

THE FEBRUARY 1931

# RADIO INDEX

The Magazine that Doubles the Pleasure of Radio



25<sup>c</sup>

Reducing the Effect of Static  
Sick Sets and Their Symptoms  
The Cuban-Mexican Situation

No. 46

N. S. E.



## One of these Boys Will Fail - IF

**B**OTH possess equal health and intelligence, both have qualities that make for success, but only one will succeed, for the other one stammers—he will fail. He is dominated by fear. He will dread to meet people, for he will lack the self-confidence so necessary to succeed in all walks of life, but especially in business; and the humiliation of his disability will result in an impairment of his nervous system—a condition often the beginning of ill health.

All stammerers are fully aware of their handicap; they know how it feels to be regarded as "different" from other people—and often laughed at. They know that their affliction sets them apart from all others who are normal. They know that stammering is a handicap which prevents their greatest success in business or their participation in social affairs. But all stammerers do not know that their handicap can be removed.

From childhood Benjamin Bogue was afflicted with a chronic case of stammering. For nearly twenty years he endured the experience common to all stammerers. But after long years of tireless effort, after endless nights of study and days of research he developed the method by which he cured himself.

### STAMMERING ITS CAUSE AND CURE

In the book offered below, Mr. Bogue relates the story of his own experiences, and describes how he restored himself to perfect speech. As stammering is due to a lack of co-ordination between the speech muscles and the brain, he quotes in the book the eminent authorities that for years recognized the well-known fact that stammering cannot be "ingrown,"

but instead becomes "ingrown," and that in order to restore perfect speech it is necessary to establish proper functioning of the speech musculature.

Beginning on page 72 will be found an explanation of the causes of stammering. The results of stammering are also fully described, giving the basis of the conviction held by leading speech authorities that stammering should be removed before it becomes deeply rooted in the muscular and nervous system. The text beginning on page 196 is devoted to a description of the Bogue Unit Method, which is based on the principle of co-ordination between the mind and the speech organs. It has restored perfect speech to stammerers everywhere. No drugs or medicine are used, and the method is highly endorsed by physicians.

In this book will be found the reason for the world-wide reputation of the Bogue Unit Method and its international recognition as the standard method for the cure of stammering and stuttering. Hundreds of helpful facts are embodied in this valuable book entitled "Stammering, Its Cause and Cure," a copy of which will be sent on receipt of ten cents mailed with the coupon.

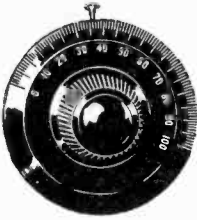
BENJAMIN N. BOGUE,  
11053 Bogue Building,  
1147 N. Illinois St., Indianapolis, Ind.

Enclosed is 10 cents for which please send me the book "Stammering—Its Cause and Cure"—and full information regarding the Bogue Unit Method for the cure of stammering and stuttering.

Name .....

Address .....

THE FEBRUARY 1931

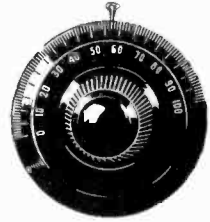


# RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



SEVENTH YEAR

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# REDUCING the Effect of STATIC

## The Worst Enemy of Radio

**E**VERY owner of a radio receiver has undoubtedly been troubled with frying and crashing noises, over which he has seemingly little or no control. He has noticed that such noises are very severe during rainy, cloudy weather, and especially during the warmer months of the year. Also, the trouble is worse in tropical or semi-tropical regions, but it is also present in parts farther north. These noises, which are caused by static, may have perplexed you. One radio owner, thinking that they were caused by his receiver operating poorly, purchased a new set of tubes, but the trouble still persisted, and then he resoldered all the connections, but to no avail. It is evident then that when you hear static noises, your set is not to blame, and therefore a lot of fruitless tinkering with the set can readily be avoided by knowing static noises when you hear them. Static is an electrical condition existing in the atmosphere and for this reason cannot be entirely eliminated, although something can be done to minimize its effects. Besides superimposing noises on the reception of a broadcast program, static sometimes has a blanketing effect on signals, and then it prevents them from even being heard. Such blanketing effect is entirely incurable by any method used at the receiving end. Sometimes static conditions exist over a small territory of only a few square miles, due to local storm conditions, each lightning discharge producing a loud crash or rumble in the loudspeaker, although such discharges may not be visible. On the other hand a territory of several thousand square miles may be affected by static conditions.

### Long Aerial Magnifies

The more sensitive your receiver is, the more static you will pick up on occasions when the trouble prevails. The length of your aerial also has considerable influence. A long aerial will pick up more static than a short one, and an indoor aerial or loop will pick up the least. One method of reducing the

effects of static is to shorten the aerial or use an inside aerial. Most modern receivers are sensitive enough to work satisfactorily on a short inside aerial. Many radio fans have two separate aerials, a long one and a short one, the former being used when the atmosphere is quite free from static disturbances, and the short one when the effects are noticeable. Another method of reducing trouble is to connect a small fixed condenser of about .00025-mfd. capacity in series with the aerial lead. This is done by connecting the aerial lead in wire to one terminal of the condenser and then connecting the other terminal of the condenser to the aerial binding post of the set. This method has the same effect practically as shortening the length of the aerial. It causes the receiver to tune more sharply but it also decreases the receiving range. The latter effect is rather undesirable, but under the circumstances, it may be preferable to considerable static.

The most effective method of minimizing static noises in the receiver is to connect a small grid condenser and leak across the aerial and ground leads. This method has been used for a number of years in the U. S. navy. Several static discharges are by-passed by this arrangement and the condenser acts as a stabilizer. If, however, none of the methods already mentioned show any appreciable results, it may be necessary to install an underground antenna, one kind being known as a "Subantenna." This, it is claimed, eliminates considerable static and other atmospheric disturbances of an electrical nature by using the ground instead of the air waves. This kind of aerial consists of a shielded and sheathed wire insulated in a cable, and equipped with specially made pick-up coils at both ends and at the center. It can be procured in 75-foot or 100-foot lengths, and the method of installing it is given in the directions which accompany it.

# SEVEN PUZZLING PROBLEMS

To Test Your Knowledge  
of Radio

**T**HERE were fifty-two correct solutions of the December puzzle, so that it is evident that our puzzlers found that form more difficult than the cross-call. As usual a number were received too late to be considered. We are now mailing RADEX to subscribers on the 20th of the preceding month, right hot off the press. Solutions must reach us, therefore, by the 20th of each month to receive consideration. The most common error in December was the call "850 miles south of Minneapolis on the new map." A large number used KTHS instead of KTBS. Any map should show that it is Shreveport and not Hot Springs which is 850 miles due south of "The Flour City."

In publishing the correct solution of the December puzzle last month, a typographical error was made for the call "First on the last." It should have been KDB instead of KDBG. A number want to know the meaning of this definition; translated, it means "The first station on the last frequency," KDB being the first listed on 1500 keys.

The answers to the January stickers are pouring in and the premiums will be mailed to successful contestants on January 20th. The mistakes that are being made are nearly all due to failure in checking with the key descriptions. A number of different stations could be used for any one of the places but they would not fit the descriptions. Thus a number used WOKO instead of WOWO

but only the latter is a ten k.w. station. On the other hand, solvers have found a number of stations which can be used which will not only fit the puzzle but will also meet the descriptions. We are counting these as correct.

Correct solutions of the January puzzle are as follows:

TUBE-WFBE-WLBW-GLOW.

PUSH-KUSD-KPSN -WISN -WILL -

PULL. In place of KUSD, WCSH may be used and in place of KPSN, any of the following with WCSH: WCFL, WMSG, WGST, WBSO, WCAC, WLSI or WPC. WISJ would answer in place of WISN.

RAID-WAIU-KFIU (or WIBU) KFRC (or WABC) WORC-WOMT-ROUT.

DIAL-WBAL-WBOW-WAAW-WACO-WOWO-KONO-SONG. In place of WBOW, any of the following may be used: WJAC, WMAL, WCAC, WBEN or WBBC. In place of WAAW: WICC-WBSO-WAAF.

For the February puzzle, we are going to try to suit everyone by putting in problems of each type. To conserve our supply of maps and RADEX, we are requiring a correct solution for each of the puzzles. Those sending correct answers to all may have their choice of either a new radio map or the March RADEX. If they request it, subscribers may have a number added to their subscription in place of the March issue.

Puzzle No. 1 is submitted by Victor J. Balt, 226 Sumner Ave., Aurora, Ills. A very similar one was submitted by Mort M. Schlosser, 109 South 10th St., Newark, N. J., so credit for this one goes to both. Fill in the blank spaces so that, from beginning to end, you will have the call letters for the following stations:

### Key

Shares time with agricultural college.  
In a city named for a great horticulturist.  
Father Knickerbocker broadcasting.

T H E  M A G A Z I N E

T H A T  D O U B L E S  T H E

P L E A SU R E  O F  R A D I O

One of five NBC stations on this wave.  
 A hundred-watter in the far south.  
 The call is abbreviation of the state.  
 Is this the Voice of Providence? (Reverse.)  
 A church in Washington.  
 A booking agency for the movies.  
 Time only.  
 In Waterloo. (Reverse.)  
 A Columbia voice in Florida.  
 20 k. w. agricultural. (Reverse.)  
 On 1500.  
 Shares wave with Zion. (Reverse.)  
 In Massachusetts.  
 In Massachussets.  
 Way down South in Dixie. (Reverse.)  
 On the Rice Hotel.  
 A Western broadcasting company.  
 NBC outlet in California.  
 In Ogden. (Reverse.)  
 A sister-station in California.  
 In "The Sunshine City."  
 In "The Sunshine City."  
 In the middle of 1310. (Reverse.)  
 The banks of the Wabash far away.  
 All hundred-watters on this wave but four.  
 Has a night wave to itself.  
 Last stop going east.  
 Farthest south of the NBC. (Reverse.)  
 In the middle of the dial.

In the next five puzzles we are to change one word into another by filling in station calls. For each of these calls we must bring down two letters from the one above, using two new letters. Thus to change SOLO into TRIO we change

SOLO


TRIO

No. 2

KCYS

--	--	--	--

MTRS

S to W and L to K, bringing down the two O's, giving us WOKO. Now we bring down the W and the last O and change the first O to R and K to D, giving us WRDO. Changing W to T and D to I, gives us TRIO.

Puzzle No. 2. Change KCYS to MTRS with one station.

WISH


DEED

SLOW


FAST

Puzzle No. 3: Change WISH to DEED with two calls as above.

Puzzle No. 4: Change SLOW to FAST with three calls.

Puzzle No. 5: Change PATH to ROAD with three calls as shown.

Puzzle No. 6: Change LONG to HIGH with five calls.

No keys are given for the above as several different stations will fit each call.

Puzzle No. 7: This is one of a number submitted by our readers in the January competition. Decision as to their relative

PATH


ROAD

LONG


HIGH

1	2	3	4	5	6	7	8	9	10	11		
12	13	14		15		16		17	18	19		
20	21	22	23		24	25	26		27	28	29	30
31		32	33	34	35		36	37	38	39		40
			41	42	43	44	45	46	47			
48	49	50	51	52	53	54	55	56	57	58	59	60
61		62		63	64	65	66	67		68		69
70	71	72	73	74	75	76	77	78	79	80	81	82
			83	84	85	86	87	88	89			
90		91	92	93	94		95	96	97	98		99
100	101	102	103		104	105	106		107	108	109	110
111	112	113			114		115			116	117	118
119	120	121	122		123	124	125		126	127	128	129

merits will be made later. This one is submitted by C. B. Huff, Martinsville, Ind.

### Horizontal

- 1- 4 One of three stations on this wave.
- 5- 7 On the center wave.
- 8-11 (Reverse) Associated Broadcasting Corp.
- 12-14 (Reverse) Moved from 980 in January.
- 15-16 Middle letters of Tennessee station.
- 17-19 Will this station be a goat?
- 20-23 On 1420.
- 24-26 Last three letters of Union Bank & Trust Co.
- 27-30 228.9 meters.
- 31-40 Middle letters of College for Women.
- 32-35 Farthest south in U. S. A.
- 36-39 (Reverse) On fourth frequency from one end.
- 41-44 (Reverse) Church of the Nazarene.
- 44-47 On the Oklahoma-Kansas line.
- 48-51 (Reverse) Only 100-watt on its wave.
- 52-55 (Reverse) A sister-station.
- 55-56 22 stations begin with these letters.
- 57-60 A Columbia outlet.
- 61-62 Last two letters Pillar of Fire.
- 63-65 Last three letters of Brooklyn station.
- 65-67 (Reverse) An NBC outlet.
- 68-69 Last letters of two Boston stations.
- 70-73 "Down in Old Kentucky."
- 73-75
- 74-76 Two stations in the same city.
- 76-79 (Reverse) The other sister-station.
- 80-82 Owned by a secret society.
- 83-85 (Reverse) In a state capital.
- 86-89 On the Rio Grande.
- 90-99 First and last of two Boston stations.
- 91-94 A "Dn" station on a cleared wave.
- 95-98 Spells same either way.
- 100-103 (Reverse) In Greeley.
- 104-106 Four countries on this wave.
- 107-109 Has permit to move to another city.
- 111-113 1000 watts daylight station.
- 114-115 First and last of three Canadian.
- 116-118 In the capital of another country.
- 119-122 (Reverse) On the Ohio.
- 123-125 100 watts in California.
- 126-129 (Reverse) 33 100-watters on this wave.

### Vertical

- 1- 31 Has permit to move to Albany.
- 2- 21 G. Gutierrez, Jr.
- 3- 32 (Reverse) Owned by a woman.
- 4-122 Last letters of two Georgia stations.
- 5- 35 In Santa Ana.
- 6- 25 Last two letters of Utah station.
- 7- 36 10 kilowatts.
- 8-126 Last two letters of station in C-3.
- 9- 39 (Reverse) Another "Dn" station on clear wave.
- 10- 29 Three stations in three countries on this wave.
- 11- 40 In another state capital.
- 23- 51 (Reverse) On the Mississippi.
- 27- 57 A fifty-watter at the end of the dial.
- 34- 52 Same as 74-76 horizontal.
- 37- 56 Now owned by NBC.
- 42- 74 (Reverse) Shares time with Yonkers.
- 43- 53 Second and last letters of stations in Texas, Kansas and Montana.
- 44- 65 In Wenatchee.
- 45- 55. Last two letters of Toronto station.
- 48- 70 (Reverse) Now synchronized with its sister-station.
- 49- 71 Two Denver stations end with these letters.
- 50- 72 Shares time with another NBC station in same city.
- 53- 85 (Reverse) Owned by Mr. Jensen.
- 55- 87 Nothing over 100 watts on this wave.
- 59- 81 Middle letters of station on same wave.
- 60- 82 (Reverse) A State university.
- 67- 96 Lone Star Broadcast Co.
- 73-103 Ohio shares time with Pennsylvania.

- 74- 93 First three letters of a Tennessee station.
- 76- 86 Two Buffalo calls end with these letters.
- 79- 107 This is one of them.
- 90-119 A new call in January.
- 91-121 Missouri shares with Illinois.
- 94-123 Low-powered Canadian.
- 95-125 100 watts in Illinois.
- 98-127 Knickerbocker Broadcasting.
- 99-129 (Reverse) Only NBC station on its wave.
- 101-120 12500 watts.
- 105-124 Middle letters of Tupper Lake station.
- 109-128 Instituto Provincial.

All puzzles in this issue are made from calls as published in the January RADEX.

## What Makes the Buzz?

Dirty commutators and sparking brushes on electric motors used on washing machines, vacuum cleaners, fans, oil-burning furnaces, refrigerators, sewing machines, etc., are a frequent cause of crackling noises, if these devices are used while the radio set is in operation. In some cases where these motors cannot be turned off, as is the case with those used on oil-burning furnaces, the trouble can often be eliminated. Connect two 2-mfd. fixed condensers in series across the power line near the motor which is causing the trouble. A ground connection on a cold-water pipe is then made to a point between the two condensers. Fuses of 15-amp. capacity are also provided between the line and the condensers, to prevent short circuits in case the condensers break down. The operation of high-frequency devices, such as violet-ray and X-ray outfits, ozonators, induction coils, and the like, causes continuous crackling or buzzing sounds. Other sources of interference from power-line devices are: sign flashers, electrically-operated switchboards used for railway signaling, elevator controllers, automatic cutouts and starting switches for machinery, stop lights on street corners, street arc lamps, motion-picture machine using arc lamps, electric-welding apparatus, smoke or dust precipitators, toy electric motors, toy electric trains, doorbells and buzzers.

**SEE FREE RADIO MAP  
OFFER On Page 25**

# SICK SETS and their SYMPTOMS

*My Radiola No. 16, a desk model, operating on direct current, works well but there is one fault. When I get my station, it suddenly fades away. The only way I can get it back again is to snap the switch back and forth. This happens once from every ten minutes to an hour. I went over the whole set and found no loose connections.*

One would almost come to the conclusion that your switch is defective. This is probably the case if the tubes flicker or cease to light when the reception fades away. Of course, it may also be a ballast, loose connection between a tube and socket, or an internal defect in a tube that shows up after the tube has been heated for a short time. However, I would suspect the switch. To be on the safe side as far as the tubes are concerned, it would be a good idea to have them tested. Overloading a tube is another possibility that might be responsible for your trouble, which would necessitate turning the rheostat back. In this case it might be well to reduce the plate voltage on the tube that is overloading, probably the detector.

## Station Blankets Dial

*I have a Fada "10" seven-tube receiver on which reception is good but the separation of stations is poor. I live on the side of a mountain on which is located a 250-watt station with an antenna almost parallel to mine. This station covers from 1200 to 1500 on my dial, or about 25 points. As you know the Fada "10" has a rejector. This controls another local station about one mile away but does not affect the closer station. As I cannot very well move my aerial I am wondering if a wave trap or some similar device would help. Would two or three hundred feet of aerial with a .00025-mfd. fixed condenser connected in series, help to make tuning sharper?*

When in such close proximity to a broadcasting station as you are it becomes a very difficult matter to eliminate interference, especially with the aerials running parallel. Your suggestion of using a longer antenna with a fixed con-

## More Remedies by the Radio Doctor

denser in series, would not make the matter better, but decidedly worse. A very short antenna, erected at right angles to the one of the broadcasting station, can be tried. The trimmers on your tuning condensers should also be properly adjusted, which has been fully covered in the No. 39 issue of RADEX. If the set does not tune the nearby station out, get a wavetrap.

## Tube Shorted

*I have a Sparton model No. 79A. The wire belt on the dial broke and I replaced it temporarily with a cord until I obtained another wire belt, which I then installed. Since this change was made reception stops a few minutes after the set has been turned on. I have had a radio-service man test all the parts including the tubes, and everything seems to be in good condition, but the set still stops playing. The service man cannot find the cause of this condition and says that the tubes have been choked. Can you make any suggestions?*

Your trouble sounds like a temporary internal short-circuit of the r. f. tubes. When not used for a short time these will perhaps test O. K., and will also function properly in the receiver for a few moments until they are heated up. The internal members then expand causing a short-circuit. By substituting good, new tubes, one at a time, you can find out just which one is defective. It is possible that when you installed the wire belt you accidentally touched certain parts and subjected the tubes to a high voltage not intended for them, which had a paralyzing effect. Tubes so injured are often referred to as "choked." The sudden stopping of reception may, however, also be due to a short-circuited or leaky by-pass condenser. If you desire a diagram of the wiring of this set write to the manufacturer, although wiring diagrams are usually distributed only to authorized dealers. The manufacturer of the Sparton receiver is the Sparks-Withington Co., of Jackson, Mich.



### Changing to Short Waves

*Can you furnish me with advice telling how to convert a Crosley No. 51 receiver into a short-wave set?*

In the January issue of RADEX you will find an article covering the construction of a short-wave receiver. When an old receiver is to be re-wired for short-wave work the filament, plate and grid wiring can usually be left intact, but the coils and condensers must be changed, together with the leads connected to them. The audio end of your receiver will probably be suitable as is. Use the same kind of tubes as the set was origi-

### Broad Tuning

*My problem is a Silver-Marshall No. 30. This set, as you know, has an untuned stage which causes broad tuning. I have tried a simple tuned circuit ahead of the untuned tube. This increases the sensitivity of the set many times, especially on the higher frequencies, but adds nothing to the selectivity. Do you think that a band-selector tuner, to be tuned by an extra control, would help? A band selector cuts the signal strength but I believe that the added amplification gained by tuning the first stage would compensate for the loss in the tuner.*



A Brand New 1931 Model

Arthur W. "Tiny" Stowe, announcer and maestro of late-night programs from KSTP, Velma Dean Stowe, the Southern Crooner of radio and little Velma Stowe, their four-months-old daughter

nally intended for, as it is equipped with resistors and rheostats passing just the right amount of current for these tubes.

#### Preliminary Squeal

*I have a Brandes receiver model No. B-15, and it works satisfactorily except when I turn it on. While the tubes are warming up and just before reception comes in there is a terrible squeal. Could you tell me what could be done to eliminate this noise?*

Many a. c. sets are apt to squeal when first turned on, especially if the volume control is advanced. Retard the volume control and then turn the set on, which usually eliminates the trouble. Proper adjustment of the plate voltages on the detector and r. f. stages may also be necessary.

Reducing the number of turns of the primary winding of the coil used in your additional tuned r. f. stage, and increasing the distance between this winding and the secondary winding, will help considerably to make your set more selective. A band-pass filter will also help to increase the selectivity but try the method just described first, and if the set is still too broad we will be glad to advise you again. Of course, you are aware of the broadness resulting from too long an aerial, and that by cutting a small fixed condenser in the lead-in, greater selectivity can be gained.

*I have a "Larphonic" set made by the Larkin Co. It is an eight-tube set using five 227 tubes, two 245 tubes and one 280.*

*(Continued on page 20)*

# MEXICO, CUBA and their Interference

## Heterodynes in Spanish

THE frequencies of the broadcasting band have been allotted to American stations without the slightest consideration being given to stations in Mexico and Cuba. One would think that our authorities felt that stations in the latter two countries were in another planet or on the other side of this one. As a matter of fact, some of the Mexican stations are just across a river from the United States and, so far as interference is concerned, might as well be in the center of this country.

United States and Canadian authorities have gotten together and reached an agreement by which certain waves are set aside for exclusive Canadian use and a number of others designated to be used jointly. No such arrangement or treaty exists between the United States and Cuba or Mexico. When one considers that the result is almost to ruin radio reception in the southern part of the United States and even as far north as Canada, one cannot help but wonder why the officials charged with responsibility for radio in the United States do not take the necessary steps for an orderly arrangement of broadcast waves with our southern neighbors. True, any such arrangement would probably require certain channels to be set aside for the exclusive use of Mexican and Cuban stations, but illy as we can spare any channels in the broadcast band, it would be far better to spare a dozen of them, if need be, rather than have reception ruined on nearly all of them.

"The Mexican stations," declares Mrs. L. R. Ledbetter, Vicksburg, Miss., "are making radio reception in this part of the country anything but a pleasure. We consider ourselves extremely fortunate to be able to tune in a 50 kilowatt station and leave the radio fifteen minutes without the program being drowned by a squealing and howling from 101-watters on the south (please tell me the reason for that extra one

watt). And why do the Mexican stations crowd Canadian waves? That is something the Canadian radio authorities should attempt to alter."

And Mrs. Roy Schank, Pox 1155, El Paso, Texas, writes that XEJ Juarez, Mexico, runs the gamut on her dial from 40 to 50, thus completely depriving her of a number of very desirable U. S. stations. "Although a radio enthusiast, I might as well junk my radio if the Radio Commission cannot bring about some improvement in the situation."

### A New Station

We are in receipt of a telegram informing us that since December 16th XETF has been broadcasting on 680 keys. as a trial for determining a wave for their 500-watt station. This station is owned by Manuel Angel Fernandez & Cia. Their address is Independencia 24, Veracruz, Mexico, and their slogan "The Voice of Veracruz."

"At 3 a.m. EST, December 23rd, I received a broadcast from a Mexican station coming in at 1160 keys. This broadcast continued until 4 a.m. when they signed off," writes James A. Burke, Box 5, Riverton, Conn. "Announcements were made after every number but they were all in Spanish and I could not understand them. I had the same station again December 25th, at 3 a.m. until 4:07 when they signed off. The letters were XEAAR with a pause between the two A's. The broadcast both times seemed to be from a cafe or dance-hall as there was much laughter, talking and noise between each number. There were no announcements in English, and I am quite sure of the five letters unless AR is something in Spanish." We have no record of any Mexican station on or near this wave, but as the Mexican stations seem to be moving around the dial so frequently, it is next to impossible to keep an accurate check on them. We can only hazard the guess that this may have been XEA, Guadalajara, as it is possible that the name of this city in Spanish may sound similar to the letters

AR in English. Our last record of XEA was 1200 keys.

#### A Lesson in Spanish

Charles Enrique Foster, 120 Hall Ave., Colvin Station, Syracuse, N. Y., comes to the assistance of our readers with a short lesson in Spanish.

Mr. Foster, who states that he is



*Did You Hear It*

*The first-time-in-history broadcast from a submerged submarine. This program came from forty fathoms below Atlantic waters.*

partly of Spanish descent, offers to translate letters or postals in Spanish from Mexican or Cuban stations for our readers. We can only hope he will not be swamped. Here is the Spanish alphabet, as it is pronounced in English, according to Mr. Foster: A, be, ce, che, de, e, ef, ge, h, i, jota (the j being pronounced like the English h), ka, el, elle, em, ene (pronounced enye), o, pe, ku, ere, erre, ese, te, u, ve, x (pronounced ekis), i-griega, zetta. It will be noticed there are "ch," "ll" "enye," "rr," which do not appear in English. XEZ would sound like this, "Ekis, e, zetta."

"Early this morning, about 1:50 a.m., I picked up a new Mexican station between 1400 and 1410 keys This was not CMBY at Havana, Cuba, as I distinctly heard the announcer say Mexico two or three times during the program.

The location sounded like 'La Saltillo.' This report is from L. E. Wallace, 110 North Duval St., Tallahassee, Fla.

Joseph Stokes, 7318 Woodlawn Ave., Swissvale, Pa., heard a Mexican station with the call XAAR on 1140 keys, and another on 690. (The latter may have been the new station XETF on 680.) Mr. Stokes has heard so many Spanish-speaking stations that he calls his set "Senorita."

J. H. Nickels, 1510 Gimber St., Indianapolis, Ind., is also seeking information regarding the Mexican station on 1160. He caught the call as XEKR. A number of other readers have written us about these same stations.

XED, Reynosa, Mexico, came on the air after our new map was completed, and a number of readers have called our attention to the fact that Reynosa is not shown. In order that they may mark their map with this important station they are advised that Reynosa is directly across the river from Hidalgo, Texas, on a straight line between Harlingen, Texas, and Monterrey, Mexico, thus coming in the square T-14.

#### The Cuban Situation

While our readers are endeavoring to identify Cuban stations they may be interested in the trials people there have in bringing in our locals. "We turn on the radio as soon as we awake in the morning," writes Mrs. A. C. Gray, Central Tanamo, Cayo Mambi, Oriente de Cuba. "That is between 5:30 and 5:45 a.m. EST. The most distant station we have been able to pick up is KEX, Portland, Ore. We get KFKB and WTAM nearly every morning, which remain clear and distinct with much volume until 7 a.m. We have WQAM and WIOD from the time they commence their broadcast until they sign off. Those two stations are like good friends to me as I am rather lonely here. I can get the news flashes and so many other things. I notice you omit from your list of Cuban stations CMKX, Holguin. We get it at 1240 keys. It provokes us many times because it interferes with WIOD. We receive CMKC, Santiago, between 1040 and 1050 keys., while you

*(Continued on page 22)*

# THINGS Our Readers Want to KNOW

## About This and That

Victor J. Balt, 226 Sumner Ave., Aurora, Ill., wants information about KGR on 1500 keys. Roy Knapp, Akron, Ohio, gets KNX every night after KFKB signs off and thinks they surely must have increased their power. Frank Wheeler, 406 Eagle Point Blvd., Erie, Pa., gets KMJ louder than KF1, although the latter is presumed to have 5000 watts and the former but 100. Reg. Firth, 51 Roosevelt Road, Amsterdam, N. Y., wants information about KEE0 which he picked up early in the morning of December 29th, hearing two or three orchestra numbers. The location was 1380 or 1390 keys.

J. Duval, 350 St. Joseph St., Quebec, Canada, heard a station whose call letters were clearly WTAT on 1010 keys. He was sure this was not WPAP. Melvin DeJager, 106 Llewellyn Ave., Hawthorne, N. J., wants to identify a Spanish-speaking station on 1230 keys. Frank H. Ludwig, Box 455, Barnsdall, Okla., heard a station giving the call letters KGBZ and calling themselves the Metropolitan Police Department of St. Louis. As this is the call of the station in York, Neb., Mr. Ludwig is puzzled.

In answer to O. C. Arnold who inquired as how best to receive New Hampshire and Vermont stations, John C. Berry, 49 Worcester St., Nashua, N. H., states that he lives about 60 miles from WKAV, the only New Hampshire station, and has never received them yet, although he has been trying for two or three years. C. A. Southworth, 2525 Scioto Trail, Portsmouth, Ohio, wants to know how far 2628 kilometers are. One meter is 39.37 inches and a kilometer is 1000 meters. In answer to Charles Foster of Syracuse concerning a German program heard on 1400 keys., H. I. Humphrey, 22 Theron St., Johnson City, N. Y., thinks this was WBBC, Brooklyn, as that station broadcasts almost every night programs in either German or Yiddish.

## Harmonics

Uriah Bronfenbrenner, Thiells, N. Y., wants to know what an harmonic is and what causes it, and Harold C. Roekey, 50 Trinity St., Stratford, Ont., asks why when tuned to about 1520 keys., he gets WTAR of Norfolk, which is listed on 780 keys. We can best explain an harmonic by stating that if one were to strike the lower C string on a piano all of the other C strings would vibrate. These are harmonics. In radio a station has a harmonic at twice its frequency. Thus a station on 500 keys, would have a harmonic at 1000. WTAR's first harmonic would be 1560 keys.

Frank Maida, R.F.D. No. 1, Long Branch, N. J., wants to know why the kilocycle readings on his Victor RE 45 are not accurate above 1000 keys. It is probably not possible to mark dials in kilocycles and have them absolutely accurate, although some manufacturers are able to do this quite closely. To be perfectly accurate, each set should be calibrated by itself and this, of course, is not practical when manufacturing in large quantities.

## Stations Testing

J. H. Nickels, Indianapolis, Ind., received a program over a powerful station on 1300 or 1310 keys. at 2:50 a.m. They never announced and signed off without giving their call. He heard a similar station on 820 keys. after WHAS had signed off at 2 a.m. without announcement. R. R. Rawstron, 31½ Sullivan St., Claremont, N. H., listened for an hour to a station in the early morning with not a single word being spoken. For half an hour they played the same selection over and over again. The secret is that after midnight when other stations on their wave have signed off, a station may do its testing. This is usually done with phonograph records and, as they are not regularly broadcasting, no announcements are necessary.

Herbert Woertz, 1927 No. Summit Ave., Pasadena, Calif., states that the log book which he received with his Majestic set shows the call letters of

Cuban stations beginning with figures instead of CM as in RADEX and wants to know why. Cuban stations changed from figures to calls beginning with CM nearly two years ago. This means that the Majestic log book is two years out of date. Why so progressive a manufacturer should furnish users of his set with such obsolete information we do not know.

Edward Hayworth, 55 No. 11th St., San Jose, Calif., complains that we do not show KJBS as a limited time station with the "Dn" symbol. KJBS, he says, signs off at sundown, but returns to the air every night at midnight PST and remains on until sundown. KJBS is a daytime station only, but as stated above, stations may return to the air after midnight when those ordinarily having the channel have signed off.

In answer to inquiries regarding WCLB, Karl Halpern, Brooklyn, N. Y., states that he went up to Long Beach to inquire about this station and found that they haven't been on the air since May, 1930, and may not be again until possibly next summer.

#### All Cleared Waves

A number of readers have written to us to complain of the chaotic conditions on many channels and to suggest that only one station at a time ought to be allowed to broadcast on any one channel. Such an arrangement would, of course, be ideal, but unfortunately is completely out of the question. We now have over 600 stations in this country and only about 90 American channels. It will be readily seen that if all were treated alike, each station would have one evening a week and no broadcasting company would maintain its expensive facilities under such an arrangement.

One of our readers tells us that his Radiola No. 60 was greatly improved by substituting a 245 tube for the 171 formerly used. At first, considerable trouble was encountered owing to hum but this was successfully eliminated. "To overcome the hum," he writes, "remove the lead from lug 8 and put it on lug 10, also remove lead from lug 9 and transfer it to lug 11. Lugs 8 and 9 are left open. Every socket was also carefully checked to see that there was

no more than 2.5 volts current on the filament." We have not tried this experiment and only present this as a remedy suggested by one reader.

We still receive a number of requests for information in regard to attaching headphones to a. c. sets. This was fully covered by an article in April RADEX No. 38.

Richard S. Tefft, 76 Salem St., Greenwich, N. Y., heard the announcer of



"Snoop and Peep"  
Master-mind "Detectives" of the NBC out-Sherlocking Holmes.

WBNX state that that call was being used in place of WKBQ. Karl Halpern, Brooklyn, reports that WSGH is changing to WFOX. C. Bach, 56 E. Compton Road, Mt. Healthy, Ohio, advises us that WFBE is increasing power from 100 to 250 watts. Several readers call our attention to the fact that while we changed KMIC to KMCS in January, that station is still using the call KMIC. Evidently this was an error and we are changing back to the old call. A reader sends a newspaper clipping announcing the first broadcast from Grove City's new station WHAJ, which is sponsored by the college. We are now carrying WSAJ at Grove City on 1310 which is

(Continued on page 22)

# STALKING Elusive STATIONS

## With the Midnight Dialers

WE receive hundreds of letters from our DX friends and it is utterly impossible to quote all the interesting records and comments. Many which we planned to include this month will have to be carried over until March. We are particularly anxious to receive reports of reception of stations whose announcements do not agree with the call, frequency or location as published in RADEX. Many changes are made long before they are reported by the Radio Commission and it is only through the cooperation of our readers that we are enabled to keep this magazine not only up-to-date but actually in advance of official records.

