

THE APRIL 1931

# RADIO INDEX

The Magazine that Doubles the Pleasure of Radio



25<sup>c</sup>

23 Dx Targets and When to Tune for Them  
Fighting Radio's Worst Enemy  
Tuning for Trans-Pacific Stations  
Warning Against Faults of Superheterodyne

# RADIO

By EDGAR A. GUEST

A thing of tubes and wires, and lo  
The miracle of radio!  
The simple dial turning round  
Searches the atmosphere for sound  
And captures from the silent air  
Song, music, eloquence and prayer.

How strange this mystery of things  
Which to mankind such pleasure brings  
And day and night with cheer illumines  
The dreariest and loneliest rooms!  
I never turn the dials round  
But what I feel a thrill profound.

Fed by the magic microphones  
The air takes up its freight of tones  
And carries safely every word  
Till nation-wide the voice is heard.  
A singer in New York appears  
And distant California hears.

Oh happier world, where all may know  
The miracle of radio!  
These things of tubes and wires now grace  
The mansion and the cottage place  
And rich and poor alike may share  
The golden harvest of the air.

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*Written for Grigsby-Grunow Company, manufacturers  
Majestic Radio, and Voice of the Air*

THE APRIL 1931



# RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER  
*Editor and Publisher*



SEVENTH YEAR

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# FIGHTING Radio's Worst ENEMY

**L**AST month we published an article on the a-b-c of radio theory for the benefit of those new readers of this magazine who are entirely unfamiliar with the rudiments of radio. We now continue with a discussion of some of the troubles the novice meets.

As we have seen the antenna system of the radio set picks up electrical impulses or vibrations from the air or ground and these are carried to the speaker, and the program with which we are in tune is reproduced just as a record is on a phonograph. With a phonograph extraneous or unwanted noises are introduced into the program by the scratch of the needle or by a crack in the record. Radio, too, has its extraneous noises. These are of two kinds, nature-made and man-made.

The natural noises are called static. These are caused by electrical charges in the air due to certain meteorological or weather conditions. During a flash of lightning, there will be a crashing in the speaker due to the rush of this release of electrical energy to the ground. In hot weather there is a similar crashing which at times is so bad as to make reception impossible from anything but local stations. The reason for this is that the noise of static is increased when the volume control is turned up. Local stations come in with the volume control down to a point where the noises are minimized.

## Home-Made Static

Man-made noises are distinguished by their regularity as compared to static which is always irregular in character. Such noises invariably come from electrical wiring or devices and may be divided into two parts. First are those from within one's own house which are therefore under the control of the set-owner. The second group comes from outside the house and these are usually beyond the owner's control. In the first group may be mentioned lightning-arresters on the radio, telephone or electric-wire grounds. The new oxide film or "pellett" type arrestors never

## Another Article in A-B-C's

cause trouble but the older types were prolific sources of radio noises.

Probably over fifty per cent of interference comes from electrical devices in the home of the set-owner. These are caused by vacuum sweepers, heating pads, violet-ray machines, flat-irons, electric ranges, oil burners, refrigerators, etc., etc. Any device that causes a spark makes a noise that will be picked up by the radio set. Even snapping a light off and on will cause a momentary crash. A lamp which has been loosened to extinguish the light can be jarred into a connection sufficient to cause a noise and a dead lamp may also create interference. Door-bells, telephone dials, electric fans and washing machines are common offenders. Cheap sockets and plugs, overloaded circuits, loose joints are other sources of trouble.

## Finding the Trouble

To locate the source of our trouble there are two steps we must take. First we must make sure the trouble is not in the radio set itself. To do this unhook the aerial and ground leads and connect the two posts together with a very short wire. If the noise continues it is within the set. If it stops, it is outside the set. The next step is to ascertain whether the interference comes from within the house. To do this the simplest method is to run the power lead to a neighbor's house, disconnecting, of course, your own regular outlet. If the noise stops the cause is within your own house. If it continues it is from the outside.

When the interference is found to come from one's own home, it is a case of running down the offending source. This is done by noting which electrical devices are in use when the noise is present. Many of the causes mentioned can be removed; a few cannot. The interference caused by dialing on a telephone, for instance, cannot be remedied until the telephone company finds some way to prevent it as the company will not permit

devices to be attached to the telephone and, in any event, the ordinary filters used to prevent noise would also prevent the voice from coming in over the telephone wires.

Take out all dead lamps, tighten all others in their sockets. Make sure all connections of wires to outlets are tight. When buying a motor-driven device such as an oil-burning furnace, electric refrigerator or motor washing machine, insist that the motor be protected against radio interference. See that the carbon brushes on all old motors are in good shape so they will not spark. Sandpaper



*"Onward Christian Soldiers!" So sings Seth Parker while "Ma" Parker plays the organ. These lovable characters, played by Phillips Lord and Effie Palmer, appear in the NBC weekly program "Sunday at Seth Parker's."*

the armatures and tighten all wire connections. What are known as "filterettes" are on the market which can be attached to various electrical devices to by-pass high-frequency currents and prevent noises. Write to the Filterette Division of the Tobe Deutschmann Corp., Canton, Mass., for a copy of their catalog.

#### Outside Noises

As has been stated, noises from outside the house are usually beyond the control of the set-owner, but many of them can be eliminated by cooperation with the proper authorities. One of the most common causes is a limb of a tree touching an electric wire. The electric company will be glad to remedy this by trimming the tree because anything

*(Continued on page 19)*

## Is There a Station Masquerading as NBA?

WHEN the Prince of Wales visited the Canal Zone, he was so much attracted to a certain young woman living there that her pictures were published in all the papers. This girl was the daughter of the American naval officer in charge of the Balboa radio station and dozens of our readers sent us clippings to prove that this indicated that there was an NBA station. Of course there is an NBA but it is a naval station and not a broadcasting station as we were advised last month by naval authorities.

Undoubtedly the fact that KGER, Long Beach, California, broadcasts frequently from Balboa of that state, is responsible for many readers believing they have heard NBA but now so careful an observer as Joseph Stokes of Swissvale, Penna., reports that NBA is back on the air again. So many of our readers have been writing to the authorities in the Zone that they have heard NBA that now we have those authorities themselves thinking there must be another NBA.

C. S. Wells, Concord, N. H., sends us a copy of a letter he has just received from W. Klaus, Lieut. U.S.N., District Communication Officer, Balboa, Canal Zone, which reads as follows:

"There is not supposed to be a broadcasting station in the Canal Zone. But I have received so many inquiries recently relative to NBA broadcasting that I have come to the conclusion there may be a station using the NBA call letters and operating without permission. Static here is so great on the broadcast band that it is next to impossible to get any reception worthwhile and therefore a transmitter could operate without our knowledge."

Lieut. Klaus asks that he be advised of any further reception from NBA with type of announcements and the time. Readers, however, should be very careful to make sure that the calls is NBA and that it is not the California Balboa they are hearing.

# COMBINING Two Interesting HOBBIES

## Puzzles in Radio Stations

**W**ELL, those March puzzles must have been pretty good although so far twenty-eight correct solutions have been received. And some of the successful twenty-eight rub it in and ask for something still harder. "None of them was as hard as those in February," decides Paul J. Keck, 1013 Maple Street, Allentown, Pa. But as we are sending out about a hundred and fifty less premiums this month, a few of our readers must have given up in despair.

Puzzle No. 1 could not have been the sticker for none of the solutions submitted indicated any particular trouble with this one. The starting point was in line 6, and the correct list of calls was as follows: KDKA - WCKY - WTAM - KSL - WBAL - WJAS - WRBJ - WADC - KOA - WCBW - WOAI - CFCT - WAPI - KMBC - CNRR - WRC - CMHD - WOAI - WEAO - WEEI - KOOS - WOR - KLRA - CFAC - WOBW - KSAC. The hardest part of this puzzle was in getting started as it became very easy toward the end when only a letter or two was left in each line.

Here is the correct solution for Puzzle No. 2:

KWKH WLW KWK  
WOS W R BOK  
WRAK NAA WAAW  
G CMKC WFAA X  
TAHWTAD  
KWRRNCFACHWK  
Y M WSAIW H E  
WFIWOWOCFCKWX  
CRCKFBK  
K KGCA CMGA O  
WDSU CIT WEXL  
KIT E M WMC  
CKPC XEW YKCV

Even those who solved No. 3 correctly paid it the tribute of being a sticker. "Several times I almost gave up but perseverance won out and I finally stumbled across the combination," writes William E. Kessel, 411 N. 8th Street, Temple, Texas. We would have sworn there were but eight calls that would fit

the diagram but our readers found two sets and we are giving them both below:

CKCK	CKCK
KGMP	KOMO
WDBO	WRBI
XETF	XETN

For the benefit of those who gave this one up as a bad job, let us analyze it and see how it could have been solved. As the calls must read both horizontally and vertically without reversing any call, it is obvious that we must find two calls beginning with the same initial letter, each of which contains only C K W or X as those are the only letters with which North American calls begin. We find that CKCK and CKWX are the only two calls in the whole list that answer this requirement. We therefore have our first horizontal and our first vertical. All of the X calls have for a second letter E and the third letter must be either F or T and the fourth letter either A E F or N.

No. 2 vertical we have found begins with a K and ends with an E. There are only two calls that answer: KGDE and KORE. We have already found that either of these can be used, and using either as our second vertical makes it very simple to fill in the remaining four letters.

### A Cipher Puzzle

Detectives and military intelligence officers are frequently called upon to translate notes in code or cipher. Our No. 1 puzzle for April is of this form. Each of the figures given below stands for a letter of the alphabet and when these figures are converted into the proper letters you will have fifteen station calls each of which will be found in the Index by Call Letters in the March RADEX. From the figures given you are to fill in the proper letters for these fifteen calls.

8-7-6	6-8-7	1-5-7
1-3-3	2-4-6	2-4-8
2-4-2	8-3-4-1	2-4-2-4
1-5-6	1-5-3	1-5-3-5
6-2-8-7	2-8-1	9-9-8

Puzzle No. 2 for this month is a "hum-dinger" that was worked out by Earl R. Roberts, 4319 East 30th Street, Indianapolis, Ind. Mr. Roberts deserves all sorts of credit for the infinite patience it must have required to compose this problem. It is similar to No. 1 of March except that, instead of miscellaneous letters in each line, Mr. Roberts has succeeded in using station calls. "Herethey-are."

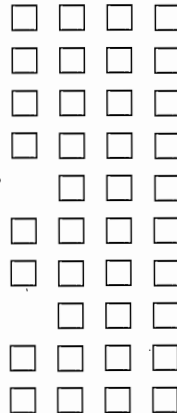
Down		Up
1 KGFL		CKCK 24
2 WGBI		WTOC 23
3 KFX Y		WTFI 22
4 WKRC		WLEX 21
5 CMGE		WOW 20
6 KGB		KFPW 19
7 WCAU		KTAP 18
8 WPAW		WBEO 17
9 WCAJ		WEXL 16
10 WRAF		WOMT 15
11 KWCR		CMBD 14
12 KWLC		WFBC 13

Mr. Roberts suggests that we give only the keys for the above calls but we fear that would be next to impossible to solve. The puzzle appears to us to be hard enough as it is. The problem is to take one letter from each line in the order they are numbered and continue around and around until you have twenty-five other station calls as described below. The hard part is to find the starting point. No letter may be used twice.

- 1 In Georgia.
- 2 In Washington State.
- 3 On 900 keys.
- 4 In Indiana.
- 5 On 1410 keys.
- 6 500 watts in Mexico.
- 7 On 560 keys.
- 8 On 1420 (no stamp).
- 9 In Santiago de Cuba.
- 10 Shares times on 1210 keys.
- 11 On 890 keys.
- 12 On 1430 keys.
- 13 1000 watts in Missouri.
- 14 On Long Island.
- 15 A "K" station on 1500.
- 16 An Illinois daytime.
- 17 In British Columbia.
- 18 50,000 watts.

- 19 5,000 watts P.S.T.
- 20 A Governor's station in Mexico.
- 21 100 watts in Missouri.
- 22 On 1280 keys.
- 23 Shares time with No. 14.
- 24 On 600 keys.
- 25 (Reverse) On 1370 keys.

In Puzzle No. 3 the squares are to be filled with calls in a certain state in such a way that the name of one of its cities will be spelled in a vertical column.



### The January Competition

Almost one hundred cross calls were submitted and it has been an enormous job to analyze them and decide which ones best merited the prizes offered. The first prize of one year's subscription has been awarded to Ivan D. Ide, Box 312, Genoa, Ill. Second prize of a half-year's subscription goes to C. B. Huff, Martinsville, Ind., and third prize of map and cover to Mrs. Eugene Carmichael, 513 Mullin Building, Cedar Rapids, Iowa. We are not publishing any more of the puzzles submitted as, using the same form, many of the parts of the puzzle are repetitive of those that have gone before.

We have just issued a second edition of the Radio Map bringing it up to date and those sending in successful solutions for all three puzzles in this issue before April 20th may have either a copy of this map or a copy of the May RADEX.

All puzzles must be solved in order to win a premium. Last month a number of readers sent in solutions for only one or two of the puzzles instead of all three and these could not be considered.

# Tuning TRANS-PACIFIC STATIONS

**N**OW here is the moon getting the blame, or rather praise, for DX results. Some readers lay it to the temperature and others to the weather and last month one correspondent thought it was proximity to water. But Richard Bogert, 1416 Linden Street, Allentown, Pa., discovers that the moon is the god of radio and does his DXing by the calendar.

"The moon has more to do with DX reception than does the weather. The ordinary DXer can count by the date on the calendar the best time to DX. The best DX reception in the month of April will be between April 4th and 18th. Full moon is on April 2nd. Several days before or after full moon DX is pretty good, the only drawback being that there is usually pretty much static at this time. Look on your calendar to see on what date full moon falls. Wait about four days before you start fishing for DX. Then from this time you can DX to your heart's content for about two weeks and know that DX is as good as it will get. I have read articles of where the coldest weather is best for DX. This does not hold true for me as I have had just as good DX in the warm weather as in the colder climate. Of course, there is more static in warm weather."

It would certainly be interesting to check up on Mr. Bogert's theory particularly with reference to reception of foreign stations. Our west-coast friends are still tuning in Japan night after night and one or two out there report LKO of Norway. We can understand their advantage with the Japanese but are LKO's signals taking a western route? Says Boyd Erlbeck, 110 N. Cordier Street, Lodi, Calif.:

"Have read with quite a little interest your arguments about foreign broadcast. While I haven't had many of these I would like to say that it is entirely possible and in fact living on the Pacific coast easily possible. Any night that I want between 1:30 a.m. and 5:30 Pacific time, I can get several Japanese stations and KGU. The funny part is I have not

## Does a Full Moon Help?

been able to get any stations in Australia, although I have eight in Japan and one in China. They nearly all come in very loud and clear and with hardly any effort. I wish you would suggest a way so that one can verify foreign reception, such as Japanese, because I cannot understand either the signing or talking although hearing them plainly. The same was true of LKO, Oslo, Norway. I listened to them one morning from 2:15 until 4:30, but all they did was talk. Therefore I can't figure out a method whereby I could convince the station broadcasting that I heard their program, speech being unintelligible."

If someone can figure out a means of identifying these stations as Mr. Erlbeck requests, we would be obliged to them. One reader suggested that they be provided with special phonograph records as a means of identification but we can't quite see how that can be worked out. Perhaps a variometer in the aerial lead would help as Mr. E. L. Merten, 315 E. Fountain Street, Colorado Springs, suggests:

## That Lifetime Thrill

"There is something thrilling in those distant call letters that gets one. I find this kind of fishing just as thrilling as angling for members of the finny tribe. I have had my radio for about 14 months and in that time I have been able to log an even 400 stations. My set is a Stewart-Warner electric set, with four 226, one 227 and one 280 and one 171-A tubes. It has a magnetic speaker and I have gotten all of these stations on the loud speaker. However, I must admit that at times the speaker is not so loud. I have been getting Japanese stations every morning at about 3 o'clock MST. My aerial is about 100 feet long (a little too long, I think). However, I have taken a variometer and placed it in the aerial and by turning this I have been able to cut out WHO and WOC and get WBZ-A. As is to be ex-



pected with too long an aerial I get better reception with the ground on the longer waves, and without the ground on the shorter waves."

Victor Hall, W-1117 Grace Avenue, Spokane, Wash., evidently doesn't need any special devices for he says:

"It is just like picking grapes for me to tune in all seven of the 10,000 watt Japanese stations since I put in my new ground. I logged them as I received them and I got them logged in this order, JOFK, JOCK, JOIK, JOBK, JOAK, JOHK, JOGK, and all came in good but JOGK. I use a 5-tube battery set."

But, on the other hand, O. R. Queen, 1534 West Taylor Street, Phoenix, Ariz., has his troubles for he says:

"I am quite a fan and get a lot of pleasure DXing for foreign stations. So far I have tuned in seven Japanese stations and one New Zealand. Also picked up what sounded like a Japanese station on 710 keys. This possibly could have been COMK, Mukden, China. I wonder if someone could give me some information concerning this. I have heard 2YA, Wellington, New Zealand, several times, about 4 a.m. Heard them announce the call letters once. Gave the time as 10 p.m. there when it was 4 a.m. here. Have only heard one Japanese station announce the call letters, which was JOIK on 830 keys. Would like to hear from someone who has heard them announce in English. I have had a 9-tube Philco receiver since October 1st, last year, and so far have logged 157 stations."

#### Japs Do Talk English

"Yes," says G. St. James of 1015 Joan Crescent, Victoria, B. C., "they frequently give at least their call letters in English. I hear at least seven of them on the air the same morning from 1:00 to 4:00 a.m. PST." Mr. St. James (we hope we have that name right, but that's the best we can do with it) also reports COMK Mukden, China, 2YA New Zealand, 4QG Australia, LKO Oslo, Norway, and 5GB Daventry during the last two months. These came in on his Majestic, Model 90-92, with an outside aerial and a "Preston" ground. (We'd like to learn about that ground.) Mr. St. James, too, thinks the Japs have a chain

of their own and so does Wm. E. Kessel, 411 N. 8th Street, Temple, Texas, who writes:

"In my last letter I told you of having received JOAK, JOBK and JOCK. Since then I have logged two more: JOIK and JOHK. I have heard the other two major stations, but due to very bad reception, could not get enough for verification. On an even fairly decent morning they come in here with more volume than is needed. As one reader in the March RADEX said, they do have chain programs.



Mary Charles, CBS Songstress, teaches her prize-winning Persian cat, "Nazir" proper technique of microphone.

Between 5 and 6 a.m. I have heard all five of these stations having exactly the same program. I imagine the other two are also in the chain."

Mr. Kessel goes on to say:

"I have had my present set about a year and in that time have logged 304 stations, which may not seem so good to some of the northerners, but which isn't so bad considering the extremely bad weather conditions here. During spring, summer and fall I can't DX at all and I don't have over seven really good nights during the winter. I have had two good nights so far this winter and on those I logged JOAK, JOBK, JOCK and what was evidently JOHK. I got JOAK on 875 keys. and I got a Japanese station on

(Continued on page 24)

# SIMPLE REMEDIES for Complex Troubles

*In your opinion, which is the best type of radio receiver, a neutrodyne or a superheterodyne? How do they compare in respect to tone and range?*

Both of the receivers referred to give good results, if well made according to the latest manufacturing designs. For range I would say that a superheterodyne is superior to most neutrodyne receivers, but for tone quality, both are about on the same par. Improvements in superheterodyne receivers have eliminated the troubles previously encountered in respect to tone quality.

## A Frying Noise

*I have an Atwater Kent receiver, Model No. 55, which has a peculiarity that no one has as yet been able to remedy. With no volume control turned on, but only the current required to light the tubes, a frying sound is produced. I have disconnected the aerial and ground from the set but the sound still continues. Tubes have been tested and replaced. One radio service man claims that it is outside interference but I don't see how this is possible without the aerial connected and no power turned on. Sometimes the noise is so bad that it interferes seriously with programs coming in. I have had the set only a year, logging over 400 stations before this trouble commenced. Can you kindly suggest where the trouble may lie?*

There are so many causes for your particular trouble that it is almost impossible to lay the finger on the vulnerable spot. Presumably the trouble lies in the volume control, which may be defective, in poor contact between the tubes and the tube sockets, or it may be caused in the power pack by a broken-down or leaky condenser. The proper thing to do in this case is to take the set to a reputable radio service man who can test these parts, one by one.

## Insufficient Range

*Our Atwater Kent is a 1925 model. The set works well on all the stations we receive but due to some unknown reason I have triple tuning. Another difficulty is the fact that I cannot get WFBR and WCBM although I am located within*

## First Aid for the Radio Set

*10 miles of these stations. On the other hand station WCAO, which has only half the power of WFBR, comes in exceptionally well. I would greatly appreciate it if you would explain where to find the trouble and what to do to cure it.*

The stations that you do not get are on the lower end of the dial while the one you get exceptionally well is at the other end. This indicates that the radio-frequency coils are wound to get the stations on the upper end, which in most r.f. receivers come in with less volume than those on the lower end. The remedy for this trouble is to reduce the number of turns on the secondary windings of the r.f. coils. Taking off too much, however, would cause the set to work inefficiently at the points where you are now getting good results.

## Police Break In

*My radio receiver is a Tyrman eight-tube superheterodyne. The police radio stations of Milwaukee and Chicago break right into my programs. Can you explain this or suggest a remedy?*

The trouble you are experiencing with undesired signals coming in and interfering with your reception, is undoubtedly caused in the oscillator stage. If the trouble has developed just recently, try a new oscillator tube. In case this does not help, a wavetrap may be found effective as a cure, provided the set is operated on an aerial. The construction of an efficient wave trap has been fully covered in the September, 1929, issue of Radex, No. 31.

## Resistance Values

*Will you kindly tell me the proper center-tap resistance to use across the secondary of a power transformer in my current-supply outfit for a 6-volt secondary and also for the 160-volt secondary?*

Use a 20-ohm potentiometer across the 6-volt taps and a 60-ohm potentiometer across the 160-volt output of your power supply in order to get the electrical center point between the terminals.

### Headphone Resistors

*In hooking up the circuit concerning the use of headphones on modern receivers, recently explained in Rader, I asked the radio dealer for a 500,000-ohm variable resistor as suggested, but he told me that a 50,000-ohm resistor would be sufficient for my set as I am using a 171A power tube in the last stage of an RCA superheterodyne. Is this correct?*

Your radio man is quite correct in suggesting the use of a 50,000-ohm resistor for your purpose as you will be able to get a better control with this value with a 171A tube.

### Overloaded Eliminator

*I am using a Sears-Roebuck 25-cycle A-eliminator which has a 2½-amp. output, on my H.F.L. 9-tube superheterodyne, using four 222 tubes, three 201A, one 112A and a 171A tube. The eliminator worked satisfactorily for about seven months and then began to fail in volume. I then replaced the rectifier unit, which corrected the trouble for a while, but after some time the trouble started again. Now I must get a new rectifier every 40 or 45 days. The eliminator uses the type 12 BL rectifiers. I have checked the radio set for a short circuit but cannot find any. There is no hum in the set but at times it becomes very noisy. Can you kindly tell me what the trouble is?*

In the first place your receiver draws more current than the A-eliminator can handle without being seriously overloaded, and this causes the rectifier to give out at frequent intervals. What you need is an eliminator having a greater output so that the rectifying tubes will not wear out so quickly. Then there is also the possibility that there is a short-circuited condenser in the receiver that passes some of the current.

### Dead Spot on Dial

*I have a Crosley "Showbox" which works fine except from 590 to 550 kilocycles. Between these frequencies stations do not come in and static is not even received. Until recently stations could be tuned in at any point on the dial but this trouble seems to blanket some of them.*

In cases where a signal cannot be obtained at a particular point on the dial, as in your case, but were previously tuned

in at such a point, the trouble is undoubtedly caused by a short circuit between the stator and rotor plates of the variable tuning condensers. This is plainly indicated by the fact that all signals are cut off as soon as the dial is rotated to this point. As your set worked satisfactorily until recently, it seems that one of the plates must be bent so that it touches an adjacent one on the other side. Carefully examine the plates, one by one, while turning the



*Andy escaped jail for breach of promise but we fear he has other troubles ahead. (Moral: Use Pepsodent.)*

condenser back and forth around the point where the signals do not come in, until the short is found.

### Pilot Flickers

*I have a new 11-tube Philco and would like to know what makes the pilot or panel light flicker so that it becomes dim and bright at various times. I tightened the bulb and examined the wire and the connections thoroughly. This light flickers only at intervals, which causes the receiver to pop and splutter so much that I cannot enjoy distant reception.*

Considerable trouble has been experienced with defective pilot lamps, which cause a variation in brilliancy ac-  
(Continued on page 22)

# SEEKING Will-o'-the-Wisp STATIONS

## Tuning for the Tantalizers

**F**OLLOWING the discussions of the last several months in regard to aerials and grounds, a number of our readers have been carrying on interesting experiments in order to improve their reception. The following letter is from Paul J. Keck, 1013 Maple Street, Allentown, Pa.:

"Following your directions in the February RADEX for the U.S. Standard ground I sank a pipe in the back yard about 25 feet from the house and now am using that as one of my aerials. I have this aerial and the one on the roof connected to a pole switch under the set and so can easily switch from one aerial to the other. I find that on the average any station from WJZ down (540) came in louder on the ground aerial. WEAJ comes in much better. Stations above WJZ, with the possible exception of WABC, came in stronger on the roof aerial. I checked this both day and night with the same results. I got Laconia, N. H., Sunday a week ago. I know of three persons in this town who had them at the same time. They come in very loud. Anyone in this locality can easily get them if they know when they are on."

