark.		KQW 1010 San Jose, Cal.	

KRE 1370 Berkeley, Cal.		KVOS 1200 Bellingh'm, Wash.		WALR 1210 Zanesville, Ohio		WCAO 600 Baltimore, Md.	
KREG 1500 Santa Ana, Cal.		KWGE 1310 Cedar Rapids, Ia.		WAPF 1140 Birmingham, Ala.		WCAP 1280 Asbury Pk., N. J.	
KRGV 1260 Harlingen, Texas		KWEA 1210 Shreveport, La.		WASH 1270 Gr. Rapids, Mich.		WCAT 1200 Rapid City, S. D.	
KRLD 1040 Dallas, Texas	34	KWG 1200 Stockton, Cal.		WAWZ 1350 Zarephath, N. J.		WCAU 1170 Philadelphia, Pa.	
KRMD 1310 Shreveport, La.		KWJJ 1060 Portland, Ore.		WBAA 1400 Lafayette, Ind.		WCAX 1200 Burlington, Vt.	
KROW 930 Oakland, Cal.		KWK 1350 St. Louis, Mo.		WBAK 1430 Harrisburg, Pa.		WCAY 1070 Carthage, Ill.	
KRSC 1120 Seattle, Wash.		KWKK 1370 Kansas City, Mo.		WBAL 760-1060 Baltimore, Md.		WCBA 1440 Allentown, Pa.	
KSAC 580 Manh'tt'n, Kans.		KWKH 850 Shreveport, La.	52	WBAP 800 Fort Worth, Tex.		WCBD 1080 Zion, Ill.	
KSCJ 1330 Sioux City, Ia.		KWLC 1270 Decorah, Iowa		WBAX 1210 Wilkes-Barre, Pa.		WCBM 1370 Baltimore, Md.	
KSD 550 St. Louis, Mo.		KWSC 1220 Pullman, Wash.		WBBC 1400 Brooklyn, N. Y.		WCBS 1210 Springfield, Ill.	
KSEI 900 Pocatello, Idaho		KWWG 1260 Brownsville, Tex.		WBBL 1210 Richmond, Va.		WCCO 810 Minneap., Minn.	56
KSL 1130 Salt Lake City		KXA 570 Seattle, Wash.		WBMM 770 Chicago, Ill.		WCDA 1350 New York City	
KSMR 1200 Santa Maria, Cal.		KXL 1420 Portland, Ore.		WBRR 1300 Brooklyn, N. Y.		WCFL 970 Chicago, Ill.	39
KSO 1380 Clarinda, Iowa		KXO 1500 El Centro, Cal.		WBBZ 1200 Ponca City, Okla.		WCGU 1400 Brooklyn, N. Y.	
KSOO 1110 Sioux Falls, S. D.	29	KXRO 1310 Aberdeen, Wash.		WBCM 1410 Bay City, Mich.		WCHI 1490 Chicago, Ill.	
KSTP 1460 St. Paul, Minn.	01	KXYZ 1420 Houston, Texas		WBEN 900 Buffalo, N. Y.		WCKY 1490 Covington, Ky.	7
KTAB 560 San F'nscisco, Cal.		KYA 1230 San F'nscisco, Cal.		WBEO 1310 Marquette, Mich.		WCLO 1200 Janesville, Wis.	
KTAR 620 Phoenix, Ariz.		KYW 1020 Chicago, Ill.		WBGF 1370 Glens Falls, N. Y.		WCLS 1310 Joliet, Ill.	
KTAT 1240 Ft. Worth, Tex.		KZRC 937.5 Cebu, P. I.		WBHS 1200 Huntsville, Ala.		WCMA 1400 Culver, Ind.	
KTBR 1300 Portland, Ore.		NAA 690 Arlington, Va.		WBIG 1440 Greensboro, N.C.		WCOA 1340 Pensacola, Fla.	
KTBS 1450 Shreveport, La.		RUS 664 Salvador		WBIS 1230 Boston, Mass.		WCOE 880 Meridian, Miss.	
KTFI 1320 Twin Falls, Ida.		TGW 570 Guatamala		WBMS 1450 Hackensack, N.J.		WCOD 1200 Harrisburg, Pa.	
KTHS 1040 Hot Spgs., Ark.		TIC 900 San Jose, C. R.		WBNX 1350 New York City		WCOH 1210 Yonkers, N. Y.	
KTLC 1310 Houston, Texas		T14NRH 948 Heredia, C. R.		WBOQ 860 New York City		WCRW 1310 Chicago, Ill.	
KTM 780 Los Angeles, Cal.		VAS 585 Glance Bay, N. S.		WBOW 1310 Terre Haute, Ind.		WCSC 1360 Charleston, S. C.	
KTRH 1120 Houston, Texas		VOWR 675 St. Johns, N. F.		WBRC 930 Birmingham, Ala.		WCSH 940 Portland, Maine	
KTSA 1290 San Antonio, Tex.		WAAB 1410 Boston, Mass.		WBRE 1310 Wilkes-Barre, Pa.		WDAE 1220 Tampa, Fla.	
KTSM 1310 El Paso, Texas		WAAF 920 Chicago, Ill.		WBSE 920 Needham, Mass.		WDAF 610 Kansas City, Mo.	84
KTW 1220 Seattle, Wash.		WAAM 1250 Newark, N. J.		WBT 1080 Charlotte, N. C.		WDAG 1410 Amarillo, Texas	
KUJ 1370 Walla Wal., Wash.		WAAT 940 Jersey City, N. J.		WBTM 1370 Danville, Va.		WDAH 1310 El Paso, Texas	
KUOA 1390 Fayetteville, Ark.		WAAW 660 Omaha, Nebr.		WBZ-A 990 Springfield, Mass.		WDAY 940 Fargo, N. D.	42
KUSD 890 Vermillion, S. D.		WABC 860 New York City		WCAC 600 Storrs, Conn.		WDBJ 930 Roanoke, Va.	
KUT 1500 Austin, Texas		WABI 1200 Bangor, Maine		WCAD 1220 Canton, N. Y.		WDBO 1120 Orlando, Fla.	
KVI 760 Tacoma, Wash.		WABZ 1200 New Orleans, La.		WCAE 1220 Pittsburgh, Pa.		WDEL 1120 Wilmington, Del.	
KVL 1370 Seattle, Wash.		WACO 1240 Waco, Texas		WCAH 1430 Columbus, Ohio		WDEW 1420 Waterbury, Vt.	
KVOA 1260 Tucson, Arizona		WADC 1320 Akron, Ohio		WCAJ 590 Lincoln, Nebr.		WDGY 1180 Minneap., Minn.	
KVOO 1140 Tulsa, Okla.		WAGM 1420 Presque Isle, Me.		WCAL 1250 Northfield, Minn.		WDIX 1500 Tupelo, Miss.	
KVOR 1270 Col. Sp'gs, Colo.	10	WAIU 640 Columbus, Ohio		WCAM 1280 Camden, N. J.		WDOD 1280 Chatt'an'ga, Tenn	