In regard to WBBZ being heard from points other than Ponca City, Okla., an explanation is given by Thomas Henry Edmiston, 402 East Vilas, Guthrie, Okla. "This station has several studios in Arkansas that broadcast over it by remote control. The station has not moved."

John N. Dannert, 181 Alexander Ave., New York City, answers several inquiries as follows: To Charles Foster: WCGU at Coney Island broadcasts a Jewish program several times during the week. To Joseph Brocius: VAS may be heard at about 3:00 a.m. EST giving weather forecasts to Atlantic fishermen. To L. A. Deuchar: WHAP has taken over WOAX.

Eugene Martin, 5446 McCommas Lane, Dallas, Texas, sends us a letter which he received from a so-called DXer in Harrison, N. J., which asks Mr. Martin to furnish him with information that will enable the Harrison man to write to stations for verifications he has never heard and offers to perform a like service for Mr. Martin. Mr. Martin, however, is not that kind of a sport. We think we will have to arrange a black-list for fans of the Harrison type and hope readers who receive similar requests will forward them to us.

## Foreign Reception

Many readers, like W. E. Cann, Hampton Beach, N. H., do not see how it is possible for other DXers to pull in foreign stations on the broadcast band. Let us say that out on the Pacific Coast it is no great feat to hear Japan, some DXers bringing in as many as six Japanese stations in one evening. If we grant that this is possible then we must assume that fans who have particularly sensitive sets farther inland, or particularly good locations or who are exceptionally skillful in tuning, may also bring in Japan. Thus we see, that these three factors being present, there is absolutely no reason why these Japanese stations may not be heard clear to the Atlantic seaboard. Let those who cannot understand how these foreign stations can be tuned in refer to our list of world stations and they will see that the vast majority of these are in the broadcast band. And remember this—the signals of stations in every country in the world are in the air in everyone's living-room; it is merely a case of whether our particular instruments are capable of converting them into audible waves.

B. L. Ahman, Jr., 412 Hillcrest Drive, Greensboro, N. C., noticed that when his city was under two feet of snow (a rare occurrence) he could get stations from Toronto, and other distant points even in mid-afternoon which he had never received before.

## Aerial for Portables

"I travel eleven months of the year through 22 states," writes James Rohe, P. O. Box 215, St. Paul, Minn., "and I carry a radio with me (Table model Lincoln de luxe 31, eleven tube, a. c.). I have tried many aerials but the best is a 100-foot strand of copper wire cut into five lengths. Four of these are braided in pairs then the two pairs are braided together and the single wire is bound on the outside tightly the full length. This gives me 40% more volume."

JOGK, Kumamoto, Japan, advises R. B. Morell, 1654 Wagar Ave., Lake-



*Bobby Tees At the Mike  
Now the tired business man can take his golf  
lesson direct from the world's greatest—The  
Bobby Jones. Wednesdays at eight EST. NBC.*

wood, Ohio, that he is the first Ohioan to report reception of that station.

Meyer Tuchinsky, 3436 Filbert St., Philadelphia, Pa., reports that KGMB, Honolulu, is on the air until 5:30 a.m. EST each Saturday night (or Sunday morning); that KGIR, Butte, Mont., has a Whoopie party each Saturday night from 2:00 to 5:00 a.m. Sunday morning; that KWWG, Brownsville, Texas, has its famous "Coat Hangers Club" on each Wednesday night from 1:00 a.m. on. EST. This gives all listeners a chance to get a genuine Mexican coat hanger.

Jack W. Duke, 110 N. 31st St., Billings, Mont., gets CMK every night except now and then when WSB breaks in. He also gets XED, XFX, XDN and XEW in Mexico.

Cadet J. W. Townsend, Hargrave Military Academy, Chatham, Va., finds that when he tunes WDBJ in in the daytime he can keep them right on into dark but if he turns his set off, they are gone or almost wiped out by heterodyne. Here's a mystery.

Mrs. Edwin T. Morris, 111 Rochelle Ave., Wissahickon, Philadelphia, logged KGU and held them for nearly half an hour. She received her verification from the Honolulu "Advertiser." She has brought in 99 stations under 100 watts.

KFYO, Abilene, Texas, advises Carroll C. Folts, 303 Central Ave., North

Baltimore, Ohio, that they will be on the air with a DX program every Sunday morning from 4 to 6 a.m. CST.

Alan Locklin, Syracuse, N. Y., has an 11-tube Zenith and has brought in KFI and KNX on loud speaker without an aerial of any kind. He has had KMIC at 7:30 a.m., KOB at 2:30 p.m., and gets KOA often at 8 p.m.

#### An Old-Timer

Michael Vitacco, 825 Cleveland Ave., Racine, Wis., says he has been DXing ever since KDKA was the only station in the list. With his Majestic Model 102 he has brought in 323 stations to date. The night he wrote he received 19 from the Pacific Coast.

L. G. Briscoe, 3743 Hutchison St., Montreal, Que., says CKPC will broadcast a DX program every Friday starting January 2nd at midnight with 100 watts power.

Margaret Lynn Hamilton, Coopersville, Mich., has received 201 stations on her Model 55 Atwater Kent with 25 feet

## DX Listeners

Why have your verification questioned?

### USE LOVE'S Standard Verification Cards

Designed by a DX fan with the one idea of making it easy to secure lots of iron-clad verifications. Love's Standard Verification Cards are easiest for the DX listener, because—He has only to fill in blank spaces on cards, sign, and mail to broadcast station. Easiest on Broadcaster, because—He has only to check DX report with his own records, sign on back of card, and return to sender. (This means prompt station response.) Completed verification contains, on one card, 3½ x 6¾ inches, full program log including exact time when heard and is OKed and signed on back by proper authority at broadcast station, making an *ideal verification*. Cards are arranged to be filed alphabetically by call letters.

#### Special Introductory Offer

Send one dollar, P. O. money order, check or currency, for 50 (double) cards, mailed postpaid anywhere in the U. S., Canada, or Mexico, or 100 (double) cards, \$2.00 postpaid; 300 (double) cards, \$5.00 postpaid. Special prices in quantities to DX clubs.

Address—

**PAUL LOVE**  
Mission Ranch Phoenix, Arizona

of wire in the room for an aerial and no ground. Among them was a fifty-watter from Arkansas. She finds it next to impossible to bring in Detroit in her own vicinity, but has no trouble getting a number of Mexican stations.

Harold C. Rokey, 50 Trinity Street, Stratford, Ont., tells DXers to be on the lookout for 10AK of that city, a 10-watter on 1200 kcs. which is an amateur broadcasting station.

#### Some Targets

Richard S. Croker, Terminal Island, Calif., advises eastern DXers to listen for KFOX, Long Beach, Calif., which is on the air constantly except between 3 and 5 a.m., PST. He says KGFJ has not signed off for several years except possibly when a tube burns out, and that KJBS is broadcasting daily from midnight to sunset. Mr. Croker has just received verification from 2BL, Sydney, and has them from 5CL, Adelaide, and 2YA, New Zealand.

"I operate an 8-tube Eveready Electric set," writes Herbert H. Seidler, 155 Hicks Street, Brooklyn, N. Y., "and since January 21, 1930, I have logged 168 stations. My furthest catch is KFI. I am near three subway systems and surrounded by large hotels with power plants and not far from the sending station of the Brooklyn navy yard. Such stations as WTAM, WHAS and KMOX, I get with only five feet of wire as antenna. I use no ground as I found it cut down my volume about fifty per cent." Warning: The instruction book that accompanies some sets says: "Never operate this receiver without connecting it to a water-pipe, radiator or other good ground."

#### Some DX Records

From Don R. Catlin, Locke, Calif.: "My best catch is KFIU, Juneau, Alaska, on ten watts. Am now awaiting verifications from JOIK, JOBK, JOAK, JOHK, JOCK and COMK, Mukden, China. Have verifications from seven Mexicans, thirty-two Canadians, one New Zealand, one South African and one English. Total log of 327 stations since September first. Am sixty airline miles east of KGO on 790 keys, yet on 780 KTM comes in without a trace of distortion or interference and on 800

WFAA and WBAP roll in like locals." Mr. Catlin uses a Majestic.

Frank Maida, R. F. D. 1, Long Branch, N. J., states that with their Victor radio he has so far received 181 stations with only one on the Pacific coast. Frank is 14 years old and does his DX Friday and Saturday nights so it will not interfere with his school work. He wants to know what are the best nights to try for the Pacific coast and Mexico. We doubt if there are any "best nights" other than those on which reception is unusually good.

From Robt. W. Jameson, Rock House, Pulaski, Va. "I am another of those fellows that like to see how many stations they can log in one night and the farther away they are the better pleased I am. This isn't supposed to be a 'believe it or not' but twice last winter I logged station 2BD, Havana, with only five watts power and listened to it for quite a while, getting the call letters several times."

Kenneth J. Hartwick, 1138 Prospect Ave., S. W., Canton, Ohio, in one week and one day received 134 stations from 34 states, Canada, Cuba and Mexico, on his new midget Philco. He would like to receive letters from other DXers, particularly those who are receiving foreign stations.

"Although I am only 14 I am a real fan and an ardent DXer," writes Richard Douglas, 1130 Krug Park Place, St. Joseph, Mo. "We have a Victor electrola 10-tube set and it is really swell. I started DXing in June of this year and I have received 128 U. S. stations and four Mexican."

From Wm. D. Clark, Jr., 1119 Lake St., Evanston, Ill., 14 years old: "I have logged 138 stations since the reallocation two years ago. 38 of these were within 100-mile radius which I term locals, 95 were from other parts of the U. S. and five from Canada."

From Robt. Nicholas, 601 Eastman Row Ave., Kirkwood, Mo.: "I am 14 years of age and enjoy radio very much. We have a new General Motors set. During three summer months I logged 125 stations, I live about two miles from KWK and about five miles from KMOX,

*(Continued on page 23)*



# EXPERIMENTS with Aerial and Ground

Many try the  
Grounded Aerial

THE story of Dr. Brokaw's experiments with a grounded aerial in the January issue stirs a number of readers to write us regarding their own experiments with aerial and ground.

Following the article in our last issue, a number of our readers have been experimenting with ground waves. Dr. W. F. Brokaw, 2301 Chatfield Drive, Cleveland, Ohio, has been carrying his experiments further. It will be recalled that Dr. Brokaw erected short 10-foot aerials in different directions, merely attaching with wire to low iron posts driven into the ground. There were no insulators between wire and posts. He now writes, "My easterly aerial has been extended to 110 feet, being attached directly to an iron pipe driven three feet into the ground and left just enough above the surface to attach the wire which trails along the ground to the house. The westerly lead has been extended to 60 feet in the same way—the southerly lead being left at ten feet. The terminal of the new easterly lead is about forty feet from the mast of the high aerial so there is little probability of any counterpoise effect. These extensions made a radical difference in signal strength and stations came in readily which I never heard before.

"With clear weather and high barometer, the reception during the daylight hours from my regular, high, 110-foot aerial is considerably stronger than from any of the grounded leads. Between 6 and 7:30 in the evening, this begins to change and thereafter the quality of reception from the grounded leads improves in strength and character and should please the most exacting. The quality of the signal on grounded leads is much more full and rounded out than on the high aerial.

"This is not an argument against aerials of the usual type but does show certain advantages in favor of a low, grounded antenna such as freedom from

lightning hazard high-tension wires or unfavorable weather and ease and economy of construction. As I am writing this (11:30 p.m.) KFI is coming in with good volume."

"After reading Dr. Brokaw's article," writes Walter Baldwin, 98 Victoria Ave., North Hamilton, Ont., "I tried a little experiment myself. I took the aerial off altogether and put the ground wire on the aerial post and found I could get KFI, Los Angeles, better than I could with the outside aerial and ground. I have an Atwater Kent Model F."

Other readers have tried this same experiment with varying results. Mrs. N. N., 285 Creighton St., Ottawa, Ont., states that when she uses her ground on the ground post she gets scarcely any reception whatever, but when she moves the ground wire to the aerial post she gets excellent reception.

A. R. Wiggin, 1231 South St., Key West, Fla., has found that by connecting the ground wire to the short antenna post on his Majestic 71, his volume is greatly amplified and selectivity improved. A. L. Robb, Topeka, Kansas, tried Dr. Brokaw's arrangement. He did not have room to run a grounded aerial in different directions, and so substituted an outside ground in place of the regular



Gene and Glenn and Jake and Lena  
This famous quartette composed of—l. t. r.—  
Gene Carroll and Glenn Rowell, now graduate  
from the sticks of Cleveland to the "big time"  
of NBC.

antenna and used the water pipe for the ground. The volume was cut down on many stations but selectivity was increased. Some stations showed no change and on a few there was an increase in volume. WLW, which fades badly on the regular antenna and is often distorted, comes in loud, clear and steady on the grounded aerial and can be received at almost any time of day as well.

In one experiment, removing the ground and leaving the aerial in place brought the following surprising results. Stations above 1400 keys came in with greatly increased volume; stations in the center of the dial were not affected one way or the other, while stations below 1000 keys, came in with reduced volume. In this case a switch was placed in the ground wire so that the ground can be cut out when it is desired to bring in stations on the higher frequencies.

#### An Aerial Fence

Theodore B. Hubbell, 330 Lafayette Ave., Lexington, Ky., relates the results of experiments he has been making for the past six or eight months with his eight-tube Model 40 Steinitz. He writes: "I erected in my yard a 30-foot piece of ornamental wire fence, two feet high, running in a north-westerly direction. The bottom of the fence is imbedded in the ground for its entire length to a depth of two inches, being held upright by five pieces of half-inch iron pipe driven into the ground 18 inches. The lead-in wire is also underground for a distance of about nine feet thence through the cellar to the set. Connection is made to the short aerial binding post.

"The prime consideration in erecting this grounded aerial was to eliminate static in warm weather. It very effectually carries off much of the interference, permitting reception when my 75-foot high aerial made reception impossible. Recently when endeavoring to tune in CMCQ, Havana, the heterodyne being most annoying, I switched to the grounded aerial. Imagine my surprise when the station came in clearly and with plenty of volume. I then tuned in station CMX and it came in so clearly I could not believe my ears. I held the station until it had announced three

times. I then switched to the 75-foot aerial to compare reception. There was no comparison for I could not get the station at all. But on switching back to the grounded aerial reception was again perfect.

"A peculiarity I found in the use of the grounded aerial was that nearby stations like WHAS and WLW come in with lessened volume, but distant stations with increased volume. I have verifications from KFI, XEW and CMK, all received on the grounded aerial."

#### Salt Helps Reception

V. H., of Spokane, Wash., buried an old galvanized hot-water tank in a post hole which he dug to fit it. He dropped the tank in the hole with the concave end up, in which he put a six-inch nipple which came just level with the top of the ground. Into the tank he put four pounds of salt and filled it with water. This leaks out through the holes in the bottom of the tank. He used a good aerial and states that he now gets real DX.

Readers have mailed us two newspaper clippings of extraordinary reception records. Each of these emphasizes the necessity for a good ground. According to one clipping, Ollie Ross, Vallejo, Calif., has logged 1308 stations, including a 50-watt station in South America. He has heard clearly stations on all five continents and listened to programs from every state in the Union. He states that the most satisfactory ground he has found is copper tubing about an inch in diameter and 3 feet 10 inches long. The tubing is wrapped spirally with No. 20 copper wire from one end to the other end and back again, the laps being an eighth inch apart. The wire is soldered to the tubing at each end but is uninsulated, although the lead from the ground to the receiver is heavily insulated and as direct as possible. This tubing is buried in rock salt which draws dampness from the ground in dry season. Ross thinks that water pipes make poor grounds because they are used for grounding telephones and, aside from this, he says, have a tendency to collect rather than draw off disturbances.

The other clipping concerns Merle  
(Continued on page 24)

# The "Unexpectuoso" of the Columbia



*Virginia Arnold*

**I**F a speaker runs out of words, if an artist arrives in the studio a few minutes late, if a musical "station-break" is necessary, in fact, if anything causes a hiatus on the air, there is someone at WABC who can immediately step in and fill the breach with the necessary number of musical bars in the correct pitch. That person is young Virginia Arnold, pianist "unexpectuoso" of the Columbia Broadcasting System.

Here are presented some of the happenings in Virginia's life. She was born in Lawrence, Kans., on August 15, 1906. She started piano lessons at the age of five. She loved to learn, and most of all, when no one was looking, to sit at the piano and play simple pieces by ear.

After three months of instruction she gave her first public performance at a school function. She played the easy pieces she had been taught, but more difficult music she improvised from memory.

Later, at the University of Kansas, she continued her musical studies, toured with the university glee club and was piano soloist and accompanist for the college voice teachers. She played jazz without having seen the sheet music and many of the classics in the same manner.

At college Virginia started radio work.

She participated in a radio program presented by the university glee club in Lawrence. Later she was appointed program director of the station. In 1928 she came on to New York to further her radio work and joined the Columbia artist staff on August 1, 1929.

Her ability to ascertain perfect pitch made her broadcasting work a specialized job. There are few pianists in radio who can pick up the threads of a melody from an orchestra without making apparent a break of any kind, but this Virginia does continually—so perfectly, in fact, that once after an orchestral recital broadcast from the Biltmore Hotel, New York, the engineers in the studios thought that the switch-over had failed because they still heard the same melody in the same tone and tempo.

That is why Virginia Arnold is always quietly slipping in and out of studios, standing unostentatiously in a corner while a speaker, with one eye on the clock and the other on his manuscript, inwardly prays he will be able to fill his allotted time—a prayer which would be unnecessary, if he realized Miss Arnold is waiting like a good Samaritan to save him from eternal embarrassment by finishing his performance with a musical flourish.

## Ground Sometimes Vital

Some manufacturers, the Philco for instance, state in the instruction book which accompanies their sets that the receiver must not be operated without a ground. Experimenters should keep this in mind. Most manufacturers take into consideration when designing their sets that the ground may be broken without the owner's knowledge and therefore wire the set so that no serious injury would result if it were used without a ground connection. But as stated above, there are some receivers in which the condensers in the power unit may be blown if operated more than a short time without a ground connection.

# RADIO Comes in MANTEL SETS

New Models  
of 1931

THE Evolution of the Radio Set" might well be the title of this article. Do you remember the prehistoric sets of 1924? They came in square boxes without any attempt at beautification. The panel of plain bakelite was covered with dials and knobs and gadgets. Then some manufacturers gave us a box with a sloping front so we would not have to get down on our knees to read the dial numbers. Another added four legs to the box so we could use the dining-room table for other purposes.

Came then the Henry the 8th period with the sets becoming huge articles of furniture slightly smaller than a four-poster bedstead. After that began to appear sets which were really beautiful, but they still remained rather massive, especially for the small homes and apartments.

The first speakers had long, high horns, a throw-back to the early phonograph. Then the cones appeared and some manufacturers began to build their speakers into the sets. Followed the magnetic and then the dynamic speaker. Now, instead of building the speaker into the set they are putting the set in the speaker. Practically every manufacturer is now building at least one "midget" type of set which is but little larger than the speaker itself. The "inwards" of the set have been tucked away most ingeniously so that one may have a mantel-type set with the full quota of tubes and condensers and things.

In this and subsequent articles we are illustrating and describing some of the sets which will be found at the dealer's today. The claims made for the various sets are those of the manufacturers themselves as this magazine has had no opportunity of testing the sets described.

The "Little Symphony" made by The Sterling Manufacturing Co., 2831 Prospect Avenue, Cleveland, Ohio, is eighteen inches high and fourteen inches wide. It is a five-tube r.f. set employing three

screen-grid tubes with power detection. It is said to compare favorably with the best standard receivers in selectivity, sensitivity and volume. It uses the standard dynamic speaker and power supply is incorporated in the chassis. Cabinet is of walnut, the panel being a beautiful burl. The maker claims that



*Sterling*

bass notes are clear and distinct even at lowest volume and, when control is turned up, both high frequency and low frequency tones are amplified in perfect balance. The set lists at \$69.50 complete with tubes.

We are showing two sets manufactured by the Premier Electric Co., Grace and Ravenswood Avenues, Chicago, Ill., the "Home-Pal" Midget and the "Auto-Pal" receiver. The "Home-Pal" is of walnut, fifteen by eighteen inches, with a beautiful bronze tuning escutcheon. Tone quality, even at immense volume, is said to be an outstanding feature. Selectivity is remarkably sharp and even stations close together are claimed to be easily separated without over-lapping. "A minimum range of 1000 miles, under favorable weather conditions, is absolutely guaranteed." The set operates without antenna or ground on local



*Home-Pal*

stations. Two controls are used, one a quick-acting, fully illuminated, hair-line tuner and the other a combination switch and volume control. There are six tubes, three of them screen-grid. The set lists at \$69.50 with tubes.

The "Auto-Pal" is designed for perfect automobile radio reception and is said to have been tested a full year in cities and on highways, before it was offered to the public. It fits under the dash and no cutting or disfiguring of the car is necessary. In size the set is only eight by ten inches, six inches deep. An illuminated dial and single-control switch make tuning easy. The drum has micrometer drive and positive lock and "stays put." There are four tubes, three of which are screen-grid. The set is claimed to have the



*Auto-Pal*

sensitivity and power of an ordinary five or six-tube set with only half the A and B battery consumption. This set lists at \$65.00 complete with aerial, tubes and batteries.

The Gloriton Radio, manufactured by the United States Radio & Television Corp., Marion, Ind., stresses its oval shape top, satin-gloss walnut finish, fully-shielded chassis, triple screen-grid and maximum fidelity of reproduction, great sensitivity and sharp tuning. It weighs 22 pounds and lists at \$49.95 complete with five tubes.



*Gloritone*

While most manufacturers of midget sets stress the small size of their instruments, the Mozart Radio Co., 109 W. Washington Blvd., Los Angeles, Calif., believes that this may well be carried to an extreme. The Mozart set is somewhat larger than other sets of this type although it still falls within the category of Midget receivers. Says this manufacturer: "American engineers are ingenious. But they are not magicians! They cannot seat a symphony orchestra on a card table—nor can they put *all* that a radio should have into a cigar box. The radios that are too small are small because they are not complete. They are a compromise. The Mozart is compact—and it is complete."

This set, a picture of which will be found on page 24, has four tuned circuits using seven tubes, four of which are screen grid, with screen grid power detection and push-pull audio amplifica-

*(Continued on page 24)*

## Symptoms of Sick Sets

(Continued from page 7)

*This set is very broad in tuning and I am using a 75-foot aerial, with a 25-foot lead-in. Do you think that greater selectivity can be obtained by using a wave trap?*

By reducing the length of the aerial on your set to one-half of its present length you will be able to get greater selectivity. The lead-in is really part of the aerial and makes its effective length in your case 100 feet. The insertion of a small fixed condenser of about .00025-mfd. capacity, between the lead-in and the aerial binding post of your receiver will also sharpen the tuning. With these simple changes it may not even be necessary to use a wave trap.

### Making a Milliammeter

*I have a seven-volt d. c. voltmeter and I would like to change it to a 0 to 100-milliammeter, if this can be done. Please tell me the parts and what capacities to use to make such a change.*

Without the use of a Wheatstone bridge for measuring internal resistance of meters, it is not advisable for the average radio fan to attempt changing a voltmeter to a milliammeter, and it is better and cheaper to buy another meter of the kind desired.

### Oscillation Troubles

*I have a five-tube Hammarlund-Roberts HQ receiver including three 201A's, one 200A and one 112A, which are all new. I am using a new Knight B-eliminator and an Abox A unit. The set frequently breaks into oscillation, which sometimes stops when I reduce or increase the detector plate voltage. I have adjusted the neutralizing condensers but this did not stop the trouble. All the transformers and condensers have been tested and I have cleaned most of the parts. Everything tests O. K. but the trouble still persists. Can you suggest what to do in this case?*

Cut down the r. f. and detector plate voltages and see if the noise stops when the detector tube is grasped, which indicates a microphonic. If this is the case, place a "howl arrestor" on the detector. Also test the by-pass condensers for leaks as well as short circuits, which can be determined by their capacity to hold a charge after being

disconnected from the receiver circuit. Also be sure that the trimming and neutralizing condensers are properly adjusted, which has been covered completely in our No. 39 issue of RADEX under the heading "Balancing T. R. F. Receivers." An A-eliminator that does not produce enough current for the tubes is also apt to cause a set to break into oscillation. Substitute a fully-charged storage battery for the Abox A unit, and see whether the set still oscillates. If not, the trouble is due to the A-eliminator.

*My set starts oscillating above 900 kc. It is a five-tube Pearson t. r. f. set and current is supplied by an A-eliminator and two 45-volt B-batteries. I am using a 200A tube for a detector, while the rest of the tubes are 201A's. When I turn the a. f. tubes up the others become dimmer and when I turn the r. f. tubes up the a. f. tubes act the same way. Is this supposed to do so?*

Many t. r. f. receivers have a tendency to oscillate when the plate voltate on the detector and r. f. stages is excessive. Reduce this voltage and the oscillation will undoubtedly cease. Another cause of the same trouble might be traced to the A-eliminator, indicated by the fact that some of the tubes become dimmer when others are turned up and vice versa, although this symptom is not always an indication of a deficient A-eliminator. If more current is required than the eliminator will produce, without being overloaded, the voltage drops off, and then the plate and filament voltages are out of proportion in the same way that they are when the plate voltage is too high for a normal filament voltage. For best results no eliminator should be taxed to the limit. Your tubes require 1.5 amperes of current and the A-eliminator should be capable of supplying 2 amperes. Take it to a competent radio man and have the output current checked with an ammeter.

### Using Aerial with Loop

*I have a Radiola No. 23 in combination with a Victor Electrola, which was put on the market about six years ago. The phonograph uses the amplifying unit of the radio, which has two 281 tubes, replacing 216B tubes. The machine is completely self-*

contained, there being only one outside connection, the wire for the current. I was wondering if the inside loop, containing approximately 50 feet of wire, could be replaced with a longer outside aerial, or some additional wire added to the loop, in order to get more distance and more volume.

A loop-operated receiver can be converted to one using an outside aerial, provided a r. f. coil covering the broadcast waveband, and a suitable .0005 or .00035-mfd. variable condenser (one to match the coil), is substituted for the present loop. The aerial and ground leads are connected to the ends of the primary winding of the coil, while the ends of the secondary run to the grid terminal on the first tube and to the A-neg. line. The condenser is shunted across the secondary of the coil with the stator connection on the grid side. Of course, such a change requires some alteration in the wiring, which can be done best by a reliable radio service man. In "Radio Trouble Shooting," a book which we can furnish, you will find several pages devoted to the subject of loops and the changes necessary to make them operate on an outside aerial. One of the simplest methods of transferring the energy picked up by an outside aerial is to wind four or five turns of the lead-in around the loop and connect the end to the ground.

#### Magnetic or Dynamic Speaker

*My set is located about two miles from high-power electric lines, about the same distance from the nearest radio set, and about 65 miles from the nearest broadcasting station. The set uses an R. C. A. type 100 magnetic speaker and I wonder if it could be replaced with a dynamic speaker. If so how should it be hooked up? I would like to get enough volume to enable the radio to be used in a small dance hall.*

To increase the volume and to be able to use a dynamic speaker for dance-hall purposes, it is necessary to use a power amplifier and a separate power unit to furnish the amplifier and also the dynamic speaker with greater voltage than is now obtainable from your present power unit. Such a power amplifier is hooked up immediately after the detector

stage, and the present audio end of the set is disconnected entirely. In this case it might also be advisable to employ the services of a radio expert. Power amplifiers for the purpose can be obtained from the Samson Electric Co., 3201 South Michigan Avenue, Chicago, Ill.

#### A Second Speaker

*I have a No. 39A Zenith and want to use another speaker in the rear of my house. The speaker that I have is a Western Electric No. 540 AW. Can I put this in series or in parallel with the speaker of receiver, which is a dynamic? Is it necessary to use an output transformer to protect the magnetic speaker? Also, can I use a 250-type tube instead of the present 210 in my set?*

You can substitute a 250 tube for the 210 used at the present provided you supply the correct plate and grid voltages. By merely substituting the 250 for the present tube, you cannot expect better results unless the above voltages are also changed. To protect magnetic speakers when used on a set having a high voltage on the power tube, it is advisable to use an output transformer or choke. Speakers can be connected either in series or in parallel. The latter method is best in most cases as each speaker works independently of the other.

And here's one from still another corner of the globe:

"Enclosed please find money order value four shillings, two pence, for which please send me five copies of RADEX. I am a very keen short-wave fan and it gives me very great pleasure listening in to stations such as W2XAF, KDKA, W3XAL, etc.

"A friend of mine who lives at Detroit, Michigan, came over to my radio den to listen in to Schenectady and he was astounded to hear WGY so well. When he returned to the States he sent me a copy of RADEX and I can assure you that it is the real goods. I sincerely trust you will send same in good time as you know it takes about three weeks to get here. Thanking you in anticipation, Yours faithfully, Mike Kruger, Queens-town, Cape Province, South Africa."

## Cuba and Mexico

*(Continued from page 9)*

have it listed at 1360. I can't help feeling that as we are so much nearer Santiago we are probably correct. CMKC is a good station. I have just heard of a new station in Santiago, CMKD on 1100 keys., but I haven't been able to bring it in yet. I want you to know how much we like the radio map. It is a great idea."

P. J. Soper, 256 Burroughs Terrace, Union, N. J., sends us a letter from F. A. Lavin, owner of CMX, Havana, in which he states that they are switching from 900 to 910 keys. to reduce interference.

"Shortly after 11 p.m. December 28th I heard a station announcing as CMCA, Havana, Cuba. It was just above WFBM on 1230," writes A. L. Robb, 1338 Mulvain St., Topeka, Kansas. This station will be found listed in this issue on 1225 keys. Mr. Robb has also heard a Mexican station near 1150 keys. whose call letters sounded like XEAR.

Our readers have so many complaints to make regarding broadcasting stations that they should be interested in the following criticisms of DXers by a broadcaster. Faoul Karman, of Casa Karman, owner of station CMCF, Havana, writes us as follows:

"We are always anxious to receive reports on reception, but I must say that American reports are very unreliable and not 20% will tell concisely the hour and even less the frequency of the station heard. Most of them give the impression of being merely a stamp collector."

Undoubtedly many DXers who complain that they do not hear from stations promptly are themselves to blame, in that they fail to give the complete data that will enable the station quickly and definitely to verify reception.

## Our Readers Want to Know

*(Continued from page 11)*

owned by Grove City college. Will our readers advise us if WHAJ is a new station or merely a change in call?

The following stations failed to apply for renewal of license within the specified time and were technically disqualified

on November 1st: WCOC, Meridian, Miss.; WMAF, So. Dartmouth, Mass., and KZM, Hayward, Calif. Are these stations actually off the air?

Wm. G. Benjamin, No. Muskegon, Mich., states that on January 2nd, between 1 and 2 a.m., he listened for about 20 minutes to a musical program on 1360 keys. No call letters were given, but each time the announcer said "the Rivoli Ball Poom in Balboa" or at least it was so understood by Mr. Benjamin. One other reader reports his belief that he had heard NBA, Palboa. Now comes a letter from Geo. Lilley, 227 W. Bernard St., West Chester, Pa., enclosing a letter from the officer in charge of the United States Naval Communication Service, Balboa, Canal Zone, who states that there are no broadcasting stations in the Republic of Panama or the Canal Zone. Who can solve the mystery of NBA?

### Police and Airports

We are in receipt of a considerable number of letters regarding both Police and Airport radio stations. Once more let us repeat that we do not include such stations in this magazine for the reason that they are neither in the broadcasting band nor are they broadcasting stations in the ordinary sense of that word. These stations all broadcast above 1500 kcys. and neither of them desires an audience except the ones they serve. The police stations invariably broadcast information regarding criminals to policemen cruising the streets in automobiles equipped with short wave receivers. The Airport stations broadcast weather and ground conditions to pilots in the air. Both of these stations are on the air but a few moments at a time, periodically during day and night. The Government publishes no list, so far as we know, indexing them by call letters, frequency or location, and as they are entirely outside of its field, RADEX does not attempt to keep a record of them and we are not in position to furnish information regarding them.

### Unintentional Synchronization

John R. Carter, Erie, Pa., asks for information regarding a station at Raleigh, No. Car. which he received on 570 kcys., the frequency assigned to



WWNC at Asheville, N. C. Mr. Carter states that he experienced an example of perfect synchronization on 600 keys. when he heard the Paramount Publix program on the Columbia System from three stations on that frequency at one time, WMT, Waterloo, Iowa, WREC, Memphis, Tenn., and WCAO, Baltimore.

Read Barton, 1718 Ridge Ave., Corapolis, Pa., asks at what time NAA, Arlington, broadcasts. NAA does no broadcasting, we believe, in the usual sense but sends out its time signals at noon, and again at 10 p.m. These are picked up and rebroadcast by various stations throughout the country.

In answer to Victor J. Balt's inquiry regarding WEHS, D. E. Cosgrove, Hotel Strand, Chicago, states that WEHS is on the air at 4 p.m. every day for one-half or one hour with a program of records, and Harold Yehling, 534 W. 60th Place, Chicago, advises us their studios are in the Soko-Slofsky Bldg., Cicero. Mr. Yehling asks why WJAZ comes in on his set very poorly, while WCKY, with the same power, comes in fine. The cause is probably purely one of location.

The same situation is found in almost every city. One location being shielded from a certain broadcasting station by steel buildings. Mr. Cosgrove and others ask where they can secure a copy of the RADEX map in their city. No arrangements have as yet been made to distribute these maps through newsdealers generally. In the meantime, they may be procured only by ordering direct from RADEX.