We have had a number of reports from the middle west of the reception of WKAV, Laconia, N. H., while it will be recalled that readers in New Hampshire report that they have never received it. This illustrates the uncertainty of radio. Here is a report of a peculiar station from W. W. Winthrop, Jackson, Mich.:

"Every day now for the past two months I have heard a station on approximately 800 kcys. broadcasting from early morning until sunset. This station never gives its call letters and it broadcasts the same piece of music hour after hour. I do not think it could be any of the three distant stations listed on 800, because the signal is constant and does not fade. This would indicate that it is fairly near Michigan, although if so, it

is of low power. Other listeners here have reported hearing the station. Since October, with my 5-tube Midget, I have listed 291 stations covering all but three frequencies, including four Cuban stations, two of them 150 watts, five Mexican, nine Canadian and 29 on the west coast. VAS is about my best catch."

M. Tuchinsky, 3436 Filbert Street, Philadelphia, Pa., answers some questions and asks some. Both are respectfully referred to our readers:

### WLY, KTU and NAL

"For the information of your puzzled readers who inquired about the following: WLY in Fort Monmouth, N. J. (Long Branch), is a fixed point-to-point station of the U.S. Army, is used for government business only, and therefore has no set hours of operation nor any set frequency. KTU, Redding, Calif., is a Municipal Airport station, for point-to-point and aeronautical communication, owned by Boeing Air Transport, Inc. It operates on 278, 3,172 and 5,660 kcys. or 1080, 94.57 and 53 meters respectively. Do you have any information on NAL, the Washington, D. C., Navy Yard? They are listed for 690 kcys. The call book says they give the weather at 2045 GCT., type A3 (voice) transmission. What is GCT 2045?"

A number of DXers have reported their inability to bring in KOB in spite of the 20,000 watts it is supposed to use and consequently New Mexico is still vacant on their logs. Don Townsend, 1421 Arch Street, Berkeley, Calif., supplies the following information:

"You ask if KZM is still on the air. It is. KOB broadcasts daily except Sunday from 11:55 a.m. to 1:00 p.m. and daily from 7:00 a.m. to 9:00 p.m. MST. KMTR is on all night every night. I have logged 172 stations since last March. I have 70 verified and 40 others are out. I have received six different countries without the use of short wave or earphones. I have received 16 Canadian, five verified; two Mexican, verified; four Cubans, two verified; two Japanese, one JQAK, Kwantung, and the rest in

the U.S. I have received nine from New York, one 100-watter. I get my best distant reception in the early morning about 5 a.m. I use an Atwater Kent 6-tube battery set, Model 30."

F. E. Holley, 6540 S. Lincoln Street, Chicago, Ill., says that the station A. Murphy heard advertising blankets and silverware was undoubtedly KMMJ, Clay Center, Neb., in 740 kcys., and adds:

"TGW of Guatemala is given in U.S. Department of Commerce list as having 50 watts on 571 kcys. TJJW, of Hamilton, Bermuda, using 12 watts on 1480 kcys. recently gave a test program for the Chicago Daily News DX Club. Also I wonder how many of your readers know that the Daily News DX Club has a program over WMAQ every Monday night from 10:45 p.m. to 11:00 p.m. CST., in which a lot of good information on changes, test programs, etc., is given."

#### Tuning by Tens

While we know there are sets that will do it, mostly those in the 'superheterodyne class, yet with the average receiver a person who is located fairly close to two powerful stations on adjoining frequencies can hardly expect to separate them entirely. While the Government has separated stations by at least 10 kcys., yet authorities admit that this is hardly enough. The following complaint and question is from H. R. Thompson, 338 Madrona Street, Phoenix, Ariz.

"I have a Melrose Neutrodyne 8-tube electric set. This set used five 227, two 245, and one 280 tubes. The set is a wonderful distance getter and is satisfactory in every way, save that it is not selective enough to separate stations in adjoining channels. For example, KRLD on 1040 kcys., a 10,000-watt station about 900 miles east and KNX on 1050 kcys., about 450 miles west, are impossible of separation on my set, while more modern sets owned by friends completely separate these stations with no cross interference whatever. Can you advise me of some manner by which the set could be made more selective?"

There are some 18,000 amateur stations in the United States and we know of no publication that gives their fre-

quencies. We are glad to help identify these amateurs for readers whenever possible. Recently a number of readers from all over the country have reported hearing W9CJH, which is listed as belonging to Francis W. Brashears, R.F.D. No. 3, New London, Mo., with 150 watts. Regarding this station Mrs. P. G. Hauss, 221 S. Butler Avenue, Indianapolis, Ind., writes:

"Can you give me any information regarding station W9CJH, New London,



Gertrude Berg, author of "The Rise of the Goldbergs." (NBC Saturdays at 7:30.) Miss Berg plays the mother, Molly Goldberg. These skits are to be published in book form with an introduction by Eddie Cantor.

Mo.? I heard them on the morning of January 26th and wrote to them for a verification, but they never answered. They said that they were using 30 watts and used the slogan, 'Where the long-eared jackasses grow, and we're proud of it.' They came in on as high a frequency above 1500 kcys. as my dial will reach, probably about 1600 kcys. I would sincerely appreciate any information you can give me regarding them. I have just recently received a verification from JOGK, Kumamoto, Japan."

We understand that W9JCH has de-  
(Continued on page 20)

# MEXICAN Situation Grows WORSE

## Four-Country Treaty Badly Needed

**D**R. JOHN R. BRINKLEY'S avowed plan to establish a powerful broadcasting station in Mexico, now that he has been forced to relinquish his station in Kansas to new hands because of the court ruling sustaining the Federal Radio Commission's decision that his medical advice broadcasts were contrary to public interests, has focused attention anew on the radio situation in Mexico.

Not only the Kansas "goat gland specialist," who threatens to build a 50,000 watter just across the Rio Grande to operate on the wave length of the radio station owned by his arch enemy, WDAF of the Kansas City Star, but other American interests have gone into Mexico or propose to go there to erect radio stations for the plain purpose of reaching the American audience.

The Mexican situation is already aggravated by the growing number of radio stations there, some built and backed by American capital. Interference is constantly being reported on the wave lengths being used by American and Canadian stations. The interference problem will undoubtedly force the American and Canadian governments to parley with Mexico soon, for the Mexican government is placing no real restrictions upon its broadcasters.

From a scant handful of stations a few years ago, Mexico now has 40, ranging in power from 10 to 10,000 watts. Eight have powers of 1,000 watts or more, the highest powered being XED at Reynosa, on the Rio Grande, with 10,000 watts, and the next highest being XEW and XEO, in Mexico City, with 5,000 watts.

The Mexican Government exacts an annual station license fee of approximately \$1 per watt. This, according to observers, is practically the only restraint upon increasing powers, for radio advertising is not yet profitable enough there to warrant many really powerful

stations. Most of the stations are clustered in and around Mexico City and the other larger centers of population, although the number of stations near the American border is growing.

Many of the Mexican stations are regularly heard in the Southwestern states and some still farther, despite the fact that the same or approximately the same channels are being used by stations in the United States and Canada. Among those frequently heard on this side of the border are XET, Monterey, on 630 kilocycles; XFG, Mexico City, on 638; XEN, Mexico City, recently shifted off 719; XEQ, Juarez, 750; XEW, Mexico City, 780; XEG, Mexico City, 910; XEO, Mexico City, 940, and XED, Reynosa, 961.

The station at Juarez, just opposite El Paso, Texas, frequently broadcasts liquor advertising, exhorting American listeners to cross the border and slake their thirsts in a land of non-denial. Some of the stations are being put to political uses, one being used by the former publisher of the famous Mexican newspaper *El Universal*, for purposes of "oral journalism." Phonograph records furnish a large part of the program material, and there is some resentment because the highly popular American jazz music is "driving out native music."



*Joe Weber and Lew Fields who have brought laughs to theatre-goers for nearly fifty years. Webster program, NBC, Saturdays at eight.*

THE Mexican stations seem to change places like a kaleidoscope and it is quite impossible to keep them listed correctly. No sooner do we publish one official list than we begin to hear from our readers that they are already receiving those stations on altogether different frequencies. Last month we received an official list and changed our records accordingly. Now we receive a list direct from the official of the Mexican government in charge of radio and do not know whether to again change all of our records or not as many of the frequencies shown are those in use before the former list was received. The new list, for instance, shows XEH on 1132 whereas a letter from the owners of that station advises us that their proper frequency is 1080. When the radio station and the government authorities disagree what can a poor editor do?

Hoping that the discrepancies can be cleared up this month, we are not making wholesale changes in our index but are giving below the stations on which the authorities disagree and our readers will have to take their choice. The frequency in the first column is that shown by RADEX based upon the former official list. In the second column is shown the frequency given by the new list and in the third column are frequencies reported by our readers.

XEA	1000	1200	
XEB	1030	1030	1120
XEC	1000	1333	
XED	977	960	930
XEE*	1000	1132	
XEF*	1000		
XEG**	840	910	
XEH	1080	1132	1100
XEJ	1000	857	
XEK	1000	990	
XEL	1000	1091	
XEM	730	841	750
XEN	719	719	702
XEP	1430	1500	730
XER	650	674	1160
XETA	1140	1140	1160
XEFE	1000	980	
XEU	1000	800	
XEV	1000	1034	
XEX	1210	1190	
XEY	1000	547	

\*The first list shows XEE at Linares and XEF at Oaxaca, both on 1000. The new list does not show XEF but gives XEE at Oaxaca on 1132.

\*\*So many readers have reported XEG announcing with new call letters of XETY and giving their frequency as 840 that we are making the change accordingly although we lack official confirmation.

Stations beginning with XF seem to be government stations exclusively and probably will not verify.

## The New Dixie Network

COLUMBIA Broadcasting System, now boasting a nation-wide network of 80 stations, is forming its Southern outlets into a new unit to be known as the Dixie Network. With WBT, Charlotte, as the key station, the Dixie net will begin operating as such on March 23, comprising the following 11 stations: WWNC, Asheville; WGST, Atlanta; WBRC, Birmingham; WBT, Charlotte; WDOD, Chattanooga; KLRA, Little Rock; WREC, Memphis; WLAC, Nashville; WTOC, Savannah; WDSU, New Orleans, and WNOX, Knoxville.

Columbia entered the new year with unusually high prospects, adding 22 new sponsored and 13 sustaining programs since January 1. Among the new time contracts signed were one with Old Gold for \$600,000 worth of time and another with Cremo Cigars for \$1,611,000 worth of time, the latter one of the largest accounts in radio history. The CBS recently linked KOH, Reno, Nev., as its 79th link, and added service to WLAP, Louisville, though the latter is not listed as a regular network outlet.

## Courts Put Brakes On Radio Commission

ANOTHER setback to its exercise of arbitrary authority was suffered by the Federal Radio Commission this week when the Court of Appeals of the District of Columbia ruled that Station WTMJ, of the Milwaukee Journal, is entitled to relief from the interference resulting when the Commission, without a hearing, placed WFLA-WSUN, Clearwater, Fla., on the regional channel of 620 kilocycles used by WTMJ. The Commission was directed to take steps to enable WTMJ to operate free from interference, the court citing its previous decision in the case of WHAS, Louisville, to show that it does not look with favor on actions taken by the Commission without a hearing which may have the effect of damaging other stations.

# LETTERS From Thirty-Five READERS

## Chat From the Ether

**F**OR the information of Mr. Bronfenbrenner, Thiells, N. Y., my Radiola 62 (superhet) brings in 1500 keys at a setting of  $7\frac{1}{2}$ . I therefore have considerable room to work below the broadcast band.

"Very frequently I get the WTAR harmonic (780 x 2 is 1560 keys.) at a setting of 6. Also often get W2XCD, 1406 keys., at Passaic, N. J., at  $3\frac{3}{4}$ , straight reception, not a harmonic.

"Now, the second harmonic of 630 and the first harmonic of 950 figure out 1890 and 1900 kcys.—close enough to come in together at any and all times the stations are working. These stations are two of my locals, WMAL and WRC, and I get this strange result of listening to both locals at the same time with a setting of 5, which should, it seems from the foregoing, be about 1530 or 1540 kcys. instead of 1890 or 1900.

"Within the broadcast band the set works normally; have logged from actual announcements 264 stations in eleven months, 125 of them last summer during the five month drought with an underground aerial. Static here this winter very bad and DX work difficult, so cannot report any unusual reception."

Thus writes C. E. Currier, 3012 Park Place, N. W., Washington, D. C.

And from B. F. DeVries, 2149 Court Place, Denver, Colo.:

"I have received 120 distant stations in the U. S. this winter, CMK Cuba and XED Mexico and three Canadians. Never can fish later than 9 p.m., as I go to work too early in the morning. I use a Freshman Masterpiece that I modernized, in fact the only things I haven't changed are the coils and condensers. My aerial is the umbrella type. I took a piece of copper about a foot square and ran a wire from it in each direction soldering them to the copper and one lead going direct to the Antenna post of the set. I have another copper plate buried about three feet deep for a ground. I built the

wave trap described in the December RADEX and it works fine. I would like to get some advice on a good booster unit using a 201A tube for a tuned r.f. set."

"I would like to get in touch with other Eveready owners," writes R. R. Rawstron, 15 Edgewood Street, Claremont, N. H. "I have 437 stations since January 21, 1930; 107 are 100 watts or less. I have 18 from the Pacific Coast verified or in process. My 100-watt daylight catches are KFYO, WDIX, KFJZ and KFDN. I have a station from every state but Nevada."

"I have a daytime log of 61 stations outside the local area which includes New York, Atlantic City and Philadelphia," says P. J. Soper, 256 Burroughs Terrace, Union, N. J. "I consider my best daytime catch WMAQ Chicago. WTAM is a regular visitor here during the daylight hours. Other daytime reception takes in CNRO, CKAC, CFCF, CFRB, CJGC, WLS, WOWO, WPTF, WJAC, WCBA, WHAS and WGR. Daytime reception depends, of course, upon atmospheric conditions."

### Grounded Aerial Adds Five

"This morning between the hours of 1:30 and 2:30, I added five more to my list, using the ground aerial described by Dr. Brokaw of Cleveland," states Ivan D. Ide, Box 312, Genoa, Ill. "Have never had any great distance such as Japan, but have 249 stations in a little over a year. For an added thrill I have a Submariner Adapter and go down into the short waves. Have heard a plane phoning to the ground from Wyoming and once I picked up the S.S. Dutchess of York, one day out of Quebec."

S. R. Lewis, Route 3, Box 688a, Toledo, Ohio, has now received a total of 493 stations of which 133 have been verified. He is proud of pulling in Alaska, Hawaii and Porto Rico. He has verifications from Newfoundland, Nova Scotia and New Brunswick and one due from Haiti. Mr. Lewis won a prize from KGGM Albuquerque, N. M., for being the first from Ohio to report that station.



He has 47 verifications from the west coast.

Here is a letter from an old-timer, F. W. Edel, 709 W. Nevada Street, Urbana, Ill.

"Was a DX fan way back in the early days of radio, from 1922 to 1925, and then was out of the game from 1925 until this last fall, when I purchased a baby Philco and have had excellent results. Since last September I have received over 487 stations. I have heard WKAQ, San Juan, Porto Rico, several times. Have picked up 15 Cuban stations, including several 100 and 150-watters. Among the Mexicans, of which I have received 20 in all, I consider my best catch to be XEL at Saltillo. The Australian stations which I have heard, 2YA, 4QG and 2BL, come on about 3:00 a.m. CST. I have never heard the European continent on my set, but I have on those of friends. The best time for them is from about 4:30 a.m. on. Have been having the very dickens of a time keeping with the Mexicans this last fall and winter. They make new additions and change waves almost every week. It's quite a job."

Surely it will be only a time until the Mexican authorities are forced to take a stronger hold of the broadcasting situation in that country. Cuba is already taking steps to improve the situation there as our readers will be glad to learn from the following interesting letter from our Havana correspondent:

#### **Cuban Conditions to Improve**

"So far there seems not to be any more to alter for the April issue. In the course of next month, however, we will see some more changes, as some of the smaller stations will be closed, due to the new tax law.

"If it interests you, there is a new tax in Cuba on receiving sets, levied on all receivers with nine or more tubes. This tax is \$3.00 for sets having nine tubes and 40 cents for each additional tube, payable yearly in June.

"Transmitting stations also have to pay tax, according to power, ranging from \$50 for those under 150 watts to \$500 for those over 2000 watts.

"There is a bill to be passed very soon calling off the stations under 150 watts,

so the air will be at least cleaner and channels distributed somewhat more evenly than they are now. Also a conference will be had with representatives of the U. S. to assign the frequencies with a view to avoiding interference with your stations, also to let Cuban listeners hear your programs without heterodyning from our locals. This bill is only in project but you may advance this as it is absolutely positive from an official source."

In spite of the difficulties with Cuban and Mexican stations, a number of our readers continue to pile up interesting records there. Witness the letter from Richard Caddell, 609 Ridge Avenue, Pittsburgh, Pa.

#### **Shifting Aerial Builds Log**

"I have had my present receiver, an RCA 60 super-heterodyne, just three months and have logged and verified 387 stations in that length of time. I've got 11 from Mexico, 10 from Cuba, 17 from Canada, one from San Juan, Porto Rico, and out of the 387, I've had eighty-three 100-watt, eighteen 50-watt, one 30-watt, and one 25-watt. I change the position of my three 200 foot aerials every week and find that by moving them just a few feet in one direction or another will bring in many new stations. I use an ordinary gas pipe for a ground and some nights, according to weather conditions, I don't use it at all, or sometimes I connect it to the aerial wire that runs from my set, and disconnect the aerial, using the ground for an aerial, and get good results that way. I received KWAQ, Porto Rico, using the ground for an aerial. I would like to hear from some of the DX fans, especially in Vancouver, B. C., where I was born."

And this one from Al Palmer, RFD 3, Station A, East Liverpool, Ohio:

"I bought my first RADEX in September, 1930, and on October 1st I started to log all stations received. In the five months since then I have received 409 stations all in U.S., except 23 in Canada, eight in Cuba, six in Mexico, one in Porto Rico. I have received from one to 18 stations on all channels except 1030 keys., and from one to 31 stations

*(Continued on page 26)*

# WARNS Against Super-Het FAULTS

Editor Advises  
Care in Buying

**A** NOTE of warning against indiscriminate buying of the superheterodyne type of broadcast receiver has been sounded by Kenneth B. Warner, editor of the magazine QST, in a statement which calls attention to the trouble that may result from the purchase of a "superhet" in which certain necessary design features may be missing.

"Purchasers of new broadcast receivers should realize that the mere fact that a receiver is a superheterodyne is no guarantee of even reasonable satisfaction," points out Mr. Warner. "Even if it is quite excellent as a superheterodyne, it may turn out to be the world's worst broadcast receiver if certain fundamental precautions are neglected. It is an unfortunate fact that with some two dozen American manufacturers rushing production on superheterodynes, these precautions are either partially or entirely neglected in some of the models now offered the public.

"The design defects referred to relate to the input selectivity and to shielding. Always the weaknesses of the 'super,' these factors are the more aggravated with modern tubes with their greater sensitivity in reception and their greater power as oscillators.

"Good design required the presence of a high degree of selectivity between the antenna and the first detector and oscillator, and thorough shielding, particularly of the oscillator and first detector — coils, condensers, tubes and wiring. If these steps are not taken, the first thing that happens is that the receiver radiates, 'blooming' all over the broadcast band and spoiling reception over a wide radius. But any such receiver is also open to a much more formidable source of trouble — the unwanted reception of short-wave signals which get into the first detector or oscillator and there beat against a harmonic of the oscillator to form a signal which is amplified in exactly the same manner as the desired

broadcast program. And this through no fault of the short-wave station, which may be many miles away and operating in perfect conformance with government regulations.

"A properly designed and properly constructed superheterodyne is probably the finest possible receiver for broadcast reception. False economies in engineering and production costs, and in some cases inadequate design skill, threaten to create much grief for manufacturers, dealers and buyers, however. It is possible to construct thoroughly satisfactory superheterodynes; many of the existing models are quite satisfactory. But a good super will never be a cheap set.

"One can't legislate against offering defective receivers for sale. The remedy lies in education. Manufacturers will save themselves much trouble and money if they perfect their models in the respects named. Dealers would be extremely well advised to make sure that the models they stock are free of these defects. And the buying public should be cautious, look over the models first, and make the dealer guarantee the purchased set against the undesirable features referred to."

## WEE is Biggest Catch

**I**F you DXers want to pull in something you can really brag about, set your dials for 900 kilocycles and try for Station WEE of Philadelphia. If you log this one it is worth more than a whole string of JO's. WEE is the smallest radio broadcasting station in the world. It is owned and operated by the Tiny Broadcasting Company and has a power of four-hundredths of one watt (.04). The sending range is 200 feet.

WEE is a complete broadcasting station in every detail and is located in the lounge room of the Mastbaum Theatre. It required ten months to design and build, being entirely hand-made. The little transmitting towers intermittently flash a red beacon light in accordance with Department of Commerce regula-

tions as a warning to aviators! The entire equipment, including the towers, stands about two feet in height, is about 52 inches long and 19 inches wide.

Tubes used in the tiny transmitter are of the 199 type supplied by batteries. The transmitter was designed and built by the "Mystery Announcer" of WPEN and John R. Boyle, a radio engineer. Although the signals may be picked up on the broadcast band only within the room in which it is located, yet the inventor claims that with short waves and a large aerial, it would be possible for the program to be heard in Europe even with its .04 watt power, which is less than is used for even the smallest light bulb in a home.

## APRIL CHANGES

<b>New Calls</b>		
WWSW	1500	Pittsburgh, Pa., 100 watts.
<b>Locations</b>		
WOKO	1440	Poughkeepsie to Albany, N. Y.
<b>Call Letters</b>		
XEG	840	Mexico City, to XETY
<b>Permit to Move</b>		
WKZO	590	Berrien Springs to Kalamazoo
WLEX	1410	Lexington to Medford, Mass.
KFXJ	1310	Edgewater to Grand Junction
<b>Deletions</b>		
CHMA	580	Edmonton, Alta.
WOAN	600	Lawrenceburg, Tenn.
CJSC	690	Toronto, Ont.
CNRE	930	Edmonton, Alta.
<b>Network Changes</b>		
KFAP	770	NBC Discontinued.
WDAY	940	CBS Discontinued.
KOH	1380	CBS Added.
WOKO	1440	CBS Added.
<b>Frequency</b>		
WGBS	600	New York City, to 1180
CMCF	900	Havana, Cuba, to 890
XEH	1000	Monterrey, Mex., to 1080
WICC	1190	Bridgeport, Conn., to 600
KUJ	1500	Walla Walla, Wash., to 1370
<b>Power</b>		
CJGC	910	London, Ont., 500 to 5000
XEH	1000	Monterrey, Mex., 100 to 5000
WJBW	1200	New Orleans, La., 100 to 30
WQDX	1210	Thomasville, Ga., 50 to 100
WRAW	1310	Reading, Pa., 50 to 100
WTEL	1310	Philadelphia, Pa., 50 to 100
WRAK	1370	Williamsport, Pa., 50 to 100
CMBR	1500	Havana, Cuba, 15 to 35
<b>Owners</b>		
WENR	870	Chicago, Ill., to National Broadcasting Co., Inc.
WMMN	890	Fairmont, W. Va., to Holt-Rowe Broadcasting Co.
KFKB	1050	Milford, Kans., to Farmers & Bankers Life Ins. Co.
WABZ	1200	New Orleans, La., to Samuel D. Reeka.
KFUM	1270	Colorado Springs, Colo., to Reynolds Radio Co., Inc.
WRBI	1310	Tifton, Ga., to Oglethorpe University.
KECA	1430	Los Angeles, Calif., to Earle C. Anthony, Inc.

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## Chosen For High Power

**E**XCEPTIONS to Chief Examiner Yost's high power report, selecting eight of the applicant broadcasters seeking power increases to 50,000 watts and recommending 11 others for increases to 25,000 watts, were being filed this week by counsel for all but one or two of the unsuccessful applicants. Friday of this week was the limit for filing exceptions to the Yost report, after which the Commission is to take up his recommendations along with the exceptions and render its decision.

Since only eight clear channels are available for boosts to 50,000 watts under the Commission's order limiting to 20 the number of channels on which that power may be used, it is expected the Commission will adopt the Yost report. There is a possibility, however, that it will not affirm all eight Yost selections and a probability that it will reject Yost's proposal that 11 go to 25,000 watts.

Whatever the Commission's decisions, it is practically a certainty that the unsuccessful stations will appeal to the courts and thus hold up all or most of the power grants for perhaps a year. Yost chose the following for 50,000 watts; WJZ, New York; WCAU, Philadelphia; WSB, Atlanta; WSM, Nashville; WGN, Chicago; WCCO, Minneapolis; KOA, Denver, and KPO, San Francisco. He selected the following for increases to 25,000, nearly all of whom were expected to file exceptions: WBZ, Boston; WHAM, Rochester; WOR, Newark; WHAS, Louisville; WAPI, Birmingham; KVOO, Tulsa; WBT, Charlotte; WHO-WOC, Des Moines-Davenport; WMAQ, Chicago; KSL, Salt Lake City, and KGO, Oakland, Cal.