WDRC 1330 Hartford, Conn.	WFIW 940 Hopkinsville, Ky.	42	WHIS 1410 Bluefield, W. Va.	WJBW 1200 New Orleans, La.
WDSU 1250 New Orleans, La.	WFLA 620 Clearwater, Fla.		WHK 1390 Cleveland, Ohio	WJBY 1210 Gadsden, Ala.
WDZ 1070 Tuscola, Ill.	WFOX 1400 Brooklyn, N. Y.		WHN 1010 New York City	WJDX 1270 Jackson, Miss.
WEAF 660 New York City	WGCAL 1310 Lancaster, Pa.		WHO 1000 Des Moines, Ia.	WJJD 1130 Moosheart, Ill.
WEAI 1270 Ithaca, N. Y.	WGAR 1450 Cleveland, Ohio		WHOM 1450 Jersey City, N. J.	WJKS 1360 Gary, Ind.
WEAN 780 Providence, R. I.	WGBB 1210 Freeport, N. Y.		WHP 1430 Harrisburg, Pa.	14 WJMS 1420 Ironwood, Mich.
WEAO 570 Columbus, Ohio	WGBG 1430 Memphis, Tenn.		WIAS 1420 Ottumwa, Iowa	63 WJR 750 Detroit, Mich.
WEBC 1290 Superior, Wis.	WGBF 630 Evansville, Ind.		WIBA 1280 Madison, Wis.	WJSV 1460 Alexandria, Va.
WEBQ 1210 Harrisburg, Ill.	WGBI 880 Scranton, Pa.		WIBG 930 Elkins Park, Pa.	WJTL 1370 Tifton, Ga.
WEBR 1310 Buffalo, N. Y.	WGBS 1180 New York City		WIBM 1370 Jackson, Mich.	WJW 1210 Mansfield, Ohio
WEDC 1210 Chicago, Ill.	WGCM 1210 Gulfport, Miss.		WIBO 560 Chicago, Ill.	WJZ 760 New York City
WEDH 1420 Erie, Pa.	WGCP 1250 Newark, N. J.		WIBR 1420 Steubenville, O.	93 WKAQ 890 San Juan, P. R.
WEFF 590 Boston, Mass.	WGES 1360 Chicago, Ill.		WIBU 1210 Poynette, Wis.	WKAR 1040 E. Lansing, Mich.
WEUU 830 Reading, Pa.	WGH 1310 Newp't News, Va.		WIBW 580 Topeka, Kansas	WKAV 1310 Laconia, N. H.
WEHC 1350 Emory, Va.	WGL 1370 Ft. Wayne, Ind.		WIBX 1200 Utica, N. Y.	WKBB 1310 Joliet, Ill.
WEHS 1420 Cicero, Ill.	WGN 720 Chicago, Ill.	67	WICC 600 Bridgeport, Conn	WKBC 1310 Birmingham, Ala.
WELK 1370 Philadelphia, Pa.	WGR 550 Buffalo, N. Y.		WIL 1200 St. Louis, Mo.	WKBF 1400 Indianapolis, Ind.
WELL 1420 Battle C'k, Mich.	WGST 890 Atlanta, Ga.		WILL 890 Urbana, Ill.	WKBB 1380 La Crosse, Wis.
WENR 870 Chicago, Ill.	WGY 790 Schenecc'dy, N. Y.		WILM 1420 Wilmington, Del.	WKBI 1420 Cicero, Ill.
49 WEP 1200 Worcester, Mass.	WHA 940 Madison, Wis.		WIOD 1300 Miami, Fla.	WKBN 570 Youngstown, O.
WEVD 1300 New York City	WHAD 1120 Milwaukee, Wis.		WIP 610 Philadelphia, Pa.	WKBO 1450 Jersey City, N. J.
WEW 760 St. Louis, Mo.	WHAM 1150 Rochester, N. Y.		WIS 1010 Columbia, S. C.	WKBS 1310 Galesburg, Ill.
WEXL 1310 Royal Oak, Mich.	WHAP 1300 New York City		WISN 1120 Milwaukee, Wis.	WKBV 1500 Connerville, Ind.
57 WFAA 800 Dallas, Texas	WHAS 820 Louisville, Ky.	55	WJAC 1310 Johnstown, Pa.	WKBW 1480 Buffalo, N. Y.
WFAM 1200 So. Bend, Ind.	WHAT 1310 Philadelphia, Pa.		WJAG 1060 Norfolk, Nebr.	WKBY 1500 Ludington, Mich.
WFAN 610 Philadelphia, Pa.	WHAZ 1300 Troy, N. Y.		WJAK 1310 Elkhart, Ind.	WKJC 1200 Lancaster, Pa.
WFBC 1200 Knoxville, Tenn	WHB 860 Kansas City, Mo.		WJAR 890 Providence, R. I.	WKRC 550 Cincinnati, Ohio
WFBE 1200 Cincinnati, Ohio	WHBC 1200 Canton, Ohio		WJAS 1290 Pittsburgh, Pa.	WKY 900 Oklahoma City
WFBG 1310 Altoona, Pa.	WHBD 1370 Mt. Orab, Ohio		WJAX 900 Jacksonville, Fla.	WKZO 590 Kalamazoo, Mich.
WFBL 1360 Syracuse, N. Y.	WHBF 1210 Rock Island, Ill.		WJAY 610 Cleveland, Ohio	8 WLAC 1470 Nashville, Tenn.
WFBM 1230 Indianapolis, Ind.	WHBL 1410 Sheboygan, Wis.		WJAZ 1490 Chicago, Ill.	WLAP 1010 Louisville, Ky.
WFBR 1270 Baltimore, Md.	WHBQ 1370 Memphis, Tenn.		WJBC 1200 La Salle, Ill.	WLB 1250 St. Paul, Minn.
WFDF 1310 Flint, Mich.	WHBU 1210 Anderson, Ind.		WJBI 1210 Red Bank, N. J.	12 13 WLBC 1310 Muncie, Ind.
WFDV 1310 Rome, Ga.	WHBY 1200 Green Bay, Wis.		WJBK 1370 Detroit, Mich.	WLBF 1420 Kansas City, Ks.
WFDW 1420 Anniston, Ala.	WHDF 1370 Calumet, Mich.		WJBL 1200 Decatur, Ill.	WLBG 1200 Etrick, Va.
WFEA 1430 Manchester, N.H.	WHDH 830 Boston, Mass		WJBO 1420 New Orleans, La.	WLBL 900 Stevens Pt., Wis.
WFI 560 Philadelphia, Pa.	WHEC 1430 Rochester, N. Y.		WJBT 770 Chicago, Ill.	WLBW 1260 Oil City, Pa.
	WHFC 1420 Cicero, Ill.		WJBU 1210 Lewisburg, Pa.	WLBX 1500 L. I. City, N. Y.