## Stalking Stations

*(Continued from page 14)*

as the St. Louis stations have their transmitting towers in this vicinity."

From W. F. Byrne, 7316 Hurst St., New Orleans, La.: "I have an Echo-phone baby radio with three screen-grid tubes, one 245 and one 280. Have had it only about 40 days and have neglected to put up an aerial or ground. Operating on an indoor aerial of about 25 feet and no ground I have logged 92 stations."

From Clarence Fleagle, R. F. D. 1, Abilene, Kansas: "I have never had any

extreme DX with my set, although I have heard WKAQ, Porto Rico, and AQM, San Salvador. On my short wave set I have had the Netherlands, England, Australia, Colombia, S. A., Honduras, and three stations in Canada.

"Using a Hammerlund-Roberts HIQ 30 with screen grid RF and detector, in a poor location, in the past five weeks we have landed 176 stations in 34 states, Mexico and Cuba, Quebec and Nova Scotia," writes George Shombert, Jr., 921 Lilac Street, Pittsburgh, Pa.

"I have succeeded in logging 145 stations in 13 days," writes Charles Fowlie, 101 17th Street, West New York, N. J. "Can you tell me what time of day KOB, New Mexico, changes time with KEX?"

From D. Gadoury, 2215 Hood Street, Montreal, Que.: "In a factory ward right in the heart of Montreal, I have heard 161 stations, four of them in California, two in Mexico and one in Cuba."

"Out of seven stations in Japan using 10,000 watts I have listened to five, all between 2 and 3 a.m., PST.," writes L. C. Cummins, 3463 8th Avenue, Vancouver, B. C. "My model 52 Majestic is proving even better than I expected."

From Marion L. Watson, R. F. D. 9, Wabash, Ind.: "With my Crosley screen-grid 6-tube battery set I logged last night 67 stations on 58 wavelengths. I have now received stations on all frequencies except 910."

From Harry Durand, 216 No. Main



*Julia Sanderson and Frank Crumit have added to their stage fame by their year in radio. With the CBS Blackstone program.*

Street, Wheaton, Ill.: "Radio is my favorite pastime. In two nights this week I have received eight 100-watt, one 50-watt, one 30-watt, and one Mexican, all of them new to me. I am 16 years old and to date I have logged 253 stations."

From Jimmy Ninoda, 8622 Selkirk Street, Vancouver, B. C.: "I am an ardent radio fan, having received 129 stations, including six from Japan and two from Mexico, on a 9-tube Dictator set."

"I have an 8-tube all-electric Majestic radio. In nine months I have logged 334 stations, including 19 in Canada, 6 in Cuba and 2 in Mexico," says Floyd Moyer, 124 Brown Street, Reynolds-ville, Pa.

"I think I have made a little record in low-power catches myself," states Dolphus Whitten, Jr., Gurdon, Ark. "My best are WEBR, Buffalo, and KGFJ, Los Angeles, both on crowded frequencies and using only 100 watts."

From Walter Wasana, 8256 Marion Street, Detroit, Mich.: "I am using a 3-tube receiver and in five days I have picked up 51 new stations, including KNX and CMC."

From Ralph Caldwell, R. F. D. 1, Clarksville, Pa.: "I have had a radio for almost four years and in that time I have received 447 stations from coast to coast."

T. J. Johnson, 523 West Russell Ave., Seminole, Okla., reports receiving WHC Emory, Va., and CKWX, Vancouver, B. C., hundred-watters.

"My young lad, a radio fan and quite a DXer, picked up 80 stations in five hours one evening," writes Frank E. Simpson, 77 Pleasant Ave., Montclair, N. J.

## Aerial and Ground

*(Continued from page 16)*

Estes, Spokane, Wash., who tuned in six Japanese stations in one night. Mr. Estes is using an 85-foot aerial and the ground attached to a sheet of copper and a Ford radiator buried four feet deep. In summer he keeps the ground well watered. Here is a good use for old Fords.

## The U. S. Standard Ground

We have had a number of requests to repeat the instructions for making what the United States Bureau of Standards calls a good ground. Here they are: Dig a hole in the ground one foot deep and one foot square away from all buried pipes; place in that hole five pounds of rock salt; turn a hose on it until it dissolves; drive an eight-foot rod or half-inch pipe through the center of the hole. In sections where there is little natural moisture in the earth use four of these grounds six feet apart and all connected together.

## Radio in Mantel Sets

*(Continued from page 19)*

tion. The chassis is synchronized with the Magnavox Dynamic Speaker. A tone selector which enables the user to choose



*The Mozart*

the tone which pleases his ear, is said to reduce static to a minimum. Cabinet is walnut veneer in two tones. Drum tuning dial is illuminated. The set incorporates a phonograph pick-up jack, also a local-distance switch to eliminate "detuning" when using long aerial.

The Mozart lists at \$69.50 complete with tubes.

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**Neutralizing the Neutrodyne and Troubles in Aerial and Ground will appear in the March RADEX.**

# THIS MONTH'S CHANGES

## New Stations:

CMCO 660 keys.—Buen Retiro, Cuba.  
 CMBS 790—Havana, Cuba.  
 XFBZ 859—Mexico City, Mexico.  
 CMBD 995—Havana, Cuba.  
 CMBW 1010—Marianas, Cuba.  
 CMBT 1070—Havana, Cuba.  
 CMCB 1070—Havana, Cuba.  
 CMKD 1100—Santiago, Cuba.  
 CMCA 1225—Havana, Cuba.  
 CMKX 1240—Holguin, Cuba.  
 CMCH 1285—Havana, Cuba.  
 CMJC 1350—Camaguey, Cuba.  
 ——— 1310—Marquette, Mich.

## Power

XFE	630—Villahermos, Mex.	250 to 350
CMK	730—Havana, Cuba	1000 to 2000
XEU	800—Veracruz, Mex.	101 to 50
XET	890—Monterrey, Mex.	500 to 1500
CMX	910—Havana, Cuba	250 to 1000
XETA	1100—Mexico City, Mex.	500 to 1000

## Frequencies

✓XETF	Veracruz, Mexico	1210 to 680
XEN	Mexico City, Mexico	720 to 732
XEG	Mexico City, Mexico	970 to 829
CMX	Havana, Cuba	900 to 910
XER	Mexico City, Mexico	1071 to 984
XEB	Mexico City, Mexico	1091 to 1030
CMKC	Santiago, Cuba	1360 to 1045
XEX	Mexico City, Mexico	1300 to 1190

## Deletions

CMJ 770 keys.—Havana, Cuba.  
 WBBL 1210 keys.—Richmond, Va.

WGMS 1250 keys.—St. Paul, Minn.  
 CMCE 1285 keys.—Havana, Cuba.  
 WMAF 1410 keys.—S. Dartmouth, Mass.

## Call

TIX 750 keys.—San Jose, C. R., to TIC  
 KMCS 1120 keys.—Inglewood, Cal., to KMIC  
 CMHA 1150 keys.—Cienfuegos, Cuba, to CMHJ  
 WSGH 1400 keys.—Brooklyn, N. Y., to WFOX

## Locations

WBSO 920 keys.—Wellesley Hills, to Needham, Mass.  
 CHWC 960 keys.—Pilot Butte to Regina, Sask.

## Owners

KPCB 650 keys.—Seattle, Wash., to Queen City Broadcasting Co.  
 WPAP 1010 keys.—New York City, to Palisades Amusement Park.  
 KGDY 1200 keys.—Huron, S. D., to Voice of South Dakota.  
 KGFV 1310 keys.—Ravenna, Nebr., to Central Nebraska Broadcasting Corp.  
 KFPW 1340 keys.—Fort Smith, Ark., to Southwestern Hotels Co.  
 WOKO 1440 keys.—Poughkeepsie, N. Y., to WOKO, Inc.  
 WTNT 1470 keys.—Nashville, Tenn., to Life & Casualty Insurance Co.  
 KUT 1500 keys.—Austin, Texas, to Driskill Hotel.  
 WDIX 1500 keys.—Tupelo, Miss., to North Mississippi Broadcasting Corp.

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# BROADCASTING RELAY STATIONS

## A List of the Short Wave Transmitters

Location of Transmitter	Call Signal	Frequency in Kilocycles (Meters in Parenthesis)	Power (Watts in Antenna)	Licensee and Address
California				
Sacramento .....	W6XAF	2,938 (112.1), 5,870 (51.11)	500	State Dept. of Agriculture (Calif.)
Westminster (Near) ...	W6XAL	6,080 (49.34), 15,250 (19.672), 21,500 (13.953)	15,000	Pacific-Western Bdct. Federation
Colorado				
Denver .....	W9XA	830 (361)	12,500	General Electric Co.
Illinois				
Addison .....	W9XAQ	6,040 (49.67)	1,000	Chicago Daily News
Chicago .....	W9XAA	6,080 (49.34), 11,840 (25.34), 17,780 (16.873)	500	Chicago Fed. of Labor
Downers Grove .....	W9XF	6,020 (49.83), 11,800 (25.42), 21,500 (13.953)	5,000	Gt. Lakes Radio Bdct. Co., 72 W. Adams St., Chicago, Ill.
Iowa				
Council Bluffs .....	W9XU	6,060 (49.5)	500	Mona Motor Oil Co.
Massachusetts				
East Springfield .....	W1XAZ	9,570 (31.35), 2,398 (125.1)	10,000	West'g'e Elec & Mfg. Co.
New Jersey				
Bound Brook .....	W3XAL	6,100 (49.18)	20,000	Nat'l Broadcasting Co
Coytesville .....	W2XAL	6,040 (49.67), 11,800 (25.42), 15,250 (19.672), 21,460 (13.979)	500	Aviation Radio Sta.
Kearny .....	W2XCX	6,080 (49.34)	500	L. Bamberger & Co.
New York				
Bellmore .....	W2XZ	610 (491.5)	50,000	Nat'l Broadcasting Co.
Cross Hassock Bay .....	W2XE	11,840 (25.34), 15,280 (19.634)	20,000	Atlantic Bdct. Corp.
New York (Portable) ...	W2XBR	6,020 (49.83)	1,000	Baruchrome Corp.
	W2XDA	1,544 (194.30)	50	Atlantic Bdct. Co.
South Schenectady ...	W2XAD	15,340 (19.557)	25,000	Gen. Electric Co.
South Schenectady ...	W2XAF	9,530 (31.48)	40,000	Gen. Electric Co.
South Schenectady ...	W2XAG	550 (545), 660 (455), 790 (380), 1,150 (260.9), 1,500 (200)	200,000	Gen. Electric Co.
Ohio				
Mason .....	W8XAL	6,060 (49.5)	250	Crosley Radio Corp., 1325 Arlington St., Cincinnati, Ohio
Pennsylvania				
East Pittsburgh .....	W8XK	6,140 (48.86), 9,570 (31.35), 11,880 (25.25), 15,210 (19.724), 17,780 (16.873), 21,540 (13.928)	40,000	Westinghouse Elec. & Mfg. Co.
Philadelphia .....	W3XAU	6,060 (49.5), 9,590 (31.28)	500	Universal Brdc. Co., 1940 Market St.
Canada				
Middlechurch, Man. ....	CJRX	11,720 (25.6)	2000	James Richardson & Sons, Ltd.

## THE TELEVISION BAND

The Federal Radio Commission has instituted the new allocations of frequencies for television broadcasters, the outcome of the recommendation of a recent engineering conference called by the Commission. The new reallocations went into effect as follows:

	2,000—2,100 kc.	
W3XK	5,000	Wheaton, Md.
W2XCR	5,000	Jersey City, N. J.
W2XAP	250	Portable
W2XCD	5,000	Passiac, N. J.
W9XOA	500	Chicago, Ill.
W2XBU	100	Beacon, N. Y.
	2,100—2,200 kc.	
W3XAK	5,000	Bound Brook, N. J.
W3XAD	500	Camden, N. J.
W2XBS	5,000	New York, N. Y.
W2XCW	20,000	Schenectady, N. Y.
W8XAV	20,000	East Pittsburgh, Pa.

W9XAP	1,000	Chicago, Ill.
W2XR	500	Long Island City, N. Y.
	2,750—2,850 kc.	
W2XBO	500	Long Island City, N. Y.
W9XAA	1,000	Chicago, Ill.
W9XG	1,500	West Lafayette, Ind.
	2,850—2,950 kc.	
W1XAV	500	Boston, Mass.
W2XR	500	Long Island City, N. Y.
W9XR	5,000	Downers Grove, Ill.

Other proposals of the conference now being considered by the Engineering Division of the Federal Radio Commission, will probably be recommended for approval within a brief period.

This realignment of visual broadcasting stations is expected to aid experiments and to hasten the day when the art will be ready for public entertainment on a commercial scale.

## KEY TO CHAIN STATIONS

CFRB 960 C	KPO 680 N	WBZ-A 990 N	WFLA 620 N	WMAQ 670 C
CKAC 730 C	KPRC 920 N	WCAE 1220 N	WGAR 1450 N	WMC 780 N
CKGW 690 N	KRLD 1040 C	WCAH 1430 C	WGN 720 N	WMT 600 C
KDKA 980 N	KSCJ 1330 C	WCAO 600 C	WGR 550 C	WNAC 1230 C
KDYL 1290 C	KSD 550 N	WCAU 1170 C	WGST 890 C	WNAX 570 C
KECA 1430 N	KSL 1130 N	WCCO 810 C	WGY 790 C	WOAI 1190 N
KFAP 770 N	KSTP 1460 N	WCFL 970 N	WHAM 1150 N	WOC 1000 N
KFH 1300 C	KTAR 620 N	WCKY 1490 N	WHAS 820 N	WORC 1200 C
KFI 640 N	KTHS 1040 N	WCSH 940 N	WHEC 1440 C	WOW 590 N
KFJF 1480 C	KTRH 1120 C	WDAE 1220 C	WHK 1390 C	WOWO 1160 C
KFKX 1020 N	KTSA 1290 C	WDAF 610 N	WHO 1000 N	WPG 1100 C
KFPY 1340 C	KVI 760 C	WDAY 940 C	WHP 1430 C	WPTF 680 N
KFRC 610 C	KVOO 1140 N	WDBJ 930 C	WIBO 560 N	WQAM 560 C
KFSD 600 N	KWK 1350 N	WDBO 1120 C	WIBW 580 C	WRC 950 N
KGO 790 N	KYW 1020 N	WDOD 1280 C	WIOD 1300 N	WREC 600 C
KGW 620 N	WABC 860 C	WDRC 1330 C	WISN 1120 C	WREN 1220 N
KHJ 900 C	WACO 1240 C	WDSU 1250 C	WJAR 890 N	WRR 1280 C
KHQ 590 N	WADC 1320 C	WEAF 660 N	WJAS 1290 C	WRVA 1110 N
KLRA 1390 C	WAIU 640 C	WEAN 780 C	WJAX 900 N	WSAI 1330 N
KLZ 560 C	WAPI 1140 N	WEBC 1290 N	WJDX 1270 N	WSB 740 N
KMBC 950 C	WBAL 1060 N	WEEI 590 N	WJDD 1130 C	WSM 650 N
KMOX 1090 C	WBAP 800 N	WENR 870 N	WJR 750 N	WSMB 1320 N
KOA 830 N	WBBM 770 C	WFAA 800 N	WJZ 760 N	WSPD 1340 C
KOIL 1260 C	WBCM 1410 C	WFAN 610 C	WKBN 570 C	WSUN 620 N
KOIN 940 C	WBEN 900 N	WFBL 1360 C	WKBW 1480 C	WTAG 580 N
KOL 1270 C	WBRC 930 C	WFBM 1230 C	WKRC 550 C	WTAM 1070 N
KOMO 920 N	WBT 1080 C	WFI 560 N	WKY 900 N	WTAQ 1330 C
			WLAC 1470 C	WTAR 780 C
			WLBW 1260 C	WTIC 1060 N
			WLBZ 620 C	WTMJ 620 N
			WLIT 560 N	WTOC 1260 C
			WLS 870 N	WWJ 920 N
			WLW 700 N	WWNC 570 C
			WMAL 630 C	WXYZ 1240 C

# WHAT'S ON THE AIR TONIGHT?

## A WEEKLY CALENDAR

### Leading Features of the Network Program

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

Programs of the National Broadcasting Company begin with WEAF and WJZ; those of the Columbia Broadcasting System with WABC.

*These programs are correct to date but are subject to change daily thereafter*

#### Daily (Except Saturday and Sunday)

**8:00-8:15 Gene and Glenn — Quaker Early Birds**  
 WEAF WJAR WEEI WTAG WCSH WFI  
 WRC WGY WCAE WTAM WWJ WSAI  
 CKGW WRVA WPTF WJAX WIOD WFLA  
 WSUN

**8:15-8:30 Morning Devotions**  
 WEAF WRC WCAE WGY WHAS WOW  
 WFI WCSH WJAR WWJ WPTF WIOD  
 WAPI WFLA WSUN WTAG WGN WJAX  
 WJDX WRVA WBEN WSMB WFI

**8:30-9:00 Cheerio**  
 WEAF WEEI WKY WRC WCSH WWJ  
 WHO WOC WDAF WAPI KPRC WFI  
 WSB WSM WJAX WPTF WTAG WOAI  
 WBEN WRVA CKGW WIOD WHAS WFLA  
 WSUN WTAM WMC WJDX WJAR WGY  
 WOW WCAE WIBO

**9:00-9:15 Something for Everyone**  
 WABC WHEC WPG WCAU WHP WJAS  
 WDBJ WUNC WXYZ WBCM WDDO WREC  
 WLAC WBRC KSCJ WMT KMOX KMBC  
 KOIL KFJF KRFJ KTRH CFRB

**9:02-9:45 Morning Melodies**  
 WEAF WRC WWJ WHAS WTAM WAPI  
 WSM WGN WRVA WBEN KSD WOC  
 WHO WOW WTMJ KSTP WIBC

**9:45-10:00 A. & P. Program**  
 WEAF WJAR WTAG WCSH WRC WGY  
 WCAE WTAM WWJ WOC KSD WHO  
 WDAF WTMJ WIBC WRVA WPTF WIOD  
 WFLA WSUN WHAS WSM WMC WSB  
 WAPI WSMB WJDX KVOO WBAP KPRC  
 WOAI WKY WBEN WOW WFI KSTP  
 WIBO

**11:15-11:30 Radio Household Institute**  
 WEAF WJAR WTAG WCSH WLIT WRC  
 WHAS WSM WSB WCAE WWJ WSAI  
 KFKX WTAM KSD WTMJ KSTP WIBC  
 WAPI WSMB WOAI KTHS KVOO KPRC  
 WKY WEEI WGY WMC WBEN

**12:00-12:30 Paul Tremaine and His Orchestra**  
 WABC WHEC WLBZ WOC WCAU WCAU  
 WHP WJAS WLBW WMAL WCAO WTAR  
 WDBJ WHK WKRC WAIU WUNC WDDO  
 WREC WLAC WBRC KSCJ WMT KMBC  
 WDAY KOIL WIBW KFJF KLZ

**12:30-1:00 Columbia Revue**  
 WABC WLBZ WORC WPG WCAU WHP  
 WJAS WLBW WMAL WCAO WTAR WXYZ  
 WBCM WDDO WREC WLAC WARC KSCJ  
 WMT KMBC WDAY WJBW KFJF KLZ

**12:30-1:30 National Farm and Home Hour**  
 WJZ WHAM WJR KSTP WRVA WHAS  
 WREN WFAA WIBC WIOD WAPI WOW  
 WMC WSB WGAR KVOO WOI WOAI  
 WRC WHO WDAF WJDX WBAL WSMB  
 KWK KOA WBZ WBZA WOC KTHS  
 WFLA WSUN WJAX KFAB KPRC KDKA  
 WLW KFKX WPTF WSM

**1:30-2:00 Ambassador Hotel Orchestra**  
 WABC WHEC WLBZ WFAN WPG WFAN  
 WJAS WLBW WMAL WCAO WTAR WDBJ  
 WKRC WAIU WUNC WXYZ WBCM WDDO  
 WLAC WBRC

**2:30-3:00 American School of the Air**  
 WABC WFBL WKBW WEAN WNAC WCAU  
 WJAS WLBW WMAL WCAO WTAR WDBJ  
 WADC WHK WKRC WUNC WGST WXYZ  
 WSPD WDDO WREC WLAC WBRC WDSU  
 WOWO WFBM WMAQ WCCO KMOX KMBC  
 KOIL KFJF KRLD KTHS KLZ KDYL  
 KVI KOL KRFY KOIN KHJ KFRG

**3:00-3:30 Columbia Salon Orchestra**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WPG WHP WLBW WMAL WCAO WTAR  
 WDBJ WHK WKRC WAIU WUNC WXYZ  
 WBCM WSPD WDDO WREC WLAC WBRC  
 KSCJ WMT KMBC WDAY KOIL WIBW  
 KFJF KRLD KTRH KLZ CFRB

**5:00-5:30 The Lady Next Door**  
 WEAF WRC KSD WTAG WSM WHAS  
 WKY KPRC WTAM

**6:05-6:30 Black and Gold Room Orchestra**  
 WEAF WCAE WCSH WWJ WJAR WBEN

**6:45-7:00 Uncle Abe and David**  
 WEAF WEEI WJAR WCSH WFI WRC  
 WTMJ WSM WIBC WCAE WGY WTAG  
 WTAM WWJ WSAI KSD WOC WHO  
 WOW WDAF WSB WAPI WSMB WJDX  
 WENR WHAS

**6:45-7:00 Literary Digest Topics**  
 WJZ WBZ WBZA WHAM WBAL KDKA  
 WRVA WPTF WJAX WIOD WLW WFLA  
 WSUN

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

**7:30-7:45 Phil Cook — Quaker Man**  
 WJZ WBZ WBZA WHAM KDKA WREN  
 KWK WTMJ WIBC KOA KSL KGO  
 KECA KGW WRC KOMO KHQ KFSD  
 KJAR WGAR WSMB WSB WPTF WJAX  
 WIOD WFLA WHAS WSM WMC WJDX  
 KTHS KPRC WOAI

**8:00-8:15 Literary Digest Topics**  
 WFBL WGR WJAS WADC WHK WGST  
 WXYZ WSPD WREC WABC WDSU WFBM  
 WGL WMAQ WCCO WMOX KMBC KOIL  
 KFJF WRR KTHS

**11:00-11:15 Amos 'n' Andy**  
 WMAQ WREN KWK WDAF WTMJ WHAS  
 WSM WSB WKY WENR KSTP WSMB  
 WJDX KTHS KPRC WIBC WOAI WMC  
 KOA KFAB WBAP

**11:30-11:45 Amos 'n' Andy**  
 KECA KSL KGO KOMO KHQ KGW  
 KFSD

#### Sunday

**1:30-2:00 Conclave of Nations**  
 WABC WHEC WPG WHP WMAL WCAO  
 WTAR WDBJ WAIU WUNC WXYZ WBCM  
 WDDO WREC WLAC WBRC WBM WCCO  
 KSCJ WMT KMOX KMBC WDAY KOIL  
 WIBW KFJF KTHS KLZ

**1:30-2:00 Neapolitan Days**  
 WEAF WWJ WDAF WTAM WIBO WCAE

KSD WOC WHO WOW WHAS KSL  
KGO KFSD WRC WEEI WJAR WBEN  
WEBC

**2:00-3:00 Roxy Symphony Concert**  
WJZ WBZ WBZA WBAL KDKA KYW  
WFAA WEBC KFAB CKGW WHAS WPTF  
KSTP WSB KWK WRVA WJAX WFLA  
WSUN WLW WIOD WSBM WGAR WTMJ  
KVOO (WRC on 2:30) (WREN on 2:15)

**2:00-2:30 Cathedral Hour**  
WABC WHEC WLBZ WEAN WNAC WORC  
WPG WCAU WHP WMAL WCAO WTAR  
WDBJ WKRC WNNC WXYZ WBCM WDDO  
WREC WLAC WBRC WFBM WMAQ WBBM  
KSCJ WMT KMBC WDAY KOIL WIBW  
KFH KFJF KRLL KTRH KTSA KLZ  
CFRB

**2:30-3:00 NBC Artists Program**  
WEAF WOV WWJ KSD WDAF KOA

**3:00-4:00 National Youth Conference**  
WJZ WBAL KDKA KWK WREN KFAB  
WRVA WJAX WIOD KVOO WFAA WQAI  
WFLA WSUN KGW WPTF KGO KOA  
KSTP WEBC WMC WSBM KPRC WKY  
KPO KOMO KHQ WSB WAPI WGAR  
WTMJ KSL

**3:00-5:00 New York Philharmonic Orchestra**  
WABC WHEC WLBZ WEAN WNAC WORC  
WCAU WHP WJAS WLW WMAL WCAO  
WTAR WDBJ WKRC WAIU WNNC WXYZ  
WBCM WSPD WDDO WREC WLAC WBRM  
WFBM WMAQ WCCO KSCJ WMT KMOX  
KMBC WDAY KOIL WIBW KFH KFJF  
KRLL KTRH KLZ KFRC

**4:00-4:15 Florsheim's Sunday Feature**  
WJZ WBZ WBZA WBAL WHAM KDKA  
WJR WLW KYW KWK WREN KFAB  
WGAR

**4:00-5:00 Dr. S. Parkes Cadman**  
WEAF WEEI WJAR WCSH WTAG KOA  
WOW WKY WQAI WSAI WJAX WHAS  
WJDX KVOO KPRC WEBC WDAF WWJ  
WFLA WSUN KHQ WHO WOC KGO  
KOMO WCAE WFJC WRC KGW WPTF  
WMC WGY WSM KTHS WBP WSB  
WSMB WAPI WBEN WRVA WIOD

**5:00-5:30 Rev. Donald Grey Barnhouse**  
WABC WFBZ WGR WEAN WDRC WNAC  
WCAU WJAS WMAL WADC WKRC WXYZ  
WSPD WOWO WMAQ KOIL KRLL WRR

**5:00-6:00 Davey Hour**  
WEAF WJAR WTAG WCSH WFI WRC  
WGY WCAE WTAM KSD WSAI WENR  
WOC WHO WOW WDAF CKGW WBEN  
WEEI WWJ

**5:00-6:00 National Vespers**  
WJZ WBAL WHAM KWK WREN WCKY  
KSTP WEBC WIOD WMC KOMO WJDX  
WPTF KVOO KPRC WFLA WSUN KOA  
KJAR KGO KGW KHQ WSM WKY  
WSB WQAI WAPI WSBM WBZ WBZA  
WGAR (KFAB on 5:15) (WIBO on 5:30)

**5:30-6:00 The French Trio**  
WLBZ WEAN WNAC WORC WPG WFAN  
WHP WJAS WLW WMAL WCAO WTAR  
WDBJ WHK WKRC WAIU WNNC WXYZ  
WSPD WDDO WREC WLAC WBRM WFBM  
WBBM KSCJ WMT KMBC WDAY KOIL  
WIBW KFJF KRLL KLZ KFRC

**6:00-7:00 Catholic Hour**  
WEAF WEEI WJAR WTAG WCSH WRC  
WGY WWJ WEBC WIOD WKY WJDX  
KGO KSTP WSBM KOMO KSD KGW  
WCAE KECA KJAR WJFC WOC WHO  
WDAF WJAX WFLA WSUN WHAS WMC  
WSB WBP KPRC WQAI WRVA KOA  
KVOO WSAI WSM WFI WIBO WLIT

**7:00-7:30 Iodent Big Brother Club**  
WEAF WEEI WJAR WTAG WCSH WRC  
WCAE WWJ WSAI WLS KSD WOC  
WHO WOW WEBC WTMJ WBEN WLIT

**7:30-8:00 RCA Victor Program**  
WEAF WJAR WTAG WCSH WWJ KPRC  
WBEN WRC WGY WCAE WTAM WSAI  
KYW WRVA WIOD WFLA WSUN WHAS  
KSD WDAF WTMJ WEBC WMC WSB  
WSMB WJDX KTHS KVOO WQAI WKY  
KOA KSL KGO KFI KJAR KFSD  
KGW KOMO KHQ

**7:30-8:00 Williams Oilomatics**  
WJZ WBZ WBZA WHAM KWK WLW  
WREN KDKA WGN WJR

**8:00-8:15 Enna Jettick Melodies**  
WJZ WBZ WBZA WHAM KWK KYW  
WKY WJR WREN WFAA KPRC WQAI  
WHAS WSM WTMJ KSTP KDKA WMC  
KOA WENR WIOD KTHS WSBM KOMO  
KFI KGW KSL KHQ WLW WCKY  
WSB WPTF WRVA WFLA WSUN KFAB  
KFSD KJAR WJDX KPO KVOO KHQ

**8:00-8:15 The World's Business**  
WABC WLBZ WEAN WNAC WORC WCAU  
WHP WJAS WLBW WMAL WTAR WDBJ  
WKRC WAIU WNNC WXYZ WBCM WDDO  
WREC WFBM WMAQ KSCJ WMT KMOX  
KMBC WDAY WNAK KOIL WIBW  
KRLL KTRH KLZ KFRC

**8:00-8:30 Major Bowes' Family**  
WEAF WSBM KSTP WCSH WDAF WIOD  
WSB WMC WJDX WKY WJAR WCAE  
WRC WGY WWJ WSAI KSD WRC  
WHAS WFLA WSUN WTAG WLS WEBC  
WOW WHO WTAM

**8:15-9:15 Colliers Radio Hour**  
WJZ WBZ WBZA WHAM KDKA WJR  
WLW KYW KWK WREN KOA KSL  
KHQ KOMO KFI KGW KPO

**8:30-9:00 Chase and Sanborn Choral Orchestra**  
WEAF WJAR WTAG WCSH WRC WGY  
WCAE WWJ WSAI KSD WOV WIOD  
WBOE KSTP WHO WOC WHAS WLIT  
WEBC WMC WSB WSBM WKY KTHS  
KPRC WQAI WTMJ WTAM WJDX WIOD  
WFLA WSUN WDAF WVIC KVOO WBEN

**9:00-9:15 "Our Government," David Lawrence**  
WEAF WTAG WCSH WEBC WGY WHAS  
KSD WKY WSAI WFJC WSB WMC  
WSM WFAA WOW WQAI WSBM WJDX  
WIOD WFLA WSUN WOC WHO WRC  
WWJ KVOO WLIT WBEN WJAR

**9:00-9:30 Around the Samovar**  
WABC WHEC WEAN WNAC WORC WPG  
WJAS WCAO WTAR WADC WKBN

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

**9:30-10:00 Graham-Paige Hour**  
WABC WFBZ WKBW WEAN WDRC WNAC  
WCAU WJAS WMAL WCAO WADC WPK  
WKRC WBT WGST WIOC WQAM WDBO  
WDAE WXYZ WSPD WREC WDSU WQWO  
WBBM WCCO KMOX KMBC KOIL KFJF  
KRLL KTRH KTSA KLZ KDYL KOL  
KFPY KOIN KHJ KFRC

**10:00-10:30 Royal's Post of the Organ**  
WABC WFBZ WKBW WEAN WNAC WCAU  
WJAS WLBW WMAL WCAO WADC WHK  
WKRC WGST WXYZ WSPD WLAC WQWO  
WBBM KMOX KMBC KOIL KLZ KDYL  
KOL KFPY KOIN KHJ KFRC

**10:15-10:30 Pennzoil Pete**  
WJZ WBZ WBZA KDKA WJR WLW  
WKY WREN WRVA WJAX WIOD WAPI  
WSB WMC WHAS WFLA WSUN WSBM  
WJDX WQAI WKY WHAM

**10:15-10:45 Studabaker Champions**  
WEAF WVIC WTAG WFLA WCSH WRC  
WGY WCAE WTAM WWJ WGN WJAR  
WTMJ KOA WEBC KGO KHQ WOV  
WEEI KOMO KFI WDAF KGW WBEN

10:30-11:00 **Kaffee Hag Slumber Music**  
 WJZ WBZ WBZA WHAM KDKA WJR  
 WLW KWK WRBN

10:30-11:00 **The Gauchos**  
 WABC WHEC WLBZ WNAC WORC WPG  
 WJAS WLBW WMAL WCAO WTAR WDBJ

10:45-11:15 **Sunday at Seth Parker's**  
 WEAF WEEL WESH WRC WGY WOW  
 WDAF CKGW WTMJ KSTP WCAE WTAM  
 WFJC WWJ KYW WOV WHO WEBC  
 WJAX WIOD WHAS WSM WJDX KPRC  
 WKY KOA KGO KGW WSB KTAR  
 KFSD WRVA WBEN WLIT

11:00-12:00 **Back Home Hour**  
 WABC WHEC WLBZ WPG WHP WMAL  
 WTAR WDBJ WXYZ WBCM WSPD WDOD  
 WREC WLAC WFBM WCCO WMT WDAY  
 WNAX WIBW KFJH KFJF KRLD KTRH  
 K TSA

11:30-12:00 **Russian Cathedral Choir**  
 WEAF WRC WFJC WWJ WBAP KOA  
 WOW WSB WGY WTAM KSTP WEBC  
 WIOD WHAS WBEN

## Monday

3:00-3:30 **Phil Napoleon and His Band**  
 WJZ WBZ WBZA WBAL WHAM KDKA  
 WRBN WSB KWK KDKA CRGW WFLA  
 WSUN WRVA WSB KOA

3:30-4:00 **Sixteen Singers**  
 WEAF WRC WOC WHO KSD KSTP  
 WTAM WGY WWJ

4:00-4:30 **Dance Orchestra**  
 WJZ WBAL KSTP KTAR KOA KGO  
 KWK KFSD WHAM WSM WSB WSBM  
 WMC WBZ WBZA WGAR KYW

4:15-4:30 **U.S. Army Band**  
 WABC WLBZ WEAN WNAC WORC WPG  
 WCAU WLBW WMAL WCAO WTAR WDBJ  
 WAU WWCN WXYZ WBCM WSPD WDOD  
 WREC WLAC WBBM WCCO KSCJ WMT  
 KMOX KMBC WDAY KOIL KFJF KRLD  
 KTRH KLZ KOL KFRC CFRB