### Just Off the Press

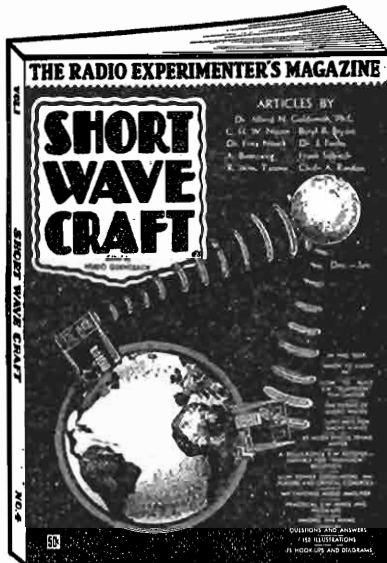
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As per your special offer I enclose \$1.80, for which please enter my subscription for one year to **SHORT WAVE CRAFT** and send me also the first and second issues gratis. I understand that **SHORT WAVE CRAFT** is published on the 15th of every other month. (Regular yearly subscription—\$3.00.)

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## Their Time on the Air

THE following information regarding time on the air of certain much-desired stations is secured from various sources—from readers, from newspapers and from the stations themselves. We believe the time given to be authentic.

State or Province	City	Call	Freq.	Watts
Manitoba	Brandon	CKX	540	500
	Mon., 7:30-8:30 p.m., CST.			
	Wed.-Fri., 8-10 p.m., CST.			
British Columbia	Vancouver	CKWX	730	100
	Wed.-Sat., 11:30 p.m.-1 a.m., PST.	CKMO	730	50
	Fri., 11:30 p.m.-3 a.m., CST.			
Mexico	Mexico City	XETY	840	2000
California	Los Angeles	KMTR	570	500
	All night.	KGfJ	1200	100
	All day and night.			
	Pasadena	KPSN	1360	1000
	Weekdays, 7:30-8:30 a.m., 12:30-2:30 p.m., 6-7:30 p.m., PST.			
Illinois	Zion	WCBD	1080	5000
	Wed., 11-12 p.m., CST.			
Colorado	Colorado Spgs.	KFUM	1270	1000
	Thu., 8 p.m.-2 a.m., MST.			
	Sat., 11:45 p.m.-12:30 a.m., MST.			
Nevada	Reno	KOH	1380	500
	Weekdays, 8 a.m.-8 p.m., PST.			
	Sundays, 9 a.m.-9 p.m., PST.			
Rhode Island	Providence	WJAR	890	250
	Weekdays, 8 a.m.-11:30 p.m., EST.	WEAN	780	250
	Weekdays, 7:30 a.m.-1 a.m., EST.	WSYB	1500	100
Vermont	Rutland	WSYB	1500	100
	Sundays, 1:30-4 p.m., EST.			
	Weekdays, 10-11 a.m., 12-1 p.m., 6-9 p.m., EST.			
Wyoming	Casper	KDFN	1210	100
	Sun., 9:45 a.m.-1:45 p.m., 5-9:30 p.m., MST.			
	Weekdays, 9 a.m.-1:30 p.m., 4:30-9 p.m., MST.			
West Virginia	Fairmont	WMMN	890	250
	Fri., p.m., and Sat., a.m., EST.			
Indiana	South Bend	WSBT	1230	500
	Fri., p.m., and Sat., a.m., CST.			
Oregon	Portland	KEX	1180	5000
	Weekdays, 6:45 a.m.-5 p.m., 8 p.m.-3 a.m., PST.			
New Mexico	State College	KOB	1180	20000
	Weekdays, 12-1 p.m., 5-9 p.m., MST.			
Vermont	Burlington	WCAX	1200	100
	Fri., 7:30-8:30 p.m., EST.			
Nebraska	Lincoln	WCAJ	590	500
	Fri., 11:30-12 p.m., CST.			
Michigan	Berrien Spgs.	WKZO	590	1000
	Weekdays, 6:15 a.m., CST.			
Dominican Rep.	Santo Domingo	HIX	1370	1000
	Sundays, 8:30-9:45 p.m., EST.			
Honduras	Tegucigalpa	HRB	1370	2300
	Sunday, 8:30-9:45 p.m., EST.			
	Weekdays, 7-12 p.m., EST.			

## Radio's Worst Enemy

(Continued from page 3)

that causes a noise in this way does so by wasting power. Transformers on nearby poles are often blamed but it is said that these are seldom at fault. Cracked insulators are frequent offenders and may cause noises which will give trouble for many miles around. X-ray machines, storage battery chargers, annunciator systems, stock tickers, ignition systems, electric elevators, electric welders, are other common trouble-makers.

To remedy neighborhood noises can be done only by cooperation. If the set-owners in a neighborhood will go at the thing seriously they can rid their vicinity of these terrible noises that make radio a nightmare instead of a pleasure. Form a club or secure the cooperation of a newspaper or of the city council and get one of the instruments which when carried around the neighborhood will quickly point out the source of the trouble. There are meters which are as accurate as a steam-gage. All that is necessary is for the operator to carry the instrument up and down streets and alleys, in and out of buildings, watching the hand on the meter swing backward and forward. These instruments are so simple that anyone can learn to operate one in a few minutes.

Another method is to secure a good receiving set which operates from a loop and take it in an automobile up and down the streets of the neighborhood. Tune in the noise to it loudest by turning the loop and mark the location on a map together with the direction of the loop. Take at least three readings and the center of the lines will show the approximate location of the cause of the interference.

When the sources have been traced to their lair, secure the cooperation of the owners of the offending devices to install the proper filterette that will eliminate the noise. Many cities are passing ordinances making such elimination obligatory. Ask your council to do likewise.

Whole communities frequently suffer from radio noises only because someone does not take the initiative to remedy the situation.

**In Next Month's Issue:**

**How to Build a Short  
Wave Adaptor for  
A. C. Sets.**

## Will-o'-Wisp Stations

(Continued from page 11)

vised an entirely new scheme of modulation. If this is the case it must be a dandy, as very few amateurs are received in such distant sections of the country. Such stations as this are on a frequency just above the limit of most dials, although a number of sets do not stop at 1500 kcs., but, as in the case of Harold Rowe, Medaryville, Ind., will reach as far up as 1800. Mr. Rowe writes:

"C. E. Roach, Loudonville, Ohio, stated that he picks up short-wave stations as high as 1604. I have a Silver-Marshall super-heterodyne and receive stations nearly to 1800 kcs. W2XR television station at Long Island City, N. Y., comes in at 1604 kcs., and has been announced by that station as 1604 kcs. In the March RADEX, Albert E. Cotes, Jr., reports a station WIBS. This station is the Michigan State Police at Lansing, Mich. They are on a frequency of between 1600 and 1700 kcs. I hear them about every day."

In addition to the amateur stations there are a large number of airport and police stations throughout the country. We do not have a list of these arranged for quick reference but we cannot understand any of them being permitted to transmit in the broadcast band. However, Guy B. Welsh, 114 Brown Street, Reynoldsville, Pa., takes exception to our statement:

"In the February RADEX you said that Airport stations were above 1500 kcs. You must have been mistaken because I have heard about 30 between 1500 and 550 kcs. Does anyone know where it may be possible to get a list of such stations? You can tell RADEX readers to try to get WCAJ on Friday nights after midnight to 2:00 a.m. EST. KGKY broadcast every Friday from 2 to 4 a.m. (early Saturday morning). If any reader wants a list of the broadcasting periods of all CNR stations in Canada, all they need to do is request one from any of the stations carrying CNR programs. I have logged 475 stations in every state but Wyoming."

The call letters beginning with "CH"

are assigned to Canada and therefore this call heard by Robert H. Buckley, 624 Stowe Street, Kent, Ohio, must be a Dominion station as yet unlisted:

"I heard a station on 640 kcs. signing off at 10:10 p.m. giving the call letters as CHIC. They announced in a foreign language then in English. Can you tell me who this station is and where located? Can you explain the peculiarity of the low wave stations coming in on my Bosch? I have no short wave set and therefore would appreciate if you can explain why short wave stations come in."

As already explained, some condensers will reach beyond 1500 kcs. into the short wave band.

### Failure to Verify

Many readers report difficulties securing verifications, as in the case of Herbert V. Haussler, Box 15, Pratt Station, Brooklyn, N. Y. He says:

"Two stations of which I'd like to complain are WLEX and WODA. I sent 10 cents and program to WLEX on January 21, 1930, and a following reminder on April 11, 1930. To WODA I sent a program and 10 cents on October 4, 1930, and a follow-up on November 30, 1930. Receiving no reply to either, I sent another letter with return postcard enclosed on January 9, 1931. All these were ignored."

Neither of the stations which failed Mr. Haussler is indicated in RADEX as verifying reception either by letter or stamp. Those stations which are not marked in the index as verifying are blank only because they did not take enough interest in the matter to fill out our prepaid reply card. Therefore they are very poor risks for verifications.

Last month some reader reported hearing a station in Gretna, Neb., with the call letters KMRS. The Federal Radio Commission advises us that no such station has been authorized.

Paul Robinson, 2267 86th Avenue, Oakland, Calif., is interested in loop aeriels and readers who have had experience with this type of antenna are asked to send us the result of their experience. Mr. Robinson writes:

"Could you inform me of the type of

loop aerial that Mr. Baskys of Chicago and Mr. Roberts of Brooklyn use? I have tried a Kolster made loop (no power of reception) and two I made myself, but no directional selectivity. If you could collect any information on loops would it be possible to print it in your magazine?"

As stated above, some sets will go outside the broadcast band and bring in stations above 1500 kcys., but on the other hand a great many sets will not even go to 1500. One reader not long ago complained that below 600 and above 1400 on his set the announcer "gargles." This is quite a fair description of a great many sets, such as the one of which Mr. M. J. Tuggles, 2312 E. 59th Street, Cleveland, Ohio, complains:

#### "Graveyard" Stations

"I have a Spartan receiver, No. 931. I am writing to ask you what shall I do in this particular case. I cannot get any station below WGAR, 1450 kcys., Cleveland. Also at the very top of the dial on 550 kcys. stations come in very weak. What can be done to right it?"

Following are some brief comments, inquiries and replies which will be of general interest to our readers:

Anyone having hook-up for headphones for a Zenith Automatic Model 52 please communicate with J. A. Bachman, 204 N. 34th Street, Philadelphia, Pa.

"Station WIBU has moved from Poynette, Wis., to Portage, Wis. Also you have been listing station WJBT of Chicago as a Sunday station only. This station is also on the air every weekday from 7 to 8 a.m. with a program of phonograph records." John Slightam, Route 2, Richmond, Ill.

"One night last week I picked up WBZ, Boston, where, as your February RADEX shows, only WBZ-A at Springfield, Mass., is. Please explain in your next issue." F. G. Parker, 107 West 14th Street, Topeka, Kans. WBZ and WBZA are now synchronized as one station. We therefore show the combined station as WBZ-A.

"I receive WLW and other eastern stations regularly after 5 p.m. I use a triangular aerial with sides about 85, 80 and 55 feet long. It is better than the

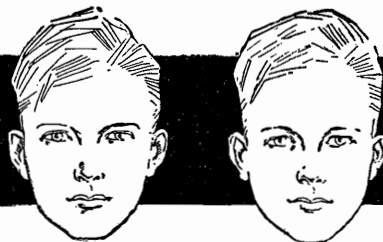
same wire in one straight line." Shearon Bonner, Jr., Woodacre, Calif.

"In the morning of February 12th at about 4:15 EST. I picked up a radio station that announced it was 9XA testing. Do any of the readers know where that station is located?" Harold C. Schmidt, 1219 Page Street, Toledo, Ohio.

"Could some of your readers give me some information on KGU, Honolulu, time on the air, etc.?" R. E. Moran, 540 Parkdale Avenue, Ottawa, Ont.

"I think that Frank H. Ludwig, Barnsdall, Okla., heard KGPC, St. Louis Police, not KGBZ." R. R. Rawstron, 15 Edgewood Street, Claremont, N. H.

"Has anyone ever heard CMV on or about 1030 kcys., or of CMHX on or about 785 kcys.? It wasn't CMHC either. Both located in Havana." Orval Wyse, Archbold, Ohio.



## One of these Boys Will Fail - IF

Both possess equal health and intelligence, both have qualities for success—but one stammers. Where the one will succeed the stammerer will fail.

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## Simple Remedies

(Continued from page 9)

panied by noises in the receiver. The first thing to do is to change the pilot lamp. Another possible cause for the trouble is a fluctuating line current, which can be overcome by using a voltage regulator.

### Trouble on Two Sets

*I have a Starck "Classique" five-tube battery operated receiver and cannot get any volume. I can barely hear the signal the loudspeaker. The center dial can be turned any way and the response is the same. Can you tell me what the reason for this is. I also have a Radiola superheterodyne which has given considerable trouble. The repair man told me that the catacomb has given out. He melted the pitch from the catacomb and found that it was full of very fine wire and told us it could not be repaired.*

On the Starck receiver there must be an open circuit in either the primary or secondary winding of the center radio-frequency coil, or in the leads connected to this coil, as indicated by the inoperation of the center tuning dial. The catacomb on the Radiola superheterodyne is undoubtedly defective and should be replaced with a new one. This can be done by a Radiola dealer or the coil will be replaced by the manufac-

turer, but there will, of course, be charges for this renewal.

### Aerial and Power Lines

*Our store room, in which we wish to install a radio set, is located near some power lines running at right angles to each other. We were wondering if it would be best to run the antenna diagonally between the two so that it will not be parallel to either one. Or would you think that there would still be interference from the lines?*

If you are going to erect an aerial on the roof, your suggested arrangement is the best under the circumstances. However, I think that a better method of eliminating interference from the power lines, would be the use of an underground antenna. If your store room is wired for lighting current, you might also try the use of a socket antenna, as this will probably give you satisfactory results, and is much cheaper than an underground antenna.

### Substituting Screen Grids

*Although I have been getting excellent results with my "Collegian" midget receiver, I was wondering whether results could still be improved by the substitution of a screen-grid tube for the present 227 tube. Would this increase the power and pickup?*

A screen-grid tube cannot merely be substituted for another tube in a radio receiver without a corresponding change

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in the wiring. A special circuit is necessary for the screen-grid type and if a set is not already designed for its use, it is highly inadvisable to make the change.

#### Too Much Local

*I have a six-tube battery-operated set and use a B-eliminator. How can I prevent harmonics from local stations. These are high-powered stations situated about three blocks from my location and they come in all over the dial. I have tried the aerial in every direction and also in various lengths, besides using a non-directional aerial and three separate wave traps. The use of the wave traps seems to help but prevents getting distance. Some days the trouble is worse than other days.*

In your case I cannot help but say that your predicament is just too bad. Trouble such as this has stimulated the design of modern shielded receivers. Your set is of the old type and the radio-frequency current is picked up by the coils in the set so that you can easily get the signals from the neighboring stations without having the aerial connected at all. The only way out is to get a receiver of the latest design which is thoroughly shielded throughout. With such a set you will be able to get other stations while the local ones are broadcasting, but you will perhaps also notice that the local ones are broad and come in a little beyond the point where they are tuned in properly.

#### This Leak Leaks

*In one of your recent articles on the control and reduction of static you advised the use of a small fixed condenser and grid leak connected between the aerial and ground of a receiver, stating that this would reduce the severe static crashes. I have tried this but as soon as the condenser and 500-ohm leak are connected, the signals stop and do not come in at all. Is this a peculiarity of my set or is the information incorrect?*

The method of reducing the effects of static you are referring to is not new but has been in general use by radio fans for some time. Where it works satisfactorily on a receiver having a high r.f. gain, it should work on any receiver, provided the condenser is not short-circuited and it is correctly hooked between the aerial

and ground. One side of the condenser is connected to the aerial while the other side runs to the ground. Your use of a 500-ohm leak is, to all appearances, the cause of your trouble. Such a low value is practically a short circuit to a radio-frequency current. Use a 2 or 3-megohm leak and you will find the hook-up helpful.

#### 245 Tube in Radiola

*In the February issue of Radex, on page 11, one reader writes in telling how he improved his Radiola 60 by substituting a 245 tube for the 171A previously used. He does not state whether the improvement was made in selectivity, sensitivity, tone or volume and I would be pleased to have you give me more detailed information in this respect. Also in changing the leads on the lugs he mentions numbers 8, 9, 10 and 11. From which end of the lug support must I start counting if I make this change?*

The 245 tube has an output approximately equal to that of a 210. Thus its amplification and consequently volume of the set is increased. However, the most important feature of the 245 tube is that it greatly improves the tone quality of the set. On the Radiola No. 60 the lug connected to the plate of the last tube is No. 1, while 2 is next, etc.

#### Blurred Reception

*I recently purchased a five-tube radio frequency receiver called the Continent Master, which is battery operated. The two transformers and one of the condensers were missing when I got it, and I have substituted two 3½ to 1 ratio transformers and a .00035-mfd. variable condenser. This set, since it has been overhauled, has much volume and I can get distant stations, but the reception is blurred and scratchy. Having no diagram of the wiring, it may be possible that a 5 to 1-ratio transformer should be used in one stage, or it is possible that a 23-plate condenser would be better suited than the 17-plate condenser which I installed, putting one stage out of balance with the other stages. The .00035-mfd. condenser tunes the aerial. Can you give me any information that will help me to find the cause of the trouble?*

Neither the transformers nor the 21-

plate condenser that you have installed in your receiver, are the cause of the trouble. It may be that one of the bypass condensers is defective, which can only be determined by testing them. Also, if you are using a magnetic loud-speaker, the fault may lie here. Try your speaker on another radio if possible, and see if the reproduction is any better. A third possibility is that one or more of the tubes are defective, and finally that the C-bias of the last stage is incorrect, which can be tested. A 200A detector may also be found better than one of the 201A type. It is not advisable to substitute a 5 to 1-ratio audio transformer as this would increase the distortion.

## Trans-Pacific Stations

*(Continued from page 7)*

775, which was evidently JOHK. I am awaiting verifications from these stations. I also received a foreigner on 765 which was playing Hawaiian music and seemed to be talking English. Can anyone give me any information on this? It was received between 4 and 5 a.m. CST. on Sunday morning."

Can anyone help Mr. Kessel identify his Hawaiian music? Walter A. Hicks, 1395 E. 16th Street, Portland, Ore., also wants a little help:

"In the last month or so I've heard a station, which I think is the same one, at two different places. First at 610 kcys., but lately from 590 kcys. It is Japanese. They sign off regularly at 4:30 a.m., but I cannot get the complete call letters clearly. At 610 it sounded like JOAG, the first three letters being almost unmistakable. At 590 it sounds like JOAK or JOJK. Can anyone give me any information on this?"

And Berma Colbert, 804 N. 6th Street, Temple, Texas, asks for some information. Perhaps Mr. Kessel, who lives in the same city, can supply it.

"I wonder if some of the RADEX readers could help me on the Japan stations. I have heard JOFK, JOGK, JOCK, JOBK, JOIK, JOHK and JOAK, but there is one on 710 kcys. I would appreciate any information. They were on the air February 23rd between 4 and 5:30

o'clock. I have also logged WKAQ, 2BL and have heard 4QG. My log is now 332. I am very weak on Mexicans, Cubans and Canadians.

Perhaps this information also from Boyd Erlbeck will answer Mr. Hick's question:

"There is a new 10,000-watt station in Japan on 590 kcys. with call letters JOKK. Ollie Ross, champion DXer from Vallejo, reports that they are Yokohama. I have picked them up two or three times recently. You might tell Mr. Wheeler, of Erie, Pa., that KMJ, Fresno, is still 100 watts and that he must have some set to get them louder than KFI, as I live only 65 miles from KMJ and can't do that."

Now for those of us whose sets aren't good for trans-Pacific flights, Charles M. Royal, Routel, Box 438, Seattle, Wash., sets up a target nearer home.

"Tell Mr. John W. Christie, Montreal, that the station he hears on 660 kcys. through WEAFF's signals is probably CJRW, Fleming, Sask. They broadcast on 600 kcys. but several times a month they change to 660 kcys. and broadcast in conjunction with a S.W. station in Winnipeg. I can hear WEAFF very good out here, but when CJRW tries 660 kcys., that is all I get. Tell your DXers to try 10AY, Kelowna, B. C. They broadcast every other Sunday from 12:30 a.m. to 2:30 a.m. (Sunday) on 1200 kcys. If KWSC is on the air they use 1250 kcys., 50 watts.

Perhaps Mr. Royal supplies the information about a station in Kelowna, B. C., requested by Stanley Savage, Route 4, Spokane, Wash., who writes:

"On January 25th, Sunday, at 1:30 a.m., I listened for one-half hour to a program coming from a station in Kelowna, B. C. I couldn't get the call letters as it was coming in very faintly. However, I heard them say twice that they were in Kelowna in the center of the Okanagan valley. They were coming in on 1252 kcys. Kelowna is only 200 miles from here so it must have been about a 15-watt station. CJOC in Lethbridge, Alta., is supposed to be on 1120 kcys., but they come in sharp at 1100 kcys. on exactly the same figure as WPG in Atlantic City, which I've received

several times. I received five Japanese stations the day before yesterday morning between 1:50 a.m. and 4:30 a.m., JOAK, JOCK, JOIK, JOHK and JOGK."

But getting back to foreign reception, here's a record: "On February 22nd, I heard programs and station announcements in six countries in less than ten minutes," writes R. R. Rawstron, 15 Edgewood Street, Claremont, N. H. "They were: U. S., Canada, Mexico, Cuba, Porto Rico and Bermuda. The last-named was TJW in Hamilton on 1490 kcys. with only 12 watts." "Now, ain't dat sumpin?" Mr. Rawstron reports an unlisted station on 900 kcys., announcing as KFPP St. Paul. Can some of our Minnesota readers tell us about it?

And who has heard a station with the slogan "The Voice of South America?" George C. Shoemaker, 1415 Longfellow Street, Washington, D. C., heard it on 1220 kcys. Mr. Shoemaker wants to know what foreign stations are the easiest to get. So far as our set is concerned, one is just as easy as the other! But perhaps there is some one Japanese station which comes in better than the rest. If so, which one is it?

W. R. Barnes, 11 Burlington Crescent, Toronto, Ont., gives the short wavers a target — VE8GW at Bowmanville, Ont., with 27.5 watts on 6095 kcys. Weekday schedule 6:45-8 a.m. and 3 p.m.-midnight EST.

Jimmie Manners, 23 Heil Avenue, Trenton, N. J., heard a program with music so weird that he thought sure it must be Japanese. Who knows?

"I have received, in the three months that I have had my set, 391 stations, 32 from the west coast. I am using an 8-tube four screen-grid Baldwin set. I use an aerial 124 feet long. On most distant stations I had been bothered with very much static, so while looking over last month's issue I saw the piece about Ollie Ross so I constructed a ground similar to his and I find that it clears up reception over 50 per cent. For several nights last week, about 2 a.m., I heard a station on 1150 kcys. The music was monotonous and weird, boy, it sure

started the shivers racing up and down my backbone. It sounded like tomtoms and some kind of very high, shrill instruments. It used all my volume. I was wondering if it might be a foreign station, as on the west coast station I only have to use half of my volume."

And here's a letter from the other side of the world telling us what time to tune in our own stations in order to get them best. The writer, George Inglis, of New Zealand, tunes in our North American stations every night and, as we recall his former letter, all he has is an old Browning-Drake battery set which he built himself. Yet we receive letters every day asking what is the best set for distance! Says Mr. Inglis:

"By the way, your map is great and I know where all my stations are now. I have received quite a lot of verifications lately and the following said they hadn't been heard in New Zealand before: KUL, WSB, KGIR, KFYO. I also had a card from CKMO a few weeks ago. KOY is on every Saturday night till 1:30 a.m. MST. KTBS said they are planning to present a regular Saturday program from 11:30 p.m. lasting about two hours. On Saturday, January 3rd, I heard KFXXF from 1:30 a.m. to after 2 a.m. MST., so they might run a regular late program. KCRC is on from midnight Saturday till 6 a.m. CST., and KWJJ is on every night till 1:30 a.m. PST."

With George Inglis out on a sheep-ranch 12,000 miles away — almost exactly through the earth from us — giving us word for word reports of our own station announcements, where does this leave the fellow who insists "there ain't no such animal" as foreign reception?

## Radio in ABC

The article in March brought the signals to the antenna and this month we describe the unwanted noises the set picks up.

Next month we will present a third article in this series in which will be described in very simple terms, just what happens inside the set.

## Letters From Readers

*(Continued from page 15)*

in all states in the Union except four. I have had WFAA, Dallas, at noon and WRUF, Gainesville, at 11 a.m., while at the same time I could hardly receive WHAS, Louisville, although in the same direction as Dallas. The outlaw station WGM broadcasts nearly all day now and announces as WGM, Jeanette, Pa., and when CFCA comes on the air it is only a squeal. WBBM, Chicago, has a howl or squeal all through the day, which I presume is caused from KFAB, Lincoln."

We haven't much right to complain of heterodynes from Cuba and Mexico as long as our own Radio Commission continues to turn loose upon a suffering public two such powerful stations as WBBM and KFAB simultaneously on the same wave. Yet we read every once in a while the statement of some one of the commissioners that everything is now lovely.