WLBZ 620  
Bangor, Maine  
WLCI 1210  
Ithaca, N. Y.  
WLEY 1370  
Lexington, Mass.  
WLIT 560  
Philadelphia, Pa.  
WLOE 1500  
Boston, Mass.  
WLS 870  
Chicago, Ill. 49  
WLTH 1400  
Brooklyn, N. Y.  
WLVA 1370  
Lynchburg, Va.  
WLW 700  
Cincinnati, Ohio 69  
WLWL 1100  
New York City  
WMAC 570  
Syracuse, N. Y.  
WMAK 1040  
Buffalo, N. Y.  
WMAL 630  
Washington, D.C.  
WMAQ 670  
Chicago, Ill.  
WMAZ 1180  
Macon, Ga.  
WMBA 1500  
Newport, R. I.  
WMBC 1420  
Detroit, Mich.  
WMBD 1440 10  
Peoria Hghts., Ill.  
WMBG 1210  
Richmond, Va.  
WMBH 1420  
Joplin, Mo.  
WMBI 1080 30%  
Chicago, Ill.  
WMBO 1310  
Auburn, N. Y.  
WMBQ 1500  
Brooklyn, N. Y.  
WMBR 1370  
Tampa, Fla.  
WMC 780 59  
Memphis, Tenn.  
WMCA 570  
New York City  
WMIL 1500  
Brooklyn, N. Y.  
WMMN 890  
Fairmont, W. Va.  
WMP 1500  
Lapeer, Mich.  
WMRJ 1210  
Jamaica, N. Y.  
WMSG 1350  
New York City  
WMT 600  
Waterloo, Iowa  
WNAC 1230  
Boston, Mass.  
WNAD 1010  
Norman, Okla.  
WNAX 570 91  
WYANBK 1500  
Bingh'mt'n, N. Y.  
WNBH 1310  
New B'df'd, Mass.  
WNBO 1200  
Washington, Pa.