4:30-5:00 **Wardman Park Hotel Orchestra**  
 WABC WLBZ WEAN WNAC WORC WPG  
 WFAN WHP WLBW WMAL WCAO WTAR  
 WDBJ WKRC WAU WWCN WXYZ WBCM  
 WSPD WDOD WREC WLAC WBRV WCCO  
 KSCJ KMOX KMBC WDAY KOIL WIBW  
 KFJF KRLD KTRH K TSA KOL  
 KFRC CFRB

6:00-6:30 **Paul Tremaine and His Orchestra**  
 WABC WPG WCAU WHP WLBW WMAL  
 WCAO WTAR WDBJ WKRC WWCN WBCM  
 WSPD WDOD WREC WLAC WBRV WBBM  
 WCCO KSCJ WMT WDAY KFJF KRLD  
 KTRH K TSA KLZ KOL KFRC CFRB

6:15-6:45 **Mormon Tabernacle Choir**  
 WJZ WBAL WSM KWK KOA KSL  
 KGO KOMO KFAB KGW CKGW KSTP  
 KTAR KPO WHAS WAPI KFSD WRC  
 WSBM

7:00-7:15 **Current Events**  
 WDBJ WKRC WWCN WXYZ WBCM WDOD  
 WBRV KSCJ WMT WDAY KOIL WABC  
 WHEC WLBZ WORC WHP WJAS WLWB  
 WMAL WCAO WTAR WIBW KFJH KFJF  
 KTRH KOL KFRC

7:15-7:30 **Tasteyest Jesters**  
 WJZ WCKY WHAM WBZ WBZA WRBN  
 KDKA WRC WGAR

7:30-8:00 **Colonial Beaconlights**  
 WEAF WEEL WJAR WTAG WCSH WGY  
 WBEN

7:45-8:30 **Roxy's Gang Program**  
 WJZ WHAM KWK WSB WSM KFAB  
 CKGW WIBO WGAR

8:15-8:30 **Fifteen Minutes in Nation's Capital**  
 WEAF WJAR WTAG WRC KSD WCAE  
 KFSD KOMO WWJ WSAI WOC WHO  
 WOW KYW WDAF WBEN WJDX WSBM

KGO KVOO KPRC KOA KECA WFLA  
 WSUN WTIC WKY WHAS KEHQ WJAX

8:15-8:30 **Barbasol Program**  
 WABC WFBL WKBW WEAN WDRC WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WXYZ WSPD WISN WFBM WCCO  
 KMOX KMBC KOIL

8:30-9:00 **Ingram Shavers**  
 WJZ WBZ WBZA WJR WLW KYW  
 KWK KFAB WTMJ WEBC WRVA WJAX  
 WIOD WSM WMC WSB WSBM KTHS  
 KPRC WOAI WKY KOA CKGW WFLA  
 WSUN WHAS KDKA WJDX KVOO WFAA  
 WGAR

8:30-9:00 **Arabesque**  
 WABC WLBZ WEAN WNAC WORC WJAS  
 WLBW WMAL WTAR WDBJ WKRC WWCN  
 WXYZ WBCM WDOD WREC WMAQ WMT  
 KMOX WDAY WNAX KOIL KFJF KRLD  
 KTRH KLZ CFRB

8:30-9:00 **A. & P. Gypsies**  
 WEAF WEEL WTAG WJAR WTIC WCSH  
 WLIT WRC WGY WCAE WWJ WSAI  
 WGN KSD WOC WDAF WTAM WOW  
 WHO WBEN

9:00-9:30 **Maytag Orchestra**  
 WJZ WBZ WBZA WHAM KDKA WJR  
 KWK KYW KSTP WEBC KTHS WKY  
 WOAI KOA KSL KGO KECA KGW  
 KHQ KOMO KVOO WLW WFAA KPRC  
 WGAR

9:00-9:30 **The Three Bakers**  
 WABC WFBL WHFC WKBW WLBZ WEAN  
 WDRC WNAC WORC WPG WCAU WHP  
 WJAS WLBW WMAL WCAO WTAR WDBJ  
 WADC WHK WKRC WWCN WBT WGST  
 WTOC WQAM WDBO WDAE WXYZ WBCM  
 WSPD WDOD WREC WLAC WBRV WDSU  
 WISN WOW WFBM WMAQ WCCO KSCJ  
 WMT KMOX KMBC KLRA WDAY WNAX  
 KOIL WIBW KFJH KFJF WRR KTRH  
 K TSA KLZ KDYL KOL KFPY KOIN  
 KHJ KFRC

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

9:30-10:00 **General Motors Family Party**  
 WEAF WEEL WJAR WCSH WTAG WLIT  
 WRC WGY WCAE WTAM WWJ WGN  
 KSD WOC WOW WSAI WDAF KSTP  
 WTMJ WHAS WSM WMC WSB KPRC  
 WJAX WFAA WOAI WKY KOA KSL  
 KGO KGW KFI KOMO KHQ WTIC  
 WHO WBEN WCAE

9:30-10:00 **Bourjois**  
 WABC WFBL WKBW WEAN WNAC WCAU  
 WJAS WLBW WMAL WCAO WADC WHK  
 WKRC WBT WXYZ WSPD WOWO WBBM  
 KMOX KMBC KOIL

10:00-10:30 **Robert Burns Panatela Program**  
 WABC WFBL WKBW WEAN WDRC WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WXYZ WSPD WOWO WFBM WMAQ  
 WCCO KMOX KMBC KOIL KFJF KRLD  
 KTRH K TSA KLZ KDYL KVI KOL  
 KFPY KOIN KHJ KFRC

10:00-10:30 **Stromberg-Carlson Program**  
 WJZ WBZ WBZA WHAM KDKA KYW  
 KWK WRBN WEBC WRVA WJAX WIOD  
 WHAS WSM WMC WSB WSBM WOAI  
 KOA KPRC KGO KFI WCKY KGW  
 KHQ KOMO WJDX WFLA WSUN WJR  
 KTAR KFSD WAPI WKY WGAR

10:00-10:30 **Adventures of Sherlock Holmes**  
 WEAF WJAR WCSH WWJ WTAG WEEL  
 WLIT WTAM WSAI WRC WGN WOC  
 WHO WBEN WCAE

10:30-11:00 **Empire Builders**  
 WJZ WBZ WBZA WHAM KDKA WJR  
 WLW KYW KWK WRBN WTMJ WOAI  
 KSTP WEBC KOA KSL KGO KECA  
 KGW KOMO KHQ KTAR KFSD WKY  
 WBAP KPRC WGAR



**10:30-11:00 Symphonic Rhythm Makers**  
 WFAE WEEI WJAR WRC WCAE WTAM  
 WWJ WOV WDAF WMC WSB WJDX  
 WBEN WOC WHO

**10:30-11:00 Don Amazio**  
 WACU WEP WJAS WLBW WADC WHK  
 WKRC WCAH WKBN WSPD WISN WBBM  
 WCCO KSCJ WMT WDAY WNAK KOIL  
 KLZ KDYL KOL KFPY KOIN KHJ  
 KFRC KNX

**11:00-11:15 Musical Aviators Orchestra**  
 WABC WLBZ WORC WPG WCAU WLBW  
 WCAO WTAR WDBJ WUNC WXYZ WBCM  
 WSPD WDDO WREC WLAC WBRW WFBM  
 WCCO KSCJ WMT KMOX KMBC WDAY  
 WNAK KOIL WIBW KFHF KTRH KTRH  
 KLZ

**11:00-11:30 Florence Richardson and Orchestra**  
 WFAE WGY WCAE WOC WHO WOV  
 (WSAI off 11:15) (WJDX WMC WSB on 11:15)  
 (KSD WTMJ WSM on 11:15)

**11:30-12:00 Horace Heidt and His Orchestra**  
 WFAE WWJ WOC WHO KSD WGY  
 (WDAF KSTP WEBC KOA on 11:45) (WOW  
 off 11:45)

**11:30-12:00 Fletcher Henderson and His Orchestra**  
 WABC WLBZ WORC WLBW WMAL WCAO  
 WTAR WDBJ WHK WKRC WUNC WXYZ  
 WBCM WDDO WREC WLAC WBRW WFBM  
 WCCO KSCJ WMT KMBC WDAY WNAK  
 KOIL WIBW KFHF KFPY KTRH CFRB

**12:00-1:00 Phil Spitalny and His Orchestra**  
 WFAE WRC WKY WSM KYW (KSD on  
 12:30) (KSTP WGY off 12:30) (WDAF off 12:15)

**Tuesday**

**10:15-10:30 Through the Looking Glass**  
 WJZ WBZ WBZA WHAM WLW WREN  
 KFKX KDKA KWK CKGW KFAB WKY  
 KVOO WOAI WBAP WGAR

**3:30-4:00 Golden Gems**  
 WFAE WEEI WVIC WTAG WTAM WVIC  
 KSD WFLA WSUN KSTP WOC WHO  
 CKGW

**4:00-4:30 Italian Idyll**  
 WABC WLBZ WEAN WNAC WORC WPG  
 WCAU WLBW WMAL WCAO WTAR WDBJ  
 WKRC WAIU WUNC WXYZ WSPD WDDO  
 WREC WLAC WBRW WBBM WCCO KSCJ  
 WMT KMOX KMBC WDAY KOIL KFJF  
 KTRH KTSa KLZ KFRC CFRB

**4:00-5:00 Pacific Vagabonds**  
 WJZ WHAM WJR WGAR WLW WLS  
 KWK KFAB WREN WRC WJAX WSM  
 WMC WAPI WFAA KSTP KOA KGO  
 KFSD KTR

**5:00-5:30 Rhythm Kings**  
 WABC WHEC WFAN WHP WLBW WMAL  
 WCAO WTAR WAIU WUNC WXYZ WBCM  
 WDDO WREC WLAC WBRW WCCO KSCJ  
 WMT KMBC WDAY KFJF KELD KTRH  
 KTSa KLZ

**7:30-8:00 Musical Aviators Orchestra**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WCAU WJAS WLBW WCAO WDBJ WAIU  
 WUNC WXYZ WDDO WREC WLAC WMT  
 WDAY KOIL KFJF KTRH KLZ KFRC

**7:30-8:00 Seconyland Sketches**  
 WFAE WEEI WJAR WTAG WCSH WGY  
 WBEN

**8:00-8:30 Rhythm Choristers**  
 WABC WLBZ WORC WPG WCAU WJAS  
 WLBW WMAL WCAO WTAR WDBJ WKRC  
 WUNC WXYZ WSPD WDDO WREC WLAC  
 WCCO WMT KMBC WDAY WNAK KOIL  
 WIBW KFHF KFJF KTRH KTSa KOL  
 KFRC

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

**8:00-8:30 Blackstone Plantation**  
 WFAE WCAE WTAM WWJ WSAI WBO  
 KSD WOC WHO WOV WDAF KOA  
 WEEI WJAR WTAG WCSH WFI WRC

**8:30-9:00 Florshim Frolic**  
 WFAE WTAG WFI WRC WGY WCAE  
 WWJ WSAI WGN KSD WDAF WBEBC  
 WRVA KVOO WJAX WIOD WSUN WFLA  
 WSM WMC WSB WWSB WJDX KPRC  
 WOAI WKY KOA KSL KTHS WJAR  
 WHAS WCSH WBAP WBEN KSTP

**8:45-9:00 Premier Salad Dressers**  
 WABC WFLB WKRW WEAN WDRC WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WGST WTOG WQAM WDBO WDAE WXYZ  
 WSPD WLAC WDSU WOV WCCO KMOX  
 KMBC KOIL KTRH KLZ KDYL KVI  
 KOL KFPY KOIN KHJ KFRC

**9:00-9:30 McKesson Musical Magazine**  
 WFAE WEEI WJAR WTAG WCSH WFI  
 WRC WBEN WTAM WDAF KSD WOV  
 WTMJ WEBC WRVA WIOD WFLA WSUN  
 WSM WMC WSB WWSB WJDX KPRC  
 WFI KOA KSL KGO KECA KTR  
 KFSD KGW KOMO KHQ KVOO WOAI  
 KYW

**9:00-9:30 Works of Great Composers**  
 WJZ WBZ WBZA WBAL WREN KDKA

**9:00-9:30 Henry George**  
 WABC WFLB WGR WEAN WDRC WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WXYZ WSPD WISN WOV WFBM  
 WBBM WCCO KMOX KMBC KOIL KPH

**9:30-10:00 The Philco Symphony Concert**  
 WABC WFLB WVIC WKBW WEAN WDRC  
 WNAC WCAU WJAS WMAL WCAO WTAR  
 WADC WHK WKRC WGST WXYZ WSPD  
 WDDO WREC WLAC WBRW WDSU WISN  
 WOV WFBM WMAQ WCCO WMT KMOX  
 KMBC KOIL KPH KFJF KRLD KTRH  
 KTSa CFRB

**9:30-10:00 Death Valley Days**  
 WJZ WBAL WCKY KWK WBZ WBZA  
 WHAM KDKA WENR

**9:30-10:00 Happy Wonder Bakers**  
 WFAE WJAR WEEI WTAG WCSH WRC  
 WGY WCAE WTAM WWJ WSAI WBO  
 KSD WHO WOV WTMJ KSTP WEBC  
 KVOO WKY KOA KSL KGO KOMO  
 KECA KGW KHQ WBAP WOC WRVA  
 WPI WDAF WBEN KPRC

**10:00-10:15 Harry — Mr. and Mrs.**  
 WADC WCAO WNAC WKBW WBBM WKRC  
 WHK WXYZ WOV KMBC WABC WLBW  
 KOIL WCAU WJAS WEAN KMOX WFLB  
 WSPD WMAL WUNC WGST WBRW KRLD  
 KLZ KTRH WFBM WLRa WCCO WISN  
 WREC WTAR WLAC WDSU KFJF WHFC  
 WDBJ KTSa KDYL KPH WKBN KHJ  
 KOIN KFRC KOL KFPY

**10:00-10:30 Westinghouse Pioneers**  
 WJZ WBZ WBZA WBAL KDKA KYW  
 KWK KFRC WEBC WJAX WHAS WSM  
 WMC WWSB KGW KOA KSL WGO  
 KHQ WTMJ KOMO WREN WVA WOAI  
 WSB WIOD WCKY WFLA WSUN KECA  
 KSTP KTR KFSD WJR WAPI WGAR  
 WFAA WHAM WCKY

**10:00-10:00 Lucky Strike Dance Orchestra**  
 WFAE WEEI WJAR WTAG WCSH WFI  
 WRC WCAE WWJ WSAI KSD WOC  
 WHO WTMJ WEBC WRVA WJAX WIOD  
 WFLA WSUN WHAS WMC WSB  
 WWSB WJDX WOAI WKY KOA KGO  
 KECA KGW KHQ KOMO KTR KFSD  
 WBA WDAF WTAM WAPI WBEN

**10:30-11:00 Cuckoo**  
 WJZ WJR WREN WBZ WBZA WHAM  
 KDKA WGAR

**10:30-11:00 Paramount Public Playhouse**  
 WABC WFLB WHEC WKBW WLBZ WEAN  
 WDRC WNAC WPG WCAU WHP WJAS



WLIT	WRC	WCAE	WSAI	WOC	WEBC	WCAU	WJAS	WMAL	WCAO	WADC	WKRC
WKY	KYW	KSD	WRVA	KSTP	WJAX	WXYZ	WSPD	WISN	WFMB	WJJD	WCCO
WIOD	WSM	WSMB	KTHS	KPRC	WOAI	KMOX	KMBC	KOIL			
KOA	KSL	KGO	KECA	KGW	KHQ						
KOMO	WJDX	WGY	WDAF	WHAS	WTAM						
WHO	WOW	KFSD	WMC	WSB	WWJ						
WAPI	WBEN										

**11:00-11:30 Guy Lombardo and His Orchestra**  
WABC WHEC WLBZ WEAN WNAC WORC  
WFG WCAU WLBW WCAO WJAR WDBJ  
WHK WWNC WXYZ WBCM WSPD WDDO  
WREC WFBM WCCO KSCJ WMT KMOX  
KMBC WDAY WNAX KOIL WIBW KFJF  
KFJF KTRH KLZ KOL CFRB

**11:00-11:30 Vincent Lopez and His Orchestra**  
WEAF WFLA WSUN WRC WCAE KSD  
WOW WJDX WGY WLIT (WWJ) WTAM  
off 11:15) (WSM WOC WHO WDAF  
on 11:15)

**11:30-12:00 Musical Aviators' Orchestra**  
WABC WHEC WLBZ WEAN WNAC WORC  
WCAU WLBW WCAO WJAR WDBJ WKRC  
WWNC WXYZ WBCM WDDO WREC WBRC  
WFBM WCCO KSCJ WMT KMBC WDAY  
WNAX KOIL WIBW KFJF KTRH

## Thursday

**10:00-10:15 Ceresota Program**  
WEAF WJAR WTAG WCSH WFI WRC  
WGY WCAE WWJ WSAI KYW KSTP  
WRVA WTAM WBEN WOC WHO

**11:30-11:45 Odonoro-Cutex Program**  
WJZ WHAM KDKA KWK WREN WLW  
WIBO KPRC WKY WOAI WBZ WBZA  
KYOO WJR WFAA

**3:00-4:00 U. S. Navy Band**  
WABC WHEC WLBZ WEAN WNAC WORC  
WCAU WHP WLBW WMAL WCAO WJAR  
WDBJ WHK WKRC WAIU WWNC WXYZ  
WBCM WSPD WDDO WREC WBRC WFBM  
WBBM WCCO KSCJ WMT KMOX KMBC  
WDAY KOIL WIBW KFJF KRLD KTRH  
KLZ CFRB

**3:30-3:45 Chicago Serenade**  
WJZ KDKA WJR WREN KFAB KOA  
WLW WSM WMC WAPI WFLA WSUN  
CKGW

**4:30-5:00 U. S. Army Band**  
WJZ WLW KWK WREN KFAB WJAX  
WSM KSTP WSMB

**5:30-5:45 Rinso Talkie**  
WEAF WEEI WTIC WTAG WJAR WLIT  
WRC WGY WBEN WCAE WTAM WWJ  
KSD WOC WHO WSAI KYW

**7:00-7:30 Mid-Week Federation Hymn Sing**  
WEAF WMC WIBO WWJ WHAS WOC  
WHO KOA WBEN

**7:30-8:00 Voice of Columbia**  
WABC WLBZ WEAN WNAC WORC WCAU  
WJAS WLBW WCAO WJAR WDBJ WKRC  
WWNC WXYZ WBCM WDDO WREC WLAC  
WBRC WFBM WMAQ KSCJ WMT KMOX  
KMBC WDAY KFJF KTRH KPRC

**7:45-8:00 Friendly Five Footnotes**  
WJZ WBZ WBZA WREN KWK KFAB  
WHAS WSM WMC WSB WAPI WSMB  
WJDX WRVA WPTF WJAX WIOD WFLA  
WSUN KGO KECA KOMO EHQ KTRH  
KFSD WBAL KDKA WIBO KOA KSL  
WGAR

**8:00-9:00 Fleischmann Hour — Rudy Vallee**  
WEAF WEEI WTAG WJAX WIOD WJDX  
WJAR WCHS WPI WRC WGY WCAE  
WHO WOW WDAF WWJ WHAS KTRH  
WMC WSB WSMB WEBC KOA WRVA  
KSL KOMO WOAI WSM WOC WAPI  
KGO KHQ KECA KSD CKGW WTAM  
KGW KSTP WGN KPRC WBEN (WTMJ  
KTHS WSAI WBAP WKY of 8:30)

**8:15-8:30 Barbasol Program**  
WABC WFBL WKBW WEAN WDRC WNAC

**8:30-8:45 Kaltenborn Edits the News**  
WABC WFBL WGR WEAN WDRC WNAC  
WORC WCAU WJAS WMAL WCAO WADC  
WHK WKRC WXYZ WSPD WOWO WMAQ  
WCCO KMOX KMBC KOIL

**8:45-9:00 The Hamilton Watchman**  
WABC WFBL WGR WEAN WNAC WCAU  
WJAS WLBW WMAL WCAO WADC WHK  
WKRC WXYZ WSPD WOWO WJJD KMOX  
KMBC KOIL

**9:00-9:30 Knox-Dunlap Orchestra**  
WJZ WBZ WBZA WBAL WHAM KDKA  
WIBO KWK WREN WCKY

**9:00-9:30 Savino Tone Pictures**  
WABC WHEC WLBZ WORC WFAN WHP  
WJAS WLBW WMAL WCAO WJAR WDBJ  
WHK WKRC WWNC WXYZ WBCM WSPD  
WDDO WLAC WBRC WFBM WCCO KSCJ  
WMT WDAY WNAX KOIL KFJF  
KRLD KRTSA KLZ KOL KFRC

**9:00-9:30 Arco Birthday Party**  
WEAF WEEI WJAR WTAG WCSH WFI  
CKGW WRC WGY WSB WSM WIOD  
WJAX WOAI KOA KSL WKY WBAP  
WRVA WSTP WWJ WSAI WSD WDAF  
KYW WCAE WEBC WOW WSMB WJDX  
WOC WFJC WTMJ WMC WHO KGO  
KECA KOMO KHQ KGW WAPI WTAM  
WBEN

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

**9:30-10:00 Detective Story Magazine**  
WABC WFBL WKBW WEAN WDRC WNAC  
WCAU WJAS WMAL WCAO WADC WHK  
WKRC WXYZ WSPD WOWO WBBM KMOX  
KMBC KOIL

**9:30-10:00 Maxwell House Ensemble**  
WJZ WBZ WBZA WBAL WLW KSTP  
WKY WTMJ WEBC WHAS WSM WJAX  
KPRC KOA WRVA WSB WBAP KYW  
KWK WREN WIOD WJR WSMB WOAI  
KECA KGW KOMO KHQ WAPI WMC  
WHAM KDKA KSL KGO

**10:00-10:30 The Lutheran Hour**  
WABC WFBL WKBW WEAN WDRC WNAC  
WCAU WJAS WMAL WCAO WADC WHK  
WKRC WXYZ WSPD WDSU WOWO WBBM  
WCCO WMT KMOX KMBC WNAX KOIL  
KRLD KLZ KDYL KOL KFPY KOIN  
KHJ KFRC

**10:00-11:00 Lucky Strike Dance Orchestra**  
WEAF WEEI WJAR WTAG WCSH WFI  
WRC WGY WCAE WWJ WSAI WBEN  
KSD WOV WKY WOAI KOA KSL  
WTMJ WIOD WHAS WSM WMC WSMB  
KYW KVOO WDAF WJAX KPRC WEBC  
WRVA WFLA WSUN WSB WFAA KFSD  
KTRH (KGO KGW KFI KOMO KHQ  
off 10:30) (WOC WHO KTHS on 10:30)

**10:30-11:00 Poet's Gold**  
WABC WHEC WLBZ WEAN WNAC WORC  
WCAU WHP WJAS WLBW WMAL WCAO  
WJAR WDBJ WWNC WXYZ WBCM WSPD  
WDDO WLAC KSCJ WMT KMOX KMBC  
WDAY WNAX KOIL WIBW KFJF KRLD  
KTRH KRTSA KLZ

**11:00-11:30 Florence Richardson's Orchestra**  
WEAF WCAE WFI (WWJ WSAI of 11:15)  
(KSD WOW WSM WSMB on 11:15) (WOC  
WHO on 11:05-11:15)

**11:00-11:30 Ben Bernie and His Orchestra**  
WABC WHEC WLBZ WEAN WNAC WORC  
WCAU WHP WLBW WMAL WCAO WJAR  
WDBJ WWNC WXYZ WBCM WSPD WDDO  
WREC WLAC WBRC WFBM WCCO WMT  
KMOX KMBC WDAY WNAX KOIL WIBW  
KFJF KFJF KTRH KRTSA KLZ KOL  
CFRB

11:30-12:00 Duke Ellington and His Orchestra  
WEAF WWJ KSD WOV WFI (KSTP  
off 11:50) (WJDX WDAF on 11:45)

## Friday

11:00-12:00 NBC Music Appreciation Hour  
WEAF WJZ WEEI WJAR WTAG WCSH  
WLIT WRC WGY WCAE WTAM WWJ  
WSAI WGN KYW WENR WIBO KSD  
WOC WHO WOV WDAF CKGW WTMJ  
KSTP WEBC WRVA WPTF WJAX WIOD  
WFLA WSUN WHAS WSM WMC WSB  
WAPI WJDX WSMB KVOO WFAA KPRC  
WKY WQAI KOA KSL WBZ WBZA  
WBAL WHAM KDKA WJR WLW KWK  
WREN KFAB WBen WBAP

4:00-4:45 Dancing Melodies  
WEAF WTAG WCAE WFJC WTAM WWJ  
WOC WHO WOV WDAF WBen

7:15-7:30 Howard Lanin's St. Moritz Orchestra  
WABC WLBY WEAN WNAC WORC WCAU  
WHP WJAS WLBW WCAO WTAR WDBJ  
WWNC WXYZ WBCM WDOD WLAC WBRC  
WFBM KSCJ WMT KFJF WIBW KTRH  
KFRC

7:45-8:00 Brownbilt Footlites  
WJZ WBZ WBZA WREN KWK KFAB  
WTMJ WEBC WRVA WPTF WJAX WIOD  
WFLA WSUN WHAS WSM WAPI WSMB  
WJDX WQAI WIBO KOA KSL KDKA  
WSB WLW KSTP WGAR

7:45-8:00 The Vagabonds  
WABC WLBY WEAN WORC WCAU WHP  
WJAS WLBW WTAR WDBJ WHK WAIU  
WWNC WXYZ WBCM WDOD WREC WLAC  
WBRC WFBM WMAQ WCCO KSCJ KMBC  
WDAY KFJF KRLL KTRH KFRC

8:00-8:30 Nestle's Program  
WJZ WBZ WBZA WHAM WIBO KWK  
WREN KFAB WJR WLW KDKA WGAR

8:00-9:00 Cities Service Concert Orchestra  
WEAF WEEI WTIC WLIT WRC WCAE  
WJAR WCSH WOV KYW KSD WDAF  
KSTP WTMJ WGY WOC KOA WBC  
WQAI KOMO KGO KGW KHQ KSL  
WTAG CKGW KECA WHO WSAI WTAM  
WBen WWJ (WFAA KPRC off 8:30)

8:15-8:30 Grand Opera Miniatures  
WABC WLBY WORC WPG WHP WJAS  
WLBW WMAL WTAR WDBJ WWNC WRCM  
WSPD WDOD WREC WLAC WBRC KSCJ  
WMT KMOX KMBC WDAY WNAX KOIL  
KFJF KTRH K TSA KLZ KOL KFRC

8:30-9:00 Weed Tire Chain Program  
WABC WFBL WGR WEAN WDRC WNAC  
WCAU WJAS WMAL WCAO WADC WKRC  
WXYZ WSPD WOWO WMAQ WCCO KMOX  
KMBC KOIL KFJF KRLL KLZ

8:45-9:00 Natural Bridge Revue  
WJZ WHAM KDKA KWK WREN WJAX  
WIOD WIBO WBZ WBZA WFLA WSUN  
WRVA WJR

9:00-9:30 Cliquot Club Eskimos  
WEAF WEEI WTIC WJAR WTAG WCSH  
WLIT WRC WOV WCAE WSAI WIBO  
KSD WWJ WDAF WOC WHO WGY  
WBen

9:00-9:30 Interoven Pair  
WJZ WHAM WMC KDKA WJAX WKY  
WREN KPRC KWK WBZ WBZA KGW  
WSMB WIOD WFAA WJR WTMJ KSTP  
WHAS KYW WEBC WCKY WSM WRVA  
WSB WAPI WQAI KOA KSL KGO  
KECA KGW KOMO KHQ KFSD KTAR  
WJR WGAR

9:00-10:00 True Story Hour  
WABC WFBL WKBW WEAN WDRC WNAC  
WCAU WJAS WMAL WCAO WADC WIHK  
WKRC WXYZ WSPD WOWO WMAQ KMOX  
KMBC KOIL

9:30-10:00 Careless Love — Negro Sketch  
WEAF WEEI WTAG WCSH WRC WGY  
WWJ KSD WOC WHO WDAF

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

10:00-10:30 Crime Prevention Program  
WEAF WJAR WCSH WCAE WWJ KSD  
WSAI WDAF WRC WBen

10:00-10:30 Armstrong Quakers  
WJZ KDKA WBZ WBZA KYW KWK  
WHAM KPRC WJR WTMJ WBC WHAS  
WSM WSB WQAI KOA WSMB KSL  
KGW KOMO KHQ WMC KFI WBAP  
WCKY KTHS KSTP KVOO WKY

10:00-10:30 Columbia Male Chorus  
WABC WHEC WEAN WDRC WNAC WORC  
WPG WJAS WCAO WTAR WADC WHK  
WKRC WWNC WSPD WDOD WLAC WISN  
WOWO WMAQ WCCO KSCJ KMOX KLRA  
WDAY WNAX KOIL KFJF KRLL K TSA  
KLZ

10:30-11:00 RKO Theatre of the Air  
WEAF WEEI WJAR WTAG WLIT WGY  
WCAE WWJ WSAI WIBO KSD WDAF  
WRVA WJAX WIOD WMC WSB WSMB  
WOC WJDX KGO KTHS WQAI WKY  
WRC KOA KGW KFI KHQ KOMO  
KTAR KFSD WCSH WHO WOW KSL  
WTAM WFLA WSUN WBen

10:30-11:00 Nit Wit Hour  
WABC WHEC WLBY WEAN WNAC WORC  
WPG WCAU WJAS WLBW WMAL WCAO  
WTAR WDBJ WHK WWNC WXYZ WBCM  
WSPD WDOD WLAC WBRC KSCJ WCCO  
WMT KMOX WDAY WNAX KOIL WIBW  
KFJF KTRH K TSA KLZ

11:00-11:30 California Melodies  
WABC WHEC WLBY WEAN WNAC WORC  
WCAU WLBW WCAO WTAR WDBJ WWNC  
WXYZ WBCM WSPD WDOD WREC WLAC  
WBRC WCCO WMT KMOX KMBC WDAY  
WNAX KOIL WIBW KFH KFJF KTRH  
KLZ CFRB

11:00-12:00 Vincent Lopez and His Orchestra  
WEAF WGY CKGW WTIC WOC WHO  
(WRC WWJ off 11:15) (KOA KSTP WDAF  
on 11:45) (KSD on 11:30) (WCFB on 11:15-  
11:30) (WFJC WLIT off 11:30)

11:30-12:00 Romanelli and His Orchestra  
WABC WHEC WLBY WORC WLBW WMAL  
WCAO WTAR WDBJ WKRC WWNC WXYZ  
WBCM WDOD WREC WLAC WBC WCCO  
WMT KMBC WDAY WNAX KOIL WIBW  
KFH KFJF KTRH KLZ CFRB

## Saturday

10:30-11:00 New World Salon Orchestra  
WABC WHEC WLBY WEAN WDRC WNAC  
WORC WJAS WMAL WDBJ WAIU WWNC  
WXYZ WDOD WBCM WREC WLAC WFBM  
KSCJ WMT KMBC WDAY KOIL KFJF  
KRLL K TSA CFRB

1:30-2:00 Savoy Plaza Orchestra  
WABC WHEC WLBY WEAN WCAU WHP  
WJAS WMAL WCAO WTAR WDBJ WKRC

WAU WWNC WXYZ WBCM WSPD WDOD  
 WLAC WBRC WIBW CFRB  
**3:30-4:00 Marionettes**  
 WEAF WTAG WRC WCAE WTAM WOC  
 WHO WOW WTMJ KSTP WSB  
**4:30-5:00 Spanish Serenade**  
 WABC WLBZ WEAN WNAC WORC WFAN  
 WHP WMAL WCAO WTAR WDBJ WKRC  
 WAU WWNC WXYZ WBCM WSPD WDOD  
 WREC WLAC WBCO WMAQ WBBM WCCO  
 KSCJ WMT KMOX KMBC WDAY KOIL  
 WIBW KFJF KRLL KTRH K TSA KLZ  
 KOL KFR C  
**5:30-5:45 Tea Timers**  
 WEAF WEEI WWJ WRC WREN WOC  
 WHO WOW KOA KGO KGW K TAR  
**5:35-6:00 Blue Aces — Dance Band**  
 WJZ WHAM KWK WHAS WMC WSB  
 WSMB  
**6:00-6:45 Ozzie Nelson's Orchestra**  
 WABC WFAN WHP WJAS WLBW WTAR  
 WDBJ WKRC WAU WWNC WXYZ WBCM  
 WDOD WREC WLAC W HRC WBBM KSCJ  
 WMT KMBC WDAY KOIL WIBW KFH  
 KFJF KRLL K TSA KLZ KOL KFR C  
**6:15-6:45 Smith Ballou and His Orchestra**  
 WJZ WBZ WBZA WRC KFAB KWK  
**7:00-7:15 Rodeaveaver Sing**  
 WEAF WJAR WFI KSTP WOW KOA  
 WTAM  
**7:00-7:15 Freddie Rich and His Orchestra**  
 WABC WHEC WLBZ WORC WHP WJAS  
 WLBW WCAO WTAR WDBJ WHK WKRC  
 WWNC WXYZ WBCM WDOD W HRC WFBM  
 KSCJ WMT WDAY KOIL WIBW KFH  
 KFJF KOL KFR C  
**7:15-7:30 Tastyeast Jesters**  
 WJZ WHAM WKY WREN KDKA WBZ  
 WBZA WBAL WRC WLW WGAR WPTF  
 WJAX WIOD WFLA WSUN  
**7:30-8:00 Necco Candy Party — Henry Burbig**  
 WABC WFBL WHEC WGR WLBZ WEAN  
 WNAC WORC  
**7:45-8:00 "The Highroad of Adventure"**  
 WEAF WTAG WREN WCAE WTAM WWJ  
 WSAI WOC WHO KSTP WEBC KGO  
 KGW KFSD K TAR  
**7:45-8:00 Pickard Family**  
 WJZ WHAM KWK WREN WIBO WGAR  
**8:00-8:15 Dixies Circus**  
 WJZ WBAL KDKA KYW WHAM WBZ  
 WBZA WOI KSTP KPRC WKY CKGW  
 WGAR  
**8:15-8:30 "Rin-Tin-Tin Thriller"**  
 WJZ WHAM WBAL KDKA WREN KFAB  
 KWK WBZ WBZA KYW WGAR  
**8:15-8:30 Dixie Echoes**  
 WABC WLBZ WORC WPG WFAN WJAS  
 WLBW WMAL WCAO WTAR WDBJ WKRC  
 WWNC WXYZ WBCM WSPD WDOD WREC  
 WLAC W HRC WFBM WCCO KSCJ WMT  
 KMOX KMBC WDAY WNAX KOIL KFH  
 KFJF KTRH K TSA KLZ KOL KFR C  
**8:15-8:30 Radiotron Varieties**  
 WEAF WEEI WJAR WTAG WCSH WRC  
 WGY WREN WCAE WTAM WWJ WSAI  
 WIBO KSD WOC WHO WOW WDAF  
 WTMJ WRVA WJAX WIOD WFLA WSUN  
 WSM WMC WSB WSMB WJDX KPRC  
 WOI WKY KOA KSL KGO KGW  
 KOMO KHQ K TAR KFSD  
**8:30-9:00 The Silver Flute**  
 WEAF WEEI WTAG WCSH WRC WFI  
 WGY WCAE WWJ WSAI KSD WDAF  
 WIOD