Our DXers continue to pull in the trans-Pacific stations, particularly those who reside on the west coast. Writes Clair Calavan, Jefferson, Ore.:

"I am quite a DX hound myself, although I do not have such a great number of stations to my credit. In the last two years have logged 278 stations from New York and Havana to Australia and China. I have heard 18 stations across the Pacific, nine of them in Japan, seven in Australia, and one each in China and New Zealand. JOIK, Sapporo, JOBK, Osaka, and JOAK, Tokyo, and probably the best Japanese stations, but Chicago interferes with JOAK. The Mexican and Cuban stations have been causing a good many heterodynes lately, especially on 730, 750, 780 and 860 kcys. I have logged eight Mexican and two Cuban stations."

Our readers are using almost as many kinds of aeriels and grounds as sets. Here is one that was popular several years ago — a metal plate under the telephone in which the felt on the bottom of the phone acts as a condenser. It has the unique advantage of automatically cutting off the radio when one picks up the phone to answer a call.

"Have used many types of aeriels, but I find that the west coast and Mexico come in better on a metal plate under the telephone. I've received six Mexican stations, four Cuban and 39 on the west coast, including CKWX and CNRY in Vancouver, B. C. The other evening I added WDEL, Wilmington, and KTAR Phoenix, to my list, two states I had never been able to get before. Still lack four states, Maine, Rhode Island, New Hampshire, and Nevada." Paul Kinzle, 2439 Davenport Avenue, Davenport, Iowa.

We will now give some brief excerpts from letters from our friends quoting something of their records. We are sorry it is impossible to use every letter we receive and those whose records do not appear should write us later.

"I have one of the Scott Transformer Company's 1931 supers. This is a remarkable set and if conditions are at all favorable I can pull in KNX on 1050 kcys. as soon in the evening as KFKB on the same wave length signs off. WBAL on 1060, KTHS and KRLD on 1040, which come in exceptionally strong here in the east, are only 10 kcys. from KNX on either side, yet the Scott receiver cuts them completely out." C. R. Brown, Box 112, Tazewell, Va.

"In the past two years I have tuned in 273 broadcasting stations. I have verifications from all states in the Union except Vermont, South Carolina, Arizona, Wyoming, Idaho, Nevada and Washington. My set is an old battery operated Bremer Tulley Counterphase Six constructed by my father. It has served me faithfully considering that I have never had it permanently neutralized and cannot touch stations below 1450 kcys. I would appreciate hearing from any fan who could inform me how to neutralize my set to cover the entire range with maximum selectivity and power." Donald Sleeper, 6 Young Street, Worcester, Mass.

"Have logged 525 stations, including 10 Mexican and eight Cuban on my 8-tube superheterodyne. The four states I have not heard from are New Hampshire, Vermont, Wyoming, and Nevada. Last Monday night I heard a station on

*(Continued on page 62)*

## KEY TO CHAIN STATIONS

CFCF 1030 N	KPRC 920 N	WCAU 1170 C	WHAS 820 N	WNAC 1230 C
CFRB 960 C	KRLD 1040 C	WCCO 810 C	WHEC 1440 C	WNAX 570 C
CKAC 730 C	KSCJ 1330 C	WCFL 970 N	WHK 1390 C	WOAI 1190 N
CKGW 690 N	KSD 550 N	WCKY 1490 N	WHO 1000 N	WOC 1000 N
KDKA 980 N	KSL 1130 N	WCSH 940 N	WHP 1430 C	WOKO 1440 C
KDYL 1290 C	KSTP 1460 N	WDAE 1220 C	WIBO 560 N	WORC 1200 C
KECA 1430 N	KTAR 620 N	WDAF 610 N	WIBW 580 C	WOW 590 N
KFAB 770 N	KTBS 1040 N	WDBJ 930 C	WIOD 1300 N	WOWO 1160 C
KFH 1300 C	KTRH 1120 C	WDBO 1120 C	WISN 1120 C	WPG 1100 C
KFI 640 N	KTSA 1290 C	WDOD 1280 C	WJAR 890 N	WPTF 680 N
KFJF 1480 C	KVI 760 C	WDRC 1330 C	WJAS 1290 C	WQAM 560 C
KFKX 1020 N	KVOO 1140 N	WDSU 1250 C	WJAX 900 N	WRC 950 N
KFPY 1340 C	KWK 1350 N	WEAF 660 N	WJDX 1270 N	WREC 600 C
KFRC 610 C	KYW 1020 N	WEAN 780 C	WJJD 1130 C	WREN 1220 N
KFSD 600 N	WABC 860 C	WEBC 1290 N	WJR 750 N	WRR 1280 C
KGO 790 N	WACO 1240 C	WEEI 590 N	WJZ 760 N	WRVA 1110 N
KGW 620 N	WADC 1320 C	WENR 870 N	WKBN 570 C	WSAI 1330 N
KHJ 900 C	WAIU 640 C	WFAA 800 N	WKBW 1480 C	WSB 740 N
KHQ 590 N	WAPI 1140 N	WFAN 610 C	WKRC 550 C	WSM 650 N
KLRA 1390 C	WBAL 1060 N	WFBL 1360 C	WKY 900 N	WSMB 1320 N
KLZ 560 C	WBAP 800 N	WFDM 1230 C	WLAC 1470 C	WSPD 1340 C
KMBC 950 C	WBBM 770 C	WFI 560 N	WLBW 1260 C	WSUN 620 N
KMOX 1090 C	WBCM 1410 C	WFLA 620 N	WLBZ 620 C	WTAG 580 N
KOA 830 N	WBEN 900 N	WGAR 1450 N	WLIT 560 N	WTAM 1070 N
KOH 1380 C	WBRC 930 C	WGL 1370 C	WLS 870 N	WTAQ 1330 C
KOIL 1260 C	WBT 1080 C	WGN 720 N	WLW 700 N	WTAR 780 C
KOIN 940 C	WBZ-A 990 N	WGR 550 C	WMAL 630 C	WTIC 1060 N
KOL 1270 C	WCAE 1220 N	WGST 890 C	WMAQ 670 C	WTMJ 620 N
KOMO 920 N	WCAH 1430 C	WGY 790 N	WMC 780 N	WTOC 1260 C
KPO 680 N	WCAO 600 C	WHAM 1150 N	WMT 600 C	WWJ 920 N
				WWNC 570 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 WEAJ 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)

**6:45-8:00 Tower Health Exercises**  
WEAF WEEI WFI WGY WCAE WRC  
WBEN CKGW

**8:00-8:15 Gene and Glenn—Quaker Early Birds**  
WEAF WJAR WEEI WTAG WCSH WFI  
WRC WGY WCAE WTAM WJWZ 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 WCKY 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 WWNC WXYZ WBCM WDOD WREC  
WLAC WBRC KSCJ WMT KMOX KMBC  
KOIL KFJF KRFJ KTRH CFRB

**9:15-9:45 Campbell's Orchestra**  
WEAF WJAR WLIT WTAG WCSH WRC  
WDAF WBEN WCAE WHO WTAM WSAI  
KSD WOW WOC WWJ CKGW (WLS on  
9:30)

**9:45-10:00 A. & P. Program**  
WEAF WJAR WTAG WCSH WRC WGY  
WCAE WTAM WWJ WOC KSD WHO  
WDAF WTMJ WBCB 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  
KFJF WTAM KSD WTMJ KSTP WBCB  
WAPI WSMB WOAI KTHS KVOO KPRC  
WKY WEEI WGY WMC WBEN

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

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

**1:30-2:00 Hotel Orchestra**  
WABC WHEC WLBZ WEAN WPG WFAJ  
WJAS WLBW WMAL WCAO WTAR WDBJ

WKRC WAIU WWNC WXYZ WBCM WDOD  
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 WWNC WGST WXYZ  
WSPD WDOD WREC WLAC WBRC WDSU  
WOWO WFBM WMAQ WCCO KMOX KMBC  
KOIL KFJF KRLD KTSa KLZ KDYL  
KVI KOL KFPY 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 WWNC WXYZ  
WBCM WSPD WDOD 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 WECB 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 CFCE

**7:30-7:45 Phil Cook—Quaker Man**  
WJZ WBZ WBZA WHAM KDKA WREN  
KWK WTMJ WBCB KOA KSL KGO  
KECA KGW WRC KOMO KHQ KPSD  
KTRAR 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 WBRC WDSU WFBM  
WGL WMAQ WCCO WMOX KMBC KOIL  
KFJF WRR KTSa

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

**11:15-11:30 Arthur Pryor's Cremona Military Band**  
WADC WKBW WKRC WHK WOWO KMBC  
WLBW KOIL WJAS KMOX WFBL WSPD  
WGST WBCM WBRC WDOD WRR KLZ  
KOIN KOL KFPY WHP KTRH WFBM  
KLRN WCCO WISN WREC WCAH WLAC  
WDSU KRFJ KSCJ KTSa KDYL WBW  
WMT KFH WKBN WNAX KOH WTAQ  
WLAP WOKO WACO

#### Sunday

**1:00-2:00 National Oratorio Society**  
WEAF WJAR WCSH WRC WGY WCAE  
WTAM WWJ KSD WOW WOC WHO

WDAF CKGW WTMJ KSTP WEBC WHAS  
 KPO KOA KGW KFSD KOMO KECA

**1:30-2:00 Ballad Hour**  
 WABC WHEC WGR WPG WFAN WMAL  
 WTRAR WNNC WXYZ WDDO WLAC WDSU  
 WISN WTAQ WCCO KMOX KMBC KLZ  
 KOH CFRB

**2:00-3:00 Cathedral Hour**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WPG WCAU WHP WMAL WCAO WTRAR  
 WDBJ WKRC WNNC WBYM WBAQ WDDO  
 WREC WLAC WBRW WFBM WMAQ WBBM  
 KSCJ WMT KMBC WDAY KOIL WLBW  
 KFJH KFJF KRLD KTRH K TSA KLZ  
 CFRB

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

**2:30-3:00 NBC Artists Service Program**  
 WEAFF WOV WWJ KSD WGY WRC  
 WCAE CFCF

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

**3:15-5:00 New York Philharmonic Orchestra**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WCAU WHP WJAS WLW WMAL WCAO  
 WTRAR WDBJ WKRC WAU WNNC WXYZ  
 WBCM WSPD WDDO WREC WLAC WBRW  
 WFBM WMAQ WCCO KSCJ WMT KMOX  
 KMBC WDAY KOIL WLBW KFH KFJF  
 KRLD KTRH KLZ KPRC

**4:00-4:30 Williams Oiliomatics**  
 WJZ WBZ WBZA KDKA WJR WGAR  
 WLW KWK WREN KFAB WBAL

**4:00-5:00 Dr. S. Parkes Cadman**  
 WEAFF WEEL WJAR WCSH WTAG KOA  
 WOV WKY WOAI 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 WBAP WSB  
 WSMB WAPI WBEN WRVA WIOD

**5:00-5:30 Rev. Donald Grey Barnhouse**  
 WABC WFBL WGR WEAN WDRG WNAC  
 WCAU WJAS WMAL WADC WRC WXYZ  
 WSPD WWOV WMAQ KOIL KRLD WRR

**5:00-6:00 Davey Hour**  
 WEAFF WJAR WTAG WCSH WFI WRC  
 WGY WCAE WTAM KSD WSAI WENR  
 WOC WEO WOV WDAF CKGW WBEN  
 WEEL 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  
 KTAR KGO KGW KHQ WSM WKY  
 WSB WOAI WAPI WSMB WBZ WBZA  
 WGAR (KFAB on 5:15) (WBFO on 5:30)

**5:30-6:00 Sweethearts of the Air**  
 WABC WFBL WKBW WEAN WDRG WNAC  
 WFAN WCAU WJAS WMAL WADC WKRC  
 WXYZ WSPD WWOV WBBM KMBC KOIL

**6:00-7:00 Catholic Hour**  
 WEAFF WEEL WJAR WTAG WCSH WRC  
 WGY WWJ WEBC WIOD WKY WJDX  
 KGO KSTP WSMB KOMO KSD KGW  
 WCAE KECA KTAR WFJC WOC WHO  
 WDAF WJAX WFLA WSUN WHAS WMC  
 WSB WBAP KPRC WOAI WRVA KOA  
 KVOO WSAI WSM WFI WBO WLIT

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

**7:00-7:30 Westinghouse Salute**  
 WJZ WBZ WBZA WBAL WHAM KDKA  
 WGAR WJR WCKY KYW KWK WREN  
 WJAX WIOD WHAS WMC WSM WSMB  
 WJDX KVOO WOAI WKY

**7:30-8:00 RCA Victor Program**  
 WEAFF 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 WOAI WKY  
 KOA KSL KGO KFI KTAR KFSD  
 KGW KOMO KHQ

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

**8:00-8:15 "Devils, Drugs and Doctors"**  
 WABC WFBL WHEC WGR WEAN WDRG  
 WNAC WCAU WJAS WMAL WCAO WADC  
 WHK WKRC WGST WXYZ WSPD WREC  
 WLAC WBRW WDSU WISN WOV WFBM  
 WMAQ WCCO KSCJ KMOX KMBC KOIL  
 WLBW WRR K TSA KLZ KDYL KVI  
 KOL KFPY KOIN KHJ KPRC

**8:00-9:00 Chase and Sanborn Choral Orchestra**  
 WEAFF WJAR WTAG WCSH WRC WGY  
 WCAE WWJ WSAI KSD WOV WIOD  
 WBO KSTP WHO WOC WHAS WLIT  
 WEBC WMC WSB WSMB WKY KTHS  
 KPRC WOAI WTMJ WTAM WJDX WIOD  
 WFLA WSUN WDAF WTC KVOO WBEN

**8:15-8:30 Rhythm Choristers - Freddie Rich**  
 WABC WHEC WEAN WNAC WCAU WJAS  
 WMAL WCAO WTRAR WADC WHK WNNC  
 WSPD WDDO WDSU WISN WTAQ WCCO  
 KMBC KRLD KLZ KOH

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

**8:45-9:00 Piano Pals**  
 WABC WHEC WEAN WNAC WJAS WLBW  
 WMAL WTRAR WADC WHK WNNC WXYZ  
 WSPD WDDO WDSU WISN WTAQ KMOX  
 KLZ KOH CFRB

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

**9:00-9:30 Coty Playgirl - Irene Bordoni**  
 WABC WFBL WGR WEAN WDRG WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WXYZ WSPD WWOV WBBM KMOX  
 KMBC KOIL

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

**9:30-9:45 World Adventures with Floyd Gibbons**  
 WJZ WBZ WBZA WHAM KDKA WJR  
 KWK WREN KYW WCKY WGAR

**9:30-10:00 Graham-Paige Hour**  
 WABC WFBL WKBW WEAN WDRG WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WBT WGST WTOP WQAM WDBO  
 WDAE WXYZ WSPD WREC WDSU WOV  
 WBBM WCCO KMOX KMBC KOIL KFJF  
 KRLD KTRH K TSA KLZ KDYL KOL  
 KFPY KOIN KHJ KPRC

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

**10:15-10:30 Boswell Sisters**  
 WJZ WHAM WGAR WREN  
 WTMJ WOA1 WBZ

**10:15-10:45 National Dairy Productions**  
 WEA4 WEI1 WJAR WTIC WTAG WCSH  
 WFI WRC WGY WBEN WCAE WTAM  
 WJ1 WSA1 WOV WDAF WSB WAPI  
 WSMB WJDX WRVA WJAX WIOD WFLA  
 WSUN WHAS WSM WMC

**10:30-11:00 Kaffee Hag Slumber Music**  
 WJZ WBZ WBZA WHAM KDKA WJR  
 WJW WKW WREN

**10:45-11:15 Sunday at Seth Parker's**  
 WEA4 WEI1 WCSH WRC WGY WOW  
 WDAF CKGW WTMJ KSTP WCAE WTAM  
 WFCJ WWJ KYW WOV WIO WBCB  
 WJAX WIOD WHAS WSM WJDX KPRC  
 WKY KOA KGO KGW WSB KTAR  
 KPFD WRVA WREN WLIT

**11:00-12:00 Back Home Hour**  
 WABC WHEC WLBZ WPG WHP WMAL  
 WTAR WDBJ WXYZ WBCM WSPD WIOD  
 WREC WLAC WFBM WCCO WMT WDAY  
 WNAJ W1BW KFH KFJF KRLD KTRH  
 K TSA

**11:30-12:00 Russian Cathedral Choir**  
 WEA4 WRC WJRC WJW WBAP KOA  
 WOW WSB WGY WTAM KSTP WBCB  
 WIOD WHAS WREN

## Monday

**3:30-4:00 Sixteen Singers**  
 WEA4 WRC WOC WHO KSD KSTP  
 WTAM WGY WWJ

**3:30-4:00 Chicago Serenade**  
 WJZ WHAM WJR WLW WLS KDKA  
 WFLA WSUN WMC WAPI WJAX WGAR

**4:00-4:30 Dance Orchestra**  
 WJZ WBAL KSTP KTAR KOA KGO  
 KWK KFSD WHAM WSM WSB WSMB  
 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  
 WAIU WWNC WXYZ WBCM WSPD WIOD  
 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 WAIU WWNC WXYZ WBCM  
 WSPD WIOD WREC WLAC WBRB WCCO  
 KSCJ KMOX KMBC WDAY KOIL W1BW  
 KFJF KRLD KTRH K TSA KLZ KOL  
 KFRC CFRB

**6:00-6:30 Gordon Kibbler's Orchestra**  
 WABC WFB1 WDRB WFAN WHP WLBW  
 WMAL WCAO WTAR WDBJ WADC WKBN  
 WBT WXYZ WBCM WREC WLAC WBRB  
 W1SN WFBM WGL WBBM WCCO KSCJ  
 KLRA WDAY KFJF KRLD KTRH KLZ  
 KVI KOL KFPY KHJ 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  
 WSMB

**7:00-7:15 Current Events—Kaltenborn**  
 WDBJ WKRC WWNC WXYZ WBCM WIOD  
 WBRB KSCJ WMT WDAY KOIL WABC  
 WHEC WLBZ WORC WHP WJAS WLBW  
 WMAL WCAO WTAR W1BW KFJF KTRH  
 KTRH KOL KFRC

**7:15-7:30 Tastyest Jesters**  
 WJZ WCKY WHAM WBZ WBZA WREN  
 KDKA WRC WGAR

**7:45-8:30 Roxy's Gang Program**  
 WJZ WHAM KWK WSB WSM KFAB  
 CKGW W1BO WGAR

**8:00-8:15 "How's Business?"**  
 WEA4 WJAX WJAR WRC KSD WCAE  
 WWJ KOMO WSAI WDAF WJDX KGO  
 KVOO KECA KHQ WFLA WSUN WHAS  
 WBEBC WSMB KGW W1RL KFSD KSL

**8:15-8:30 Pennzoil Pete**  
 WEA4 WEI1 WTIC WJAR WCSH WLIT  
 WRC WBEN WCAE WTAM WSAI KYW  
 KSD WOC WIO WHAS WSM WMC  
 WSB WDAF WBEBC WRVA WPTF WFLA  
 WSUN WIOD WSMB WJDX WKY KTHS  
 WFAA WOA1 CKGW WTMJ WWJ KSTP

**8:15-8:30 Barbasol Program**  
 WABC WFB1 WKBW WEAN WDRB WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WXYZ WSPD W1SN WFBM WCCO  
 KMOX KMBC KOIL

**8:30-9:00 A. & P. Gypsies**  
 WEA4 WEI1 WTAG WJAR WTIC WCSH  
 WLIT WRC WGY WCAE WWJ WSAI  
 WGN KSD WOC WDAF WTAM WOW

**8:30-9:00 Luden's Novelty Orchestra**  
 WJZ WBZ WBZA WJR KDKA WLW  
 KYW KWK WREN KFAB CKGW

**8:30-9:00 The Simmons Hour**  
 WABC WFB1 WGR WEAN WDRB WNAC  
 WORC WPG WCAU WJAS WLBW WMAL  
 WCAU WTAR WDBJ WADC WHK WKRC  
 WAIU WWNC WBT WGST WXYZ WBCM  
 WSPD WREC WLAC WBRB WDSU WTAQ  
 WOWO WFBM WMAQ WJDX WCCO KSCJ  
 WMT KMOX KMBC KOIL W1BW KFH  
 KFJF WRR KTRH KLZ KDYL KOL  
 KFPY KOIN KHJ KPRC CFRB

**9:00-9:30 Maysa's Orchestra**  
 WJZ WBZ WBZA WHAM KDKA WJR  
 KWK KYW KSTP WREC KTHS WKY  
 WOA1 KOA KSL KGO KECA KGW  
 KHQ KOMO KVOO WLW WFAA KPRC  
 WGAR

**9:00-9:30 The Three Bakers**  
 WABC WFB1 WHEC WKBW WLBZ WEAN  
 WDRB WNAC WORC WPG WCAU WHP  
 WJAS WLBW WMAL WCAO WTAR WDBJ  
 WADC WHK WKRC WWNC WBT WGST  
 WFOC WQAM WDBO WDAE WXYZ WBCM  
 WSPD WIOD WREC WLAC WBRB WDSU  
 W1SN WOWO WFBM WMAQ WCCO KSCJ  
 WMT WMOX KMBC KIRA WDAY WNAJ  
 KOIL W1BW KFH KFJF WRR KTRH  
 K TSA KLZ KDYL KOL KFPY KOIN  
 KHJ KPRC

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

**9:30-10:00 General Motors Family Party**  
 WEA4 WEI1 WJAR WCSH WTAG WLIT  
 WRC WGY WCAE WTAM WWJ WGN  
 KSD WOC WOV WSAI WDAF KSTP  
 WTMJ WHAS WSM WMC WSB KPRC  
 WJAX WFAA WOA1 WKY KOA KSL  
 KGO KGW KFI KOMO KHQ WTIC  
 WHO WBEN WCAE

**9:30-10:00 Bourjols**  
 WABC WFB1 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 WFB1 WKBW WEAN WDRB 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 KPRC

**10:00-10:30 Stromberg-Carlson Program**  
 WJZ WBZ WBZA WHAM KDKA KYW  
 KWK WREN WBEBC WRVA WJAX WIOD



WHAS WSM WMC WSB WSMB WOAI  
 KOA KPCC KGO KFI WCKY KGW  
 KHQ KOMO WJDX WFLA WSUN WJR  
 KTAR KFSD WAPI WKY WGAR

**10:00-10:30 Adventures of Sherlock Holmes**  
 WFAF WJAR WCSH WWJ WTAG WEEI  
 WLIT WTAM WSAI WRC WGN WOC  
 WHO WBNB WCAE

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

**10:30-11:00 Don Amazio**  
 WCAU WHP WJAS WLBW WADC WHK  
 WKRC WCAH WKBN WSPD WISN WBBM  
 WCCO KSCJ WMT WDAY WNAK KOIL  
 KLZ KDYL KOL KFPY KOIN KHL  
 KFRK KNX

**10:30-11:00 Symphonic Rhythm Makers**  
 WFAF WJAR WTAG WRC WCAE WTAM  
 WWJ WJDX WGY CFCF WEEI WENR

**11:00-11:15 Morton Downey — Leon Belasco's Orchestra**  
 WABC WKBW WGR WEAN WDRG WNAK  
 WORC WFG WCAU WBT WCAO WTAR  
 WDBJ WHK WKBN WPT WXYZ WBCM  
 WSPD WECB WLAC WBRG WBSN WFBM  
 WCCO KSCJ KMOX KLRA WDAY KOIL  
 WIBW WKB KFH KTRH KLZ KOL  
 KFPY CFRB

**11:00-11:30 Florence Richardson and Orchestra**  
 WFAF WCAE WOW (WSAI off 11:15) (WJDX  
 WMC WSB KSD WSM on 11:15) CFCF

**11:30-12:00 Henry Busse and his Orchestra**  
 WFAF WWJ KSD WOC WHO WOW  
 WDAF KSTP WECB KOA WTAM

**12:00-1:00 Phil Spitalny and His Orchestra**  
 WFAF 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  
 KFEX KDKA KWK KCGW KFAB WKY  
 KVOO WOAI WBAP WGAR

**3:30-4:00 Golden Gems**  
 WFAF WEEI WTIC WTAG WTAM WFJC  
 KSD WFLA WSUN KSTP WOC WHO  
 CKGW

**4:00-4:30 Italian Idyll**  
 WABC WLBZ WEAN WNAK WORC WPG  
 WCAU WLBW WMAL WCAO WTAR WDBJ  
 WKRC WAIU WWNC WXYZ WSPD WDOD  
 WREC WLAC WBRG WBBM WCCO KSCJ  
 WMT KMOX KMBC WDAY KOIL KFPY  
 KTRH KTSa KLZ KFRK 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 KTAR

**5:00-5:15 Rhythm Kings**  
 WABC WHEC WFAN WHP WLBW WMAL  
 WCAO WTAR WAIU WWNC WXYZ WBCM  
 WDOD WREC WLAC WBRG WCCO KSCJ  
 WMT KMBC WDAY KFPY KRLD KTRH  
 KTSa KLZ

**6:30-6:45 "Who's Behind the Name?"**  
 WFAF WFI WRC WCAE KOA KSD  
 KECA WIBO KGO KOMO WOC WHO  
 WSMB KGW KFSD WTAM WJDX KPCC

**7:00-7:15 Political Situation in Washington**  
 WABC WGR WNAK WCAU WJAS WLBW  
 WMAL WTAR WWNC WXYZ WSPD WDOD  
 WTAQ KFH KRLD WACO KOH KFRK

**7:30-8:00 Socconyland Sketches**  
 WFAF WEEI WJAR WTAG WCHS WGY  
 WBNB

**7:45-8:00 Billiken Pickards**  
 WOAI KSD WBAP WSB WSAI WOW  
 KOA WDAF WOC WHO KSL WHAS  
 WJDX KVOO KTHS WSM WMC WSMB