WNBR 1430  
Memphis, Tenn.  
WNBW 1200  
Carbondale, Pa.  
WNBX 1200  
Springfield, Vt.  
WNBZ 1290  
Sar'n'c L'ke, N.Y.  
WNJ 1450  
Newark, N. J.  
WNOX 560  
Knoxville, Tenn.  
WNYC 570  
New York City  
WAOI 1190 24  
San Antonio, Tex.  
WOAX 1280  
Trenton, N. J.  
WOBU 580  
Charlest'n, W. Va.  
WOC 1000  
Davenport, Iowa  
WOCL 1210  
Jamestown, N. Y.  
WODA 1250  
Paterson, N. J.  
WODX 1410  
Mobile, Ala.  
WOI 640  
Ames, Iowa  
WOKO 1430  
Albany, N. Y.  
WOL 1310  
Washington, D.C.  
WOMT 1210  
Manitowoc, Wis.  
WOOD 1270  
Gr. Rapids, Mich.  
WOPI 1500  
Bristol, Tenn.  
WOQ 1300  
Kansas City, Mo.  
WOR 710  
Newark, N. J.  
WORC 1200  
Worcester, Mass.  
WOS 630  
Jeff's'n City, Mo.  
WOV 1130  
New York City  
WOW 590  
Omaha, Nebr.  
WOWO 1160  
Ft. Wayne, Ind.  
WPAD 1420  
Paducah, Ky.  
WPAP 1010  
New York City  
WPAW 1210  
Pawtucket, R. I.  
WPCC 560  
Chicago, Ill.  
WPCB 570  
New York City  
WPEN 1500  
Philadelphia, Pa.  
WPG 1100  
Atl'ntic City, N.J.  
WPOE 1370  
Patchogue, N. Y.  
WPOR 780  
Norfolk, Va.  
WPRO 1210  
Providence, R. I.  
WPSC 1230  
State College, Pa.