**8:30-9:00 Fuller Man**  
 WJZ WBZ WBZA WBAL WHAM KDKA  
 WJR KWK WREN KOA CKGW WHAS  
 KPRC KGO KECA KGW KOMO KFAB  
 KHQ WIBO WKY WTMJ WMC WEBC  
 WSB WAPI WSMB WLW WJDX KSTP  
**8:30-9:00 Fletcher Henderson and His Orchestra**  
 WABC WLBZ WEAN WNAC WORC WPG  
 WCAU WJAS WLBW WMAL WCAO WTAR  
 WDBJ WKRC WWNC WXYZ WBCM WSPD  
 WDOD WREC WLAC W HRC KSCJ WMT  
 KMOX KMBC WDAY WNAX KOIL WBW  
 KFH KFJF KRLL KTRH K TSA KLZ  
 KFR C  
**9:00-9:30 Carborundum Hour**  
 WABC WKWB WNAC WCAU WHK WXYZ  
 WMAQ KMOX  
**9:00-10:00 General Electric Hour**  
 WEAF WEEI WJAR WTAG WCSH WFI  
 WRC WGY WREN WCAE WTAM WWJ  
 WSAI WIBO KSD WOC WOW WDAF  
 WTMJ WKY KSTP WEBC WRVA WJAX  
 WHAS WMC WSB WAPI WSMB WBAF  
 KPRC WOI KOA KSL KGO KFI  
 KGW KOMO KHQ KFSD K TAR  
**9:30-10:00 Columbia Educational Features**  
 WABC WLBZ WEAN WNAC WORC WPG  
 WFAN WHP WJAS WLBW WMAL WTAR  
 WDBJ WKRC WWNC WXYZ WBCM WSPD  
 WDOD WREC WLAC W HRC WFBM WCCO  
 KSCJ WMT KMBC WDAY WNAX KOIL  
 WIBW KFH KFJF KTRH K TSA KLZ  
 KOL KFR C  
**10:00-11:00 Lucky Strike Dance Orchestra**  
 WEAF WEEI WJAR WTAG WCSH WFI  
 WRC WGY WREN WCAE WTAM WWJ  
 WSAI WGN KSD WHO WOC WOW  
 WDAF WTMJ KSTP WEBC WRVA WJAX  
 WIOD WFLA WSUN WHAS WMC WSB  
 WSMB WJDX KVOO WFAA KPRC WOI  
 WKY KOA KSL KGO KFI KGW  
 KOMO KHQ K TAR KFSD  
**10:00-11:00 Hank Simmons' Show Boat**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WPG WFAN WHP WJAS WLBW WMAL  
 WCAO WTAR WDBJ WKRC WWNC WXYZ  
 WBCM WSPD WDOD WLAC W HRC WFBM  
 WMAQ WCCO KSCJ WMT KMOX KMBC  
 WDAY WNAX KOIL WIBW KFH KFJF  
 KRLL KTRH K TSA KLZ KOL KFR C  
 CFRB  
**10:00-11:00 Chicago Civic Opera**  
 WJZ WBZ WBZA WBAL WHAM KDKA  
 WIBO KWK WREN WLW WGAR  
**11:00-11:15 Troubadour of the Moon**  
 WEAF WFI WCAE WWJ WSAI WOC  
 WHO WOW  
**11:00-11:30 Jack Denny and His Orchestra**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WPG WCAU WHP WLBW WMAL WCAO  
 WTAR WDBJ WKRC WWNC WXYZ WBCM WSPD  
 WDOD WREC WLAC W HRC WFBM KSCJ  
 WMT KMBC WDAY WNAX KOIL WBW  
 KFJF KRLL KTRH KLZ KOL CFRB  
**11:15-11:45 Horace Heidt and His Orchestra**  
 WEAF WFI KSD WOC WHO (WCAE  
 WTMJ WSMB off 11:30) (WOW WJDX  
 off 11:45) (KSTP KOA on 11:45)  
**11:30-12:00 Guy Lombardo and His Orchestra**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WPG WFAN WHP WLBW WMAL WCAO  
 WTAR WDBJ WKRC WWNC WXYZ WBCM WSPD  
 WDOD WREC WLAC W HRC WFBM WCCO  
 KSCJ WMT KMBC WDAY WNAX KOIL  
 WIBW KFJF KRLL KTRH KLZ KOL  
 CFRB  
**12:00-1:00 Rudy Vallee and His Orchestra**  
 WEAF WRC WSB WJDX (WTAM KSD on  
 12:30) (WDAF KOA off 12:30)

# 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; ‡ Does not verify; § Did not reply. Third column shows night power in watts. Fourth column symbols: D, daytime only; S, Sunday only; Stations dividing time have same small figures; X means station has been granted permit to increase power; + means station has greater power during day; CP indicates station has construction permit only; Some Cuban and Mexican stations have odd frequencies; Correct kilocycles shown in small figures; N means NBC chain; C means Columbia chain; Z has been granted permit to change frequency; Y given permit to move to another city. Dn—This daylight station may use evening hours under certain conditions. Dashes (..) have no meaning.

### 540 kilocycles 555.6 meters

CKX † 500 --- Brandon, Manitoba

Manitoba Telephone System		

### 550 kilocycles 545.1 meters

KFDY † 500 1+ Brookings, S. D.  
 KFUO \* 500 2+ St. Louis, Mo.  
 KFYZ † 1000 1+ Bismarck, N. D.  
 KOAC -- 1000 --- Corvallis, Ore.  
 KSD † 500 2N St. Louis, Mo.  
 WGR \* 1000 C Buffalo, N. Y.  
 WKRC † 1000 C Cincinnati, Ohio  
 XEY -- 105 547 Merida, Yucatan

70-2		
S. D. State College Concordia Theological Seminary Meyer Broadcasting Co. State Agricultural College Pulitzer Publishing Co. Buffalo Broadcasting Co. WKRC Incorporated Partido Socialista del Sureste		

### 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+ Knoxville, Tenn.  
 WPCC \* 500 3S Chicago, Ill.  
 WQAM \* 1000 C Miami, Fla.

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

### 570 kilocycles 526.0 meters

KGKO \* 250 + Wichita Falls, Texas  
 KMTR \* 500 --- Los Angeles, Cal.  
 KXA \* 500 --- Seattle, Wash.  
 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  
 WSYR -- 250 2 Syracuse, N. Y.  
 WWNC -- 1000 C Asheville, N. C.

Wichita Falls Broadcasting Co. KMTR Radio Corp. American Radio Tel. Co. Ohio State University W. P. Williamson, Jr. Clive B. Meredith Knickerbocker Broadcasting Co., Inc. House of Gurney, Inc. Dept. of Plants and Structures Clive B. Meredith Citizens Broadcasting Co., Inc.		

### 580 kilocycles 516.9 meters

CFCL -- 500 3S Toronto, Ont.  
 CHMA -- 250 4 Edmonton, Alta.  
 CKCL \* 500 3 Toronto, Ont.  
 CKNC \* 500 3 Toronto, Ont.  
 CKUA † 500 4 Edmonton, Alta.  
 KGFX -- 200 D Pierre, S. D.  
 KSAC -- 500 2+ Manhattan, Kans.  
 WIBW \* 1000 2+C Topeka, Kansas  
 WOBU \* 250 1 Charleston, W. Va.  
 WSAZ \* 250 1 Huntington, W. Va.  
 WTAG \* 250 N Worcester, Mass.

70-2		
Dominion Battery Co. Christian and Missionary Alliance The Dominion Battery Co. Canadian National Carbon Co., Ltd. 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	--	1000	588	Havana, Cuba
✓ KHQ	--	1000	+N	Spokane, Wash.
WCAJ	* →	500	1	Lincoln, Nebr.
WEEL	†	1000	N	Boston, Mass.
✓ WKZO	*	1000	D	Berrien Springs, Mich.
✓ WOW	*	1000	1N	Omaha, Nebr.
✓ XEZ	*	500	588	Mexico City

<i>Call</i>		
Columbus Commercial & Radio Co. Louis Wasmer, Inc. Nebraska Wesleyan University Edison Elec. Illuminating Co. WKZO, Inc. Woodmen of the World Joaquin Zamacona		

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

### 600 kilocycles 499.7 meters

CJRM	†	500	4	Moose Jaw, Sask.
CJRW	--	500	4	Fleming, Sask.
✓ CNRO	†	500	3	Ottawa, Ont.
KFSD	*	500	+N	San Diego, Cal.
WACAC	--	250	2+	Storrs, Conn.
WCAO	* →	250	C	Baltimore, Md.
WGBS	†	250	2+	New York City
WMT	*	500	C	Waterloo, Iowa
WQAN	--	500	1	Lawrenceburg, Tenn.
WREC	*	500	1+C	Memphis, Tenn.

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

### 610 kilocycles 491.5 meters

KFERC	*	1000	C	San Francisco, Cal.
WDAF	*	1000	N	Kansas City, Mo.
WFAW	*	500	2C	Philadelphia, Pa.
WIP	*	500	2	Philadelphia, Pa.
WJAY	†	500	D	Cleveland, Ohio

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

### 620 kilocycles 483.6 meters

✓ KGW	*	1000	+N	Portland, Ore.
✓ KTAR	*	500	+N	Phoenix, Arizona
WFLA	*	1000	1+N	Clearwater, Fla.
WLBZ	*	500	C	Bangor, Maine
✓ WSUN	*	1000	1+N	St. Petersburg, Fla.
✓ WTMJ	*	1000	+N	Milwaukee, Wis.

<i>Call</i>		
Oregonian Publishing Co. KTAR Broadcasting Co. Chamber of Commerce Maine Broadcasting Co., Inc. Chamber of Commerce Milwaukee Journal		

### 630 kilocycles 475.9 meters

CFCT	*	500	---	Victoria, B. C.
CJGX	--	500	---	Yorkton, Sask.
✓ CNRA	--	500	---	Moncton, N. B.
✓ KFRU	*	500	1	Columbia, Mo.
WGBF	†	500	1	Evansville, Ind.
✓ WMAL	†	250	+C	Washington, D. C.
WOS	*	500	1	Jefferson City, Mo.
XFE	--	350	632	Villahermosa, Mex.

Victoria Broadcasting Association Winnipeg Grain Exchange Canadian National Railways Stevens College Evansville on the Air, Inc. M. A. Leese State Marketing Bureau Gobierno del Estado de Tobasco		

### 640 kilocycles 468.5 meters

✓ KFI	--	5000	NX	Los Angeles, Cal.
WAIU	*	500	C Dn	Columbus, Ohio
WOI	*	5000	D	Ames, Iowa
XFG	--	2000	638	Mexico City

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

### 650 kilocycles 461.3 meters

KPCB	--	100	Dn	Seattle, Wash.
✓ WSM	*	5000	N	Nashville, Tenn.

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

### 660 kilocycles 454.3 meters

CMCO	--	50	---	Buen Retiro, Cuba
✓ WAAW	--	500	D	Omaha, Neb.
✓ WEAJ	†	50000	N	New York City

J. L. Stowers Omaha Grain Exchange National Broadcasting Co., Inc.		

### 670 kilocycles 447.5 meters

✓ WMAQ	*	5000	C	Chicago, Ill.
XEO	--	101	674	Mexico City

WMAQ, Inc. F. Armida y Cia.		

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INDEX BY FREQUENCIES AND DIAL NUMBERS

680 kilocycles 440.9 meters

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

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.
CFCN	--	500	1	Calgary, Alta.
CHCA	*	500	1	Calgary, Alta.
CJ CJ	*	500	1	Calgary, Alta.
CJSC	--	5000	---	Toronto, Ont.
CKGW	*	5000	2N	Toronto, Ont.
CNRC	--	500	1	Calgary, Alta.
CPRY	--	5000	2N	Toronto, Ont.
NAA	--	1000	---	Arlington, Va.
VAS	--	10000	685	Glace Bay, N. S.

The Calgary Herald		
Western Broadcasting Co.		
The Western Farmer		
Albertan Publishing Co., Ltd.		
The Evening Telegram		
Gooderham & Worts, Ltd.		
Canadian National Railways		
Canadian Pacific Railways		
U. S. Navy		
Canadian Marconi Co.		

700 kilocycles 428.3 meters

WLW	*	5000	N	Cincinnati, Ohio
-----	---	------	---	------------------

Crosley Radio Corp.		

710 kilocycles 422.3 meters

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

R. S. MacMillan		
Bamberger Broadcasting Service, Inc.		

720 kilocycles 416.4 meters

WGN	†	25000	N	Chicago, Ill.
8WMC	--	500	722	St. Johns, N. F.

Chicago Tribune		
Wesley United Church		

730 kilocycles 410.7 meters

CHLS	--	50	1	Vancouver, B. C.
CHYC	*	5000	2	Montreal, Que.
CKAK	*	5000	2C	Montreal, Que.
CKCD	--	50	1	Vancouver, B. C.
CKFC	†	50	1	Vancouver, B. C.
CKMO	†	50	1	Vancouver, B. C.
CKWX	†	100	1	Vancouver, B. C.
CMK	--	5000	---	Havana, Cuba
CNRM	*	5000	2	Montreal, Que.
XEN	†	1000	732	Mexico City

W. G. Hassell		
Northern Electric Co., Ltd.		
La Presse Publishing Co., Ltd.		
Vancouver Daily Province		
United Church of Canada		
Sprott-Shaw Radio Co.		
A. Holstead & Wm. Hanlon		
Cuban Broadcasting Co., Hotel Plaza		
Canadian National Railways		
Compania Civil de Inversiones Urbanas		

740 kilocycles 405.2 meters

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

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

750 kilocycles 399.8 meters

TIC	--	50	---	San Jose, Costa Rica
WJR	†	5000	N	Detroit, Mich.
XEQ	--	1000	---	Ciudad Juarez, Mex.

WJR, The Goodwill Station, Inc.		

760 kilocycles 394.5 meters

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

Puget Sound Broadcasting Co., Inc.		
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.

KFAB Broadcasting Co.		
The Atlas Co., Inc.		
The Atlas Co., Inc.		

780 kilocycles 384.4 meters

CKY	--	5000	3	Winnipeg, Manitoba
CNRW	--	5000	3	Winnipeg, Manitoba
KELW	--	500	2	Burbank, Cal.
KTM	*	500	2+	Los Angeles, Cal.
WEAN	*	250	+C	Providence, R. I.

Manitoba Telephone System		
Canadian National Railways		
Union Bank & Trust Co.		
Pickwick Broadcasting Corp.		
Shepard Broadcasting Service, Inc.		



## INDEX BY FREQUENCIES AND DIAL NUMBERS

WISJ -- 250 +  
 WMC -- 500 +N  
 WPOR -- 500 1  
 WTAR \* 500 1C  
 XEW † 5000 ---

Madison, Wis.  
 Memphis, Tenn.  
 Norfolk, Va.  
 Norfolk, Va.  
 Mexico City

Wisconsin State Journal Bdcsg. Co.  
 Memphis Commercial-Appeal  
 WTAR Radio Corp.  
 WTAR Radio Corp.  
 Mexico Music Co.

### 790 kilocycles 379.5 meters

CMBS -- 150 ---  
 CMHC -- 500 791  
 KGO † 7500 N  
 WGY † 50000 N

Havana, Cuba  
 Tuinucu, Cuba  
 San Francisco, Cal.  
 Schenectady, N. Y.

E. Artalejo  
 Frank H. Jones  
 National Broadcasting Co., Inc.  
 General Electric Co.

### 800 kilocycles 374.8 meters

WBAP † 10000 1XN  
 WFAA -- 50000 1N  
 XEU -- 50 ---  
 XFC -- 350 805

Fort Worth, Texas  
 Dallas, Texas  
 Veracruz, Mex.  
 Jalapa, Mex.

Carter Publications, Inc.  
 News & Journal  
 Natalio Ulibarri  
 Gobierno del Estado de Veracruz

### 810 kilocycles 370.2 meters

WCCO \* 7500 C  
 WPCH -- 500 D

Minneapolis, Minn.  
 New York City

Northwestern Broadcasting, Inc.  
 Eastern Broadcasters, Inc.

### 820 kilocycles 365.6 meters

WHAS † 10000 N  
 XFI -- 1000 818

Louisville, Ky.  
 Mexico City

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

### 830 kilocycles 361.2 meters

CMGA -- 300 834  
 KOA † 12500 N  
 WHDH -- 1000 D  
 WRUF \* 5000 Dn  
 XEG -- 2000 829

Colon, Cuba  
 Denver, Colo.  
 Boston, Mass.  
 Gainesville, Fla.  
 Mexico City, Mex.

Leopoldo V. Figueros  
 National Broadcasting Co., Inc.  
 Matheson Radio Co., Inc.  
 University of Florida  
 G. Gutierrez, Jr.

### 840 kilocycles 356.9 meters

CFCA † 500 1  
 CHCT -- 1000 ---  
 CKLC † 1000 2  
 CMC \* 500 ---  
 CNRD † 1000 2  
 CNRT \* 500 1  
 XEM -- 500 841

Toronto, Ont.  
 Red Deer, Alta.  
 Red Deer, Alta.  
 Havana, Cuba  
 Red Deer, Alta.  
 Toronto, Ont.  
 Tampico, Mex.

Star Publishing & Ptg. Co.  
 G. F. Tull & Ardern, Ltd.  
 Alberta Pacific Grain Co., Ltd.  
 Cuban Telephone Co.  
 Canadian National Railways  
 Canadian National Railways  
 Herbert A. Denny y Cia.

### 850 kilocycles 352.7 meters

KWKH \* 10000 1  
 NBA -- 750 846  
 WWL \* 5000 1

Shreveport, La.  
 Balboa, Canal Zone  
 New Orleans, La.

Hello World Broadcasting Corp.  
 United States Navy  
 Loyola University

### 860 kilocycles 348.6 meters

KMO -- 500 + Dn  
 WABC \* 5000 XC  
 WBOQ -- 5000 ---  
 WHB \* 500 D  
 XEJ \* 101 857  
 XFX -- 500 ---  
 XFZ -- 500 859

Tacoma, Wash.  
 New York City  
 New York City  
 Kansas City, Mo.  
 C. Juarez, Chih.  
 Mexico City, Mex.  
 Mexico City, Mex.

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

### 870 kilocycles 344.6 meters

WENR -- 50000 1N  
 WLS † 5000 1XN

Chicago, Ill.  
 Chicago, Ill.

Great Lakes Broadcasting Co.  
 Agricultural Broadcasting Co.

### 880 kilocycles 340.7 meters

CHCS -- 10 4  
 CHML \* 50 4  
 CHRC -- 100 3  
 CJC \* 50 ---  
 CKCV † 22.5 3  
 CKCV † 50 3  
 CKOC \* 50 4  
 CKOC † 50 3  
 CNRQ † 50 3  
 KFKA † 500 2+  
 KLX -- 500 ---

Hamilton, Ont.  
 Hamilton, Ont.  
 Quebec, Que.  
 Sydney, N. S.  
 Quebec, Que.  
 Quebec, Que.  
 Hamilton, Ont.  
 Quebec, Que.  
 Greeley, Colo.  
 Oakland, Cal.

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

KCYS.  
**880**  
 MTRS.  
**340.7**  
 DIAL

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## INDEX BY FREQUENCIES AND DIAL NUMBERS

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

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

### 890 kilocycles 336.9 meters

CFBO	*	50	---	St. John, N. B.
CKCO	†	100	---	Ottawa, Ont.
KFNF	--	500	2+	Shenandoah, Iowa
KGJF	--	250	---	Little Rock, Ark.
KUSD	*	500	2+	Vermillion, S. D.
WGST	*	250	1+C	Atlanta, Ga.
WILL	*	250	2+	Urbana, Ill.
WJAR	*	250	+N	Providence, R. I.
WKAQ	*	500	---	San Juan, P. R.
WMAZ	†	250	1+	Macon, Ga.
WMMN	*	250	+	Fairmount, W. Va.
XES	†	500	---	Tampico, Mexico
XET	†	1500	---	Monterrey, Mex.

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

### 900 kilocycles 333.1 meters

CMCF	†	250	---	Havana, Cuba
WGBU	†	500	---	Ketchikan, Alaska
KHJ	*	1000	C	Los Angeles, Cal.
KSEI	*	250	---	Pocatello, Idaho
WBEN	*	1000	N	Buffalo, N. Y.
WJAX	*	1000	N	Jacksonville, Fla.
WKY	*	1000	N	Oklahoma City
WLBL	*	2000	D	Stevens Point, Wis.

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

### 910 kilocycles 329.6 meters

CFQC	--	500	1	Saskatoon, Sask.
CHNS	*	500	3	Halifax, N. S.
CJGC	*	1000	2	London, Ont.
CMX	*	1000	---	Havana, Cuba
CNRH	--	500	3	Halifax, N. S.
CNRL	--	500	2	London, Ont.
CNRS	--	500	1	Saskatoon, Sask.

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The Electric Shop, Ltd.  
Halifax Herald, Ltd.  
Free Press Printing Co., Ltd.  
Francisco Lavin  
Canadian National Railways  
Canadian National Railways  
Canadian National Railways

### 920 kilocycles 325.9 meters

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

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

### 930 kilocycles 322.4 meters

CJCA	*	500	4	Edmonton, Alta.
CFRC	--	500	---	Kingston, Ont.
CKIC	--	50	---	Wolfville, N. S.
CKPR	--	50	3	Midland, Ont.
CNRE	--	500	4	Edmonton, Alta.
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	*	50	D	Elkins Park, Pa.

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

### 940 kilocycles 319.0 meters

KGU	†	1000	---	Honolulu, Hawaii
KOIN	*	1000	C	Portland, Ore.
WAAT	--	300	D	Jersey City, N. J.
WCSH	*	1000	N	Portland, Maine
WDAY	*	1000	C	Fargo, N. D.
WFIW	*	1000	---	Hopkinsville, Ky.
WHA	--	750	D	Madison, Wis.

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

950 kilocycles 315.6 meters

CMCQ	--	1000	955	Havana Cuba
KFWB	*	1000	---	Hollywood, Cal.
KGHL	--	1000	---	Billings, Mont.
KMBC	*	1000	C	Kansas City, Mo.
WRC	†	500	N	Washington, D. C.

W. H.		
Andres Martinez		
Warner Bros. Broadcasting Corp.		
Northwestern Auto Supply Co., Inc.		
Midland Broadcasting Co., Inc.		
National Broadcasting Co., Inc.		

960 kilocycles 312.3 meters

CFCY	*	250	1	Charlottetown, P. E. I.
CFRB	*	4000	2C	Toronto, Ont.
CHCK	--	30	1	Charlottetown, P. E. I.
CHWC	*	500	3	Regina, Sask.
CJBR	--	500	3	Regina, Sask.
CKCK	†	500	3	Regina, Sask.
CNR	--	500	3	Regina, Sask.
CNRX	--	4000	2	Toronto, Ont.
XED	*	10000	961	Reynosa, Mexico

W. H.		
The Island Radio Co.		
Rogers-Majestic Corp., Ltd.		
W. E. Burke		
R. H. Williams & Sons. Ltd.		
Cooperative Wheat Producers, Ltd.		
Leader Publishing Co., Ltd.		
Canadian National Railways		
Canadian National Railways		
International Broadcasting Co., Inc.		

970 kilocycles 309.1 meters

KJR	*	5000	---	Seattle, Wash.
WCFL	--	1500	N Dn	Chicago, Ill.

W. H.		
Northwest Broadcasting System, Inc.		
Chicago Federation of Labor		

980 kilocycles 305.9 meters

KDKA	--	50000	N	Pittsburgh, Pa.
XER	--	100	984	Mexico City, Mex.

W. H.		
Westinghouse Elec. & Mfg. Co.		
F. Armida y Cia.		

990 kilocycles 302.8 meters

CMBD	--	150	995	Havana, Cuba
BWZ-A	†	15000	INY	Springfield, Mass.

Luis Perez Garcia		
Westinghouse Elec. & Mfg. Co.		

1000 kilocycles 299.8 meters

KFVD	*	250	Dn	Culver City, Cal.
WHO	*	5000	1N	Des Moines, Iowa
WOC	*	5000	1N	Davenport, Iowa
XEI	*	101	999	Morelia, Mexico
XEK	--	101	---	Mexico City

W. H.		
Los Angeles Broadcasting Co.		
Central Broadcasting Co.		
Central Broadcasting Co.		
Carlos Gutierrez M.		
Arturo Martinez		

1010 kilocycles 296.8 meters

CFLC	*	50	3	Prescott, Ont.
CKCR	--	50	3	Waterloo, Ont.
CMBW	--	150	---	Marianas, Cuba
CMBZ	--	150	---	Havana, Cuba
KGGF	†	500	2	S. Coffeyville, Okla.
KQW	*	500	---	San Jose, Cal.
WHN	*	250	1	New York City
WIS	*	500	C+	Columbia, S. C.
WNAD	*	500	2	Norman, Okla.
WPAP	*	250	1	New York City
WQAO	--	250	1	New York City
WRNY	--	250	1	New York City

W. H.		
Radio Association		
John Patterson		
M. Alvarez		
Manuel y G. Salas		
Powell & Platz		
Pacific Agricultural Foundation, Ltd.		
Marcus Loew Booking Agency		
South Carolina Broadcasting Co., Inc.		
University of Oklahoma		
Palisades Amusement Park		
Aviation Baptist Church		
Aviation Radio Station, Inc.		

1020 kilocycles 293.9 meters

KFKX	*	10000	1N	Chicago, Ill.
KYW	*	10000	1N	Chicago, Ill.
WRAX	†	250	D	Philadelphia, Pa.

W. H.		
Westinghouse Elec. & Mfg. Co.		
Westinghouse Elec. & Mfg. Co.		
WRAX Broadcasting Co.		

1030 kilocycles 291.1 meters

CFCF	--	500	---	Montreal, Que.
CNRV	†	500	---	Vancouver, B. C.
XEB	†	1000	---	Mexico City, Mex.

Canadian Marconi Co.		
Canadian National Railways		
El Buen Tono, S. A.		

1040 kilocycles 288.3 meters

KRLD	*	10000	1C	Dallas, Texas
KTHS	§	10000	1N	Hot Springs, Ark.
WKAR	*	1000	D	East Lansing, Mich.
WMAK	*	1000	Dn	Buffalo, N. Y.
XEV	--	101	1035	Puebla, Mex.

W. H.		
KRLD Radio Corp.		
Chamber of Commerce		
Michigan State College		
Buffalo Broadcasting Corp.		

KCY.S.  
1040  
MTRS.  
288.3  
DIAL

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1050 kilocycles 285.5 meters

CMKC \* 150 1045  
 KFKB \* 5000 Dn  
 KNX \* 5000 X

Santiago de Cuba  
 Milford, Kansas  
 Hollywood, Cal.

M. P. Martinez  
 KFKB Broadcasting Assn., Inc.  
 Western Broadcast Co.

### 1060 kilocycles 282.8 meters

KWJJ -- 500 Dn  
 WBAL \* 10000 Dn  
 WTJG \* 1000 Dn  
 WTIC \* 50000 1N

Portland, Ore.  
 Baltimore, Md.  
 Norfolk, Nebr.  
 Hartford, Conn.

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

### 1070 kilocycles 280.2 meters

CMBT -- 150 ---  
 CMCB -- 150 ---  
 KJBS \* 100 D  
 WCAZ -- 50 D  
 WZD † 100 D  
 WTAM \* 50000 N

Havana, Cuba  
 Havana, Cuba  
 San Francisco, Cal.  
 Carthage, Ill.  
 Tuscola, Ill.  
 Cleveland, Ohio

E. Perera  
 M. D. Autran  
 Julius Brunton & Sons Co.  
 Superior Broadcasting Service  
 James L. Bush  
 National Broadcasting Co., Inc.

### 1080 kilocycles 277.6 meters

WBT \* 5000 C  
 WCBD \* 5000 1 Dn  
 WMBI \* 5000 1 Dn

Charlotte, N. C.  
 Zion, Ill.  
 Chicago, Ill.

Station WBT, Inc.  
 Wilbur Glenn Voliva  
 Moody Bible Institute

### 1090 kilocycles 275.1 meters

KMOX \* 50000 1CX  
 XEL -- 10 1091

St. Louis, Mo.  
 Saltillo, Coah.

Voice of St. Louis, Inc.  
 Antonio Garza Castro

### 1100 kilocycles 272.6 meters

CMKD -- ---  
 KGDM \* 250 DX  
 WLWL \* 5000 1  
 WPG \* 5000 1C  
 XETA -- 1000 ---

Santiago, Cuba  
 Stockton, Cal.  
 New York City  
 Atlantic City, N. J.  
 Mexico City

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

### 1110 kilocycles 270.1 meters

KSOO \* 2000 Dn  
 WRVA \* 5000 N

Sioux Falls, S. D.  
 Richmond, Va.

Sioux Falls Broadcasting Assn., Inc.  
 Larus & Bros. Co., Inc.

### 1120 kilocycles 267.7 meters

CFJC -- 15 ---  
 CHGS \* 100 ---  
 CJOC † 50 ---  
 KFIO † 100 D  
 KFSG \* 500 3  
 KMIC \* 500 3Y  
 KRSC † 50 D  
 KTRH \* 500 2C  
 WDBO \* 500 +C  
 WDEL † 250 +X  
 WHAD \* 250 1  
 WISN \* 250 1C  
 WTAW \* 500 2

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

N. S. Dalgleish & Sons  
 R. T. Holman, Ltd.  
 Harold R. Carson  
 Spokane Broadcasting Corp.  
 Echo Park Evang. Assn.  
 Dalton's, Inc.  
 Radio Sales Corp.  
 Rice Hotel  
 Orlando Broadcasting Co., Inc.  
 WDEL, Inc.  
 Marquette University  
 Evening Wisconsin Co.  
 Agricultural & Mech. College

### 1130 kilocycles 265.3 meters

CMBC \* 150 ---  
 CMQ \* 150 ---  
 KSL \* 5000 N  
 WJJD \* 20000 C Dn  
 WOV -- 1000 D  
 XEC -- 50 1133  
 XEF \* 105 1131  
 XEH -- 101 1132

Havana, Cuba  
 Havana, Cuba  
 Salt Lake City  
 Mooseheart, Ill.  
 New York City  
 Toluca, Mex.  
 Oaxaca, Oax.  
 Monterrey, Mex.

Domingo Fernandez Cruz  
 Jose Fernandez  
 Radio Service Corp. of Utah  
 Loyd Order of Moose  
 International Broadcasting Corp.  
 Jesus R. Benavides  
 Frederico Zorrilla  
 Ing. Constantino de Tarnava

### 1140 kilocycles 263.0 meters

KVOO \* 5000 1N  
 WAPI -- 5000 1N

Tulsa, Okla.  
 Birmingham, Ala.

Southwestern Sales Corp.  
 Alabama Polytechnic Institute

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1150 kilocycles 260.7 meters

CMHJ	--	200	1154	Cienfuegos, Cuba
WHAM	*	5000	N	Rochester, N. Y.

<i>WFA</i>		
Jose Ganduxe Stromberg-Carlson Tel. Mfg. Co.		

### 1160 kilocycles 258.5 meters

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

<i>WFA</i>		
Main Auto Supply Co. West Virginia Broadcasting Corp.		

### 1170 kilocycles 256.3 meters

KTNT	*	5000	Dn	Muscataine, Iowa
WCAU	*	10000	C	Philadelphia, Pa.

<i>WFA</i>		
Norman Baker Universal Broadcasting Co		

### 1180 kilocycles 254.1 meters

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

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

### 1190 kilocycles 252.0 meters

WICC	*	500	D	Bridgeport, Conn.
WOAI	*	50000	N	San Antonio, Texas
XEX	*	500		Mexico City, Mex.