**8:00-8:30 Paul Whiteman's Paint Men**  
 WJZ WBZ WBZA WEAM KDKA WTMJ  
 WJR WLW KYW KWK WREN WRYA  
 WJAX KGW KOMO KHQ KFSD KTAR  
 WGAR WGY KOA WIOD WHAS WSM  
 WMC WSB WJDX WSMB WOAI KFAB  
 KGO KECA WBAL WFTF

**8:00-8:30 Blackstone Plantation**  
 WFAF WCAE WTAM WWJ WSAI WIBO  
 KSD WOC WHO WOW WDAF KOA  
 WEEI WJAR WTAG WCHS WFI WRC  
 WGY WBNB

**8:15-8:30 Old Gold Character Readings**  
 WABC WFBL WHEC WGR WLBZ WEAN  
 WDRG WNAK WORC WPG WCAU WHP  
 WJAS WLBW WCAO WTAR WDBJ WADC  
 WKRC WAIU WKBN WWNC WBT WGST  
 WTCC WQAM WDBO WDAE WXYZ WBCM  
 WSPD WDOD WREC WLAC WBRG WDSU  
 WISN WJDD WCCO KSCJ WMT KMOX  
 KMBC KLRA WDAY WNAK KOIL WBW  
 KFH KFPY WRR KTRH KTSa KLZ  
 KDYL KVI KOL KFPY KOIN KHL  
 KFRK

**8:30-9:00 Florsheim Frolic**  
 WFAF WTAG WFI WRC WGY WCAE  
 WWJ WSAI WGN KSD WDAF WECB  
 WRYA KVOO WJAX WIOD WSUN WFLA  
 WSM WMC WSB WSMB WJDX KPCC  
 WOAI WKY KOA KSL KTHS WJAR  
 WHAS WCHS WBAP WBNB KSTP

**8:45-9:00 Lee Morse — Nat Brusiloff's Orchestra**  
 WABC WFBL WKBW WEAN WDRG WNAK  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WGST WTCC WQAM WDBO WDAE  
 WXYZ WSPD WLAC WDSU WOW WMAQ  
 WCCO KMOX KMBC KOIL KTRH KLZ  
 KDYL KVI KOL KFPY KOIN KHL  
 KFRK

**9:00-9:30 Household Celebrities Program**  
 WJZ WBZ WBZA WBAL WHAM KDKA  
 WGN KWK WREN WJR

**9:00-9:30 McKesson Musical Magazine**  
 WFAF WEEI WJAR WTAG WCHS WFI  
 WRC WBNB WTAM WSAI KSD WOW  
 WTMJ WECB WRYA WIOD WFLA WSUN  
 WSM WMC WSB WSMB WJDX KPCC  
 WKY KOA KSL KGO KECA KTAR  
 KFSD KGW KOMO KHQ KVOO WOAI  
 KYW

**9:00-9:30 Henry-George**  
 WABC WFBL WGR WEAN WDRG WNAK  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WXYZ WSPD WISN WOW WFBM  
 WBBM WCCO KMOX KMBC KOIL KFH

**9:30-10:00 The Philco Symphony Concert**  
 WABC WFBL WHEC WKBW WEAN WDRG  
 WNAK WCAU WJAS WMAL WCAO WTAR  
 WADC WHK WKRC WGST WXYZ WSPD  
 WDOD WREC WLAC WBRG WDSU WMT  
 WOW WFBM WMAQ WCCO WMT KMOX  
 KMBC KOIL KFH KFPY 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**  
 WFAF WJAR WEEI WTAG WCHS WRC  
 WGY WCAE WTAM WWJ WSAI WIBO  
 KSD WHO WOW WTMJ KSTP WECB  
 KVOO WKY KOA KSL KGO KOMO  
 KECA KGW KHQ WBAP WOC WRYA  
 WFI WDAF WBNB KPCC

**10:00-10:15 Graybar — Mr. and Mrs.**  
 WADC WCAO WNAK WKBW WBBM WKRC  
 WHK WXYZ WOW KMBC WABC WLW  
 KOIL WCAU WJAS WEAN KMOX WFBL  
 WSPD WMAL WWNC WGST WBRG KRLD  
 KLZ KTRH WFBM WLRA WCCO WISN  
 WREC WTAR WLAC WDSU KFPY WHEC  
 WDBJ KTSa KDYL KFH WKBN KHL  
 KOIN KFRK KOL KFPY

**10:00-11:00 Lucky Strike Dance Orchestra**  
 WEAF WBEI WJAR WTAG WOSH WFI  
 WRC WCAE WWJ WSAI KSD WOC  
 WHO WTMJ WBCB WRVA WJAX WIOD  
 WFLA WSUN WHAS WSM WMC WSB  
 WSMB WJDX WOAI WKY KOA KGO  
 KECA KGW KHQ KOMO KTRR KFSD  
 WIBO WDAF WTAM WAPI WBEN

**10:15-10:30 Blue Ribbon Malt Jester**  
 WABC WFBL WGR WEAN WDRG WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WBT WXYZ WSPD WLAC WBRG  
 WDSU WQOW WMAQ WCCO KMBC KLRA  
 KOIL KFH KRLD K TSA KLZ

**10:30-10:45 Clara, Lu and Em**  
 WJZ WBAL WHAM KDKA WJR WLW  
 WKW WREN WGAR WBZ WBZA WGN

**10:30-11:00 Paramount Playhouse**  
 WABC WFBL WHEC WKBW WLBZ WEAN  
 WDRG WNAC WPG WCAU WHP WJAS  
 WMAL WCAO WTAR WDBJ WADC WHK  
 WKRC WKBW WNNC WBT WGST WTOG  
 WQAM WDBO WDAE WXYZ WBCM WSPD  
 WDOD WREC WLAC WBRG WDSU WISN  
 WQOW WFBM WBBM WCCO KSCJ WMT  
 KMOK KLRA WDAY WNAX KOIL WIBW  
 KFH KFJF KRLD KTRH K TSA KLZ  
 KDYL KOL KFPY KOIN KHJ KFRC  
 KNX CFRB

**11:00-11:15 Paul Tremaine and His Orchestra**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WCAU WHP WLBW WCAO WTAR WDBJ  
 WWNC WXYZ WSPD WDOD WREC WLAC  
 WFBM WCCO WMT KMOK KMBC WDAY  
 WNAX KOIL WIBW KFH KFJF KTRH  
 KLZ KOL CFRB

**11:15-12:00 Vincent Lopez and His Orchestra**  
 WEAF WFI KOA WRC KSTP WOC  
 WHO WOW WJDX KSD WTAM WDAF  
 WBEN

## Wednesday

**2:45-3:00 Sisters of the Skillet**  
 WJZ WBAL WHAM KDKA KWK WGAR  
 WREN KFAB CKGW KSTP WFLA WSUN  
 WMC WSB KOA KGO KECA WJR  
 WGN CFCF WRVA WPTF WIOD  
 WSM WPAI WJDX KPRC

**3:00-3:15 Edna Wallace Hopper**  
 WJZ WBZ WFLA WBAL WHAM KDKA  
 WGAR WLW WGN KWK WREN WTMJ  
 WJDX KOA KSTP WBCB WRVA WPTF  
 WJAX WIOD WFLA WSUN WHAS WSM  
 WMC WSB WSMB KSL KGO KECA  
 KGW KOMO KHQ KFAB WAPI KFSD

**3:30-4:00 Evening Stars**  
 WJZ WHAM WGAR KWK WREN WJAX  
 WLW WIBO CKGW WBCB KSTP WPTF  
 WIOD WFLA WSUN WSM WMC WSB  
 WAPI KPRC WOAI WKY KOA KSL  
 KTHS WBAP WJDX WSMB WHAS WBAL  
 WRVA WBZ WBZA WJR KYW KDKA  
 WJAX

**4:00-5:00 U.S. Navy Band**  
 WABC WGR WEAN WNAC WPG WCAU  
 WLBW WMAL WCAO WTAR WADC WWSN  
 WXYZ WSPD WDOD WLAC WDSU WION  
 WTAQ WBBM WCCO KMOK KMBC KRLD  
 WACO KLZ KOH KFRC CFRB

**7:00-7:30 Morton Downey — With Freddie Rich**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WCAU WHP WJAS WLBW WMAL WCAO  
 WTAR WDBJ WKRC WAU WNNC WXYZ  
 WBCM WDOD WLAC WBRG KSCJ WDAY  
 WBW KFJF KTRH KOL KFRC

**7:30-7:45 Evangeline Adams, Astrologer**  
 WABC WFBL WHEC WGR WEAN WDRG  
 WNAC WCAU WCAO WDBJ WTAR WADC  
 WHK WKRC WAU WNNC WGST WXYZ  
 WSPD WDOD WREC WLAC WBRG WDSU  
 WISN WFBM WGL WCCO KMOK KMBC  
 KLRA KOIL KFJF WRR KTRH CFRB

**7:45-8:00 Smith Brother's Orchestra**  
 WJZ WGAR KDKA WJR WIBO KWK  
 WREN KFAB WLW

**7:45-8:00 "Back in the News in Washington"**  
 WEAF WRC KOA KECA KGO WGY  
 WCAE WFJC WBEN WRVA WKY KOMO  
 KFSD WSAI WIBO KSD WOC WHQ  
 WOW WDAF WAPI

**7:45-8:00 Daddy and Rollo**  
 WABC WFBL WKBW WEAN WNAC WCAU  
 WJAS WLBW WMAL WCAO WADC WKRC  
 WXYZ WSPD WREC WISN WFBM WGL  
 WMAQ WCCO KMOK KOIL WRHM

**8:00-8:15 Listerine Program — Bobby Jones**  
 WEAF WBEI WTIC WJAR WTAG WOSH  
 WLIT WRC WBEN WTAM WWJ WSAI  
 KSD WOC WHO WOW WPTF WIOD  
 WFLA WSUN WHAS WSM WSB WSMB  
 WJDX WFAA WOAI KOA

**8:15-8:30 Radiotron Varieties**  
 WEAF WTIC WJAR WTAG WRC WBEN  
 WTAM WSAI WBCB KSD WOV WIOD  
 WSM WSB WSMB WJDX WOAI KOA  
 KHQ KOMO KFSD KTRR KECA KSL  
 KGO KOA KVOO

**8:30-9:00 Mobiloil Concert**  
 WEAF WBEI WJAR WTAG WOSH WLIT  
 WRC WSAI KSD WOV WTAM KOA  
 KVOO WFAA WOAI WKY KPRC WTIC  
 KSL WGY WGN WBCB WDAF WCAE  
 WHO WOC WWJ WBEN

**8:30-9:00 The Sunkest Musical Cocktail**  
 WABC WFLB WGR WEAN WDRG WNAC  
 WFAN WCAU WJAS WMAL WCAO WADC  
 WHK WKRC WXYZ WSPD WOV WJDX  
 KMOK KMBC KOIL KLZ KDYL KOL  
 KFPY KOIN KHJ KFRC

**8:30-9:00 Canadian Pacific Musical Crusaders**  
 WJZ WGAR WBZ WBZA WHAM KDKA  
 KYW KWK WCKY WREN KFAB CKGW

**9:00-9:30 Gold Medal Fast Freight**  
 WABC WFBL WKBW WEAN WDRG WNAC  
 WCAU WJAS WMAL WCAO WTAR WDBJ  
 WADC WHK WKRC WCAH WXYZ WSPD  
 WLPW WREC WLAC WISN WOV WFBM  
 WMAQ WCCO KSCJ KMOK KMBC KOIL  
 KFH KFJF KRLD KLZ KDYL KOL  
 KFPY KOIN KHJ KFRC K MJ

**9:00-9:30 Halsey, Stuart Program**  
 WEAF WBEI WJAR WTAG WOSH WLIT  
 WRC WGY WCAE CKGW WRVA WJAX  
 KOA KSL KGO KGW KOMO KHQ  
 WSAI KSD WOC WHO WOV WWJ  
 WSMB KVOO KPRC WOAI KSTP WTMJ  
 KYW WHAS WSM WMC WSB KFI  
 WBEN WTAM

**9:30-10:30 Palmolive Hour**  
 WEAF WBEI WTIC WJAR WTAG WOSH  
 WLIT WRC WGY WCAE WSAI WGN  
 KSD WOC WOV WSMB WTMJ KSTP  
 WHAS WSM WMC WDAF WHO WSB  
 WJAX WOAI KOA KSL KGO KGW  
 KOMO KHQ WFAA KPRC WWJ WTAM  
 KFI WBEN (KVOO of 10:00)

**9:30-10:00 Camel Pleasure Hour**  
 WJZ WBZ WBZA WHAM KDKA WREN  
 WLW KYW WSJS WRVA WJR KWK  
 WIOD WJAX WFLA WSUN

**9:30-10:00 Savino Tone Pictures**  
 WABC WKBW WNAC WPG WFAN WJAS  
 WLBW WMAL WTAR WNNC WXYZ WDOD  
 WLAC WDSU WISN WTAQ WCCO KMOK  
 KMBC KFH WACO KLZ KFRC CFRB

**10:00-10:15 Vitality Personalities**  
 WABC WADC WJAS WNAC WKBW WBBM  
 WKRC WBT WXYZ WOV KMBC KOIL  
 WCAU WEN KMOK WFLB WSPD WMAL  
 WDRG WGST WBRG WRR KTRH WFBM  
 KLRA WISN WCAH WLAC WDSU KFJF  
 K TSA KDYL KHJ KOIN KFRC KOL  
 KFPY

**10:15-10:30 Gypsy Trail**  
 WABC WKBW WGR WEAN WNAC WPG  
 WCAU WJAS WLBW WMAL WTAR WADC  
 WWNC WXYZ WSPD WDOD WLAC WDSU  
 WISN WTAQ KMOX KRLL KLZ CFRB

**10:30-11:00 Columbia Concerts Programs**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WPG WJAS WLBW WMAL WCAO WTAR  
 WDBJ WWNC WXYZ WBCM WSPD WDOD  
 WFBM WMAQ WCCO KSCJ WMT KMOX  
 KMBC WDAY WNAX WIBW KFJF KTRH  
 K TSA KLZ KOL CFRB

**10:30-11:00 Coca Cola Program**  
 WEAFF WEEI WTIC WJAR WTAG WCSH  
 WLIT WRC WCAE WSAI WOC WEBC  
 WKY KYW KSD WRVA KSTP WJAX  
 WIOD WSM WSMB KTHS KPRC WQAI  
 KOA KSL KGO KECA KGW KHQ  
 KOMO WJDX WGY WDAF WHAS WTAM  
 WHO WOV KFSD WMC WSB WWJ  
 WAPI WBN

**11:00-11:15 Guy Lombardo and His Orchestra**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WPG WCAU WLBW WCAO WTAR WDBJ  
 WHK WWNC WXYZ WBCM WSPD WDOD  
 WREC WFBM WCCO KSCJ WMT KMOX  
 KMBC WDAY WNAX KOIL WIBW KFJF  
 KTRH KLZ KOL CFRB

**11:15-12:00 Vincent Lopez and his Orchestra**  
 WEAFF WRC WCAE KSD WGY WLIT  
 WOC WHO (WWJ WFLA WSUN off 11:15)  
 (WAPI WDAF on 11:15)

**11:30-12:00 Johnny Johnson's Pennsylvanians**  
 WABC WKBW WEAN WNAC WCAU WLBW  
 WCAO WTAR WADC WWNC WXYZ WSPD  
 WDOD WLAC WDSU WISN WTAQ WCCO  
 KMBC KFH WACO KLZ CFRB

## Thursday

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

**11:30-11:45 Odorono-Cutex Program**  
 WJZ WHAM KDKA KWK WREN WLW  
 WIBO KPRC WBY WQAI WBZ WBZA  
 KVOO WJR WFAA

**3:30-4:00 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**  
 WEAFF WEEI WTIC WTAG WJAR WLIT  
 WRC WGY WBN WCAE WTAM WWJ  
 KSD WOC WHO WSAI KYW

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

**7:30-7:45 St. Maritz Orchestra**  
 WEAN WDRC WBP WJAS WLBW WMAL  
 WDBJ WKBN WBT WXYZ WREC WBCM  
 WLAC WBRC WISN WFBM WGL KSCJ  
 KMBC WDAY WNAX KOIL KFJF KTRH  
 KVI KFPY KFRC

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

**8:00-8:30 The First Nighter**  
 WJZ WBZ WBZA WBAL WCKY KDKA  
 WGAR WJR WIBO WREN KWK KFAB  
 WHAM

**8:00-9:00 Fleischmann Hour — Rudy Vallee**  
 WEAFF WEEI WTAG WJAX WIOD WJDX  
 WJAR WCHS WFI WRC WGY WCAE  
 WHO WOV WDAF WWJ WHAS KTAR  
 WMC WSB WBY WEBC KOA WRVA

KSL KOMO WQAI WSM WOC WAPI  
 KGO KHQ KECA KSD CKGW WTAM  
 KGW KSTP WGN KPRC WBN (WTMJ)  
 KTHS WSAI WBP WXY 8:30)

**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

**8:30-9:00 Salada Salon Orchestra**  
 WJZ WBZ WBZA WBAL WHAM KDKA  
 WJR WIBO KWK WREN KFAB WGAR

**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

**9:00-9:15 Premier Salad Dressers**  
 WABC WHEC WKBW WPG WJAS WLBW  
 WMAL WCAO WTAR WWNC WXYZ WSPD  
 WDOD WLAC WDSU WISN WTAQ KMBC  
 KFH KRLL WACO KLZ KOH

**9:00-9:30 Blackstone Plantation**  
 WJZ WBZ WBZA WBAL KDKA WCKY  
 WHAM

**9:00-9:30 Arco Birthday Party**  
 WEAFF WEEI WJAR WTAG WCSH WFI  
 CKGW WRC WGY WSB WSM WIOD  
 WJAX WQAI KOA KSL WKY WBP  
 WRVA WSTP WWJ WSAI KSD WDAF  
 KYW WCAE WEBC WOV WSMB WJDX  
 WOC WFEA WTMJ WMC WHO KGO  
 KECA KOMO KHQ KGW WAPI WTAM  
 WBN

**9:15-9:30 Old Gold Character Readings**  
 WABC WFBL WHEC WGR WLBZ WEAN  
 WDRC WNAC WORC WPG WCAU WHP  
 WJAS WLBW WCAO WTAR WDBJ WADC  
 WHK WKRC WAIU WKBN WWNC WBT  
 WGST WTOC WQAM WDBO WDAE WXYZ  
 WBCM WSPD WDOD WREC WLAC WBRC  
 WDSU WISN WOWO WFBM WBBM WCCO  
 KSCJ WMT KMOX KMBC KLRA WDAY  
 WNAX KOIL WIBW KFH KFJF KRLL  
 K TSA KLZ KDYL KVI KOL KFPY  
 KOIN KHJ KFRC

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

**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 WBP KYW  
 KWK WREN WIOD WJR WSMB WQAI  
 KECA KGW KOMO KHQ WAPI WMC  
 WEAM 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  
 KRLL KLZ KDYL KOL KFPY KOIN  
 KHJ KFRC

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

**10:30-11:00 Toscha Seidel and Concert Orchestra**  
 WABC WFBL WKBW WEAN WDRC WNAC  
 WORC WFAN WHP WJAS WLBW WMAL  
 WCAO WTAR WDBJ WADC WHK WKBN  
 WBT WXYZ WBCM WSPD WLAC WBRC

WISN WOWO KSCJ KMOX WDAY WNAX  
 KOIL WIBW KFJF KRLD KTRH K TSA  
 KLZ CFRB

**11:00-11:15 Ben Bernie and His Orchestra**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WCAU WHP WLWB WMAL WCAO WTAR  
 WDBJ WWNC WXYZ WBCM WSPD WDOD  
 WREC WLAC WBRC WFBM WCCO WMT  
 KMOX KMBC WDAY WNAX KOIL WIBW  
 KFH KFJF KTRH K TSA KLZ KOL  
 CFRB

**11:15-12:00 Cab Calloway and his Orchestra**  
 WEAJ WWJ WOW WFI KSTP WJDX  
 WDAF WTAM WOC WHO WIBO WGY  
 WCAE

**11:30-12:00 Radio Roundup**  
 WABC WKBW WEAN WNAC WPG WCAU  
 WLWB WMAL WCAO WTAR WADC WNNC  
 WXYZ WSPD WDOD WLAC WDSU WISN  
 WTAQ WCCO KMBC KFH WACO KLZ  
 CFRB

**Friday**

**4:00-5:00 Dancing Melodies**  
 WEAJ WTAG WCAE WFJC WTAM WWJ  
 WOC WHO WOW WDAF WBEN

**4:45-5:00 Rhythm Ramblers**  
 WABC WGR WEAN WNAC WPG WLWB  
 WMAL WTAR WADC WWNC WXYZ WSPD  
 WDOD WLAC WDSU WISN WTAQ WCCO  
 KMOX KMBC KRLD WACO KLZ KOH  
 KFRC CFRB

**5:00-5:45 Light Opera Gems**  
 WABC WKBW WGR WDRG WHP WJAS  
 WLWB WCAO WTAR WAU WKBN WBT  
 WXYZ WBCM WSPD WREC WLAC WBRC  
 WISN WGL WCCO KSCJ KMOX WDAY  
 KOIL KFH KFJF KRLD KTRH K TSA  
 KLZ CFRB

**6:00-6:45 Winegar's Barn Orchestra**  
 WABC WGR WFAN WJAS WLWB WCAO  
 WTAR WADC WWNC WDOD WLAC WDSU  
 WISN WTAQ WBBM KFH KRLD KLZ  
 KOH KFRC

**7:00-8:00 Major Bowes' Family**  
 WEAJ WJAR WCSH WLIT WBEN WCAE  
 WWJ WENR WOC WHO KSTP WHAS  
 WMC WSP WSMB KOA KGO KECA  
 KGW KOMO K TAR

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

**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**  
 WEAJ WEEL WTIC WLIT WRC WCAE  
 WJAR WCSH WOW KYW KSD WDAF  
 KSTP WTMJ WKY WOC KOA WBCB  
 WOAI KOMO KGO KGW KHQ KSL  
 WTAG CKGW KECA WHO WSAI WTAM  
 WBEN WWJ (WFAA KPRC off 8:30)

**8:30-9:00 The Dutch Masters**  
 WABC WFBL WGR WEAN WDRG WNAC  
 WCAU WJAS WMAL WCAO WADC WKRC  
 WXYZ WSPD WBBM WCCO KMOX  
 KOIL

**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 Clicquot Club Eskimos**  
 WEAJ WEEL WTIC WJAR WTAG WCSH  
 WLIT WRC WOW WCAE WSAI WIBO  
 KSD WWJ WDAF WOC WHO WGY  
 WBEN

**9:00-9:30 Interwoven Pair**  
 WJZ WHAM WMC KDKA WJAX WKY  
 WREN KPRC KWK WBZ WBZA KGW  
 WSMB WIOD WFAA WJR WTMJ KSTP

WHAS KYW WBCB WCKY WSM WRVA  
 WSE WAPI WOAI KOA KSL KGO  
 KECA KGW KOMO KHQ KFSD K TAR  
 WJR WGAR

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

**9:30-9:45 Enna Jettick Songbird**  
 WEAJ WEEL WJAR WTAG WCSH WRC  
 WLIT WGY WBEN WCAE WWJ WSAI  
 WENR KSD WOC WHO WOW WDAF  
 CKGW WTAM CFCE

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

**9:45-10:00 Two Troupers**  
 WEAJ WEEL WJAR WTAG WCSH WRC  
 WLIT WGY WBEN WSAI KSD WOC  
 WHO WDAF WCAE WTAM WWJ WOW

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

**10:00-10:30 Eastman Program**  
 WEAJ WJAR WCSH WCAE WWJ KSD  
 WSAI WRC WBEN WLIT WTAG WGY  
 WTMJ WOW WENR KGO KGW KOMO  
 KHQ KOA KSL K TAR KFSD KFI

**10:00-10:30 Van Heusen Program**  
 WABC WFBL WKBW WEAN WDRG WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WGST WXYZ WSPD WDSU WMAQ  
 WCCO KMOX KMBC KOIL

**10:30-11:00 The March of Time**  
 WABC WFBL WKBW WEAN WDRG WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WXYZ WSPD WOWO WBBM KMOX  
 KMBC KOIL

**10:30-11:00 RKO Theatre of the Air**  
 WEAJ WEEL WJAR WTAG WLIT WGY  
 WCAE WWJ WSAI WIBO KSD WDAF  
 WRVA WJAX WIOD WMC WSB WSMB  
 WOC WJDX KGO KTHS WOAI WKY  
 WRC KOA KGW KFI KHQ KOMO  
 K TAR KFSD WCSH WHO WOW KSL  
 WTMJ WFLA WSUN WBEN

**11:00-11:30 Noble Sissle and Princesse Orchestra**  
 WABC WKBW WEAN WDRG WNAC WORC  
 WCAU WLWB WCAO WTAR WDBJ WHK  
 WKBN WBT WXYZ WBCM WSPD WREC  
 WLAC WBRC WISN WOWO WCCO KMOX  
 WDAY WNAX KOIL WIBW KFH KFJF  
 KTRH KLZ KFPY CFRB

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

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

**Saturday**

**1:30-2:00 Savoy Plaza Orchestra**  
 WABC WHEC WLBZ WEAN WCAU WHP  
 WJAS WMAL WCAO WTAR WDBJ WKRC  
 WAU WWNC WXYZ WBCM WSPD WDOD  
 WLAC WBRC WIBW CFRB