WPTF 680  
Raleigh, N. C.  
WQAM 560  
Miami, Fla.  
WQAN 880  
Scranton, Pa.  
WQAO 1010  
New York City  
WQBC 1360  
Vicksburg, Miss.  
WQDM 1370  
St. Albans, Vt.  
WQDX 1210  
Thomasville, Ga.  
WRAK 1370  
Williamsport, Pa.  
WRAM 1370  
Wilmington, N.C.  
WRAW 1310  
Reading, Pa.  
WRAX 1020  
Philadelphia, Pa.  
WRBJ 1370  
Hattiesburg, Miss.  
WRBL 1200  
Columbus, Ga.  
WRBQ 1210  
Greenville, Miss.  
WRBZ 1410  
Roanoke, Va.  
WRC 950  
Washington, D.C.  
WRDO 1370  
Augusta, Maine  
WRDW 1500  
Augusta, Ga.  
WREC 600  
Memphis, Tenn.  
WREN 1220  
Lawrence, Kans.  
WRHM 1250  
Minneapolis, Minn.  
WRJN 1370  
Racine, Wis.  
WRNY 1010  
New York City  
WROL 1310  
Knoxville, Tenn.  
WRR 1280  
Dallas, Texas  
WRUF 830  
Gainesville, Fla.  
WRVA 1110  
Richmond, Va.  
WSAI 1330  
Cincinnati, Ohio  
WSAJ 1310  
Grove City, Pa.  
WSAN 1440  
Allentown, Pa.  
WSAR 1450  
Fall River, Mass.  
WSAZ 580  
Hunt'gton, W. Va.  
WSB 740  
Atlanta, Ga.  
WSBC 1210  
Chicago, Ill.  
WSBT 1230  
South Bend, Ind.  
WSEN 1210  
Columbus, Ohio  
WSFA 1410  
Montgomery, Ala.  
WSIX 1210  
Springfield, Tenn.

WSIS 1310  
Winst.-Sal., N. C.  
WSM 550 76  
Nashville, Tenn.  
WSMB 1320  
New Orleans, La.  
WSMK 1380  
Dayton, Ohio  
WSOC 1210  
Gastonia, N. C.  
WSPA 1420  
Spartanburg, S.C.  
WSPD 1340  
Toledo, Ohio  
WSUI 880  
Iowa City, Iowa  
WSUN 620  
St. Petersburg, Fla.  
WSVS 1370  
Buffalo, N. Y.  
WSYB 1500  
Rutland, Vt.  
WSYR 570  
Syracuse, N. Y.  
WTAD 1440  
Quincy, Ill.  
WTAG 580  
Worcester, Mass.  
WTAM 1070 31  
Cleveland, Ohio  
WTAQ 1330  
Eau Claire, Wis.  
WTAR 780  
Norfolk, Va.  
WTAW 1120  
College Sta., Tex.  
WTAX 1210  
Springfield, Ill.  
WTBO 1420  
Cumberland, Md.  
WTEL 1310  
Philadelphia, Pa.  
WTFI 1450  
Toccoa, Ga.  
WTCB 660-1060  
Hartford, Conn.  
WTJS 1310  
Jackson, Tenn.  
WTMJ 620  
Milwaukee, Wis.  
WTOC 1260  
Savannah, Ga.  
WTSL 1310  
Laurel, Miss.  
WVAE 1200  
Hammond, Ind.  
WWJ 920  
Detroit, Mich.  
WWL 850  
New Orleans, La.  
WWNC 570  
Asheville, N. C.  
WWRL 1500  
Woodside, N. Y.  
WWSW 1500  
Pittsburgh, Pa.  
WWVA 1160  
Wheeling, W. Va.  
WXYZ 1240  
Detroit, Mich.  
XEA 1200  
XEB 1030  
Mexico City  
XEC 1333  
Toluca, Mexico  
XED 965 40  
Reynosa, Mexico