Bridgeport Broadcasting Station, Inc. Southern Equipment Co. Excelsior Cia Editorial		

### 1200 kilocycles 249.9 meters

CFCH	--	50		North Bay, Ont.
KBTM	--	100	D	Paragoula, Ark.
KFBJ	--	100	+	Marshalltown, Iowa
KFWF	--	100	5	St. Louis, Mo.
KGCU	--	100		Mandan, N. D.
KGDE	*	100	+	Fergus Falls, Minn.
KGDY	*	50	+	Huron, S. D.
KGEK	--	100	9	Yuma, Colo.
KGEW	--	100	9	Fort Morgan, Colo.
KGFJ	--	100		Los Angeles, Cal.
KGHI	--	100	---	Little Rock, Ark.
KGY	--	10	+	Lacey, Wash.
KMLB	--	50	D	Monroe, La.
KSMR	--	100	---	Santa Maria, Cal.
KVOS	*	100	---	Bellingham, Wash.
KWG	*	100	---	Stockton, Cal.
WABI	+	100	---	Bangor, Maine
WABZ	*	100	1	New Orleans, La.
WBBZ	*	100	---	Ponca City, Okla
WCAT	+	100	---	Rapid City, S. D.
WCAX	*	100	2	Burlington, Vt.
WCLO	+	100		Janesville, Wis.
WCOD	+	100	3	Harrisburg, Pa.
WEHC	*	100	+	Emory, Va.
WEPS	+	100	---	Worcester, Mass.
WFBC	*	50	---	Knoxville, Tenn.
WFBE	+	100	---	Cincinnati, Ohio
WHBC	+	10	4S	Canton, Ohio
WHBY	+	100		Green Bay, Wis.
WIBX	+	100		Utica, N. Y.
WIL	+	100	5+	St. Louis, Mo.
WJBC	*	100	6	La Salle, Ill.
WJBL	+	100	6	Decatur, Ill.
WJBW	+	100	1	New Orleans, La.
WKJC	+	100	3	Lancaster, Pa.
WLAP	+	100	+	Louisville, Ky.
WLBC	*	100	+	Petersburg, Va.
WNBO	*	100	4	Washington, Pa.
WNBW	+	10	---	Carbondale, Pa.
WNBX	+	10	---	Springfield, Vt.
WORC	*	100	CX	Worcester, Mass.
WRAF	*	100	8	La Porte, Ind.
WRBL	+	50	---	Columbus, Ga.
WWAE	--	100	8	Hammond, Ind.
XEA	+	101	---	Guadalajara, Jal.
10-BP	+	25	---	Wingham, Ont.

<i>WFA</i>		
Northern Supplies, Ltd. W. J. Beard's Temple of Music Marshall Electric Co., Inc. St. Louis Truth Center, Inc. Mandan Radio Association Jaren Drug Co. Voice of South Dakota Beehler Elec. Equipment Co. City of Fort Morgan Ben S. McGlashan Berean Bible Class St. Martin's College G. C. Liner Santa Maria Radio KVOS, Inc. Portable Wireless Tel. Co., Inc. Pine Tree Broadcasting Corp. Coliseum Place Baptist Church C. L. Carrell State School of Mines University of Vermont WCLO Radio Corp. Keystone Broadcasting Corp. Emory & Henry College Alfred Frank Kleindienst First Baptist Church WFBE, Inc. St. John's Catholic Church St. Norbert's College WIBX, Inc. Missouri Broadcasting Corp. Kaskaskia Broadcasting Co. Commodore Broadcasting, Inc. Charles C. Carlson, Jr. Kirk, Johnson & Co. American Broadcasting Corp. of Ky. Robert Allen Gamble John Brownlee Spriggs Home Cut Glass & China Co. First Congregational Church Alfred Frank Kleindienst Chas. Middleton David Parmar Hammond-Calumet Broad. Corp. Alberto Palos Sauza Radio & Electric Shop		

KCYS.  
**1200**  
MTRS.  
**249.9**  
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

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CFCO	--	100	---
CFNB	--	50	---
CHWK	†	5	---
CJOR	*	50	---
CKMC	--	15	---
CKPC	†	50	+
KDFN	†	100	---
KDLR	--	100	---
KFOR	--	100	+
KFVS	*	100	6
KFXM	†	100	9
KGCR	†	100	---
KGMP	§	100	---
KGNO	*	100	---
KMJ	§	100	---
KPPC	§	50	9
KWEA	*	100	---
WALR	*	100	---
WBAX	*	100	1
WCBS	*	100	2
WCOH	*	100	3
WCRW	*	100	4
WDWF	--	100	5
WEBQ	--	100	6
WEDC	--	100	4
WGBB	--	100	3
WGCM	*	100	---
WHBF	--	100	---
WHBU	†	100	---
WIBU	--	100	---
WJBI	--	100	3
WJBU	--	100	1
WJBY	*	50	---
WJW	*	100	---
WLCI	*	50	---
WLSI	--	100	5
WMBG	*	100	---
WMRJ	*	100	3
WOCL	*	25	---
WOMT	*	100	---
WPAW	*	100	5
WQDX	*	50	---
WRBQ	†	100	+
WSBC	*	100	4
WSEN	†	100	---
WSIX	--	100	---
WSOC	--	100	---
WTAX	†	100	2

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

Western Ontario "Better Radio" Clut  
 James S. Neill & Sons, Ltd.  
 Chilliwack Broadcasting Co., Ltd.  
 G. C. Chandler  
 R. L. MacAdam  
 Metal Shingle & Siding Co.  
 Donald Lewis Hathaway  
 KDLR, Inc.  
 Howard A. Shuman  
 Hirsch Battery & Radio Co.  
 J. C. & E. W. Lee  
 Cutler's Radio Brdcastg. Service, Inc.  
 Bryant Radio & Electric Co.  
 Dodge City Broadcasting Co.  
 James McClatchy Co.  
 Pasadena Presbyterian Church  
 Hello World Broadcasting Corp.  
 Roy. W. Waller  
 John H. Stenger, Jr.  
 H. L. Dewing & Chas. Messter  
 Westchester Broadcasting Corp.  
 Clinton R. White  
 Dutee W. Flint  
 First Trust & Savings Bank  
 Emil Denmark, Inc.  
 Harry H. Carman  
 Great Southern Land Co., Inc.  
 Beardsley Specialty Co.  
 Citizens Bank  
 Wm. C. Forrest  
 Monmouth Broadcasting Co.  
 Bucknell University  
 Gadsden Broadcasting Co., Inc.  
 Mansfield Broadcasting Assn.  
 Lutheran Assn. of Ithaca  
 The Lincoln Studios, Inc.  
 Havens & Martin, Inc.  
 Peter J. Prinz  
 A. E. Newton  
 Francis M. Kadow  
 Shartenburg & Robinson Co.  
 Stevens Luke  
 J. Pat. Scully  
 World Battery Co., Inc.  
 Columbus Broadcasting Co.  
 638 Tire & Vulcanizing Co.  
 A. J. Kirby Music Co.  
 WTAX, Inc.

1220 kilocycles 245.8 meters

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CMCA	--	100	1225
KFKU	*	500	1
KWSC	*	1000	+
WCAD	*	500	D
WCAE	*	1000	N
WDAE	*	1000	C
WREN	*	1000	1N

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

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

1230 kilocycles 243.8 meters

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

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

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

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CMKX	--	---	---
KTAT	†	1000	1
WACO	†	1000	1C
WXYZ	†	1000	C

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

S. A. T. Broadcast Co.  
 Central Texas Broadcasting Co., Inc.  
 Kunsky-Trendle Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1250 kilocycles 239.9 meters

207		
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KFMX	**	1000	2	Northfield, Minn.
KFOX	**	1000	---	Long Beach, Cal.
KIDO	**	1000	---	Boise, Idaho
WAAM	**	1000	1+X	Newark, N. J.
WCAL	*	1000	2	Northfield, Minn.
WDUS	**	1000	C	New Orleans, La.
WGCP	**	250	1	Newark, N. J.
WLB	†	1000	2	St. Paul, Minn.
WODA	**	1000	1	Paterson, N. J.
WRHM	**	1000	2	Minneapolis, Minn.

Carleton College  
Nichols & Warinner, Inc.  
Boise Broadcasting Station  
WAAM, Inc.  
St. Olaf College  
Jos. H. Uhalt  
May Radio Broadcast Corp.  
University of Minnesota  
Richard E. O'Dea  
Minnesota Broadcasting Corp.

1260 kilocycles 238.0 meters

207		
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KOIL	*	1000	C	Council Bluffs, Iowa
KRGV	*	500	1	Harlingen, Texas
KVOA	**	500	D	Tucson, Ariz.
KWWG	**	500	1	Brownsville, Texas
WLWB	*	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

207		
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KFUM	*	1000	---	Colorado Springs, Colo.
KGCA	**	50	2D	Decorah, Iowa
KOL	†	1000	3C	Seattle, Wash.
KTFW	**	1000	3	Seattle, Wash.
KWLC	*	100	2D	Decorah, Iowa
WASH	*	500	1	Grand Rapids, Mich.
WEAT	**	1000	D	Ithaca, N. Y.
WFBR	**	500	---	Baltimore, Md.
WJDX	**	1000	N	Jackson, Miss.
WOOD	**	500	1	Grand Rapids, Mich.

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

1280 kilocycles 234.2 meters

207		
-----	--	--

CMCH	--	15	1285	Havana, Cuba
KFBW	--	1000	+	Great Falls, Mont.
WCAM	--	500	1	Camden, N. J.
WCAP	*	500	1	Asbury Park, N. J.
WDOD	**	1000	+C	Chattanooga, Tenn.
WIBA	*	500	---	Madison, Wis.
WOAX	--	500	1--	Trenton, N. J.
WRR	--	500	C	Dallas, Texas

Hernani Torralbas  
Buttrely Broadcast, Inc.  
City of Camden  
Radio Industries Broadcast Co.  
WDOD Broadcasting Corp.  
Capital Times Co.  
WOAX, Inc.  
City of Dallas

1290 kilocycles 232.4 meters

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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.  
Will H. Ford  
C. L. Lintzenich  
Lone Star Broadcast Co.  
Head of Lake Broadcasting Co.  
Pittsburgh Radio Supply House  
Smith & Mace

1300 kilocycles 230.6 meters

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KFH	*	1000	2C	Wichita, Kansas
KFJR	*	500	3	Portland, Ore.
KGEF	**	1000	4	Los Angeles, Cal.
KTBI	*	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.

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

1310 kilocycles 228.9 meters

207		
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KCRJ	†	100	---	Jerome, Ariz.
KFBK	†	100	---	Sacramento, Cal.
KFGQ	†	100	7	Boone, Iowa
KFIU	**	10	---	Juneau, Alaska
KFJY	**	100	7	Ft. Dodge, Iowa

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

KCYS.  
1310  
MTRS.  
228.9  
DIAL

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

KFPL	†	100	---	Dublin, Texas	C. C. Baxter
KFPF	*	15	---	Greenville, Texas	The New Furniture Co.
KFPV	--	100	8	Denver, Colo.	Fitzsimmons General Hospital
KFXJ	--	50	8X <sup>Y</sup>	Edgewater, Colo.	Western Slope Broadcasting Co.
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	C	Kalispell, Mont.	Chamber of Commerce
KGFW	†	100	---	Ravenna, Neb.	Central Nebraska Broadcasting Corp.
KIT	†	50	---	Yakima, Wash.	Carl E. Haymond
KMED	†	50	---	Medford, Ore.	Mrs. W. J. Virgin
KRMD	†	50	9	Shreveport, La.	Robert M. Dean
KTLC	*	100	X	Houston, Tex.	Houston Broadcasting Co.
KTSL	†	100	9	Shreveport, La.	G. A. Houseman
KTSM	*	100	2	El Paso, Texas	W. S. Bledsoe & W. T. Blackwell
KWCR	†	100	7	Cedar Rapids, Iowa	Harry F. Paar
KXRO	†	75	---	Aberdeen, Wash.	KXRO, Inc.
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	Eagle Broadcasting Co.
WEBR	*	100	+	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WEXL	†	50	---	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG	*	100	3	Altoona, Pa.	Wm. F. Gable Co.
WFDF	*	100	---	Flint, Mich.	Frank D. Fallain
WGAL	*	100	5	Lancaster, Pa.	WGAL, Inc.
WGH	*	100	C	Newport News, Va.	Hampton Roads Broadcasting Corp.
WHAT	†	100	4X	Philadelphia, Pa.	Independence Broadcasting Co.
WJAC	*	100	3	Johnstown, Pa.	Johnstown Automobile Co.
WJAK	*	50	6	Marion, Ind.	Marion Broadcasting Co.
WKAV	*	100	---	Laconia, N. H.	Laconia Radio Club
WKBB	*	100	1	Joliet, Ill.	Sanders Bros. 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.	Radio Service Laboratories
WNBH	*	100	---	New Bedford, Mass.	New Bedford Broadcasting Co.
WOBT	†	100	+	Union City, Tenn.	Tittsworth's Radio & Music Shop
WOL	*	100	---	Washington, D. C.	American Broadcasting Co.
WRAW	*	50	5XZ	Reading, Pa.	Reading Broadcasting Co.
WRBI	--	20	---	Tifton, Ga.	Kent's Furniture & Music Store
WROL	†	100	---	Knoxville, Tenn.	Stewart Broadcasting Co.
WSAJ	*	100	---	Grove City, Pa.	Grove City College
WSJS	†	100	---	Winston-Salem, N. C.	Winston-Salem Journal Co.
WTEL	*	50	4X	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
-----	---	100	CP	Marquette, Mich.	C. C. McLeod

### 1320 kilocycles 227.1 meters

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

### 1330 kilocycles 225.4 meters

KGB	*	250	X	San Diego, Cal.	Pickwick Broadcasting Corp.
KSCJ	*	1000	1+C	Sioux City, Iowa	Perkins Bros. Co.
WDRG	*	500	C	Hartford, Conn.	Doolittle Radio Corp.
WSAI	*	500	N	Cincinnati, Ohio	Crosley Radio Corp., Lessee
WTAQ	*	1000	1C	Eau Claire, Wis.	Gillette Rubber Co.

### 1340 kilocycles 223.7 meters

KFPW	--	50	D	Fort Smith, Ark.	Southwestern Hotels Co.
KFPY	*	1000	C	Spokane, Wash.	Symons Broadcasting Co.
WCOA	*	500	---	Pensacola, Fla.	City of Pensacola
WSPD	*	500	C+	Toledo, Ohio	Toledo Broadcasting Co.

### 1350 kilocycles 222.1 meters

CMJC	--	---	---	Camaguey, Cuba	Greater St. Louis Broadcasting Corp.
KWK	*	1000	N	St. Louis, Mo.	Pillar of Fire
WAWZ	*	250	1	New York City	Italian Educ. Broadcasting Co., Inc.
WCDA	--	250	1	New York City	Standard Cahill Co., Inc.
WKBQ	--	250	1	New York City	Madison Sq. Garden Brdcstg. Corp.
WMSC	--	250	1	New York City	



INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

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

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

1370 kilocycles 218.7 meters

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KCRC	†	100	2+	Enid, Okla.
KFBL	†	50	3	Everett, Wash.
KFJI	†	100	---	Astoria, Ore.
KFJM	†	100	---	Grand Forks, N. D.
KFJZ	*	100	X	Ft. Worth, Texas
KFLX	*	100	---	Galveston, Texas
KGAR	*	100	+	Tucson, Ariz.
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, Tex.
KONO	†	100	5	San Antonio, Texas
KOOS	*	100	---	Marshfield, Ore.
KRE	--	100	6	Berkeley, Cal.
KVL	--	100	3	Seattle, Wash.
KWKC	--	100	---	Kansas City, Mo.
KZM	*	100	6	Hayward, Cal.
WBGF	†	50	---	Glens Falls, N. Y.
WBTM	†	100	7	Danville, Va.
WCBM	--	100	+Z	Baltimore, Md.
WELK	--	100	+	Philadelphia, Pa.
WFDV	--	100	---	Rome, Ga.
WGL	*	100	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.
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	*	50	---	Williamsport, Pa.
WRBJ	†	10	---	Hattiesburg, Miss.
WRBT	*	100	---	Wilmington, N. C.
WRJN	--	100	---	Racine, Wis.
WSVS	*	50	---	Buffalo, N. Y.
WRDO	§	100	CP	Augusta, Me.

Champlin Refining 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.
W. E. Whitmore
KGKL, Inc., Opr. by Ragsdale Auto
W. W. McAllister
Mission Broadcasting Co.
H. H. Hanseth, Inc.
First Congregational Church
KVL, Inc.
Wilson Duncan Broadcasting Co.
Leon P. Tenney
W. N. Parker and H. H. Metcalfe
Clarke Electric Co.
Baltimore Broadcasting Corp.
WELK Broadcasting Station, Inc.
Dolies Goings
Fred C. Zieg
F. P. Moler
Broadcasting Station WHBQ, Inc.
Upper Michigan Broadcasting Co.
WIBM, Inc.
James F. Hopkins, Inc.
Lexington Air Stations
Lynchburg Broadcasting Corp.
F. J. Reynolds
Nassau Broadcasting Corp.
A. J. St. Antoine
C. R. Cummins
Woodruff Furniture Co., Inc.
Wilmington Radio Association
Racine Broadcasting Corp.
Seneca Vocational School
Albert S. Woodson

1380 kilocycles 217.3 meters

<i>not</i>		
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KOH	†	500	---	Reno, Nevada
KQV	†	500	2	Pittsburgh, Pa.
KSO	*	500	1	Clarinda, Iowa
WKBH	*	1000	1	La Crosse, Wis.
WSMK	--	200	2	Dayton, Ohio

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

KCYS.  
1390  
MTRS.  
215.7  
DIAL

1390 kilocycles 215.7 meters

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

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

CUT OUT ON  
DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1400 kilocycles 214.2 meters

CMBY	--	200	1405	Havana, Cuba
KLO	*	500	X	Ogden, Utah
KOCW	*	250	+	Chickasha, Okla.
WBAA	†	500	1+	Lafayette, Ind.
WBBC	*	500	2	Brooklyn, N. Y.
WCGU	*	500	2	Brooklyn, N. Y.
WCMA	†	500	1	Culver, Ind.
WFOX	--	500	2	Brooklyn, N. Y.
WKBF	*	500	1	Indianapolis, Ind.
WLTH	*	500	2	Brooklyn, N. Y.
WSDA	--	500	2	Brooklyn, N. Y.

WCH	
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Lino E. Cosculluela  
Peery Building Co.  
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.  
Paramount Broadcasting Co.

1410 kilocycles 212.6 meters

KFLV	†	500	4	Rockford, Ill.
KGRS	*	1000	1	Amarillo, Texas
WBCM	*	500	C	Bay City, Mich.
WDAG	*	250	1X	Amarillo, Texas
WHBL	*	500	4	Sheboygan, Wis.
WHIS	†	250	---	Bluefield, W. Va.
WLEX	--	500	2	Lexington, Mass.
WODX	*	500	3	Mobile, Ala.
WRBX	*	250	---	Roanoke, Va.
WSFA	†	500	3	Montgomery, Ala.
WSSH	†	500	2	Boston, Mass.

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Rockford Broadcasters, Inc.  
Gish Radio Service  
James E. Davidson  
National Radio & Broadcasting Corp.  
Press Pub. Co.  
Daily Telegraph  
Lexington Air Stations  
Mobile Broadcasting Corp.  
Richmond Development Corp.  
Montgomery Broadcasting Co., Inc.  
Tremont Temple Baptist Church

1420 kilocycles 211.1 meters

KBPS	--	100	4	Portland, Ore.
KFIZ	*	100	---	Fond du Lac, Wis.
KFOU	*	100	5X	Holy City, Cal.
KFQW	--	100	---	Seattle, Wash.
KFXD	*	100	XY	Nampa, Idaho
KFXV	--	100	---	Flagstaff, Ariz.
KFYU	†	100	+	Abilene, Texas
KGFF	--	100	Y	Alva, Okla.
KGGC	†	100	5	San Francisco, Cal.
KGIW	--	100	---	Trinidad, Colo.
KGIX	†	100	---	Las Vegas, Nevada
KGKX	--	100	---	Sand Point, Idaho
KGVO	--	100	CPD	Missoula, Mont.
KICK	*	100	---	Red Oak, Iowa
KLPM	†	100	---	Minot, North Dakota
KORE	--	100	---	Eugene, Ore.
KTAP	†	100	---	San Antonio, Texas
KXL	--	100	4	Portland, Ore.
KXYZ	--	100	X	Houston, Texas
WEDH	*	100	---	Erie, Pa.
WEHS	--	100	2	Cicero, Ill.
WELL	†	50	X	Battle Creek, Mich.
WFDW	*	100	---	Talladega, Ala.
WHDL	*	10	DX	Tupper Lake, N. Y.
WHFC	--	100	2	Cicero, Ill.
WIAS	†	100	---	Ottumwa, Iowa
WIBR	*	50	---	Stuebenville, Ohio
WILM	*	100	---	Wilmington, Del.
WJBO	*	100	---	New Orleans, La.
WKBI	*	100	2	Chicago, Ill.
WLBF	--	100	---	Kansas City, Kas.
WMBG	--	100	X+	Detroit, Mich.
WMBH	--	100	+	Joplin, Mo.
WPAD	†	100	---	Paducah, Ky.
WSPA	*	100	+	Spartanburg, S. C.
WTBO	*	100	---	Cumberland, Md.

WCH	
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Benson Polytechnic Institute  
Reporter Printing Co.  
W. E. Riker  
KFQW, Inc.  
Service Radio Co.  
Mary M. Costigan  
T. E. Kirksey  
KGFF Broadcasting Co.  
Golden Gate Broadcasting Co.  
Leonard E. Wilson  
Las Vegas, Nevada, Radio Corp.  
C. E. Twiss and F. H. McCann  
Mosby's Incorporate  
Red Oak Radio Corp.  
John B. Cooley  
Eugene Broadcasting Station  
Alamo Broadcasting Co.  
KXL Broadcasters, Inc.  
Harris County Broadcast Co.  
Erie Dispatch-Herald  
WEHS, Inc.  
Enquirer-News Co.  
Raymond G. Hammett  
Tupper Lake Broadcasting Co., Inc.  
Triangle Broadcasters  
Iowa Broadcasting Co.  
George W. Robinson  
Delaware Broadcasting Co., Inc.  
Valdemar Jensen  
Fred L. Schoenwolf  
WLBF Broadcasting Co.  
Michigan Broadcasting Co., Inc.  
Edwin Dudley Aber  
Paducah Broadcasting Co.  
Voice of South Carolina  
Associated Broadcasting Corp.

1430 kilocycles 209.7 meters

KECA	†	1000	N	Los Angeles, Cal.
KGNF	†	500	D	North Platte, Neb.
WBAK	†	500	1X+	Harrisburg, Pa.
WCAH	†	500	1C	Columbus, Ohio
WGBC	*	500	2S	Memphis, Tenn.
WHP	*	500	1C+	Harrisburg, Pa.
WNBR	*	500	2	Memphis, Tenn.

WCH	
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Pacific Development Radio Co.  
Great Plains Broadcasting Co.  
Penna. State Police  
Commercial Radio Service Co.  
Memphis Broadcasting Co.  
Pennsylvania Broadcasting Co.  
Memphis Broadcasting Co.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1440 kilocycles 208.2 meters

KLS	*	250	D
WBIG	*	500	---
WCBA	--	250	1
WHEC	--	500	2C
WMBO	*	500	3+
WOKO	*	500	2Y
WSAN	*	250	1
WTAD	†	500	3

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

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Warner Bros.  
North Carolina Broadcasting Co.  
B. B. Musselman  
Hickson Electric & Radio Corp.  
Peoria Heights Radio Laboratory  
WOKO, Inc.  
Allentown Call Publishing Co., Inc.  
Ills. Stock Medicine Broadcasting Co.

### 1450 kilocycles 206.8 meters

KTBS	*	1000	---
WBMS	*	250	1
WGAR	†	500	N
WHOM	*	250	1
WKBO	*	250	1
WNJ	*	250	1
WSAR	*	250	---
WTFI	--	500	D

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

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

### 1460 kilocycles 205.4 meters

KSTP	*	10000	NX
WJSV	*	10000	---

St. Paul, Minn.  
Alexandria, Va.

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National Battery Broadcasting Co.  
Independent Publishing Co.

### 1470 kilocycles 204.0 meters

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

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

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

### 1480 kilocycles 202.6 meters

KFJF	*	5000	C
WKBW	*	5000	C

Oklahoma City  
Buffalo, N. Y.

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

### 1490 kilocycles 201.2 meters

WCHI	*	5000	1
WKY	*	5000	1N
WJAZ	--	5000	1

Chicago, Ill.  
Covington, Ky.  
Chicago, Ill.

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

### 1500 kilocycles 199.9 meters

KDB	*	100	---
KGFI	*	100	+
KGFK	†	50	---
KGIZ	--	50	---
KGKB	*	100	---
KGKY	*	100	---
KPJM	*	100	---
KPO	†	50	---
KREG	†	100	---
KUJ	--	100	Y
KUT	†	100	---
KXO	--	100	---
WCLB	--	100	1
WDLX	--	100	---
WKBV	*	100	+
WKBZ	†	50	---
WLBX	*	100	1
WLOE	*	100	+
WMBA	--	100	---
WMBJ	†	100	---
WMBQ	*	100	1
WMPC	†	100	---
WNB	*	100	---
WOP	--	100	---
WPEN	*	100	+
WRDW	*	100	---
WURL	*	100	1
WSYB	†	100	CP

Santa Barbara, Cal.  
Corpus Christi, Texas  
Moorhead, Minn.  
Grant City, Mo.  
Brownwood, Texas  
Scottsbluff, Nebr.  
Frescott, Ariz.  
Wenatchee, Wash.  
Santa Ana, Cal.  
Longview, Wash.  
Austin, Texas  
El Centro, Cal.  
Long Beach, N. Y.  
Tupelo, Miss.  
Connersville, Ind.  
Ludington, Mich.  
Long Island City, N. Y.  
Boston, Mass.  
Newport, R. I.  
Pittsburgh, Pa.  
Brooklyn, N. Y.  
Lapeer, Mich.  
Binghamton, N. Y.  
Bristol, Tenn.  
Philadelphia, Pa.  
Augusta, Ga.  
Woodside, N. Y.  
Rutland, Vt.

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Dwight Faulding  
Eagle Broadcasting Co., Inc.  
Red River Broadcasting Co., Inc.  
Grant City Park Corp.  
Eagle Publishing Co.  
Hilliard Co., Inc.  
Miller & Klahn  
Wescoast Broadcasting Co.  
Pacific Western Broadcasting  
Columbia Broadcasting Co., Inc.  
Driskill Hotel  
E. R. Irey and F. M. Bowles  
Arthur Faske  
North Mississippi Broadcasting Corp.  
Knox Battery & Electric Co.  
K. L. Ashbacker  
John N. Brahy  
Boston Broadcasting Co.  
LeRoy Joseph Beebe  
Rev. J. W. Sproul  
Paul J. Gollhofer  
First M. P. Church  
Howitt-Wood Radio Co., Inc.  
Radiophone Brdcastg. Station, Inc.  
Wm. Penn Broadcasting Co.  
Warren C. Davenport's Musicove, Inc.  
Long Island Broadcasting Corp.  
Seward & Weiss Music Co.

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

INDEX BY LOCATIONS WITH MAP KEY

<b>ALABAMA</b>			
Birmingham O-21	500	WAPI	1140
	500	WBRC	930
	100	WKBC	1310
Gadsden O-21	50	WJBY	1210
Mobile O-20	500	WODX	1410
Montgomery P-21	500	WSFA	1410
Talladega O-21	100	WFDW	1420
<b>ALASKA</b>			
Anchorage	100	KFOD	1230
Juneau	10	KFIU	1310
Ketchikan	500	KGBU	900
<b>ARIZONA</b>			
Flagstaff M-7	100	KFXY	1420
Jerome M-6	100	KCRJ	1310
Phoenix N-6	500	KOY	1390
	500	KTAR	620
Prescott M-6	100	KPJM	1500
	100	KGAR	1370
Tucson O-7	500	KVOA	1260
<b>ARKANSAS</b>			
Blytheville M-19	50	KLCN	1290
Fayetteville M-16	1000	KUOA	1390
Fort Smith N-16	50	KFPW	1340
Hot Springs N-17	10000	KTHS	1040
Little Rock N-17	100	KGHI	1200
	250	KGJF	890
	1000	KLRA	1390
Paragould M-18	100	KBTM	1200
<b>CALIFORNIA</b>			
Berkeley J-2	100	KRE	1370
Burbank M-3	500	KELW	780
Culver City M-3	250	KFVD	1000
El Centro N-4	100	KXO	1500
Fresno K-2	100	KMJ	1210
Hayward J-1	100	KZM	1370
Hollywood M-3	1000	KFWB	950
	5000	KNX	1050
Holy City K-1	100	KFOU	1420
Inglewood M-3	500	KMIC	1120
Long Beach M-3	1000	KFOX	1250
	1000	KGER	1360
Los Angeles M-3	1000	KECA	1430
	5000	KFI	640
	500	KFSG	1120
	1000	KGEF	1300
	100	KGFJ	1200
	1000	KHJ	900
	500	KMPC	710
	500	KMTR	570
	500	KTM	780
	1000	KTBI	1300
Oakland J-1	250	KLS	1440
	500	KLX	880
	500	KROW	930
Pasadena M-3	50	KPPC	1210
	1000	KPSN	1360
Sacramento J-2	100	KFBK	1310
San Bernardino M-3	100	KFXM	1210
San Diego N-3	500	KFSD	600
	250	KGB	1330
San Francisco J-1	1000	KFRC	610
	500	KFWI	930
	100	KGCC	1420
	7500	KGO	790
	100	KJBS	1070
	5000	KPO	680
	1000	KTAB	560
	1000	KYA	1230
San Jose J-1	500	KQW	1010
Santa Ana M-3	100	KREG	1500
Santa Barbara M-2	100	KDB	1500
Santa Maria L-2	100	KSMR	1200
Stockton J-2	250	KGDM	1100
	100	KWG	1200
<b>CANAL ZONE</b>			
Balboa FF-26	750	NBA	850
<b>COLORADO</b>			
Colorado Springs K-11	1000	KFUM	1270
Denver K-11	500	KFEL	920
	100	KFUP	1310
	500	KFXF	920
	1000	KLZ	560
	12500	KOA	830
	500	KPOF	880
Edgewater K-10	50	KFXJ	1310
Fort Morgan J-11	100	KGEW	1200
Greeley J-11	500	KFKA	880
Pueblo L-11	250	KGHF	1320
Trinidad L-11	100	KGIV	1420
Yuma J-12	50	KGEK	1200
<b>CONNECTICUT</b>			
Bridgeport H-27	500	WICC	1190
Hartford H-27	500	WDRG	1330
	5000	WTIC	1060
Storrs H-28	250	WCAC	600
<b>DELAWARE</b>			
Wilmington J-26	250	WDEL	1120
	100	WILM	1420
<b>DISTRICT OF COLUMBIA</b>			
Washington J-26	250	WMAL	630
	500	WRC	950
	100	WOL	1310
<b>FLORIDA</b>			
Clearwater R-24	1000	WFLA	620
Gainesville Q-24	5000	WRFU	830
Jacksonville Q-24	1000	WJAX	900
Miami T-25	1000	WQAM	560
Miami T-25	1000	WIOD	1300
Orlando R-24	500	WDBO	1120
Pensacola Q-21	500	WCOA	1340
St. Petersburg S-24	1000	WSUN	620
Tampa R-24	1000	WDAE	1220
	100	WMBR	1370
<b>GEORGIA</b>			
Atlanta O-22	250	WGST	890
	5000	WSB	740
Augusta O-23	100	WRDW	1500
Columbus O-22	50	WRBL	1200
Macon O-23	250	WMAZ	890
Rome N-22	100	WFDV	1370
Savannah O-24	500	WTOG	1260
Thomasville Q-22	50	WQDX	1210
Tifton P-23	20	WRBI	1310
Toccoa N-23	500	WTFI	1450
<b>HAWAII</b>			
Honolulu	500	KGMB	1320
	1000	KGU	940
<b>IDAHO</b>			
Boise G-5	1000	KIDO	1250
Idaho Falls G-7	250	KID	1320
Nampa G-5	50	KFXD	1420
Pocatello H-7	250	KSEI	900
Sand Point D-6	100	KGKX	1420
Twin Falls H-6	250	KGIQ	1320