4:30-5:00 Spanish Serenade

WABC WLBZ WEAN WNAC WORC WFEAN  
WHP WMAL WCAO WTAR WDBJ WKRC  
WAIU WVNC WXYZ WBCM WSPD WDDO  
WREC WLAC WBRC WMAQ WBBM WCCO  
KSCJ WMT KMOX KMBC WDAY KOIL  
WIBW KFJF KRLL KTRH K TSA KLZ  
KOL KFRC

5:30-5:45 Peter van Steeden and Orchestra

WJZ KWK WHAM KDKA WMC WSB  
WSMB

6:00-6:30 Ted Husing's Sportslands

WABC WFBI WFEAN WHP WLBW WTAR  
WDBJ WADC WHK WAIU WBT WBCM  
WREC WLAC WBRC WISN WOWO WBBM  
WCCO KSCJ WDAY KOIL WIBW KFH  
KFJF KRLL KTRH K TSA KLZ KVI  
KOL KFPY KHJ KFRC CFRB

6:15-6:45 Smith Ballou and His Orchestra

WJZ WBZ WBZA WRC KFAB KWK

7:00-7:15 Freddie Rich and His Orchestra

WABC WHEC WLBZ WORC WHP WJAS  
WLBW WCAO WTAR WDBJ WHK WKRC  
WVNC WXYZ WBCM WDDO WBRC WFBM  
KSCJ WMT WDAY KOIL WIBW KFH  
KFJF KOL KFRC CFRB

7:15-7:30 Laws That Safeguard Society

WEAF WJAR WTAG WCHS WFI WGY  
WBEN WWJ WOC WHO WOW WEBC  
WOAI KOA KGO KECA KOMO KHQ  
KTAR WJDX WEEL

7:15-7:30 Armand Vecsey and his Orchestra

WHEC WGR WEAN WNAC WJAS WLBW  
WMAL WCAO WTAR WADC WHK WVNC  
WSPD WDDO WDSU WTAQ KFH KRLL  
WACO KOH KFRC

7:30-7:45 Snoop and Peep

WEAF WJAR WTAG WBEN WSAI WOC  
WHO WOW WTMJ KSTP WEBC WIOD  
WFLA WSUN KGO CFCF

7:30-7:45 Rose of the Goldbergs

WJZ WHAM KWK WREN WIBO WSB  
WJDX WSMB WAPI WGAR

7:45-8:00 "The Highroad of Adventure"

WEAF WTAG WBEN WCAE WTAM WWJ  
WSAI WOC WHO KSTP WEBC KGO  
KGW KFSD KTAR

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 WOAI KSTP KPRC WKY CKGW  
WGAR

8:00-8:15 Webster Program - Weber and Fields

WEAF WEEL WJAR WTAG WCHS WFI  
WRC WGY WBEN WCAE WTAM WWJ  
WSAI WIBO KSD WOC WHO WOW  
WDAF WTMJ KSTP KOA KSL WEBC

8:15-8:30 Ben Alley, Tenor, with Ann Leaf

WABC WKBW WGR WDRC WORC WPG  
WFAN WHP WJAS WLBW WMAL WCAO  
WDBJ WADC WKBN WBT WXYZ WBCM  
WSPD WREC WLAC WBRC WISN WOWO  
WFBM WMAQ KSCJ KMOX WDAY WNAX  
KOIL KFH KFJF KTRH K TSA KVI  
KFPY KHJ KFRC

8:15-8:30 "Rin-Tin-Tin Thriller"

WJZ WHAM WBAL KDKA WREN KFAB  
KWK WBZ WBZA KYW WGAR

8:15-8:30 Radiotron Varieties

WEAF WEEL WJAR WTAG WCHS WRC  
WGY WBEN WCAE WTAM WWJ WSAI  
WIBO KSD WOC WHO WOW WDAF  
WTMJ WRVA WJAX WIOD WFLA WSUN  
WSM WMC WSB WSMB WJDX KPRC  
WOAI WKY KOA KSL KGO KGW  
KOMO KHQ KTAR KFSD

8:30-9:00 The Silver Flute

WEAF WEEL WTAG WCHS 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 KMO KFAB  
KHQ WIBO WKY WTMJ WMC WEBC  
WSB WAPI WSMB WLW WJDX KSTP

8:45-9:00 The Early Bookworm

WABC WKBW WEAN WDRS WNAC WORC  
WPG WCAU WHP WJAS WLBW WMAL  
WCAO WDBJ WADC WKBN WBT WXYZ  
WBCM WSPD WLAC WBRC WISN WOWO  
WMAQ KSCJ KMOX WDAY WNAX KOIL  
KFH KFJF KRLL KTRH K TSA KLZ  
KVI KFPY KHJ KFRC CFRB

9:00-9:30 Around the Samovar

WABC WKBW WEAN WDRS WJAS WLBW  
WTAR WVNC WXYZ WSPD WDDO WLAC  
WDSU WISN WTAQ WMAQ KMOX KMBC  
KFH KLZ CFRB

9:00-10:00 General Electric Hour

WEAF WEEL WJAR WTAG WCHS WFI  
WRC WGY WBEN WCAE WTAM WWJ  
WSAI WIBO KSD WOC WOW WDAF  
WTMJ WKY KSTP WEBC WRVA WJAX  
WHAS WMC WSB WAPI WSMB WBAB  
KPRC WOAI KOA KSL KGO KFI  
KGW KOMO KHQ KFSD KTAR

9:30-10:00 Columbia Educational Features

WABC WLBZ WEAN WNAC WORC WPG  
WFAN WHP WJAS WLBW WMAL WTAR  
WDBJ WKRC WVNC WXYZ WBCM WSPD  
WDDO WREC WLAC WBRC WFBM WCCO  
KSCJ WMT KMBC WDAY WNAX KOIL  
WIBW KFH KFJF KTRH K TSA KLZ  
KOL KFRC

10:00-10:30 Cuckoo

WJZ WBZ WBZA WBAL KDKA WHAM  
WGAR WLW WIBO KWK WREN WJR  
CFCF CKGW

10:00-11:00 Lucky Strike Dance Orchestra

WEAF WEEL WJAR WTAG WCHS WFI  
WRC WGY WBEN 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 WOAI  
WKY KOA KSL KGO KFI KGW  
KOMO KHQ KTAR 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 WVNC WXYZ  
WBCM WSPD WDDO WLAC WBRC WFBM  
WMAQ WCCO KSCJ WMT KMOX KMBC  
WDAY WNAX KOIL WIBW KFH KFJF  
KRLL KTRH K TSA KLZ KOL KFRC

11:00-11:15 Troubadour of the Moon

WEAF WFI WCAE WWJ WSAI WOC  
WHO WOW

11:00-11:15 Jack Denny and His Orchestra

WABC WHEC WLBZ WEAN WNAC WORC  
WPG WCAU WHP WLBW WMAL WCAO  
WTAR WDBJ WVNC WXYZ WBCM WSPD  
WDDO WREC WLAC WBRC WFBM KSCJ  
WMT KMBC WDAY WNAX KOIL WIBW  
KFJF KRLL KTRH KLZ KOL CFRB

11:30-12:00 Guy Lombardo and His Orchestra

WABC WHEC WLBZ WEAN WNAC WORC  
WPG WFAN WHP WLBW WMAL WCAO  
WTAR WDBJ WRC WVNC WXYZ WBCM  
WDDO WREC WLAC WBRC WFBM WCCO  
KSCJ WMT KMBC WDAY WNAX KOIL  
WIBW KFJF KRLL KTRH KLZ KOL

11:45-12:00 Little Jack Little

WEAF WFI WCAE WTAM KSD WOC  
WHO WDAF WFLA WSUN WSB KOA  
WGY WIBO WOW KPRC WIOD

12:00-1:00 Smith Ballou and His Orchestra

WEAF WRC KSTP KPRC WSB WMC  
WBEN KOA (WTAM KSD on 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

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Manitoba Telephone System

### 550 kilocycles 545.1 meters

CMCJ -- 250 --- Havana, Cuba  
 KFDY † 500 1+ Brookings, S. D.  
 KFUY † 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

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

### 560 kilocycles 535.4 meters

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

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Magnolia Petroleum Co.  
 Reynolds Radio Co., Inc.  
 Associated Broadcasters  
 Strawbridge & Clothier  
 Nelson Bros. Bond & Mortgage Co.  
 Lit Brothers  
 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.

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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.  
 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  
 WOBW \* 250 1 Charleston, W. Va.  
 WSAZ \* 250 1 Huntington, W. Va.  
 WTAG \* 250 N Worcester, Mass.

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Dominion Battery Co.  
 The Dominion Battery Co.  
 Canadian National Carbon Co., Ltd.  
 University of Alberta  
 Dana McNeil  
 State Agricultural College  
 Topeka Broadcasting Assn., Inc.  
 WOBW, Inc.  
 WSAZ, Inc.  
 Telegram Publishing Co.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 590 kilocycles 508.2 meters

CMW	--	700	588	Havana, Cuba
KHQ	--	1000	+N	Spokane, Wash.
WCAJ	*	500	1	Lincoln, Nebr.
WEEL	†	1000	N	Boston, Mass.
WKZO	*	1000	DY	Berrien Springs, Mich.
WOW	*	1000	1N	Omaha, Nebr.
XEZ	*	500	588	Mexico City

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

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

### 600 kilocycles 499.7 meters

CJRM	†	500	4	Moose Jaw, Sask.
CJRW	--	500	4	Fleming, Sask.
CNRO	†	500	3	Ottawa, Ont.
KFSD	*	500	+N	San Diego, Cal.
WCAC	--	250	2+	Storrs, Conn.
WCAO	*	250	C	Baltimore, Md.
WICC	*	500	2D	Bridgeport, Conn.
WMT	*	500	C	Waterloo, Iowa
WREC	*	500	+C	Memphis, Tenn.

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

### 610 kilocycles 491.5 meters

KFRC	*	1000	C	San Francisco, Cal.
WDAF	*	1000	N	Kansas City, Mo.
WFAN	*	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.
WLBE	*	500	C	Bangor, Maine
WSUN	*	1000	1+N	St. Petersburg, Fla.
WTMJ	*	1000	+N	Milwaukee, Wis.

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	I	Columbia, Mo.
WGFB	†	500	I	Evansville, Ind.
WMAL	*	250	+C	Washington, D. C.
WOS	*	500	I	Jefferson City, Mo.
XET	†	500	---	Monterrey, Mex.

Victoria Broadcasting Association Winnipeg Grain Exchange Canadian National Railways Stephens College Evansville on the Air, Inc. M. A. Leese State Marketing Bureau Mexico Music Co., S. A.		

### 640 kilocycles 468.5 meters

CHRC	--	100	645	Quebec, Que.
CMHJ	--	40	645	Cienfuegos, Cuba
KFI	--	5000	NX	Los Angeles, Cal.
WAIU	*	500	C Dn	Columbus, Ohio
WOI	*	5000	D	Ames, Iowa
XFG	--	2000	638	Mexico City

E. Fontaine Arturo Hernandez 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.
XER	--	101	---	Mexico City

Queen City Broadcasting Co. National Life & Accident Ins. Co. Armida y Cia.		

### 660 kilocycles 454.3 meters

CHWK	†	5	---	Chilliwack, B. C.
CMCO	--	225	---	Havana, Cuba
WAAW	*	500	D	Omaha, Neb.
WEAF	†	50000	N	New York City

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

### 670 kilocycles 447.5 meters

WMAQ	*	5000	C	Chicago, Ill.
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WMAQ, Inc		

CUT OUT ON DOTTED LINES

## 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.
8WMC	--	500	682	St. Johns, N. F.

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

### 690 kilocycles 434.5 meters

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

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The Calgary Herald  
Western Broadcasting Co.  
The Western Farmer  
Albertan Publishing Co., Ltd.  
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
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Crosley Radio Corp.

### 710 kilocycles 422.3 meters

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

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R. S. MacMillan  
Bamberger Broadcasting Service, Inc.

### 720 kilocycles 416.4 meters

WGN	†	25000	N	Chicago, Ill.
XEN	†	1000	719	Mexico City

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Chicago Tribune  
Cia. Civil de Inversiones

### 730 kilocycles 410.7 meters

CHLS	--	50	1	Vancouver, B. C.
CHYC	*	5000	2S	Montreal, Que.
CKAC	*	5000	2C	Montreal, Que.
CKCD	--	50	1	Vancouver, B. C.
CKFC	†	50	1	Vancouver, B. C.
CKMO	--	50	1	Vancouver, B. C.
CKWX	†	100	1	Vancouver, B. C.
CMK	--	3000	---	Havana, Cuba
CNRM	*	5000	2	Montreal, Que.
XEM	†	500	---	Tampico, Mex.

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

### 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	---	Juarez, Mex.

--	--	--

WJR, The Goodwill Station, Inc.  
Feliciano Lopez Islas

### 760 kilocycles 394.5 meters

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

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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.

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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.

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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	+	Madison, Wis.	Wisconsin State Journal Bdcsg. Co.
WMC	--	500	+N	Memphis, Tenn.	Dillard & Brown, Receivers
WPOR	--	500	1	Norfolk, Va.	WTAR Radio Corp.
WTAR	*	500	1C	Norfolk, Va.	WTAR Radio Corp.
XEW	†	5000	---	Mexico City	Mexico Music Co.

### 790 kilocycles 379.5 meters

CMBS	--	150	---	Havana, Cuba	
CMHC	--	500	---	Turinet, Cuba	
KGO	--	7500	N	San Francisco, Cal.	
WGY	†	50000	N	Schenectady, N. Y.	

### 800 kilocycles 374.8 meters

WBAP	†	10000	1XN	Fort Worth, Texas	
WFAA	--	50000	1N	Dallas, Texas	
XFC	--	350	805	Aguascalientes, Mex.	

### 810 kilocycles 370.2 meters

WCCO	*	7500	C	Minneapolis, Minn.	
WPCH	*	500	D	New York City	

### 820 kilocycles 365.6 meters

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

### 830 kilocycles 361.2 meters

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

### 840 kilocycles 356.9 meters

CFCA	†	500	1	Toronto, Ont.	
CHCT	--	1000	---	Red Deer, Alta.	
CKLC	†	1000	2	Red Deer, Alta.	
CMC	†	500	845	Havana, Cuba	
CNRD	†	1000	2	Red Deer, Alta.	
CNRT	*	500	1	Toronto, Ont.	
XETY	--	2000	---	Mexico City	

### 850 kilocycles 352.7 meters

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

### 860 kilocycles 348.6 meters

KMJE	--	5	856	Camaguey, Cuba	
KMO	--	500	+ Dn	Tacona, Wash.	
WABC	*	5000	XC	New York City	
WBOQ	--	5000	---	New York City	
WHB	*	500	D	Kansas City, Mo.	
XFX	--	500	---	Mexico City, Mex.	

### 870 kilocycles 344.6 meters

CMHH	--	10	---	Cifuentes, Cuba	
WENR	--	50000	1N	Chicago, Ill.	
WLS	†	5000	1XN	Chicago, Ill.	

### 880 kilocycles 340.7 meters

CHML	*	50	4	Hamilton, Ont.	
CJCB	*	50	---	Sydney, N. S.	
CKCI	†	22.5	3	Quebec, Que.	
CKCV	†	50	3	Quebec, Que.	
CNRQ	†	50	3	Quebec, Que.	
KFKA	†	500	2+	Greeley, Colo.	
KLX	--	500	---	Oakland, Cal.	
KPOF	*	500	2	Denver, Colo.	
WCOC	--	500	+	Meridian, Miss.	
WGBI	*	250	1	Scranton, Pa.	
WQAN	*	250	1	Scranton, Pa.	
WSUI	*	500	---	Iowa City, Iowa	

Wisconsin State Journal Bdcsg. Co.  
Dillard & Brown, Receivers  
WTAR Radio Corp.  
WTAR Radio Corp.  
Mexico Music Co.

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

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

Northwestern Broadcasting, Inc.  
Eastern Broadcasters, Inc.

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

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

Star Publishing & Ptg. Co.  
G. F. Tull & Ardern, Ltd.  
Alberta Pacific Grain Co., Ltd.  
Cuban Telephone Co.  
Canadian National Railways  
Canadian National Railways  
Juan Gutierrez, Jr.

Hello World Broadcasting Corp.  
Loyola University

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

Antonio Quintero  
National Broadcasting Co., Inc.  
Agricultural Broadcasting Co.

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

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

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 890 kilocycles 336.9 meters

CFBO	*	500	---	St. John, N. B.
CKCO	†	100	---	Ottawa, Ont.
CKPR	*	50	---	Port Arthur, Ont.
CMCF	†	250	---	Havana, Cuba
CMX	*	500	---	Havana, Cuba
KFNF	*	500	2+	Shenandoah, Iowa
KGJF	*	250	---	Little Rock, Ark.
KUSD	*	500	2+	Vermillion, S. D.
WGST	*	250	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

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C. A. Munro, Ltd.  
 Dr. G. M. Geldert  
 Dougall Motor Car Corp.  
 Casa Karman  
 Francisco Lavin  
 Henry Field Co.  
 Church of the Nazarene  
 University of South Dakota  
 Georgia School of Technology  
 University of Illinois  
 The Outlet Co.  
 Radio Corp. of Porto Rico  
 Junior Chamber of Commerce  
 Holt-Rowe Broadcasting Co.  
 Difusora Portena XES

### 900 kilocycles 333.1 meters

KGBU	†	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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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	*	5000	2	London, Ont.
CNRH	--	500	3	Halifax, N. S.
CNRL	--	500	2	London, Ont.
CNRS	--	500	1	Saskatoon, Sask.

--	--	--

The Electric Shop, Ltd.  
 Halifax Herald, Ltd.  
 Free Press Printing Co., Ltd.  
 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.
WBOS	--	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.  
 Drivers 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.
KFWI	†	500	1	San Francisco, Cal.
KGBZ	--	500	2+	York, Nebr.
KMA	--	500	2+	Shenandoah, Iowa
KROW	*	500	1+C	Oakland, Cal.
WBRC	*	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WIBG	*	50	S	Elkins Park, Pa.

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The Edmonton Journal, Ltd.  
 Queen's University  
 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.
WCSE	*	1000	N	Portland, Maine
WDAY	*	1000	---	Fargo, N. D.
WFIW	*	1000	---	Hopkinsville, Ky.
WHA	--	750	D	Madison, Wis.
XEO	--	5000	---	Mexico City

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

### 950 kilocycles 315.6 meters

CMBC	--	150	955	Havana, Cuba
CMBD	--	150	955	Havana, Cuba
KFWB	*	1000	---	Hollywood, Cal.
KGHL	--	1000	---	Billings, Mont.
KMBC	*	1000	C	Kansas City, Mo.
WRC	†	500	N	Washington, D. C.

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Domingo Fernandez  
 Luis Perez Garcia  
 Warner Bros. Broadcasting Corp.  
 Northwestern Auto Supply Co., Inc.  
 Midland Broadcasting Co., Inc.  
 National Broadcasting Co., Inc.

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960 kilocycles 312.3 meters

CFCY	*	250	1
CFRB	*	5000	2C
CHCK	--	100	1
CHWC	*	500	3
CJBR	--	500	3
CKKC	†	500	3
CNRR	--	500	3
CNRX	*	5000	2

Charlottetown, P. E. I.  
Toronto, Ont.  
Charlottetown, P. E. I.  
Regina, Sask.  
Regina, Sask.  
Regina, Sask.  
Regina, Sask.  
Toronto, Ont.

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

970 kilocycles 309.1 meters

CMGF	--	50	977
KJR	*	5000	---
WCFL	--	1500	N Dn
XED	*	10000	977

Matanzas, Cuba  
Seattle, Wash.  
Chicago, Ill.  
Reynosa, Mex

Bernabe R. de la Torre  
Northwest Broadcasting System, Inc.  
Chicago Federation of Labor  
International Broadcasting Co., Inc.

980 kilocycles 305.9 meters

KDKA	--	50000	N
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Pittsburgh, Pa.

Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

WBZ-A	†	15000	1N
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Springfield-Boston

Westinghouse Elec. & Mfg. Co.

1000 kilocycles 299.8 meters

KFVD	*	250	Dn
WHO	*	5000	1N
WOC	*	5000	1N
XEA	--	101	---
XEC	--	50	---
XBE	--	10	---
XBF	*	105	---
XEFE	*	101	---
XEI	*	101	---
XEJ	*	101	---
XEK	--	101	---
XEL	--	10	---
XEU	--	101	---
XEV	--	101	---
XEY	--	105	---

Culver City, Cal.  
Des Moines, Iowa  
Davenport, Iowa  
Guadalajara, Mex.  
Toluca, Mex.  
Linares, Mex.  
Oaxaca, Mex.  
Laredo, Mex.  
Morelia, Mex.  
Juarez, Mex.  
Mexico City  
Saltillo, Mex.  
Veracruz, Mex.  
Puebla, Mex.  
Merida, Mex.

Los Angeles Broadcasting Co.  
Central Broadcasting Co.  
Central Broadcasting Co.  
Alberto Palos Sauza  
Jesus R. Benavides  
Lic. Mariano Berlanga  
Alfonso Zorilla B.  
Rafael T. Carranza  
Carlos Gutierrez M.  
Juan G. Buttner  
Arturo Martinez  
Antonio Garza Castro  
Fernando Pazos  
Ciro Molina  
Socialist Party del Surreste

1010 kilocycles 296.8 meters

CFLC	*	50	3
CKCR	--	50	3
CKIC	--	50	---
CMBW	--	150	---
CMBZ	--	150	---
CMCK	--	250	---
KGGF	†	500	2
KQW	*	500	---
WHN	*	250	1
WIS	*	500	+
WNAD	*	500	2
WPAP	*	250	1
WQAO	*	250	1
WRNY	--	250	1

Prescott, Ont.  
Waterloo, Ont.  
Wolfville, N. S.  
Havana, Cuba  
Havana, Cuba  
Havana, Cuba  
S. Coffeyville, Okla.  
San Jose, Cal.  
New York City  
Columbia, S. C.  
Norman, Okla.  
New York City  
New York City  
New York City

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

1020 kilocycles 293.9 meters

KFKX	*	10000	1N
KYW	*	10000	1N
WRAX	†	250	D

Chicago, Ill.  
Chicago, Ill.  
Philadelphia, Pa.

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

1030 kilocycles 291.1 meters

CFCF	--	1650	N
CMKC	*	150	1034
CNRV	†	500	---
XEB	†	1000	---

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

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

1040 kilocycles 288.3 meters

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

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

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

KCYS.  
1040  
MTRS.  
288.3  
DIAL

CUT OUT ON DOTTED LINES

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### 1050 kilocycles 285.5 meters

KFKB \* 5000 Dn  
KNX \* 5000 X

Milford, Kansas  
Hollywood, Cal.

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Farmers & Bankers Life Insurance Co.  
Western Broadcast Co.

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### 1060 kilocycles 282.8 meters

KWJJ -- 500 Dn  
WBAL \* 10000 1N  
WJAG \* 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.

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### 1070 kilocycles 280.2 meters

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

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

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

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### 1080 kilocycles 277.6 meters

WBT \* 5000 C  
WCBG \* 5000 1 Dn  
WMBI \* 5000 1 Dn  
XEH -- 5000 ---

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

Station WBT, Inc.  
Wilbur Glenn Voliva  
Moody Bible Institute  
Tarnava y Cia

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### 1090 kilocycles 275.1 meters

CMAA -- 30 ---  
CMGI \* 30 1094  
KMOX \* 50000 1CX

Guanajay, Cuba  
Matanzas, Cuba  
St. Louis, Mo.

Antonio Sarasola  
Armando Lizama  
Voice of St. Louis, Inc.

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### 1100 kilocycles 272.6 meters

CMKD -- 20 ---  
KGDM \* 250 DX  
WLWL \* 5000 1  
WPG \* 5000 1C

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

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

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### 1110 kilocycles 270.1 meters

CMHI -- 15 ---  
KSOU \* 2000 Dn  
WRVA \* 5000 N

Santa Clara, Cuba  
Sioux Falls, S. D.  
Richmond, Va.

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

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### 1120 kilocycles 267.7 meters

CFJC -- 100 ---  
CHCS -- 10 4  
CHGS \* 100 ---  
CJOC † 50 ---  
CKOC \* 50 4  
KFIO † 100 D  
KFSG \* 500 3  
KMCS \* 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.  
Hamilton, Ont.  
Summerside, P. E. I.  
Lethbridge, Alta.  
Hamilton, Ont.  
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  
The Hamilton Spectator  
R. T. Holman, Ltd.  
Harold R. Carlson  
Wentworth Radio & Auto Sply. Co., Ltd  
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

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### 1130 kilocycles 265.3 meters

KSL \* 5000 N  
WJJD \* 20000 C Dn  
WOV -- 1000 D

Salt Lake City  
Mooseheart, Ill.  
New York City

Radio Service Corp. of Utah  
Loyal Order of Moose  
International Broadcasting Corp.

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### 1140 kilocycles 263.0 meters

KMGD -- 5 ---  
KVOO \* 5000 1N  
WAPI -- 5000 1N  
XETA -- 500 ---

Matanzas, Cuba  
Tulsa, Okla.  
Birmingham, Ala.  
Mexico City

Rafael Rodriguez  
Southwestern Sales Corp.  
Alabama Polytechnic Institute  
Manuel Espinosa Tagle

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### 1150 kilocycles 260.7 meters

CMCQ -- 600 ---  
CMHA -- 200 1154  
CMQ † 250 ---  
WHAM \* 5000 N

Havana, Cuba  
Cienfuegos, Cuba  
Havana, Cuba  
Rochester, N. Y.