## SOME STATION SLOGANS

**KELW** White Spot of the San Fernando Valley.  
**KEX** A Public Service Necessity.  
**KFAB** Home Sweet Home.  
**KFBL** Voice of Puget Sound.  
**KFEL** The Argonaut Station.  
**KFH** Kansas' Finest Hotel.  
**KFI** National Institution.  
**KFJB** Marshalltown, the Heart of Iowa.  
**KFKU** Up at Lawrence on the Kaw.  
**KFNF** Known for Neighborly Folks.  
**KFPL** Baxter's Place.  
**KFQU** 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.  
**KGFJ** 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.  
**KREL** 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.  
**WAIU** Voice of American Insurance Union.  
**WBAK** Voice of Pennsylvania.  
**WBAL** The Station of Good Music.  
**WBBL** Richmond, the Gateway to North and South.  
**WBRR** Watch Tower.  
**WBEN** Buffalo Evening News Station.  
**WBRC** Biggest Little Station in the World.  
**WBT** Queen City of the South.  
**WCAE** Where Prosperity Begins.  
**WCAI** College on the Hill.  
**WCAO** Gateway of the South.  
**WCAU** Where Cheer Awaits U.  
**WCHI** Watch Tower Radio Word.  
**WCMA** Voice of Culver.  
**WCSH** Voice from Sunrise Land.  
**WDAE** 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.  
**WFI** Key City of Industry.  
**WFLA** Inviting the World to the Springtime City.  
**WGBB** Voice of the Sunrise Trail.  
**WGBS** 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

**T**HE 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 KMCOS 1120 500				
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				
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.				
Kentucky	Lexington	WLSR	1000	500	
	Daily, 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.				
	Tues., Thur., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
	Fri., Sat., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
Louisiana	Shreveport	WLSR	1000	500	
	Test programs 2 a.m.-3 a.m. MST, last Tuesday in month, Oct.-April.				
	Mississippi	Meridian	WJAX	1000	500
		Daily, 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.			
Tues., Thur., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.					
North Carolina	Raleigh	WRDQ	1000	500	
	Daily, 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.				
	Tues., Thur., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
	Fri., Sat., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
Ohio	Columbus	WVON	1000	500	
	Daily, 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.				
	Tues., Thur., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
	Fri., Sat., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
Oregon	Portland	WVON	1000	500	
	Daily, 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.				
	Tues., Thur., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
	Fri., Sat., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
Texas	Dallas	WVON	1000	500	
	Daily, 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.				
	Tues., Thur., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
	Fri., Sat., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
Virginia	Richmond	WVON	1000	500	
	Daily, 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.				
	Tues., Thur., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
	Fri., Sat., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
Washington	Seattle	WVON	1000	500	
	Daily, 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.				
	Tues., Thur., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
	Fri., Sat., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
West Virginia	Charleston	WVON	1000	500	
	Daily, 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.				
	Tues., Thur., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 p.m.				
	Fri., Sat., 7:30-9 a.m.; 1-2:30 p.m.; 6-8 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.-8:30 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	Bismarek	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, mortgages 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. Schmedel.