## INDEX BY LOCATIONS WITH MAP KEY

ILLINOIS		Watts	Kcys.				
Carthage J-18	50	WCAZ	1070	Ottumwa J-17	100	WIAS	1420
Chicago I-20	10000	KFKX	1020	Red Oak J-16	100	KICK	1420
	10000	KY W	1020	Shenandoah J-16	500	KFNF	890
	500	WAAF	920		500	KMA	930
	25000	WBBM	770	Sioux City I-15	1000	KSCJ	1330
	1500	WCFL	970	Waterloo I-17	500	WMT	600
	5000	WCHI	1490	<b>KANSAS</b>			
	100	WCRW	1210	Dodge City L-13	100	KGNO	1210
	100	WEDC	1210	Kansas City K-16	100	WLB F	1420
	50000	WENR	870	Lawrence K-16	500	KFKU	1220
	500	WGES	1360		1000	WREN	1220
	25000	WGN	720	Manhattan K-15	500	KSAC	580
	1000	WIBO	560	Milford K-14	5000	KFKB	1050
	5000	WJAZ	1490	Topeka K-16	1000	WIBW	580
	25000	WJBT	770	Wichita L-15	1000	KFH	1300
	100	WKBI	1420	<b>KENTUCKY</b>			
	5000	WLS	870	Covington K-22	5000	WCKY	1490
	5000	WMAQ	670	Hopkinsville M-20	1000	WFIW	940
	5000	WMBI	1080	Louisville L-21	10000	WLAP	1200
	500	WPCC	560		100	WPAD	1420
Cicero I-20	100	WABC	1210	Paducah M-19	100	WPAD	1420
	100	WEHS	1420	<b>LOUISIANA</b>			
Decatur K-19	100	WHFC	1420	Monroe P-18	50	KMLB	1200
	100	WJBL	1200	New Orleans R-19	100	WABZ	1200
Galesburg J-18	100	WKBS	1310		1000	WDSU	1250
Harrisburg L-19	100	WEBQ	1210		100	WJBO	1420
Joliet I-19	100	WCLS	1310		100	WJBW	1200
	100	WKBB	1310		500	WSMB	1320
La Salle J-19	100	WJBC	1200		5000	WWL	850
Mooseheart I-19	20000	WJJD	1130	Shreveport P-17	50	KRMD	1310
Peoria Heights J-19	500	WMBD	1440		1000	KTBS	1450
Quincy K-18	500	WTAD	1440		100	KTSL	1310
Rockford I-19	500	KFLV	1410		100	KWEA	1210
Rock Island I-18	100	WHBF	1210		10000	KWKH	850
Springfield K-19	100	WCBS	1210	<b>MAINE</b>			
	100	WTAX	1210	Augusta F-28	100	WRDO	1370
Tuscola K-20	100	WDZ	1070	Bangor F-29	100	WABI	1200
Urbana J-20	250	WILL	890		500	WLBZ	620
Zion I-20	5000	WCBD	1080	Portland F-28	1000	WCSH	940
<b>INDIANA</b>				<b>MARYLAND</b>			
Anderson J-21	100	WHBU	1210	Baltimore J-26	10000	WBAL	1060
Connersville K-21	100	WKBV	1500		250	WCAO	600
Culver I-20	500	WCMA	1400		100	WCBM	1370
Evansville L-20	500	WGBF	630		500	WFBR	1270
Fort Wayne J-21	100	WGL	1370	Cumberland J-25	100	WTBO	1420
	10000	WQWO	1160	<b>MASSACHUSETTS</b>			
Gary I-20	1000	WJKS	1360	Boston G-28	1000	WBIS	1230
Hammond I-20	100	WWAE	1200		1000	WEEI	590
Indianapolis J-21	1000	WFBM	1230		1000	WHDH	830
	500	WKBF	1400		100	WLOE	1500
Lafayette J-20	500	WEAA	1400		1000	WNAC	1230
La Porte I-20	100	WRAF	1200		500	WSSH	1410
Marion J-21	50	WJAK	1310	Fall River H-28	250	WSAR	1450
Muncie J-21	50	WLCB	1310	Lexington G-28	500	WLEX	1410
South Bend I-20	500	WSBT	1230		100	WLEY	1370
Terre Haute K-20	100	WBOW	1310	New Bedford H-28	100	WNBH	1310
<b>IOWA</b>				Springfield H-27	15000	WBZ-A	990
Ames I-17	5000	WGI	640	Needham G-28	500	WBSO	920
Boone I-17	100	KFGQ	1310	Worcester G-28	100	WEPS	1200
Cedar Rapids I-18	100	WKCR	1310		100	WORC	1200
Clarinda J-16	500	KSO	1380		250	WTAG	580
Council Bluffs J-16	1000	KOIL	1260	<b>MICHIGAN</b>			
Davenport I-18	5000	WOC	1000	Battle Creek I-21	50	WELL	1420
Decorah H-18	100	KGCA	1270	Bay City H-22	500	WBCM	1410
	100	KWLC	1270	Berrien Springs I-20	1000	WKZO	590
Des Moines I-17	5000	WHO	1000	Calumet E-19	100	WHDF	1370
Fort Dodge I-16	100	KFIY	1310				
Iowa City I-18	500	WSUI	880				
Marshalltown I-17	100	KFBI	1200				
Muscatine J-18	5000	KTNT	1170				

## INDEX BY LOCATIONS WITH MAP KEY

Detroit H-22	50	WJBK	1370
	5000	WJR	750
	100	WMBC	1420
	1000	WWJ	920
	1000	WXYZ	1240
East Lansing H-21	1000	WKAR	1040
Flint H-22	100	WFDF	1310
	100	WFDF	1200
Grand Rapids H-21	500	WASH	1270
	500	WOOD	1270
Jackson I-21	100	WIBM	1370
Lapeer H-22	100	WMPC	1500
Ludington H-20	50	WKBB	1500
Marquette F-19	100	-----	1310
Royal Oak H-22	50	WEXL	1310
<b>MINNESOTA</b>			
Fergus Falls F-15	100	KGDE	1200
Minneapolis G-17	7500	WCCO	810
	1000	WDGY	1180
	500	WHDI	1180
	1000	WRHM	1250
Moorhead F-15	50	KGFK	1500
Northfield G-17	1000	KFMX	1250
	1000	WCAL	1250
St. Paul G-17	1000	WLB	1250
	10000	KSTP	1460
<b>MISSISSIPPI</b>			
Greenville O-19	100	WRBQ	1210
Gulfport Q-19	100	WGCM	1210
Hattiesburg Q-19	10	WRBJ	1370
Jackson P-19	1000	WJDX	1270
Meridian P-20	500	WCOC	880
Tupelo N-20	100	WDIX	1500
Vicksburg P-18	300	WQBC	1360
<b>MISSOURI</b>			
Cp. Girardeau L-19	100	KFVS	1210
Columbia K-17	500	KFRU	630
Grant City J-16	50	KGIZ	1500
Jefferson City L-17	500	WOS	630
Joplin M-16	100	WMBH	1420
Kansas City K-16	1000	KMBC	950
	100	KWKC	1370
	1000	WDAF	610
	500	WHB	860
	1000	WOQ	1300
St. Joseph K-16	2500	KFEQ	680
	100	KGBX	1310
St. Louis L-18	500	KFUO	550
	100	KFWF	1200
	50000	KMOX	1090
	500	KSD	550
	1000	KWK	1350
	1000	WEW	760
	100	WIL	1200
<b>MONTANA</b>			
Billings F-9	1000	KGHL	950
Butte F-7	500	KGIR	1360
Great Falls E-8	1000	KFBB	1280
Kalispell D-7	100	KGEB	1310
Missoula E-7	100	KGVO	1420
Wolf Point E-11	100	KGCX	1310
<b>NEBRASKA</b>			
Clay Center	1000	KMMJ	740
Lincoln J-15	5000	KFAB	770
	100	KFOR	1210
	500	WCAJ	590
Norfolk I-15	1000	WJAG	1060
North Platte J-13	500	KGNF	1430
Omaha J-15	500	WAAW	660
	1000	WOW	590
Ravenna J-14	100	KGFW	1310
Scottsbluff I-11	100	KGKY	1500
York J-15	500	KGBZ	930

<b>NEVADA</b>		Watts	Keys.
Las Vegas L-5	100	KGIX	1420
Reno I-3	500	KOH	1380
<b>NEW HAMPSHIRE</b>			
Laconia G-28	100	WKAV	1310
<b>NEW JERSEY</b>			
Asbury Park I-27	500	WCAP	1280
Atlantic City J-27	5000	WPG	1100
Camden I-26	500	WCAM	1280
Hackensack I-27	250	WBMS	1450
Jersey City I-27	300	WAAT	940
	250	WHOM	1450
	250	WKBO	1450
Newark I-27	1000	WAAM	1250
	250	WGCP	1250
	250	WNJ	1450
	5000	WOR	710
Paterson I-27	1000	WODA	1250
Red Bank I-27	100	WJBI	1210
Trenton I-26	500	WOAX	1280
<b>NEW MEXICO</b>			
Albuquerque N-7	250	KGGM	1230
Raton M-11	50	KGFL	1370
State College P-9	20000	KOB	1180
<b>NEW YORK</b>			
Auburn H-25	100	WMBO	1310
Binghamton H-26	100	WNBF	1500
Brooklyn I-27	500	WBBC	1400
	1000	WBRR	1300
	500	WCGU	1400
	500	WFOX	1400
	500	WLTH	1400
	100	WMBQ	1500
	500	WSDA	1400
Buffalo H-24	1000	WBEN	900
	100	WEBR	1310
	1000	WGR	550
	5000	WKBW	1480
	1000	WMAK	1040
	50	WSVS	1370
Canton F-26	500	WCAD	1220
Freeport I-27	100	WGBB	1210
Glens Falls G-27	50	WBGF	1370
Ithaca H-25	1000	WEAI	1270
	50	WLCI	1210
Jamaica H-27	100	WMRJ	1210
Jamestown H-24	25	WOCL	1210
Long Island City I-27	100	WLBX	1500
Long Beach I-27	100	WCLB	1500
New York City I-27	5000	WABC	860
	250	WAWZ	1350
	5000	WBQ	860
	250	WCDA	1350
	50000	WEAF	660
	500	WEVD	1300
	250	WGBS	600
	1000	WHAP	1300
	250	WHN	1010
	30000	WIZ	760
	250	WKBO	1350
	5000	WLWL	1100
	500	WMSA	570
	250	WMSG	1350
	500	WNYC	570
	1000	WVJ	1130
	250	WPAP	1010
	500	WFCH	810
	250	WQAO	1010
	250	WRNY	1010

## INDEX BY LOCATIONS WITH MAP KEY

Patchogue I-27	100	WPOE	1370
Poughkeepsie H-27	500	WOKO	1440
Rochester G-25	5000	WHAM	1150
	500	WHEC	1440
Saranac Lake F-26	50	WNBZ	1290
Schenectady G-27	50000	WGY	790
Syracuse G-25	1000	WFBF	1360
	250	WMAC	570
	250	WSYR	570
Troy G-27	500	WHAZ	1300
Tupper Lake F-26	10	WHDL	1420
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	WRBT	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	1200
Minot E-13	100	KLPM	1420

### OHIO

Akron I-23	1000	WADC	1320
Canton I-23	10	WHBC	1200
Cincinnati K-22	100	WBFE	1200
	1000	WKRC	550
	50000	WLW	700
Cleveland I-23	500	WSAI	1330
	500	WGAR	1450
	1000	WHK	1390
	500	WJAY	610
Columbus J-22	50000	WTAM	1070
	500	WAIU	640
	500	WCAH	1430
	750	WEAO	570
	100	WSEN	1210
Dayton J-22	200	WSMK	1380
Mansfield J-22	100	WJW	1210
Mount Orab K-22	100	WHBD	1370
Steubenville J-23	50	WBR	1420
Toledo I-22	500	WSPD	1340
Youngstown I-23	500	WKBN	570
Zanesville J-23	100	WALR	1210

### OKLAHOMA

Alva M-14	100	KGFF	1420
Chickasha N-14	250	KOCW	1400
Elk City N-13	100	KGMP	1210
Enid M-15	100	KCRC	1370
Norman N-15	500	WNAD	1010
Oklahoma N-15	5000	KFJF	1480
	100	KFXR	1310
	100	KGFG	1370
	1000	WKY	900
Ponca City M-15	100	WBBZ	1200
S. Coffeyville M-16	500	KGGF	1010
Tulsa M-16	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	50	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
	100	WFBG	1310
Altoona I-25	10	WNBW	1200
Carbondale H-26	50	WIBG	930
Elkins Park I-26	10	WEDH	1420
Erie H-24	30	WEDH	1420
Grove City I-26	100	WSAJ	1310
Harrisburg I-25	500	WBAA	1430
	100	WCOD	1200
	500	WHP	1430
Johnstown J-24	100	WJAC	1310
Lancaster I-25	100	WGAL	1310
	100	WKJC	1200
	100	WJBU	1210
Lewisburg I-26	100	WLBW	1260
Oil City I-24	500	WLBW	1260
Philadelphia I-26	10000	WCAU	1170
	1000	WELK	1370
	500	WFAN	610
	500	WFI	560
	100	WHAT	1310
	500	WIP	610
	500	WLIT	560
	100	WPEN	1500
	250	WRAX	1020
	50	WTEL	1310
Pittsburgh J-24	50000	KDKA	980
	500	KQV	1380
	1000	WCAE	1220
	1000	WJAS	1290
	100	WMBJ	1500
Reading I-26	50	WRAW	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
State College I-25	500	WPSC	1230
Washington J-24	100	WNBO	1200
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	50	WRAC	1370

### PORTO RICO

San Juan W-34	500	WKAQ	890
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### RHODE ISLAND

Newport H-28	100	WMBA	1500
Pawtucket H-28	100	WPAW	1210
Providence H-28	100	WDWF	1210
	250	WEAN	780
	250	WJAR	890
	100	WLSI	1210

### SOUTH CAROLINA

Charleston O-25	500	WCSC	1360
Columbia N-24	500	WIS	1010
Spartanburg N-23	100	WSPA	1420

### SOUTH DAKOTA

Brookings H-15	500	KFDY	550
Huron H-14	100	KGDY	1200
Mitchell H-14	100	KGDA	1370
Pierre G-13	200	KGFX	580
Rapid City H-12	100	WCAT	1200
Sioux Falls I-15	2000	KSOO	1110

## INDEX BY LOCATIONS WITH MAP KEY

Vermillion I-15	500	KUSD	890	Petersburg L-26	100	WLBG	1200
Watertown G-15	100	KGCR	1210	Richmond K-26	100	WMBG	1210
Yankton I-15	1000	WNAX	570		5000	WRVA	1110
<b>TENNESSEE</b>				<b>Roanoke L-24</b>			
Bristol L-23	100	WOPI	1500		250	WDBJ	930
Chattanooga N-21	1000	WDOD	1280	<b>WASHINGTON</b>			
Knoxville M-22	50	WFBC	1200	Aberdeen D-2	75	KXRO	1310
	1000	WNOX	560	Bellingham C-3	100	KVOS	1200
Lawrenceburg N-20	100	WROL	1310	Everett C-3	50	KFBL	1370
Memphis M-19	500	WOAN	600	Lacey D-3	100	KGY	1200
	500	WGBC	1430	Longview D-3	100	KUJ	1500
	100	WHBQ	1370	Pullman E-5	1000	KWSC	1220
	500	WMC	780	Seattle C-3	100	KFQW	1420
	500	WNBR	1430		5000	KJR	970
	500	WREC	600		1000	KOL	1270
Nashville M-20	5000	WLAC	1470		1000	KOMO	920
	5000	WSM	650		1000	KPCB	650
	5000	WTNT	1470		50	KRSC	1120
Springfield M-20	100	WSIX	1210		1000	KTW	1270
Union City M-19	100	WOBT	1310		100	KVL	1370
<b>TEXAS</b>					500	KXA	570
Abilene P-13	100	KFYO	1420	Spokane D-5	100	KFIO	1120
Amarillo N-12	1000	KGRS	1410		1000	KFPY	1340
	250	WDAG	1410		5000	KGA	1470
Austin Q-14	100	KUT	1500	Tacoma D-3	1000	KHQ	590
Beaumont R-17	500	KFDM	560		500	KMO	860
Brownsville U-15	500	KWVG	1260	Wenatchee D-4	1000	KVI	760
Brownwood P-14	100	KGKB	1500	Yakima D-4	50	KPQ	1500
College Sta. Q-15	500	WTAW	1120		50	KIT	1310
Corpus Christi S-14	100	KGFI	1500	<b>WEST VIRGINIA</b>			
Dallas P-15	10000	KRLD	1040	Bluefield L-24	100	WHIS	1420
	50000	WFAA	800	Charleston K-23	250	WOBU	580
	500	WRR	1280	Fairmont J-24	250	WMMN	890
Dublin P-14	100	KFPL	1310	Huntington K-23	250	WSAZ	580
El Paso P-9	100	KTSM	1310	Wheeling J-24	5000	WVVA	1160
	100	WDAH	1310	<b>WISCONSIN</b>			
Fort Worth P-15	100	KFJZ	1370	Eau Claire G-18	1000	WTAQ	1330
	1000	KTAT	1240	Fond du Lac H-19	100	KFIZ	1420
	10000	WBAP	800	Green Bay G-19	100	WHBY	1200
Galveston R-16	100	KFLX	1370	Janesville I-19	100	WCLO	1200
	500	KFUL	1290	La Crosse H-18	1000	WKBH	1380
Greenville O-15	15	KFPM	1310	Madison H-19	750	WHA	940
Harlingen T-14	500	KRGV	1260		500	WIBA	1280
Houston R-16	1000	KPRC	920		250	WISJ	780
	100	KTLC	1310	Manitowoc H-20	100	WOMT	1210
	500	KTRH	1120	Milwaukee H-20	250	WHAD	1120
	100	KXYZ	1420		250	WISN	1120
San Angelo Q-13	100	KGKL	1370		1000	WTMJ	620
San Antonio R-14	100	KMAC	1370	Poynette H-19	100	WIBU	1210
	100	KONO	1370	Racine I-20	100	WRJN	1370
	100	KTAP	1420	Sheboygan H-20	500	WHBL	1410
	1000	KTSA	1290	Stevens Pt. G-19	2000	WLBL	900
	50000	WOAI	1190	Superior F-17	1000	WEBC	1290
Waco Q-15	1000	WACO	1240	<b>WYOMING</b>			
Wichita Falls O-14	250	KGKO	570	Casper H-10	100	KDFN	1210
<b>UTAH</b>				<b>CANADA</b>			
Ogden I-7	500	KLO	1400	<b>ALBERTA</b>			
Salt Lake City I-7	1000	KDYL	1290	Calgary B-7	500	CFAC	690
	5000	KSL	1130		500	CFCN	690
<b>VERMONT</b>					500	CHCA	690
Burlington F-27	100	WCAX	1200		500	CJ CJ	690
Rutland G-27	100	WSYB	1500		500	CNRC	690
St. Albans F-27	100	WQDM	1370	Edmonton A-8	250	CHMA	580
Springfield G-27	10	WNBX	1200		500	CJCA	930
<b>VIRGINIA</b>					500	CKUA	580
Alexandria J-26	10000	WJSV	1460		500	CNRE	930
Arlington J-25	1000	NAA	690	Lethbridge C-8	50	CJOC	1120
Danville L-25	100	WBTM	1370	Red Deer A-8	1000	CHCT	840
Emory L-23	100	WEHC	1200		1000	CKLC	840
Lynchburg L-25	100	WLVA	1370		1000	CNRD	840
Newport News L-26	100	WGH	1310				
Norfolk L-26	500	WPOR	780				
	500	WTAR	780				



## INDEX BY LOCATIONS WITH MAP KEY

	Watts		Keys.				
<b>BRITISH COLUMBIA</b>				Regina C-12	500	CHWC	960
Chilliwack B-3	5	CHWK	1210		500	CJBR	960
Kamloops B-5	15	CFJC	1120	Saskatoon B-11	500	CKCK	960
Sea Island	50	CJOR	1210		500	CNRR	960
Vancouver B-3	50	CHLS	730	Yorkton C-13	500	CFQC	910
	50	CKCD	730		500	CNRS	910
	50	CKFC	730		500	CJGX	630
	50	CKMO	730	<b>HAITI</b>			
	100	CKWX	730	Port au Prince X-30	1000	HHK	920
	500	CNRV	1030	<b>MEXICO</b>			
	500	CFCT	630	Chihuahua, Chih. R-9	250	XFF	915
<b>MANITOBA</b>				Ciudad Juarez P-9	1000	XEQ	750
Brandon D-14	500	CKX	540		101	XEJ	857
Winnipeg D-15	5000	CKY	780	Guadalajara, Jal. X-10	101	XEA	1200
	5000	CNRW	780	Jalapa, Ver. Y-14	350	XFC	805
<b>NEW BRUNSWICK</b>				Merida, Yuc. X-19	105	XEY	547
Fredericton D-29	50	CFNB	1210	Mexico City Y-13	1000	XEB	1030
Moncton D-30	500	CNRA	630		2000	XEG	829
St. John D-30	50	CFBO	890		101	XEK	1000
<b>NEWFOUNDLAND</b>					1000	XEN	732
St. Johns A-35	500	8WMC	720		101	XEO	674
<b>NOVA SCOTIA</b>					101	XER	984
Glace Bay C-32	10000	VAS	685		1000	XETA	1100
Halifax E-31	500	CHNS	910		5000	XEW	780
	500	CNRH	910		500	XEX	1190
Sydney C-32	50	CJCB	880		500	XEZ	588
Wolfville D-31	50	CKIC	930		2000	XFG	638
<b>ONTARIO</b>					1000	XFI	818
Chatham H-22	100	CFCO	1210		500	XFX	860
Cobalt E-23	15	CKMC	1210		500	XFZ	859
Hamilton H-24	10	CHCS	880	Monterrey, N. L. U-13	101	XEH	1132
	50	CHML	880		1500	XET	890
	50	CKOC	880	Morelia, Mich. Y-12	101	XEI	1000
Kingston G-25	500	CFRC	930	Oaxaca, Oax. AA-14	105	XEF	1132
London H-23	1000	CJGC	910	Puebla Z-13	101	XEV	1035
	500	CNRL	910	Reynosa, Tams. T-14	10000	XED	960
Midland G-23	50	CKPR	930	Saltillo, Coah. U-12	10	XEL	1091
North Bay	50	CFCH	600	Tampico, Tams. W-14	501	XEM	841
Ottawa F-25	100	CKCO	890		500	XES	890
	500	CNRO	600	Toluca, Mex. Y-12	50	XEC	1133
Prescott F-25	50	CFCL	1010	Veracruz, Ver. Y-14	500	XETF	680
Preston G-23	50	CKPC	1210		50	XEU	800
Toronto G-24	500	CFCA	840	Villahermosa, Tab.	350	XFE	632
	500	CFCL	580	<b>CUBA</b>			
	4000	CFRB	960	Buen Retiro	50	CMCO	660
	5000	CJSC	690	Caibarien W-25	250	CMHD	920
	500	CKCL	580	Camaguey	50	CMJC	135
	5000	CKGW	690	Cienfuegos W-25	200	CMHJ	115
	500	CKNC	580	Colon W-24	300	CMGA	830
	500	CNRT	840	Havana W-23	150	CMBC	1130
	4000	CNRX	960		150	CMBD	995
	5000	CPRY	690		150	CMBS	790
Waterloo G-23	50	CKCR	1010		150	CMBT	1070
Wingham G-23	25	10-BP	1200		200	CMBY	1405
					150	CMBZ	1010
					500	CMC	840
<b>PRINCE EDWARD ISLAND</b>					100	CMCA	1225
Charlottetown C-31	250	CFCY	960		150	CMCB	1070
	30	CHCK	960		250	CMCF	900
Summerside C-31	100	CHGS	1120		15	CMCH	1285
<b>QUEBEC</b>					1000	CMCQ	955
Montreal E-26	500	CFCF	1030		5000	CMK	730
	5000	CHYC	730		150	CMQ	1130
	5000	CKAC	730		1000	CMW	588
	5000	CNRM	730		1000	CMX	910
Quebec D-27	100	CHRC	880	Holguin	---	CMKX	1240
	22	CKCI	880	Marianao	150	CMBW	1010
	50	CKCV	880	Santiago X-28	150	CMKC	1045
	50	CNRQ	880		---	CMKD	1100
				Tuinucu	500	CMHC	790
<b>SASKATCHEWAN</b>				<b>COSTA RICA</b>			
Fleming C-13	500	CJRW	600	San Jose FF-23	50	TIC	750
Moose Jaw C-11	500	CJRM	600				

**CFAC**

**A COMPLETE INDEX BY CALL LETTERS**

**KFRC**

CFAC 690  
 Calgary, Alta.  
 CFBO 890  
 St. John, N. B.  
 CFCA 840  
 Toronto, Ont.  
 CFCF 1030  
 Montreal, Que.  
 CFCF 1200  
 North Bay, Ont.  
 CFCL 580  
 Toronto, Ont.  
 CFCN 690  
 Calgary, Alta.  
 CFCO 1210  
 Chatham, Ont.  
 CFCT 630  
 Victoria, B. C.  
 CFCY 960  
 Ch'lottet'n, P.E.I.  
 CFJC 1120  
 Kamloops, B. C.  
 CFLC 1010  
 Prescott, Ont.  
 CNLB 1210  
 Fredericton, N.B.  
 CFQC 910  
 Saskatoon, Sask.  
 CFRB 960  
 Toronto, Ont.  
 CFRC 930  
 Kingston, Ont.  
 CHCA 690  
 Calgary, Alta.  
 CHCK 960  
 Ch'lottet'n, P.E.I.  
 CHCS 880  
 Hamilton, Ont.  
 CHCT 840  
 Red Deer, Alta.  
 CHGS 1120  
 Sum'rside, P.E.I.  
 CHLS 730  
 Vancouver, B.C.  
 CHMA 580  
 Edmonton, Alta.  
 CHML 880  
 Hamilton, Ont.  
 CHNS 910  
 Halifax, N.S.  
 CHRC 880  
 Quebec, Que.  
 CHWC 960  
 Regina, Sask.  
 CHWK 1210  
 Chilliwack, B.C.  
 CHYC 730  
 Montreal, Que.  
 CJBR 960  
 Regina, Sask.  
 CJCA 930  
 Edmonton, Alta.  
 CJCB 880  
 Sydney, N.S.  
 CJCJ 690  
 Calgary, Alta.  
 CJGC 910  
 London, Ont.  
 CJGX 630  
 Yorkton, Sask.  
 CJOC 1120  
 Lethbridge, Alta.  
 CJOR 1210  
 Sea Island, B. C.  
 CJRM 600  
 Moose Jaw, Sask.  
 CJRW 600  
 Fleming, Sask

CJSC 690  
 Toronto, Ont.  
 CKAC 730  
 Montreal, Que.  
 CKCD 730  
 Vancouver, B.C.  
 CKCI 880  
 Quebec, Que.  
 CKCK 960  
 Regina, Sask.  
 CKCL 580  
 Toronto, Ont.  
 CKCO 890  
 Ottawa, Ont.  
 CKCR 1010  
 Waterloo, Ont.  
 CKCV 880  
 Quebec, Que.  
 CKFC 730  
 Vancouver, B.C.  
 CKGW 690  
 Toronto, Ont.  
 CKIC 930  
 Wolfville, N.S.  
 CKLC 840  
 Red Deer, Alta.  
 CKMC 1210  
 Cobalt, Ont.  
 CKMO 730  
 Vancouver, B.C.  
 CKNC 580  
 Toronto, Ont.  
 CKOC 880  
 Hamilton, Ont.  
 CKPC 1210  
 Preston, Ont.  
 CKPR 930  
 Midland, Ont.  
 CKUA 580  
 Edmonton, Alta.  
 CKWX 730  
 Vancouver, B.C.  
 CKX 540  
 Brandon, Man.  
 CKY 780  
 Winnipeg, Man.  
 CMCB 1130  
 Havana, Cuba  
 CMBD 995  
 Havana, Cuba  
 CMBS 790  
 Havana, Cuba  
 CMBT 1070  
 Havana, Cuba  
 CMBW 1010  
 Marianao, Cuba  
 CMBY 1405  
 Havana, Cuba  
 CMBZ 1010  
 Havana, Cuba  
 CMC 840  
 Havana, Cuba  
 CMCA 1225  
 Havana, Cuba  
 CMCB 1070  
 Havana, Cuba  
 CMCF 900  
 Havana, Cuba  
 CMCH 1285  
 Havana, Cuba  
 CMCO 660  
 BuenRetiro, Cuba  
 CMCQ 955  
 Havana, Cuba  
 CMGA 830  
 Colon, Cuba  
 CMHC 790  
 Tuinucu, Cuba

CMHD 920  
 Caibarien, Cuba  
 CMHJ 1154  
 Cienfuegos, Cuba  
 CMJ 1350  
 Camaguey, Cuba  
 CMK 730  
 Havana, Cuba  
 CMKC 1045  
 Santiago, Cuba  
 CMKD 1100  
 Santiago, Cuba  
 CMKX 1240  
 Holguin, Cuba  
 CMQ 1130  
 Havana, Cuba  
 CMW 590  
 Havana, Cuba  
 CMX 910  
 Havana, Cuba  
 CNRA 630  
 Moncton, N.B.  
 CNRC 690  
 Calgary, Alta.  
 CNRD 840  
 Red Deer, Alta.  
 CNRE 930  
 Edmonton, Alta.  
 CNRH 910  
 Halifax, N. S.  
 CNRL 910  
 London, Ont.  
 CNRM 730  
 Montreal, Que.  
 CNRO 600  
 Ottawa, Ont.  
 CNRQ 880  
 Quebec, Que.  
 CNRR 960  
 Regina, Sask.  
 CNRS 910  
 Saskatoon, Sask.  
 CNRT 840  
 Toronto, Ont.  
 CNRV 1030  
 Vancouver, B.C.  
 CNRW 780  
 Winnipeg, Man.  
 CNRX 960  
 Toronto, Ont.  
 CPRO 690  
 Toronto, Ont.  
 HHK 920  
 Port au Prince, H.  
 KBPS 1420  
 Portland, Ore.  
 KBTM 1200  
 Paragould, Ark.  
 KCRC 1370  
 Enid, Okla.  
 KCRJ 1310  
 Jerome, Ariz.  
 KDB 1500  
 S. Barbara, Cal.  
 KDFN 1210  
 Casper, Wyo.  
 KDKA 980  
 Pittsburgh, Pa.  
 KDLR 1210  
 Devils Lake, N.D.  
 KDYL 1290  
 Salt Lake City  
 KECA 1430  
 Los Angeles, Cal.  
 KELW 780  
 Burbank, Cal.  
 KEX 1180  
 Portland, Ore.

KFAB 770  
 Lincoln, Nebr.  
 KFBB 1280  
 Great Fls., Mont.  
 KFBK 1310  
 Sacramento, Cal.  
 KFBL 1370  
 Everett, Wash.  
 KFDM 560  
 Beaumont, Tex.  
 KFDY 550  
 Brookings, S.D.  
 KFEL 920  
 Denver, Colo.  
 KFEQ 680  
 St. Joseph, Mo.  
 KFGQ 1310  
 Boone, Iowa  
 KFH 1300  
 Wichita, Kansas  
 KFI 640  
 Los Angeles, Cal.  
 KFIO 1120  
 Spokane, Wash.  
 KFJU 1310  
 Juneau, Alaska  
 KFJZ 1420  
 Fond du Lac, Wis  
 KFJB 1200  
 Marshalltown, Ia.  
 KFJF 1480  
 Oklahoma City  
 KFJI 1370  
 Astoria, Ore.  
 KFJM 1370  
 Grd. Forks, N.D.  
 KFJR 1300  
 Portland, Ore.  
 KFJY 1310  
 Fort Dodge, Ia.  
 KFJZ 1370  
 Ft. Worth, Tex.  
 KFFA 880  
 Greeley, Colo.  
 KFKB 1050  
 Milford, Kansas  
 KFKU 1220  
 Lawrence, Kans.  
 KFKX 1020  
 Chicago, Ill.  
 KFLV 1410  
 Rockford, Ill.  
 KFLX 1370  
 Galveston, Tex.  
 KFMX 1250  
 N'thfield, Minn.  
 KFNF 890  
 Shenandoah, Ia.  
 KFOR 1210  
 Lincoln, Nebr.  
 KFOX 1250  
 Long Beach, Cal.  
 KFPL 1310  
 Dublin, Texas  
 KFPM 1310  
 Greenville, Tex.  
 KFPW 1340  
 Ft. Smith, Ark.  
 KFPY 1340  
 Spokane, Wash.  
 KFQD 1230  
 Anchorage, Alas.  
 KFQU 1420  
 Holy City, Cal.  
 KFQW 1420  
 Seattle, Wash.  
 KFRC 610  
 San F'nscisco, Cal.