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

WWOW \* 10000 1C  
 WWVA \* 5000 1

Ft. Wayne, Ind.  
 Wheeling W. Va.

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Main Auto Supply Co.  
 West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

CMKG -- 30 1176  
 KTNT \* 5000 Dn  
 WCAU \* 10000 C

Santiago de Cuba  
 Muscatine, Iowa  
 Philadelphia, Pa.

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Ricardo Arnoldo  
 Norman Baker  
 Universal Broadcasting Co.

1180 kilocycles 254.1 meters

CMGB -- 7.5 1185  
 KEX \* 5000 2  
 KOB \* 20000 2  
 WDGY \* 1000 1 Dn  
 WGBS † 250 +  
 WHDI \* 500 1 Dn

Matanzas, Cuba  
 Portland, Ore.  
 State College, N. M.  
 Minneapolis, Minn.  
 New York City  
 Minneapolis, Minn.

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Jose Anorga  
 Western Broadcasting Co.  
 College of Agriculture & Mech. Arts  
 Dr. George W. Young  
 General Broadcasting System, Inc.  
 Wm. Hood Dunwoody Industrial Inst.

1190 kilocycles 252.0 meters

WOAI \* 50000 N

San Antonio, Texas

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Southern Equipment Co.

1200 kilocycles 249.9 meters

CFCH -- 50 ---  
 CMKB -- 15 ---  
 KBTM -- 100 D  
 KFJB † 100 +  
 KFWF -- 100 5  
 KGCU -- 100 ---  
 KGDE \* 100 +  
 KGDY -- 100 ---  
 KGEK † 50 9  
 KGEW † 100 9  
 KGFJ -- 100 ---  
 KGHI -- 100 ---  
 KGY † 10 +  
 KMLB -- 50 D  
 KSMR -- 100 ---  
 KVOS \* 100 ---  
 KWG \* 100 ---  
 WABI † 100 ---  
 WABZ \* 100 1  
 WBBZ \* 100 ---  
 WCAT † 100 ---  
 WCAX \* 100 2  
 WCLO † 100 ---  
 WCOD † 100 3  
 WEHC \* 100 +  
 WEPS † 100 ---  
 WFBC \* 50 ---  
 WFBE -- 100 +  
 WHBC † 10 4S  
 WHBY † 100 ---  
 WIBX -- 100 +  
 WIL \* 100 5+  
 WJBC \* 100 6  
 WJBL † 100 6  
 WJBW -- 100 1  
 WKJC \* 100 3  
 WLAP † 100 +  
 WLBG \* 100 +  
 WNBO \* 100 4  
 WNBW † 10 ---  
 WNBX † 10 2  
 WORC \* 100 CX  
 WRAF \* 100 8  
 WRBL † 50 ---  
 WWAE † 100 8  
 10-BP \* 25 ---

North Bay, Ont.  
 Santiago de Cuba  
 Paragould, Ark.  
 Marshalltown, Iowa  
 St. Louis, Mo.  
 Mandan, N. D.  
 Fergus Falls, Minn.  
 Huron, S. D.  
 Yuma, Colo.  
 Fort Morgan, Colo.  
 Los Angeles, Cal.  
 Little Rock, Ark.  
 Lacey, Wash.  
 Monroe, La.  
 Santa Maria, Cal.  
 Bellingham, Wash.  
 Stockton, Cal.  
 Bangor, Maine  
 New Orleans, La.  
 Ponca City, Okla.  
 Rapid City, S. D.  
 Burlington, Vt.  
 Janesville, Wis.  
 Harrisburg, Pa.  
 Emory, Va.  
 Worcester, Mass.  
 Knoxville, Tenn.  
 Cincinnati, Ohio  
 Canton, Ohio  
 Green Bay, Wis.  
 Utica, N. Y.  
 St. Louis, Mo.  
 La Salle, Ill.  
 Decatur, Ill.  
 New Orleans, La.  
 Lancaster, Pa.  
 Louisville, Ky.  
 Petersburg, Va.  
 Washington, Pa.  
 Carbondale, Pa.  
 Springfield, Vt.  
 Worcester, Mass.  
 La Porte, Ind.  
 Columbus, Ga.  
 Hammond, Ind.  
 Wingham, Ont.

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Northern Supplies, Ltd.  
 Melchor Agüero  
 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.  
 Samuel D. Reeka  
 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 Parmer  
 Hammond-Calumet Broad. Corp.  
 Radio & Electric Shop

KCYS.  
 1210  
 MTRS.  
 247.8  
 DIAL

CUT OUT ON DOTTED LINES

1210 kilocycles 247.8 meters

CFCO -- 100 ---  
 CFNB -- 100 ---  
 CJOR \* 50 ---  
 CKMC -- 15 ---

Chatham, Ont.  
 Fredericton, N. B.  
 Sea Island, B. C.  
 Cobalt, Ont.

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

## INDEX BY FREQUENCIES AND DIAL NUMBERS

CKPC	†	25	+	Preston, Ont.	Metal Shingle & Siding Co.
KDFN	†	100	---	Casper, Wyo.	Donald Lewis Hathaway
KDLR	---	100	---	Devils Lake, N. D.	KDLR, Inc.
KFOR	*	100	+	Lincoln, Nebr.	Howard A. Shuman
KFVS	*	100	6	Cape Girardeau, Mo.	Hirsch Battery & Radio Co.
KFXM	†	100	9	San Bernardino, Cal.	J. C. & E. W. Lee
KGCR	†	100	---	Watertown, S. D.	Cutler's Radio Brdcastg. Service, Inc.
KGMP	†	100	---	Elk City, Okla.	Bryant Radio & Electric Co.
KGNO	*	100	---	Dodge City, Kans.	Dodge City Broadcasting Co.
KMJ	*	100	---	Fresno, Cal.	James McClatchy Co.
KPPC	\$	50	9	Pasadena, Cal.	Pasadena Presbyterian Church
KWEA	*	100	---	Shreveport, La.	Hello World Broadcasting Corp.
WALR	*	100	---	Zanesville, Ohio	Roy. W. Waller
WBAX	*	100	1	Wilkes-Barre, Pa.	John H. Stenger, Jr.
WBBL	†	100	7S	Richmond, Va.	Grace Covenant Pres. Church
WCBS	*	100	2	Springfield, Ill.	H. L. Dewing & Chas. Messter
WCOH	*	100	3	Yonkers, N. Y.	Westchester Broadcasting Corp.
WCRW	*	100	4	Chicago, Ill.	Clinton R. White
WDWF	---	100	5	Providence, R. I.	Dutee W. Flint
WBEQ	*	100	6	Harrisburg, Ill.	First Trust & Savings Bank
WEDC	*	100	4	Chicago, Ill.	Emil Denemark, Inc.
WGBB	*	100	3	Freeport, N. Y.	Harry H. Carman
WGCM	*	100	---	Gulfport, Miss.	Great Southern Land Co., Inc.
WHBF	*	100	---	Rock Island, Ill.	Beardsley Specialty Co.
WHBU	†	100	---	Anderson, Ind.	Citizens Bank
WIBU	*	100	---	Poynette, Wis.	Wm. C. Forrest
WJBI	---	100	3	Red Bank, N. J.	Monmouth Broadcasting Co.
WJBU	*	100	1	Lewisburg, Pa.	Bucknell University
WJBY	*	50	---	Gadsden, Ala.	Gadsden Broadcasting Co., Inc.
WJW	*	100	---	Mansfield, Ohio	Mansfield Broadcasting Assn.
WLCI	*	50	---	Ithaca, N. Y.	Lutheran Assn. of Ithaca
WLSI	---	100	5	Providence, R. I.	The Lincoln Studios, Inc.
WMBG	*	100	---	Richmond, Va.	Havens & Martin, Inc.
WMRJ	*	100	3	Jamaica, N. Y.	Peter J. Prinz
WOCL	*	50	---	Jamestown, N. Y.	A. E. Newton
WOMT	*	100	---	Manitowoc, Wis.	Francis M. Kadow
WPAW	*	100	5	Pawtucket, R. I.	Shartenburg & Robinson Co.
WQDX	*	100	---	Thomasville, Ga.	Stevens/Luke
WRBQ	†	100	+	Greenville, Miss.	J. Pat. Scully
WSBC	*	100	4	Chicago, Ill.	World Battery Co., Inc.
WSEN	†	100	---	Columbus, Ohio	Columbus Broadcasting Co.
WSIX	---	100	---	Springfield, Tenn.	638 Tire & Vulcanizing Co.
WSOC	---	100	---	Gastonia, N. C.	WSOC, Inc.
WTAX	†	100	2	Springfield, Ill.	WTAX, Inc.
XEX	---	500	---	Mexico City	Excelsior, Cia Editorial S. A.

### 1220 kilocycles 245.8 meters

CMCA	---	150	1225	Havana, Cuba
CMCN	---	250	1225	Havana, Cuba
KFKU	*	500	1	Lawrence, Kans.
KWSC	*	1000	+	Pullman, Wash.
WCAD	*	500	D	Canton, N. Y.
WCAE	*	1000	N	Pittsburgh, Pa.
WDAE	*	1000	C	Tampa, Fla.
WREN	*	1000	IN	Lawrence, Kans.

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

### 1230 kilocycles 243.8 meters

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

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

### 1240 kilocycles 241.8 meters

CMAB	---	20	1249	Pinar del Rio, Cuba
CMGH	---	60	1249	Matanzas, Cuba
CMKE	---	250	1249	Santiago de Cuba
KTAT	†	1000	1	Ft. Worth, Texas
WACO	†	1000	1C	Waco, Texas
WXYZ	†	1000	C	Detroit, Mich.

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Francisco Martinez  
Alberto Alvarez  
Edmundo Recamier  
S. A. T. Broadcast Co.  
Central Texas Broadcasting Co., Inc.  
Kunsky-Trendle Broadcasting Corp.

### 1250 kilocycles 239.9 meters

KFMX	---	1000	2	Northfield, Minn.
KFOX	*	1000	---	Long Beach, Cal.
KIDO	---	1000	---	Boise, Idaho

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Carleton College  
Nichols & Warinner, Inc.  
Boise Broadcasting Station

## INDEX BY FREQUENCIES AND DIAL NUMBERS

WAAM \* 1000 1+  
 WCAL \* 1000 2  
 WDSU -- 1000 C  
 WGPC -- 250 1  
 WLB † 1000 2  
 WODA -- 1000 1  
 WRHM \* 1000 2  
 XEFA -- 250 ---

Newark, N. J.  
 Northfield, Minn.  
 New Orleans, La.  
 Newark, N. J.  
 St. Paul, Minn.  
 Paterson, N. J.  
 Minneapolis, Minn.  
 Mexico City

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

### 1260 kilocycles

KOIL \* 1000 C  
 KRGV \* 500 1  
 KVOA -- 500 D  
 KWWG \* 500 1  
 WLBW \* 500 C+  
 WTOC \* 500 C

### 238.0 meters

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

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

### 1270 kilocycles

CMJB -- 20 1276  
 KFUM -- 1000 ---  
 KGCA -- 50 2D  
 KOL † 1000 3C  
 KTW -- 1000 3  
 KWLC -- 100 2D  
 WASH \* 100 2  
 WEAI \* 500 1  
 WFBR -- 1000 D  
 WJDX -- 500 ---  
 WOOD -- 1000 N  
 WOOD -- 500 1

### 236.1 meters

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

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Eduardo V. Figueroa  
 Reynolds Radio Co., Inc.  
 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

CMBJ -- 15 1285  
 CMBM -- 15 1285  
 CMCG -- 30 1285  
 CMCH -- 15 1285  
 CMCR -- 20 1285  
 KFBB \* 1000 +  
 WCAM -- 500 1  
 WCAP \* 500 1  
 WDOD \* 1000 +C  
 WIBA \* 500 ---  
 WOAX -- 500 1  
 WRRR -- 500 C

### 234.2 meters

Havana, Cuba  
 Havana, Cuba  
 Havana, Cuba  
 Havana, Cuba  
 Havana, Cuba  
 Great Falls, Mont.  
 Camden, N. J.  
 Asbury Park, N. J.  
 Chattanooga, Tenn.  
 Madison, Wis.  
 Trenton, N. J.  
 Dallas, Texas

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Jesus Lopez  
 Jose Leiro  
 Jose Justo Moran  
 Hernani Torralbas  
 Aurelio Hernandez  
 Buttrey Broadcast, Inc.  
 City of Camden  
 Radio Industries Broadcast Co.  
 WDOD Broadcasting Corp.  
 Capital Times Co.  
 WOAX, Inc.  
 City of Dallas

### 1290 kilocycles

KDYL \* 1000 C  
 KFUL -- 500 1  
 KLCN \* 50 D  
 KTSA † 1000 1+C  
 WBCB \* 1000 +N  
 WJAS \* 1000 C+  
 WNBZ -- 50 D

### 232.4 meters

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

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

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

### 1300 kilocycles

KFH \* 1000 2C  
 KFJR \* 500 3  
 KGFB \* 1000 4  
 KTBI \* 1000 4  
 KTBR -- 500 3  
 WBRR \* 1000 1  
 WEVD \* 500 1  
 WHAP \* 1000 1  
 WHAZ \* 500 1  
 WIOD \* 1000 N  
 WOQ \* 1000 2

### 230.6 meters

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

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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

CMGC -- 30 1315  
 KCRJ † 100 ---  
 KFBK † 100 ---  
 KFGQ † 100 7  
 KFJU -- 10 ---  
 KFJY \* 100 7  
 KNPL † 100 ---  
 KFPM \* 15 ---  
 KFUP -- 100 8  
 KFXJ -- 100 8

### 228.9 meters

Matanzas, Cuba  
 Jerome, Ariz.  
 Sacramento, Cal.  
 Boone, Iowa  
 Juneau, Alaska  
 Ft. Dodge, Iowa  
 Dublin, Texas  
 Greenville, Texas  
 Denver, Colo.  
 Grand Junction, Colo.

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Oscar Mechoso  
 Chas. C. Robinson  
 Jas. McClatchy Co.  
 Boone Biblical College  
 Alaska Electric Light & Power Co.  
 C. S. Turnwall  
 C. C. Baxter  
 The New Furniture Co.  
 Fitzsimmons General Hospital  
 Western Slope Broadcasting Co.

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

KFXR	--	100	+	Oklahoma City
KGBX	--	100	+	St. Joseph, Mo.
KGCX	--	100	+	Wolf Point, Mont.
KGEZ	--	100	+	Kalispell, Mont.
KGFW	--	100	---	Ravenna, Neb.
KIT	--	50	---	Yakima, Wash.
KMED	--	50	---	Medford, Ore.
KRMD	--	50	9	Shreveport, La.
KTLC	--	100	X	Houston, Tex.
KTSL	--	100	9	Shreveport, La.
KTSM	--	100	2	El Paso, Texas
KWCR	--	100	7	Cedar Rapids, Iowa
KXRO	--	75	---	Aberdeen, Wash.
WBEO	--	100	CP	Marquette, Mich.
WBOW	--	100	---	Terre Haute, Ind.
WBRE	--	100	---	Wilkes-Barre, Pa.
WCLS	--	100	1	Joliet, Ill.
WDAH	--	100	2	El Paso, Texas
WEBR	--	100	+	Buffalo, N. Y.
WFXL	--	50	---	Royal Oak, Mich.
WFBG	--	100	3+	Altoona, Pa.
WFDF	--	100	---	Flint, Mich.
WGAL	--	100	5	Lancaster, Pa.
WGH	--	100	---	Newport News, Va.
WHAT	--	100	4X	Philadelphia, Pa.
WJAC	--	100	3	Johnstown, Pa.
WJAK	--	50	6	Marion, Ind.
WKAV	--	100	---	Laconia, N. H.
WKBB	--	100	1	Joliet, Ill.
WKBC	--	100	---	Birmingham, Ala.
WKBS	--	100	---	Galesburg, Ill.
WLBC	--	50	6	Muncie, Ind.
WMBO	--	100	---	Auburn, N. Y.
WNBH	--	100	---	New Bedford, Mass.
WOBT	--	100	+	Union City, Tenn.
WOL	--	100	---	Washington, D. C.
WRAW	--	100	5Z	Reading, Pa.
WRBI	--	100	---	Tifton, Ga.
WROL	--	100	---	Knoxville, Tenn.
WSAJ	--	100	---	Grove City, Pa.
WSTS	--	100	---	Winston-Salem, N. C.
WTEL	--	100	4	Philadelphia, Pa.

Exchange Ave. Baptist Church  
 KGBX Inc.  
 First State Bank of Vida  
 Treloar-Church Brdctsg. Co.  
 Central Nebraska Broadcasting Corp.  
 Carl E. Haymond  
 Mrs. W. J. Virgin  
 Robert M. Dean  
 Houston Broadcasting Co.  
 G. A. Houseman  
 W. S. Bledsoe & W. T. Blackwell  
 Harry F. Paar  
 KXRO, Inc.  
 Charles B. McCleod  
 Banks of Wabash, Inc.  
 Louis G. Baltimore  
 WCLS, Inc.  
 Eagle Broadcasting Co.  
 Howell Broadcasting Co., Inc.  
 Royal Oak Broadcasting Co.  
 Wm. F. Gable Co.  
 Frank D. Fallain  
 WGAL, Inc.  
 Hampton Roads Broadcasting Corp.  
 Independence Broadcasting Co.  
 Johnstown Automobile Co.  
 Marion Broadcasting Co.  
 Laconia Radio Club  
 Sanders Bros. Radio Station  
 R. B. Broyles Furniture Co.  
 Permil N. Nelson  
 Donald A. Burton  
 Radio Service Laboratories  
 New Bedford Broadcasting Co.  
 Tittsworth's Radio & Music Shop  
 American Broadcasting Co.  
 Reading Broadcasting Co.  
 Oglethorpe University  
 Stewart Broadcasting Co.  
 Grove City College  
 Winston-Salem Journal Co.  
 Foulkrod Radio Engineering Co.

### 1320 kilocycles 227.1 meters

CMJC	--	15	1321	Camaguey, Cuba
CMKH	--	250	1327	Santiago de Cuba
KGHF	--	250	X+	Pueblo, Colo
KGMB	--	500	---	Honolulu, Hawaii
KID	--	250	1+	Idaho Falls, Idaho
KTFI	--	250	1+	Twin Falls, Idaho
WADC	--	1000	C	Akron, Ohio
WSMB	--	500	N	New Orleans, La.

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Feliciano Isaac  
 Alberto Ravelo  
 C. P. Ritchie & J. E. Finch  
 Honolulu Broadcasting Co., Ltd.  
 KID Broadcasting Co.  
 Radio Broadcasting Corp.  
 Allen T. Simmons  
 Saenger Theatre & Maison Blanche Co.

### 1330 kilocycles 225.4 meters

CMJA	--	10	1332	Camaguey, Cuba
KGB	--	250	X	San Diego, Cal.
KSCJ	--	1000	1+C	Sioux City, Iowa
WDRC	--	500	C	Hartford, Conn.
WSAI	--	500	N	Cincinnati, Ohio
WTAQ	--	1000	1C	Eau Claire, Wis.

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Pedro Noguera  
 Pickwick Broadcasting Corp.  
 Perkins Bros. Co.  
 Doolittle Radio Corp.  
 Crosley Radio Corp., Lessee  
 Gillette Rubber Co.

### 1340 kilocycles 223.7 meters

CMBA	--	50	1345	Havana, Cuba
CMBF	--	7.5	1345	Havana, Cuba
CMCD	--	15	1345	Havana, Cuba
CMCU	--	50	1345	Havana, Cuba
CMCY	--	15	1345	Havana, Cuba
KFPW	--	50	D	Fort Smith, Ark.
KFPY	--	1000	C	Spokane, Wash.
WCOA	--	500	---	Pensacola, Fla.
WSPD	--	500	C+	Toledo, Ohio

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Oscar Montenegro  
 Jose G. Reigada  
 Angel Bertamaty  
 Jorge Garcia Serra  
 M. D. Autran  
 Southwestern Hotels Co.  
 Symons Broadcasting Co.  
 City of Pensacola  
 Toledo Broadcasting Co.

### 1350 kilocycles 222.1 meters

KWK	--	1000	N	St. Louis, Mo.
WAWZ	--	250	1	New York City
WBNX	--	250	1	New York City
WCDA	--	250	1	New York City
WMSG	--	250	1	New York City

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Greater St. Louis Broadcasting Corp.  
 Pillar of Fire  
 Standard Cahill Co., Inc.  
 Italian Educ. Broadcasting Co., Inc.  
 Madison Sq. Garden Brdctsg. Corp.



INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

CMKF	**	30	1363
KGER	*	1000	4
KGIR	†	500	---
KPSN	---	1000	4
WCSC	*	500	---
WFBL	*	1000	C+
WGES	*	500	1+
WJKS	*	1000	1+
WQBC	---	300	CPD

Holguin, Cuba
Long Beach, Cal.
Butte, Mont.
Pasadena, Cal.
Charleston, S. C.
Syracuse, N. Y.
Chicago, Ill.
Gary, Ind.
Vicksburg, Miss.

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

1370 kilocycles 218.7 meters

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

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

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Genaro Sebater
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
Paul R. Heitmeyer
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

KOH	†	500	C
KOV	†	500	2
KSO	*	500	1
WKBH	*	1000	1
WSMK	*	200	2

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

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

1390 kilocycles 215.7 meters

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

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

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

1400 kilocycles 214.2 meters

CMBI	---	30	1405
CMBK	---	15	1405
CMBN	---	30	1405
CMBQ	---	50	1405
CMBX	---	30	1405
CMBY	*	100	1405
KLO	*	500	X
KOCW	*	250	+
WBAA	†	500	1+

Havana, Cuba
Havana, Cuba
Havana, Cuba
Havana, Cuba
Havana, Cuba
Havana, Cuba
Ogden, Utah
Chickasha, Okla.
Lafayette, Ind.

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Heriberto Meireles
Jose L. Ferriol
Armado Romeu
Emilio Salas
Bertin Fernandez
Lino E. Cosculluela
Peery Building Co.
College for Women
Purdue University

KCY.S.  
1400  
MTRS.  
214.2  
DIAL

CUT OUT ON  
DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

WBBC \* 500 2  
 WCGU \* 500 2  
 WCMA \* 500 1  
 WFOX † 500 2  
 WKBF † 500 1  
 WLTH † 500 2

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

Brooklyn Broadcasting Corp.  
 U. S. Broadcasting Corp.  
 General Broadcasting Corp.  
 Paramount Broadcasting Co.  
 Indianapolis Broadcasting, Inc.  
 The Voice of Brooklyn, Inc.

1410 kilocycles 212.6 meters

KFLV † 500 4  
 KGRS \* 1000 1  
 WBCM \* 500 C  
 WDAG \* 250 1X  
 WHBL \* 500 4  
 WHIS † 250 --  
 WLEX \* 500 2Y  
 WODX \* 500 3  
 WRBX \* 500 3--  
 WSA † 500 2  
 WSSH † 500 2

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

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

1420 kilocycles 211.1 meters

CMHE -- 20 1429  
 KBPS \* 100 4  
 KFIZ \* 100 --  
 KFQU \* 100 5X  
 KFQW \* 100 --  
 KFXD \* 100 XY  
 KFX Y \* 100 --  
 KFYO † 100 --  
 KGFF † 100 Y  
 KGGC † 100 5  
 KGIW † 100 ---  
 KGIX † 100 ---  
 KGKX † 100 ---  
 KGVO † 100 CPD  
 KICK \* 100 ---  
 KLP M † 100 ---  
 KORE \* 100 ---  
 KTAP † 100 ---  
 KXL -- 100 4  
 KXYZ -- 100 X  
 WEDH \* 100 --  
 WEHS -- 100 2--  
 WELL † 50 X  
 WFDW \* 100 --  
 WHDL \* 10 10 DX  
 WHFC \* 100 2  
 WIAS † 100 ---  
 WIBR \* 50 ---  
 WILM \* 100 ---  
 WJBO \* 100 ---  
 WKBI \* 100 2  
 WLBF \* 100 ---  
 WMBC \* 100 X+  
 WMBH -- 100 +  
 WPAD † 100 --  
 WSPA \* 100 --  
 WTBO \* 100 ---

Santa Clara, Cuba  
 Portland, Ore.  
 Fond du Lac, Wis.  
 Holy City, Cal.  
 Seattle, Wash.  
 Nampa, Idaho  
 Flagstaff, Ariz.  
 Abilene, Texas  
 Shawnee, Okla.  
 San Francisco, Cal.  
 Trinidad, Colo.  
 Las Vegas, Nevada  
 Sand Point, Idaho  
 Missoula, Mont.  
 Red Oak, Iowa  
 Minot, North Dakota  
 Eugene, Ore.  
 San Antonio, Texas  
 Portland, Ore.  
 Houston, Texas  
 Erie, Pa.  
 Cicero, Ill.  
 Battle Creek, Mich.  
 Talladega, Ala.  
 Tupper Lake, N. Y.  
 Cicero, Ill.  
 Ottumwa, Iowa  
 Steubenville, Ohio  
 Wilmington, Del.  
 New Orleans, La.  
 Chicago, Ill.  
 Kansas City, Kas.  
 Detroit, Mich.  
 Joplin, Mo.  
 Paducah, Ky.  
 Spartanburg, S. C.  
 Cumberland, Md.