(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
10 BU	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
<i>Conv</i> : DAILY				WEDNESDAY			
24 <sup>30</sup>	8	44	W8 X F	<i>Jake - WTAM. Sat.</i> " " Sunday " Friday			
3 <sup>00</sup>	7	55	W2 X AF ✓				
7 <sup>40</sup>	99	63	W8 X ALY ✓				
2 <sup>00</sup>	50	30	W1 X AZ ✓				
2 <sup>30</sup>	30	24	W8 X K ✓				
11 <sup>30</sup>	99	67	W3 X AL ✓	THURSDAY			
SUNDAY				<i>98 68 . W9 X A A</i>			
		1 <sup>30</sup>	W8 X AL ✓				
		2 <sup>00</sup>	W1 X AZ ✓				
		2 <sup>30</sup>	W8 X K ✓				
96	43		W9 X F				
50	37		W2 X AF ✓				
<i>Jumpo WGN - 640</i>				FRIDAY			
MONDAY				<i>Sun Day night</i> <i>60 - KFAB</i> <i>32 WTAM.</i>			
30	20		VE9 KW				
30	24	4	KS VE9 JW				
TUESDAY				SATURDAY			
KOV <del>13</del> 13 1/2							

# 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:

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

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

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

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

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

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

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

KHO	1000	Spokane, Wash.
WCAJ	500	Lincoln, Neb.
WEEL	500	Boston, Mass.
WOW	1000	Omaha, Neb.
WEMG	500	Berrien Springs, Mich.

#### 76 74

Louis Warner, Inc.
Stevens Wireless University
Edison Elec. Illuminating Co.
Woodmen of the World
Emmanuel Missionary College

#### 600 kilocycles 499.7 meters

CFCH	250	Trochu Falls, Ont.
KFEU	500	Laramie, Wyo.
KSDJ	500	San Diego, Calif.
WAGO	250	Baltimore, Md.
WEW	250	Baitoi, Wis.
WDAV	250	Lawrenceville, Tenn.
WRFC	500	Hempfield, Tenn.
WTFIC	500	Marshall, Conn.

#### 75 73

Abilhi Power & Paper Co.
Bishop N. S. Thomas
Edman Radio Corp.
Monumental Radio Co., Inc.
Staten College
Staten School of Music
WRFC, Inc.
Travelers Insurance Co.

#### 610 kilocycles 491.5 meters

FRG	1000	San Francisco, Calif.
WEAF	500	Philadelphia, Pa.
WFO	500	Philadelphia, Pa.
WOO	1000	Kansas City, Mo.

#### 74 72

Don Lee, Inc.
Edward J. Strick Co.
Keystone Broadcasting Co., Inc.
Clifton Bldg. for
Unity School of Christianity

#### 620 kilocycles 483.6 meters

KPAD	500	Phoenix, Ariz.
KCM	1000	Portland, Ore.
WDAE	1000	Thomas, Fla.
WELZ	500	Dover-Forest, Me.
WTHJ	1000	Wilmington, Wis.

#### 73 71

Electrical Equipment Co.
Oregonian Publishing Co.
James Publishing Co.
Hollins College, Inc.
Thompson L. Gearing
Milwaukee Journal

#### 630 kilocycles 475.9 meters

CFCT	500	Victoria, B. C.
KZM	500	Korvick, Wash.
WVRA	500	Monroton, N. B.
CBE	250	Fort Worth, Tex.
KGFP	500	Columbia, Mo.
WVAL	250	Washington, D. C.
WOS	500	Jefferson City, Mo.

#### 72 70

Victoria Broadcasting Ass'n
Winning Grain Exchange
Canadian National Railways
Garfield Lumber
Stevens College
Newville on the Air, Inc.
M. A. Leese Co.
Best Marketing Bureau

#### 640 kilocycles 468.5 meters

EPI	1000	Los Angeles, Calif.
WATU	1000	Columbus, Ohio

#### 71 69

Earle C. Anthony, Inc.
American Insurance Union

#### 650 kilocycles 461.3 meters

WSM	500	Nashville, Tenn.
-----	-----	------------------

#### 70 68

National Life & Accident Ins. Co.
-----------------------------------

#### 660 kilocycles 454.3 meters

WAJW	500	Omaha, Neb.
WEAF	50000	New York City

#### 69 67

Omaha Grain Exchange
National Broadcasting Co., Inc.

#### 670 kilocycles 447.5 meters

WMAO	500	Chicago, Ill.
------	-----	---------------

#### 68 66

Chicago Daily News, Inc.
--------------------------

#### 680 kilocycles 440.9 meters

KFO	1000	San Francisco, Cal.
WTFP	500	Raleigh, N. C.

#### 67 65

State Iron & The Chronicle
Northam 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 bare; 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.....