KFRU 630 Columbia, Mo.	KGFF 1420 Alva, Okla.	KIDO 1250 Boise, Idaho	KPJM 1500 Prescott, Ariz.
KFSD 600 San Diego, Cal.	KGFG 1370 Oklahoma City	KIT 1310 Yakima, Wash.	KPO 680 San F'nisco, Cal.
KFSG 1120 Los Angeles, Cal.	KGFI 1500 Corpus Ch'sti, Tex	KJBS 1070 San F'nisco, Cal.	KPOF 880 Denver, Colo.
KFUL 1290 Galveston, Tex.	KGFJ 1200 Los Angeles, Cal.	KJR 970 Seattle, Wash.	KPPC 1210 Pasadena, Cal.
KFUM 1270 Col. Spgs., Colo.	KGFK 1500 Moorhead, Minn.	KLCN 1290 Blytheville, Ark.	KPQ 1500 Wenatchee, Wash
KFUO 550 St. Louis, Mo.	KGFL 1370 Raton, N. M.	KLO 1400 Ogden, Utah	KPRC 920 Houston, Texas
KFUP 1310 Denver, Colo.	KGFW 1310 Ravenna, Nebr.	KLPM 1420 Minot, N. Dak.	KPSN 1360 Pasadena, Cal.
KFVD 1000 Culver City, Cal.	KGFX 580 Pierre, S. D.	KLRA 1390 Little Rock, Ark.	KQV 1380 Pittsburgh, Pa.
KFVS 1210 Cape Gir'rd'u, Mo	KGGC 1420 San F'nisco, Cal.	KLS 1440 Oakland, Cal.	KQW 1010 San Jose, Cal.
KFWB 950 Hollywood, Cal.	KGGF 1010 Coffeyville, Kans.	KLX 880 Oakland, Cal.	KRE 1370 Berkeley, Cal.
KFWF 1200 St. Louis, Mo.	KGGM 1230 Alb'g'rque, N.M.	KLZ 560 Denver, Colo.	KREG 1500 Santa Ana, Cal.
KFWI 930 San F'nisco, Cal.	KGHF 1320 Pueblo, Colo.	KMA 930 Shenandoah, Ia.	KRGV 1260 Harlingen, Texas
KFXD 1420 Nampa, Idaho	KGHI 1200 Little Rock, Ark.	KMAC 1370 San Antonio, Tex.	KRLD 1040 Dallas, Texas
KFXF 920 Denver, Colo.	KGHL 950 Billings, Mont.	KMBC 950 Kan. City, Mo.	KRRM 1310 Shreveport, La.
KFXJ 1310 Edgewater, Colo.	KGIQ 1320 Twin Falls, Ida.	KMED 1310 Medford, Ore.	KROW 930 Oakland, Cal.
KFXM 1210 San Ber'd'no, Cal.	KGIR 1360 Butte, Mont.	KMIC 1120 Inglewood, Cal.	KRSC 1120 Seattle, Wash.
KFXR 1310 Oklahoma City	KGIW 1420 Trinidad, Colo.	KMJ 1210 Fresno, Cal.	KSAC 580 Manh'tt'n, Kans.
KFYX 1420 Flagstaff, Ariz.	KGIX 1420 Las Vegas, Nev.	KMLB 1200 Monroe, La.	KSCJ 1330 Sioux City, Ia.
KFYO 1420 Abilene, Texas	KGIZ 1500 Grant City, Mo.	KMMJ 740 Clay Ctr., Nebr.	KSD 550 St. Louis, Mo.
KFYR 550 Bismarck, N.D.	KGJF 890 Little Rock, Ark.	KMO 860 Tacoma, Wash.	KSEI 900 Pocatello, Idaho
KGA 1470 Spokane, Wash.	KGKB 1500 Brownwood, Tex.	KMOX 1090 St. Louis, Mo.	KSL 1130 Salt Lake City
KGAR 1370 Tucson, Ariz.	KGKL 1370 San Angelo, Tex.	KMPC 710 Los Angeles, Cal.	KSMR 1200 Santa Maria, Cal.
KGB 1330 San Diego, Cal.	KGKO 570 Wichita Fils., Tex	KMTR 570 Los Angeles, Cal.	KSO 1380 Clarinda, Iowa
KGBU 900 Ketchikan, Al'ka.	KGKX 1420 Sand Point, Ida.	KNX 1050 Los Angeles, Cal.	KSSO 1110 Sioux Falls, S.D.
KG BX 1310 St. Joseph, Mo.	KGKY 1500 Scottsbluff, Nebr.	KOA 830 Denver, Colo.	KSTP 1460 St. Paul, Minn.
KG BZ 930 York, Nebr.	KGMB 1320 Honolulu, T. H.	KOAC 550 Corvallis, Ore.	KTAB 560 San F'nisco, Cal.
KGCA 1270 Decorah, Iowa	KGMP 1210 Elk City, Okla.	KOB 1180 State Coll., N.M.	KTAP 1420 San Antonio, Tex.
KGCR 1210 Watertown, S.D.	KGNF 1430 No. Platte, Neb.	KOCW 1400 Chickasha, Okla.	KTAR 620 Phoenix, Ariz.
KGCU 1200 Mandan, N.D.	KGNO 1210 Dodge City, Kans.	KOH 1380 Reno, Nevada	KTAT 1240 Ft. Worth, Tex.
KG CX 1310 Wolf P't, Mont.	KG O 790 San F'nisco, Cal.	KOIL 1260 Council Bluffs, Ia.	KTBI 1300 Los Angeles, Cal.
KGDA 1370 Mitchell, S. D.	KGRS 1410 Amarillo, Texas	KOIN 940 Portland, Ore.	KTBR 1300 Portland, Ore.
KGDE 1200 Ferg's F'ls, Minn	KGU 940 Honolulu, Hawaii	KOL 1270 Seattle, Wash.	KTBS 1450 Shreveport, La.
KGDM 1100 Stockton, Cal.	KGVO 1420 Missoula, Mont.	KOMO 920 Seattle, Wash.	KTHS 1040 Hot Spgs., Ark.
KGDR 1200 Huron, S. D.	KGW 620 Portland, Ore.	KONO 1370 San Antonio, Tex	KTLC 1310 Houston, Texas
KG EF 1300 Los Angeles, Cal.	KG Y 1200 Lacey, Wash.	KOOS 1370 Marshfield, Ore.	KTM 780 Los Angeles, Cal.
KG EK 1200 Yuma, Colo.	KHJ 900 Los Angeles, Cal.	KORE 1420 Eugene, Ore.	KTNT 1170 Muscatine, Iowa
KG ER 1360 Long Beach, Cal.	KHQ 590 Spokane, Wash.	KOY 1390 Phoenix, Ariz.	KTRH 1120 Houston, Texas
KG EW 1200 Ft. Morgan, Colo.	KICK 1420 Red Oak, Iowa.	KPCB 650 Seattle, Wash.	KTSA 1290 San Antonio, Tex.
KG EZ 1310 Kalispell, Mont.	KID 1320 Idaho Falls, Ida.		

# KTSL

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# WFDV

**KTSL** 1310  
 Shreveport, La.  
**KTSM** 1310  
 El Paso, Texas  
**KTW** 1270  
 Seattle, Wash.  
**KUJ** 1500  
 Longview, Wash.  
**KUOA** 1390  
 Fayetteville, Ark.  
**KUSD** 890  
 Vermillion, S. D.  
**KUT** 1500  
 Austin, Texas  
**KVI** 760  
 Tacoma, Wash.  
**KVL** 1370  
 Seattle, Wash.  
**KVOA** 1260  
 Tucson, Arizona  
**KVOO** 1140  
 Tulsa, Okla.  
**KWOS** 1200  
 Bellingh'm, Wash.  
**KWCR** 1310  
 Cedar Rapids, Ia.  
**KWEA** 1210  
 Shreveport, La.  
**KWG** 1200  
 Stockton, Cal.  
**KWJJ** 1060  
 Portland, Ore.  
**KWK** 1350  
 St. Louis, Mo.  
**KWKC** 1370  
 Kansas City, Mo.  
**KWKH** 850  
 Shreveport, La.  
**KWLC** 1270  
 Decorah, Iowa  
**KWSC** 1220  
 Pullman, Wash.  
**KWWG** 1260  
 Brownsville, Tex.  
**KXA** 570  
 Seattle, Wash.  
**KXL** 1420  
 Portland, Ore.  
**KXO** 1500  
 El Centro, Cal.  
**KXRO** 1310  
 Aberdeen, Wash.  
**KXYZ** 1420  
 Houston, Texas  
**KYA** 1230  
 San F'necisco, Cal.  
**KYW** 1020  
 Chicago, Ill.  
**KZM** 1370  
 Hayward, Cal.  
**NAA** 690  
 Arlington, Va.  
**NBA** 850  
 Balboa, C. Z.  
**TIC** 750  
 San Jose, C. R.  
**VAS** 685  
 Glace Bay, N. S.  
**WAAF** 920  
 Chicago, Ill.  
**WAAM** 1250  
 Newark, N. J.  
**WAAT** 940  
 Jersey City, N. J.  
**WAAW** 660  
 Omaha, Nebr.

**WABC** 860  
 New York City  
**WABI** 1200  
 Bangor, Maine  
**WABZ** 1200  
 New Orleans, La.  
**WACO** 1240  
 Waco, Texas  
**WADC** 1320  
 Akron, Ohio  
**WAU** 640  
 Columbus, Ohio  
**WALR** 1210  
 Zanesville, Ohio  
**WAPI** 1140  
 Birmingham, Ala.  
**WASH** 1270  
 Gr. Rapids, Mich.  
**WAWZ** 1350  
 New York City  
**WBAA** 1400  
 Lafayette, Ind.  
**WBAK** 1430  
 Harrisburg, Pa.  
**WBAL** 1060  
 Baltimore, Md.  
**WBAP** 800  
 Fort Worth, Tex.  
**WBAX** 1210  
 Wilkes-Barre, Pa.  
**WBBC** 1400  
 Brooklyn, N. Y.  
**WBM** 770  
 Chicago, Ill.  
**WBRR** 1300  
 Brooklyn, N. Y.  
**WBBZ** 1200  
 Ponca City, Okla.  
**WBCM** 1410  
 Bay City, Mich.  
**WBEN** 900  
 Buffalo, N. Y.  
**WBGF** 1370  
 Glens Falls, N. Y.  
**WBIG** 1440  
 Greensboro, N.C.  
**WBIS** 1230  
 Boston, Mass.  
**WBMS** 1450  
 Hackensack, N.J.  
**WBOQ** 860  
 New York City  
**WBOW** 1310  
 Terre Haute, Ind.  
**WBRC** 930  
 Birmingham, Ala.  
**WBRE** 1310  
 Wilkes-Barre, Pa.  
**WBSO** 920  
 Needham, Mass.  
**WBT** 1080  
 Charlotte, N. C.  
**WBTM** 1370  
 Danville, Va.  
**WBZ-A** 990  
 Springfield, Mass.  
**WCAC** 600  
 Storrs, Conn.  
**WCAD** 1220  
 Canton, N. Y.  
**WCAE** 1220  
 Pittsburgh, Pa.  
**WCAH** 1430  
 Columbus, Ohio

**WCAJ** 590  
 Lincoln, Nebr.  
**WCAL** 1250  
 Northfield, Minn.  
**WCAM** 1280  
 Camden, N. J.  
**WCAO** 600  
 Baltimore, Md.  
**WCAP** 1280  
 Asbury Pk., N. J.  
**WCAT** 1200  
 Rapid City, S. D.  
**WCAU** 1170  
 Philadelphia, Pa.  
**WCAX** 1200  
 Burlington, Vt.  
**WCAZ** 1070  
 Carthage, Ill.  
**WCBA** 1440  
 Allentown, Pa.  
**WCBD** 1080  
 Zion, Ill.  
**WCBM** 1370  
 Baltimore, Md.  
**WCBS** 1210  
 Springfield, Ill.  
**WCCO** 810  
 Minneap., Minn.  
**WCDA** 1350  
 New York City  
**WCFL** 970  
 Chicago, Ill.  
**WCGU** 1400  
 Brooklyn, N. Y.  
**WCHI** 1490  
 Chicago, Ill.  
**WCKY** 1490  
 Covington, Ky.  
**WCLB** 1500  
 Long Beach, N.Y.  
**WCLO** 1200  
 Janesville, Wis.  
**WCLS** 1310  
 Joliet, Ill.  
**WCMA** 1400  
 Culver, Ind.  
**WCOA** 1340  
 Pensacola, Fla.  
**WCOC** 880  
 Meridian, Miss.  
**WCOD** 1200  
 Harrisburg, Pa.  
**WCOH** 1210  
 Yonkers, N. Y.  
**WCRW** 1210  
 Chicago, Ill.  
**WCSC** 1360  
 Charleston, S. C.  
**WCSH** 940  
 Portland, Maine  
**WDAE** 1220  
 Tampa, Fla.  
**WDAF** 610  
 Kansas City, Mo.  
**WDAG** 1410  
 Amarillo, Texas  
**WDAH** 1310  
 El Paso, Texas  
**WDAY** 940  
 Fargo, N. D.  
**WDBJ** 930  
 Roanoke, Va.  
**WDBO** 1120  
 Orlando, Fla.

**WDEL** 1120  
 Wilmington, Del.  
**WDGY** 1180  
 Minneap., Minn.  
**WDIX** 1500  
 Tupelo, Miss.  
**WDOD** 1280  
 Chattan'ga, Tenn  
**WDRG** 1330  
 Hartford, Conn.  
**WDSU** 1250  
 New Orleans, La.  
**WDFW** 1210  
 Providence, R. I.  
**WDZ** 1070  
 Tuscola, Ill.  
**WEAF** 660  
 New York City  
**WEAI** 1270  
 Ithaca, N. Y.  
**WEAN** 780  
 Providence, R. I.  
**WEAO** 570  
 Columbus, Ohio  
**WEBC** 1290  
 Superior, Wis.  
**WEBQ** 1210  
 Harrisburg, Ill.  
**WEBR** 1310  
 Buffalo, N. Y.  
**WEDC** 1210  
 Chicago, Ill.  
**WEDH** 1420  
 Erie, Pa.  
**WEEL** 590  
 Boston, Mass.  
**WEHC** 1200  
 Emory, Va.  
**WEHS** 1420  
 Cicero, Ill.  
**WELK** 1370  
 Philadelphia, Pa.  
**WELL** 1420  
 Battle Creek, Mich  
**WENR** 870  
 Chicago, Ill.  
**WCOA** 1200  
 Worcester, Mass.  
**WEVD** 1300  
 New York City  
**WEW** 760  
 St. Louis, Mo.  
**WEXL** 1310  
 Royal Oak, Mich.  
**WFAA** 800  
 Dallas, Texas  
**WFAN** 610  
 Philadelphia, Pa.  
**WFBC** 1200  
 Knoxville, Tenn.  
**WFBE** 1200  
 Cincinnati, Ohio  
**WFBG** 1310  
 Altoona, Pa.  
**WFBL** 1360  
 Syracuse, N. Y.  
**WFBM** 1230  
 Indianapolis, Ind.  
**WFRB** 1270  
 Baltimore, Md.  
**WDFD** 1310  
 Flint, Mich.  
**WFDV** 1370  
 Rome, Ga.

WFDW 1420	WHDI 1180	WJBK 1370	WLBG 1200
Talladega, Ala.	Minneap., Minn.	Detroit, Mich.	Ettrick, Va.
WFI 560	WHDL 1420	WJBL 1200	WLBL 900
Philadelphia, Pa.	TupperLake, N.Y.	Decatur, Ill.	Stevens Pt., Wis.
WFIW 940	WHEC 1440	WJBO 1420	WLBW 1260
Hopkinsville, Ky.	Rochester, N. Y.	New Orleans, La.	Oil City, Pa.
WFLA 620	WHFC 1420	WJBT 770	WLBX 1500
Clearwater, Fla.	Cicero, Ill.	Chicago, Ill.	L.I. City, N.Y.
WFOX 1400	WHIS 1410	WJBU 1210	WLBZ 620
Brooklyn, N. Y.	Bluefield, W. Va.	Lewisburg, Pa.	Bangor, Me.
WGAL 1310	WHK 1390	WJBW 1200	WLCI 1210
Lancaster, Pa.	Cleveland, Ohio	New Orleans, La.	Ithaca, N. Y.
WGAR 1450	WHN 1010	WJBY 1210	WLEX 1410
Cleveland, Ohio	New York City	Gadsden, Ala.	Lexington, Mass.
WGBB 1210	WHO 1000	WJDX 1270	WLEY 1370
Freeport, N. Y.	Des Moines, Ia.	Jackson, Miss.	Lexington, Mass.
WGBC 1430	WHOM 1450	WJJD 1130	WLIT 560
Memphis, Tenn.	Jersey City, N. J.	Mooseheart, Ill.	Philadelphia, Pa.
WGBF 630	WHP 1430	WJKS 1360	WLOE 1500
Evansville, Ind.	Harrisburg, Pa.	Gary, Ind.	Boston, Mass.
WGBI 880	WIAS 1420	WJR 750	WLS 870
Scranton, Pa.	Ottumwa, Iowa	Detroit, Mich.	Chicago, Ill.
WGBS 600	WIBA 1280	WJSV 1460	WLSI 1210
New York City	Madison, Wis.	Alexandria, Va.	Providence, R. I.
WGCM 1210	WIBG 930	WJW 1210	WLTH 1400
Gulfport, Miss.	Elkins Park, Pa.	Mansfield, Ohio	Brooklyn, N. Y.
WGCP 1250	WIBM 1370	WJZ 760	WLVA 1370
Newark, N. J.	Jackson, Mich.	New York City	Lynchburg, Va.
WGES 1360	WIBO 560	WKAQ 890	WLW 700
Chicago, Ill.	Chicago, Ill.	San Juan, P. R.	Cincinnati, Ohio
WGH 1310	WIBR 1420	WKAR 1040	WLWL 1100
Newsp't News, Va.	Steubenville, O.	E. Lansing, Mich.	New York City
WGL 1370	WIBU 1210	WKAY 1310	WLMAC 570
Ft. Wayne, Ind.	Poynette, Wis.	Laconia, N. H.	Syracuse, N. Y.
WGN 720	WIBW 580	WKBB 1310	WMAK 1040
Chicago, Ill.	Topeka, Kansas	Joliet, Ill.	Buffalo, N. Y.
WGR 550	WIBX 1200	WKBC 1310	WMAL 630
Buffalo, N. Y.	Utica, N. Y.	Birmingham, Ala.	Washington, D.C.
WGST 890	WICC 1190	WKBF 1400	WMAQ 670
Atlanta, Ga.	Bridgeport, Conn.	Indianapolis, Ind.	Chicago, Ill.
WGY 790	WIL 1200	WKBH 1380	WMAZ 890
Schenec'd'y, N. Y.	St. Louis, Mo.	La Crosse, Wis.	Macon, Ga.
WHA 940	WILL 890	WKBI 1420	WMBA 1500
Madison, Wis.	Urbana, Ill.	Chicago, Ill.	Newport, R. I.
WHAD 1120	WILM 1420	WKBN 570	WMBC 1420
Milwaukee, Wis.	Wilmington, Del.	Youngstown, O.	Detroit, Mich.
WHAM 1150	WIOD 1300	WKBO 1450	WMBD 1440
Rochester, N. Y.	Miami, Fla.	Jersey City, N. J.	Peoria Hgts., Ill.
WHAP 1300	WIP 610	WKBQ 1350	WMBG 1210
New York City	Philadelphia, Pa.	New York City	Richmond, Va.
WHAS 820	WIS 1010	WKBS 1310	WMBH 1420
Louisville, Ky.	Columbia, S. C.	Galesburg, Ill.	Joplin, Mo.
WHAT 1310	WISJ 780	WKBV 1500	WMBI 1080
Philadelphia, Pa.	Madison, Wis.	Connerville, Ind.	Chicago, Ill.
WHAZ 1300	WISN 1120	WKBW 1480	WMBJ 1500
Troy, N. Y.	Milwaukee, Wis.	Buffalo, N. Y.	Pittsburgh, Pa.
WHB 860	WJAC 1310	WKBZ 1500	WMBO 1310
Kansas City, Mo.	Johnstown, Pa.	Ludington, Mich.	Auburn, N. Y.
WHBC 1200	WJAG 4060	WKJC 1200	WMBQ 1500
Canton, Ohio	Norfolk, Nebr.	Lancaster, Pa.	Brooklyn, N. Y.
WHBD 1370	WJAK 1310	WKRC 550	WMBR 1370
Mt. Orab, O.	Marion, Ind.	Cincinnati, O.	Tampa, Fla.
WHBF 1210	WJAR 890	WKY 900	WMC 780
Rock Island, Ill.	Providence, R. I.	Oklahoma City	Memphis, Tenn.
WHBL 1410	WJAS 1290	WKZO 590	WMC A 570
Sheboygan, Wis.	Pittsburgh, Pa.	Be'n Spgs., Mich.	New York City
WHBQ 1370	WJAX 900	WLAC 1470	WMMN 890
Memphis, Tenn.	Jacksonville, Fla.	Nashville, Tenn.	Fairmont, W. Va.
WHBU 1210	WJAY 610	WLAT 1200	WMPC 1500
Anderson, Ind.	Cleveland, Ohio	Louisville, Ky.	Lapeer, Mich.
WHBY 1200	WJAZ 1490	WLB 1250	WMRJ 1210
Green Bay, Wis.	Chicago, Ill.	St. Paul, Minn.	Jamaica, N. Y.
WHDF 1370	WJBC 1200	WLBC 1310	WMSG 1350
Calumet, Mich.	La Salle, Ill.	Muncie, Ind.	New York City
WHDH 830	WJBI 1210	WLBF 1420	
Boston, Mass.	Red Bank, N. J.	Kansas City, Ka.	

WMT 600	WPCC 560	WSAR 1450	WWNC 570
Waterloo, Iowa	Chicago, Ill.	Fall River, Mass.	Asheville, N. C.
WNAC 1230	WPCB 810	WSAZ 580	WWRL 1500
Boston, Mass.	New York City	Hunt'ngton, W. Va.	Woodside, N. Y.
WNAD 1010	WPEN 1500	WSB 740	WWVA 1160
Norman, Okla.	Philadelphia, Pa.	Atlanta, Ga.	Wheeling, W. Va.
WNAX 570	WPG 1100	WSBC 1210	WXYZ 1240
Yankton, S. D.	Atl'ntic City, N. J.	Chicago, Ill.	Detroit, Mich.
WNBF 1500	WPOE 1370	WSBT 1230	XEA 1200
Bingh'mt'n, N. Y.	Patchogue, N. Y.	South Bend, Ind.	Guadalajara, Jal.
WNBH 1310	WPOR 780	WSDA 1400	XEB 1030
New B'd'r'd, Mass.	Norfolk, Va.	Brooklyn, N. Y.	Mexico City
WNBO 1200	WPSC 1230	WSEN 1210	XEC 1133
Washington, Pa.	State College, Pa.	Columbus, Ohio	Toluca, Mex.
WNBR 1430	WPTF 680	WSFA 1410	XED 961
Memphis, Tenn.	WPRH 1210	Montgomery, Ala.	Reynosa, Tams.
WNBW 1200	WQAM 560	WSIX 1210	XEF 1132
Carbondale, Pa.	Miami, Fla.	Springfield, Tenn.	Oaxaca, Oax.
WNBX 1200	WQAN 880	WSJS 1310	XEG 829
Springfield, Vt.	Seranton, Pa.	Winst.-Sal., N. C.	Mexico City
WNBZ 1290	WQAO 1010	WSM 650	XEH 1132
SaranacL'ke, N. Y.	New York City	Nashville, Tenn.	Monterrey, N. L.
WNJ 1450	WQBC 1360	WSMB 1320	XEI 1000
Newark, N. J.	Vicksburg, Miss.	New Orleans, La.	Morelia, Mich.
WNOX 560	WQDM 1370	WSMK 1380	XEJ 857
Knoxville, Tenn.	St. Albans, Vt.	Dayton, Ohio	Juarez, Chih.
WNYC 570	WQDX 1210	WSOC 1210	XEK 1000
New York City	Thomasville, Ga.	Gastonia, N. C.	Mexico City
WOAI 1190	WRAF 1200	WSPA 1420	XEL 1091
San Antonio, Tex.	La Porte, Ind.	Spartanburg, S. C.	Saltillo, Coah.
WOAN 600	WRAK 1370	WSPD 1340	XEM 841
Law'nceb'g, Tenn.	Williamsport, Pa.	Toledo, Ohio	Tampico, Tams.
WOAX 1280	WRAW 1310	WSSH 1410	XEN 732
Trenton, N. J.	Reading, Pa.	Boston, Mass.	Mexico City
WORT 1310	WRAX 1020	WSUI 880	XEO 674
Union City, Tenn.	Philadelphia, Pa.	Iowa City, Ia.	Mexico City
WOBU 580	WRBI 1310	WSUN 620	XEQ 750
Charlest'n, W. Va.	Tifton, Ga.	St. Petersb'g, Fla.	Ciudad Juarez
WOC 1000	WRBJ 1370	WSVS 1370	XER 984
Davenport, Iowa	Hattiesburg, Miss.	Buffalo, N. Y.	Mexico City
WOCL 1210	WRBL 1200	WSYB 1500	XES 890
Jamestown, N. Y.	Columbus, Ga.	Rutland, Vt.	Tampico, Tamp.
WODA 1250	WRBQ 1210	WSYR 570	XET 890
Paterson, N. J.	Greenville, Miss.	Syracuse, N. Y.	Monterrey, N. L.
WODX 1410	WRBT 1370	WTAD 1440	XETA 1100
Mobile, Ala.	Wilmington, N. C.	Quincy, Ill.	Mexico City
WOI 640	WRBX 1410	WTAG 580	XETF 680
Ames, Iowa	Roanoke, Va.	Worcester, Mass.	Veracruz
WOKO 1440	WRC 950	WTAM 1070	XEU 800
P'ghkeepsie, N. Y.	Washington, D. C.	Cleveland, Ohio	Veracruz, Ver.
WOL 1310	WRDO 1370	WTAQ 1330	XEV 1035
Washington, D. C.	Augusta, Me.	Eau Claire, Wis.	Puebla
WOMT 1210	WRDW 1500	WTAR 780	XEW 780
Manitowoc, Wis.	Augusta, Ga.	Norfolk Va.	Mexico City
WOOD 1270	WREC 600	WTAW 1120	XEX 1190
Gr. Rapids, Mich.	Memphis, Tenn.	College Sta., Tex.	Mexico City
WOPI 1500	WREN 1220	WTAX 1210	XEY 547
Bristol, Tenn.	Lawrence, Kans.	Springfield, Ill.	Merida, Yuc.
WOQ 1300	WRHM 1250	WTBO 1420	XEZ 588
Kansas City, Mo.	Minneap., Minn.	Cumberland, Md.	Mexico City
WOR 710	WRJN 1370	WTEL 1310	XFC 805
Newark, N. J.	Racine, Wis.	Philadelphia, Pa.	Jalapa, Ver.
WORC 1200	WRNY 1010	WTFI 1450	XFE 632
Worcester, Mass.	New York City	Toccoa, Ga.	Villahermosa, Tab.
WOS 630	WROL 1310	WTIC 1060	XFF 915
Jeff'n City, Mo.	Knoxville, Tenn.	Hartford, Conn.	Chihuahua, Chih.
WOV 1130	WRR 1280	WTMJ 620	XFG 638
New York City	Dallas, Texas	Milwaukee, Wis.	Mexico City
WOW 590	WRUF 830	WTNT 1470	XFI 818
Omaha, Nebr.	Gainesville, Fla.	Nashville, Tenn.	Mexico City
WOWO 1160	WRVA 1110	WTOC 1260	XFX 860
Ft. Wayne, Ind.	Richmond, Va.	Savannah, Ga.	Mexico City
WPAD 1420	WSAI 1330	WWAE 1200	XFZ 859
Paducah, Ky.	Cincinnati, Ohio	Hammond, Ind.	Mexico City
WPAP 1010	WSAJ 1310	WWJ 920	8WMC 720
New York City	Grove City, Pa.	Detroit, Mich.	St. Johns, N. F.
WPAW 1210	WSAN 1440	WWL 850	10BP 1200
Pawtucket, R. I.	Allentown, Pa.	New Orleans, La.	Wingham, Ont.







Kcys.	Call	Watts	City	Country
1110	SCO	250	Norrkoping	Sweden
1112	LS4	1000	Buenos Aires	Argentina
1121	EAJ13	10000	Barcelona	Spain
1125	ZUW	100	Sydney	Australia
1129	SCQ	250	Trollhattan	Sweden
1130	.....	500	Lille	France
1147	ZZM	160	Gisborne	New Zealand
1148	SNO	1000	Newcastle	Un. Kingdom
1149	LR8	1500	Buenos Aires	Argentina
1150	ZLO	30000	London	Un. Kingdom
1153	PRAC	500	Rio de Janerio	Brazil
1155	2MK	50	Bathurst	Australia
1157	.....	3000	Gleitwitz	Germany
1167	SBH	10000	Horbj	Sweden
1169	CWON	200	Montevideo	Uruguay
1175	MRD	1500	Toulouse	France
1180	3DB	100	Melbourne	Australia
1184	.....	4000	Leipzig	Germany
1188	IZQ	.....	Auckland	New Zealand
1190	LS2	1000	Buenos Aires	Argentina
1193	EAJ18	200	Almeria	Spain
1199	3ZC	250	Christchurch	New Zealand
1199.5	.....	5000	Bordeaux	France
1199	PRAG	500	Porto Alegre	Brazil

### 1200

Kcys.	Call	Watts	City	Country
1200	.....	500	Toulon	France
1200	SKA	200	Adelaide	Australia
1211	SCI	200	Kalmas	Sweden
1219	.....	250	Juan les Pins	France
1219	ON4RW	200	Liege	Belgium
1219	ON4RG	400	Ghent	Belgium
1219	.....	750	Kassel	Germany
1219	.....	.....	Abo	Finland
1219	.....	1500	Bjorenborg (Pari)	Finland
1219	.....	750	Jakobstad	Finland
1219	SCV	200	Kiruna	Sweden
1220	SCB	200	Eskillstuna	Sweden
1220	SCP	400	Saffle	Sweden
1220	.....	500	Linz	Austria
1224	CMAQ	100	Santiago	Chile
1229	.....	1000	Trondhjem	Norway
1238	2BE	1000	Belfast	Un. Kingdom
1245	2NC	2000	Newcastle	Australia
1254	.....	1000	Nuremberg	Germany
1256	.....	500	Nimes	France
1260.4	.....	5000	Bordeaux	France
1265	SCV	200	Orebro	Sweden
1270	LS3	1000	Buenos Aires	Argentina
1287	G4	560	Rafaela	Argentina
1292	.....	700	Kiel	Germany

### 1300

Kcys.	Call	Watts	City	Country
1301	SCB	600	Malmo	Sweden
1301	SCG	200	Helsingborg	Sweden
1301	SCS	200	Umea	Sweden
1304	.....	.....	Schaerbeck	Germany
1309	SCA	150	Boras	Sweden
1313	.....	250	Biarritz	France
1319	.....	1500	Muenster	Germany
1319	.....	4000	Cologne	Germany
1330	PRAO	1000	Sao Paulo	Brazil
1330	Jz	400	Concordia	Argentina
1337	6CK	1000	Cork	Irish Free St.
1344	LOAA	10000	Luxemburg	Luxemburg
1351	LS7	1000	Buenos Aires	Argentina
1357	.....	10000	Helsingfors	Finland
1363.6	.....	250	St. Etienne	France
1364.3	.....	1500	Beziers	France
1373	SCW	200	Ornskoldsvik	Sweden
1373	.....	1500	Flansburg	Germany
1375	SCK	250	Karlstad	Sweden
1388	ON4CE	200	Chatelineau	Belgium
1390	SCE	200	Halimstad	Sweden

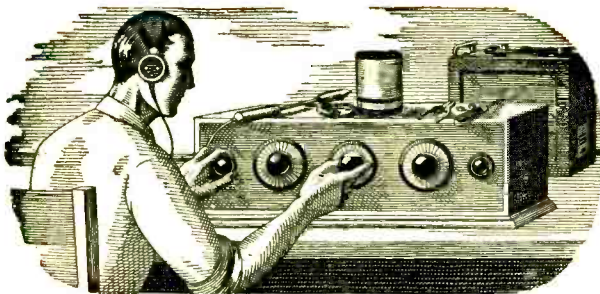
Kcys.	Call	Watts	City	Country
<b>1400</b>				
1410	D4	100	Mar del Plata	Argentina
1428	LS6	1000	Buenos Aires	Argentina
1470	SCD	200	Garve	Sweden
1471	.....	1500	Ludwigshaven	Germany
1481	SCM	250	Kristinehamn	Sweden
1484	SCH	250	Jonkoping	Sweden

### 1500

Kcys.	Call	Watts	City	Country
1500	ZLS	130	Leeds & Bradford	Un. Kingdom
1530	SCJ	250	Karlskrona	Sweden
1560	G2SH	.....	Akureyri	Iceland
1635	AFT	10000	Berlin	Germany
2000	RA51	350	Leningrad	Russia
2000	RA7Z	800	Smolensk	Russia
2142	.....	500	Surabaya	Netherland
2998	.....	1500	Manaos	Brazil
3088	.....	2000	Soro	Denmark
3446	.....	2500	Haiphong	French Indo
.....	.....	.....	China	.....
3529.4	H9XD	.....	Zurich	Switzerland
3750	F8AV	.....	Nogent-sur-Seine	France
*798	PK1AA	500	Batabia	Netherland
.....	.....	.....	East Indies	.....
4262.3	F8GC	1500	Paris	France
4434	.....	.....	Doberitz	Germany
5169	OK1MPI	5000	Prague	Czecho-
.....	.....	.....	slovakia	.....
5170	IBR	1000	Bandoeng	Netherland
.....	.....	.....	East Indies	.....
5290	AGJ	.....	Nauen	Germany
5552	AFT	10000	Berlin	Germany
5879	AIN	.....	Casablanca	Morocco
5996	PK2AF	500	Djokjakarta	Netherland
.....	.....	.....	East Indies	.....
5996	3ZC	250	Christchurch	New Zealand
6005	HRB	2300	Tegucigalpa	Honduras
6057	.....	500	Lynby	Denmark
6662	PH3CH	250	Surabaya	Netherland
.....	.....	.....	East Indies	.....
6666.7	1RAX	.....	Rome	Italy
6877	.....	2500	Rabat	Morocco
7005	8KR	.....	Constantine	Tunisia
7055	V53AB	.....	Johore	Brit. Malaya
7260	V51AB	.....	Singapore	Brit. Malaya
7313	PK6KZ	500	Makassar	Netherland
.....	.....	.....	East Indies	.....
7317.1	.....	2000	Paris	France
7462.7	YR	500	Lyon	France
7590	JFAB	.....	Taipeh	Japan
7963	.....	.....	Doberitz	Germany
7995	JHBB	.....	Hirasio	Japan
8818	.....	.....	Para	Brazil
8995	.....	500	Reykjavik	Iceland
9225	2BL	1000	Sydney	Australia
9369	ZTJ	15000	Johannesburg	South Africa
9369	3LO	1000	Melbourne	Australia
9375	.....	1000	Berne	Switzerland
9375	H9XD	.....	Zurich	Switzerland
9375	FL	15000	Paris	France
9488	.....	500	Lynby	Denmark
9640	FLO	1000	Nairobi	Kenya
9761	72BD	480	Agen	France
9772	EAM	.....	Madrid	Spain
9994	LGN	.....	Bergen	Norway
10520	2FC	1000	Sydney	Australia
10520	2ME	.....	Sydney	Australia
11760	SAS	.....	Karlsborg	Sweden
12490	SQBE	.....	Bahia	Brazil
15300	.....	500	Lynby	Denmark
17430	AGC	.....	Nauen	Germany
17640	PLF	.....	Malabar	Netherland
.....	.....	.....	East Indies	.....
17778	PHI	40000	Huizen	Netherlands
19355	.....	.....	Nancy	France
59964	PK4PA	240	Palembang	Netherland
.....	.....	.....	East Indies	.....







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

# I Thought Radio Was a Plaything

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

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

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

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

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

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

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

And as for the idea that a splendid Radio job might be mine, if I made a little effort to prepare for it — such an idea never entered my mind. When a friend suggested it to me one year ago I laughed at him.

"You're kidding me," I said.

"I'm not," he replied. "Take a look at this ad."

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

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

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

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

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

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

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

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