Juan del Regato  
 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  
 KGNF † 500 D  
 WBAK † 500 1X+  
 WCAH \* 500 1C  
 WGBC \* 500 2S  
 WHP \* 500 1C+  
 WNBR \* 500 2  
 XEP -- 2500 ---

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

Earle C. Anthony, Inc.  
 Great Plains Broadcasting Co.  
 Penna. State Police  
 Commercial Radio Service Co.  
 Memphis Broadcasting Co.  
 Pennsylvania Broadcasting Co.  
 Memphis Broadcasting Co.  
 La Voz Latino

1440 kilocycles 208.2 meters

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

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

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.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1450 kilocycles 206.8 meters

CMKA -- 20 ---  
 KTBS \* 1000 ---  
 WBMS \* 250 1  
 WGAR † 500 N  
 WHOM \* 500 1  
 WKBO \* 250 1  
 WNJ \* 250 1  
 WSAR \* 250 ---  
 WTFI -- 500 D

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

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

### 1460 kilocycles 205.4 meters

KSTP \* 10000 NX  
 WJSV \* 10000 ---

St. Paul, Minn.  
 Alexandria, Va.

National Battery Broadcasting Co.  
 Independent Publishing Co.

### 1470 kilocycles 204.0 meters

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

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

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.

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

### 1490 kilocycles 201.2 meters

WCHI \* 5000 1  
 WKCY \* 5000 1N  
 WJAZ -- 5000 1

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

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

### 1500 kilocycles 199.9 meters

CMBL -- 15 ---  
 CMBP -- 15 ---  
 CMBR -- 35 ---  
 CMCM -- 15 ---  
 CMCT -- 5 ---  
 CMHB -- 10 ---  
 KDB \* 100 ---  
 KGFI \* 100 +  
 KGFK † 50 ---  
 KGIZ -- 50 ---  
 KGKB \* 100 Y  
 KGKY \* 100 ---  
 KPJM \* 100 ---  
 KPO † 50 ---  
 KRÉG † 100 ---  
 KUT † 100 ---  
 KXO -- 100 ---  
 WCLB -- 100 1Y  
 WDLX -- 100 ---  
 WKBV \* 100 +  
 WKBZ † 50 ---  
 WLBX \* 100 1  
 WLOE \* 100 +  
 WMBA -- 100 ---  
 WMBQ \* 100 1  
 WMPC † 100 ---  
 WNBF \* 100 ---  
 WOPI -- 100 ---  
 WPEN \* 100 +  
 WRDW \* 100 ---  
 WSYB † 100 CP  
 WWRL \* 100 1  
 WWSW -- 100 CP

Havana, Cuba  
 Havana, Cuba  
 Havana, Cuba  
 Havana, Cuba  
 Havana, Cuba  
 Sagua la Grande, Cuba  
 Santa Barbara, Cal.  
 Corpus Christi, Texas  
 Moorhead, Minn.  
 Grant City, Mo.  
 Brownwood, Texas  
 Scottsbluff, Nebr.  
 Prescott, Ariz.  
 Wenatchee, Wash.  
 Santa Ana, Cal.  
 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.  
 Brooklyn, N. Y.  
 Lapeer, Mich.  
 Binghamton, N. Y.  
 Bristol, Tenn.  
 Philadelphia, Pa.  
 Augusta, Ga.  
 Rutland, Vt.  
 Woodside, N. Y.  
 Pittsburg, Pa.

Julio C. Hidalgo  
 Ricardo Perkins  
 Tomas Basail  
 Martinez y Madico  
 Alberto Fernandez  
 Santiago Ventura  
 Dwight Faulding  
 Eagle Broadcasting Co., Inc.  
 Red River Broadcasting Co., Inc.  
 Grant City Park Corp.  
 Eagle Publishing Co.  
 Hilliard Co., Inc.  
 Miller & Klahn  
 Westcoast Broadcasting Co.  
 Pacific Western Broadcasting  
 Driskill Hotel  
 E. R. Irely and F. M. Bowles  
 Arthur Faske  
 North Mississippi Broadcasting Corp.  
 Knox Battery & Electric Co.  
 K. L. Ashbacher  
 John N. Brahy  
 Boston Broadcasting Co.  
 LeRoy Joseph Beebe  
 Paul J. Gollhofer  
 First M. P. Church  
 Howitt-Wood Radio Co., Inc.  
 Radiophone Brcdstg. Station, Inc.  
 Wm. Penn Broadcasting Co.  
 Warren C. Davenport's Musicov, Inc.  
 Seward & Weiss Music Co.  
 Long Island Broadcasting Corp.  
 William S. Walker

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

## INDEX BY LOCATIONS WITH MAP KEY

ALABAMA		Watts	Kcys.		
Birmingham O-21	5000	WAPI	1140	San Jose J-1	500 KQW 1010
	500	WBRC	930	Santa Ana M-3	100 KREG 1500
	100	WKBC	1310	Santa Barbara M-2	100 KDB 1500
Gadsden O-21	50	WJBY	1210	Santa Maria L-2	100 KSMR 1200
Mobile Q-20	500	WODX	1410	Stockton J-2	250 KGDM 1100
Montgomery P-21	500	WSFA	1410		100 KWG 1200
Talladega O-21	100	WFDW	1420		
<b>COLORADO</b>					
<b>ALASKA</b>				Colorado Springs K-11	1000 KFUM 1270
Anchorage	100	KFQD	1230	Denver K-11	500 KFEL 920
Juneau	10	KFIU	1310		100 KFUP 1310
Ketchikan	500	KGBU	900		500 KFXF 920
					1000 KLZ 560
<b>ARIZONA</b>					12500 KOA 830
Flagstaff M-7	100	KFXV	1420		500 KPOF 880
Jerome M-6	100	KCRJ	1310	Fort Morgan J-11	100 KGEW 1200
Phoenix N-6	500	KOY	1390	Grand Junction K-9	100 KFXJ 1310
	500	KTAR	620	Greeley J-11	500 KFKA 880
Prescott M-6	100	KPJM	1500	Pueblo L-11	250 KGHF 1320
Tucson O-7	100	KGAR	1370	Trinidad L-11	100 KGVW 1420
	500	KVOA	1260	Yuma J-12	50 KGEK 1200
<b>CONNECTICUT</b>					
<b>ARKANSAS</b>				Bridgeport H-27	500 WICC 600
Blytheville M-19	50	KLCN	1290	Hartford H-27	500 WDRC 1330
Fayetteville M-16	1000	KUOA	1390		50000 WTIC 1060
Fort Smith N-16	50	KFPW	1340	Storrs H-28	250 WCAC 600
Hot Springs N-17	1000	KTHS	1040		
Little Rock N-17	100	KGHI	1200	<b>DELAWARE</b>	
	250	KGJF	890	Wilmington J-26	250 WDEL 1120
	1000	KLRA	1390		100 WILM 1420
Paragould M-18	100	KBTM	1200	<b>DISTRICT OF COLUMBIA</b>	
<b>CALIFORNIA</b>				Washington J-26	250 WMAL 630
Berkeley J-2	100	KRE	1370		500 WRC 950
Burbank M-3	500	KELW	780		100 WOL 1310
Culver City M-3	250	KFVD	1000	<b>FLORIDA</b>	
El Centro N-4	100	KXO	1500	Clearwater R-24	1000 WFLA 620
Fresno K-2	100	KMJ	1210	Gainesville Q-24	5000 WRUF 830
Hayward J-1	100	KZM	1370	Jacksonville Q-24	1000 WJAX 900
Hollywood M-3	1000	KFWB	950	Miami T-25	1000 WIOD 1300
	5000	KNX	1050		1000 WQAM 560
Holy City K-1	100	KFOU	1420	Orlando R-24	500 WDBO 1120
Inglewood M-3	500	KMCS	1120	Pensacola Q-21	500 WCOA 1340
Long Beach M-3	1000	KFOX	1250	St. Petersburg S-24	1000 WSNW 620
	1000	KGER	1360	Tampa R-24	1000 WDAE 1220
Los Angeles M-3	1000	KECA	1430		100 WMBR 1370
	5000	KFI	640	<b>GEORGIA</b>	
	500	KFSG	1120	Atlanta O-22	250 WGST 890
	1000	KGEF	1300		5000 WSB 740
	100	KGFJ	1200	Augusta O-23	100 WRDW 1500
	1000	KHJ	900	Columbus O-22	50 WRBL 1200
	500	KMPC	710	Macon O-23	250 WMAZ 890
	500	KMTR	570	Rome N-22	100 WFDV 1370
	500	KTM	780	Savannah O-24	500 WTOG 1260
Oakland J-1	1000	KTBI	1300	Thomasville Q-22	100 WQDX 1210
	250	KLS	1440	Tifton P-23	100 WRBI 1310
	500	KRLX	880	Toccoa N-23	500 WTFI 1450
	500	KROW	930	<b>HAWAII</b>	
Pasadena M-3	50	KPPC	1210	Honolulu	500 KGMB 1320
	1000	KPSN	1360		1000 KGU 940
Sacramento J-2	100	KFBK	1310	<b>IDAHO</b>	
San Bernardino M-3	100	KFXM	1210	Boise G-5	1000 KIDO 1250
San Diego N-3	500	KFSD	600	Idaho Falls G-7	250 KID 1320
	250	KGB	1330	Nampa G-5	50 KFXD 1420
San Francisco J-1	1000	KFRC	610	Pocatello H-7	250 KSEI 900
	500	KFWI	930	Sand Point D-6	100 KGKX 1420
	100	KGGC	1420	Twin Falls H-6	250 KTFI 1320
	7500	KGO	790		
	100	KJBS	1070		
	5000	KPO	680		
	1000	KTAB	560		
	1000	KYA	1230		

## INDEX BY LOCATIONS WITH MAP KEY

### ILLINOIS

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

### INDIANA

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

### IOWA

Ames I-17	5000	WOI	640
Boone I-17	100	KFGQ	1310
Cedar Rapids I-18	100	KWCR	1310
Clarinda J-16	500	KSO	1380
Council Bluffs J-16	1000	KOIL	1260
Davenport I-18	5000	WOC	1000
Decorah I-18	50	KGCA	1270
	100	KWLC	1270
Des Moines I-17	5000	WHO	1000
Fort Dodge I-16	100	KFYI	1310
Iowa City I-18	500	WSUI	880
Marshalltown I-17	100	KFJB	1200
Muscatine J-18	5000	KTNT	1170

Ottumwa J-17	100	WIAS	1420
Red Oak J-16	100	KICK	1420
Shenandoah J-16	500	KFNF	890
	500	KMA	930
Sioux City I-15	1000	KSCJ	1330
Waterloo I-17	500	WMT	600

### KANSAS

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

### KENTUCKY

Covington K-22	5000	WCKY	1490
Hopkinsville M-20	1000	WFIV	940
Louisville L-21	10000	WHAS	820
	100	WLAP	1200
Paducah M-19	100	WPAD	1420

### LOUISIANA

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

### MAINE

Augusta F-28	100	WRDO	1370
Bangor F-29	100	WABT	1200
	500	WLBZ	620
Portland F-28	1000	WCSH	940

### MARYLAND

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

### MASSACHUSETTS

Boston G-28	1000	WBIS	1230
	1000	WBEI	590
	1000	WHDH	830
	100	WLOE	1500
	1000	WNAC	1230
	500	WSSH	1410
Fall River H-28	250	WSAR	1450
Lexington G-28	500	WLEX	1410
	100	WLEY	1370
New Bedford H-28	100	WNBH	1310
Springfield H-27	15000	WBZ-A	990
Needham G-28	500	WBOS	920
Worcester G-28	100	WEPB	1200
	100	WORC	1200
	250	WTAG	580

### MICHIGAN

Battle Creek I-21	50	WELL	1420
Bay City H-22	500	WBCM	1410
Berrien Springs I-20	1000	WKZO	590
Calumet E-19	100	WHDF	1370

## 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	WPDF	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	WKBZ	1500				
Marquette F-19	100	WBEO	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-18	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	KGEZ	1310				
Missoula E-7	100	KGVO	1420				
Wolf Point E-11	100	KGCV	1310				
<b>NEBRASKA</b>							
Clay Center J-14	1000	KMMJ	740				
Lincoln J-15	5000	KFAB	770				
	100	KFOR	1210				
	500	WCAJ	590				
Norfolk I-15	1000	WJAG	1060				
North Platte J-13	500	KGNF	1430				
Omaha J-15	500	WAAW	660				
	1000	WOW	590				
Ravenna J-14	100	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				
	500	WHOM	1450				
	250	WKBO	1450				
Newark I-27	1000	WAAM	1250				
	250	WGCP	1250				
	250	WNJ	1450				
	5000	WOR	710				
Paterson I-27	1000	WODA	1250				
Red Bank I-27	100	WBJB	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>							
Albany H-27	500	WOKO	1440				
Auburn H-25	100	WMBO	1310				
Binghamton H-26	100	WNBF	1500				
Brooklyn I-27	500	WBBC	1400				
	1000	WBBR	1300				
	500	WCGU	1400				
	500	WFOJ	1400				
	500	WLTH	1400				
	100	WMBQ	1500				
Buffalo H-24	1000	WBEN	900				
	100	WEBR	1310				
	1000	WGR	550				
	5000	WKBW	1480				
	1000	WMAK	1040				
	50	WVSJ	1370				
Canton F-26	500	WCAD	1220				
Freeport I-27	100	WGBB	1210				
Glen Falls G-27	50	WBGJ	1370				
Ithaca H-25	1000	WEAI	1270				
	50	WLCI	1210				
Jamaica H-27	100	WMRJ	1210				
Jamestown H-24	50	WOCL	1210				
Long Island City I-27	100	WLTX	1500				
Long Beach I-27	100	WCLB	1500				
New York City I-27	5000	WABC	860				
	250	WAWZ	1350				
	250	WBNX	1350				
	5000	WBOQ	860				
	250	WCDA	1350				
	50000	WEAF	660				
	500	WEVD	1300				
	250	WGBS	1180				
	1000	WHAP	1300				
	250	WHN	1010				
	30000	WJZ	760				
	5000	WLWL	1100				
	500	WMCA	570				
	250	WMSG	1350				
	500	WNYC	570				
	1000	WOV	1130				
	250	WPAP	1010				
	500	WPCH	810				
	250	WQAO	1010				
	250	WRNY	1010				

INDEX BY LOCATIONS WITH MAP KEY

Patchogue I-27	100	WPOE	1370
Rochester G-25	5000	WHAM	1150
	500	WHEC	1440
Saranac Lake F-26	50	WNBZ	1290
Schenectady G-27	50000	WGY	790
Syracuse G-25	1000	WFBL	1360
	250	WMAC	570
	250	WSYR	570
Troy G-27	500	WHAZ	1300
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	WBIC	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	WBHC	1200
Cincinnati K-22	100	WFBE	1200
	1000	WKRC	550
	50000	WLW	700
	500	WSAI	1330
Cleveland I-23	500	WGAR	1450
	1000	WHK	1390
	500	WJAY	610
	50000	WTAM	1070
	500	WATU	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
Staubenville J-23	50	WIBR	1420
Toledo I-22	500	WSPD	1340
Youngstown I-23	500	WKBN	570
Zanesville J-23	100	WALR	1210

OKLAHOMA

Chickasha N-14	250	KOCW	1400
Elk City N-13	100	KGMP	1210
Enid M-14	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-15	500	KGGF	1010
Shawnee N-15	100	KGFF	1420
Tulsa M-15	5000	KVOO	1140

OREGON

Astoria D-2	100	KFJI	1370
Corvallis E-2	1000	KOAC	550
Eugene F-2	100	KORE	1420

Marshfield F-1	100	KOOS	1370
Medford G-2	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
Altoona I-25	100	WFBG	1310
Carbondale H-26	10	WNBW	1200
Elkins Park I-26	50	WIBG	930
Erie H-24	30	WEDH	1420
Grove City I-24	100	WSAJ	1310
Harrisburg I-25	500	WBAK	1430
	100	WCOD	1200
	500	WHP	1430
Johnstown J-24	100	WJAC	1310
Lancaster I-26	100	WGAL	1310
	100	WKJC	1200
	100	WJBU	1210
Lewisburg I-26	100	WLBW	1260
Oil City I-24	500	WLBW	1260
Philadelphia I-26	10000	WCAU	1170
	100	WELK	1370
	500	WFAN	610
	500	WFI	560
	100	WHAT	1310
	500	WIP	610
	500	WLIT	560
	100	WPEN	1500
	250	WRAX	1020
	100	WTEL	1310
Pittsburgh J-24	50000	KDKA	980
	500	KOV	1380
	1000	WCAE	1220
	1000	WJAS	1290
	100	WWSW	1500
Reading I-26	100	WRAW	1310
Seranton H-26	250	WGBI	880
	250	WOAN	880
State College I-25	500	WPSC	1230
Washington J-24	100	WNBO	1200
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	100	WRAK	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 H-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	WBBL	1210
Yankton I-15	1000	WNAX	570		100	WMBG	1210
<b>TENNESSEE</b>					5000	WRVA	1110
Bristol L-23	100	WOPI	1500	Roanoke L-24	250	WDBJ	930
Chattanooga N-21	1000	WDOD	1280		250	WRBX	1410
Knoxville M-22	50	WFBC	1200	<b>WASHINGTON</b>			
	1000	WNOX	560	Aberdeen D-2	75	KXRO	1310
	100	WROL	1310	Bellingham C-3	100	KVOS	1200
Memphis N-19	500	WGBC	1430	Everett C-3	50	KFBL	1370
	100	WHBQ	1370	Lacey D-3	10	KGY	1200
	500	WMC	780	Pullman E-5	1000	KWSC	1220
	500	WNBR	1430	Seattle C-3	1000	KFQW	1420
	500	WREC	600		5000	KJR	970
Nashville M-21	5000	WLAC	1470		1000	KOL	1270
	5000	WSM	650		1000	KOMO	920
	5000	WTNT	1470		100	KPCB	650
Springfield M-20	100	WSIX	1210		50	KRSC	1120
Union City M-19	100	WOBT	1310		1000	KTW	1270
					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		1000	KHQ	590
Beaumont R-17	500	KFDM	560	Tacoma D-3	500	KMO	860
Brownsville U-15	500	KWWG	1260		1000	KVL	760
Brownwood P-14	100	KGKB	1500	Walla Walla E-5	100	KUJ	1370
College Sta. Q-15	500	WTAW	1120	Wenatchee D-4	50	KPQ	1500
Corpus Christi S-14	100	KGFI	1500	Yakima D-4	50	KIT	1310
Dallas P-15	10000	KRLD	1040	<b>WEST VIRGINIA</b>			
	50000	WFAA	800	Bluefield L-24	100	WHIS	1420
	500	WRR	1280	Charleston K-23	250	WOBU	580
Dublin P-14	100	KFFL	1310	Fairmont J-24	250	WMMN	890
El Paso P-9	100	KTSM	1310	Huntington K-23	250	WSAZ	580
	100	WDAH	1310	Wheeling J-24	5000	WVVA	1160
Fort Worth P-15	100	KFJZ	1370	<b>WISCONSIN</b>			
	1000	KTAT	1240	Eau Claire G-18	1000	WTAQ	1330
	10000	WBAP	800	Fond du Lac H-19	100	KFIZ	1420
Galveston R-16	100	KFLX	1370	Green Bay G-19	100	WHBY	1200
	500	KFUL	1290	Janesville I-19	100	WCLO	1200
Greenville O-15	15	KFPM	1310	La Crosse H-18	1000	WKBH	1380
Harlingen T-14	500	KRGV	1260	Madison H-19	750	WHA	940
Houston R-16	1000	KPRC	920		500	WIBA	1280
	100	KTLC	1310		250	WISJ	780
	500	KTRH	1120	Manitowoc H-20	100	WOMT	1210
	100	KXYZ	1420	Milwaukee H-19	250	WHAD	1120
San Angelo Q-13	100	KGKL	1370		250	WISN	1120
San Antonio R-14	100	KMAC	1370		1000	WTMJ	620
	100	KONO	1370	Poynette H-19	100	WIBU	1210
	100	KTAP	1420	Racine I-20	100	WRJN	1370
	1000	KTSA	1290	Sheboygan H-20	500	WHBL	1410
	5000	WOAI	1190	Stevens Pt. G-19	2000	WLBL	900
Waco Q-15	1000	WACO	1240	Superior F-17	1000	WEBC	1290
Wichita Falls O-14	250	KGKO	570	<b>WYOMING</b>			
<b>UTAH</b>				Casper H-10	100	KDFN	1210
Ogden I-7	500	KLO	1400	<b>CANADA</b>			
Salt Lake City I-7	1000	KDYL	1290	<b>ALBERTA</b>			
	5000	KSL	1130	Calgary B-7	500	CFAC	690
<b>VERMONT</b>					500	CFCN	690
Burlington F-27	100	WCAX	1200		500	CHCA	690
Rutland G-27	100	WSYB	1500		500	CJ CJ	690
St. Albans F-27	100	WQDM	1370		500	CNRC	690
Springfield G-27	10	WNBX	1200	Edmonton A-8	500	CJCA	930
					500	CKUA	580
<b>VIRGINIA</b>				Lethbridge C-8	50	CJOC	1120
Alexandria K-26	10000	WJSV	1460	Red Deer A-8	1000	CHCT	840
Arlington J-25	1000	NAA	690		1000	CKLC	840
Danville L-25	100	WBTM	1370		1000	CNRD	840
Emory L-23	100	WEHC	1200				
Lynchburg L-25	100	WLVA	1370				
Newport News L-26	100	WGH	1310				
Norfolk L-26	500	WPOR	780				
	500	WTAR	780				



## INDEX BY LOCATIONS WITH MAP KEY

BRITISH COLUMBIA		Watts	Keys.	SASKATCHEWAN	
Chilliwack B-3	5	CHWK	665	Fleming C-13	500 CJRW 600
Kamloops B-5	100	CFJC	1120	Moose Jaw C-11	500 CJRM 600
Sea Island	50	CJOR	1210	Regina C-12	500 CHWC 960
Vancouver B-3	50	CHLS	730		500 CJBR 960
	50	CKCD	730		500 CKKC 960
	50	CKFC	730	Saskatoon B-11	500 CNRR 960
	50	CKMO	730		500 CFQC 910
	100	CKWX	730	Yorkton B-13	500 CNRS 910
	500	CNRV	1030		500 CJGX 630
Victoria C-3	500	CFCT	630		
<b>MANITOBA</b>				<b>HAITI</b>	
Brandon D-14	500	CKX	540	Port au Prince X-30	1000 HHK 920
Winnipeg D-15	5000	CKY	780		
	5000	CNRW	780		
<b>NEW BRUNSWICK</b>				<b>MEXICO</b>	
Fredericton D-29	500	CFNB	1210	Aguascalientes W-10	350 XFC 805
Moncton D-30	500	CNRA	630	Chihuahua, Chih. R-9	250 XFF 915
St. John D-30	500	CFBO	890	Guadalajara, Jal. X-10	101 XEA 1000
<b>NEWFOUNDLAND</b>				Juarez P-9	101 XEJ 1000
St. Johns A-35	500	8WMC	682	Laredo, N. L. S-13	1000 XEQ 750
<b>NOVA SCOTIA</b>					101 XEFE 1000
Glace Bay C-32	10000	VAS	685		2500 XEP 1430
Halifax E-31	500	CHNS	910	Merida, Yuc. X-19	105 XEY 1000
	500	CNRH	910	Mexico City Y-13	1000 XEB 1030
Sydney C-32	50	CJCB	880		250 XEFA 1250
Wolfville D-31	50	CKIC	1010		101 XEK 719
<b>ONTARIO</b>					1000 XEN 940
Chatham H-22	100	CFCO	1210		5000 XEO 940
Cobalt E-23	15	CKMC	1210		101 XER 650
Hamilton H-24	10	CHCS	1120		500 XETA 1140
	50	CHML	880		2000 XETY 840
	50	CKOC	1120		500 XEX 1210
Kingston G-25	500	CFRC	930		5000 XEW 780
London H-23	5000	CJGC	910		500 XEZ 588
	500	CNRL	910		2000 XFG 638
North Bay	50	CFCH	1200		1000 XFI 818
Ottawa F-25	100	CKCO	890		500 XFX 860
	500	CNRO	600	Monterrey, N. L. U-13	5000 XEH 1080
Port Arthur E-19	50	CKPR	890		500 XET 630
Prescott F-25	50	CFLC	1010	Morelia, Mich. Y-12	101 XEI 1000
Preston H-23	25	CKPC	1210	Oaxaca, Oak. AA-14	105 XEE 1000
Toronto G-24	500	CFCA	840	Puebla Z-13	101 XEV 1000
	500	CFCL	580	Reynosa, Tams. T-14	10000 XED 977
	5000	CFRB	960	Saltillo, Coah. U-12	10 XEL 1000
	500	CKCL	580	Tampico, Tams. W-14	500 XEM 730
	5000	CKGW	690		500 XES 890
	500	CKNC	580	Toluca, Y-12	50 XEC 1000
	500	CNRT	840	Veracruz, Ver. Z-14	500 XETF 680
	5000	CNRX	960		101 XEU 1000
	5000	CPRY	690		
Waterloo G-23	50	CKCR	1010	<b>CUBA</b>	
Wingham G-23	25	10-BP	1200	Caibarien W-25	250 CMHD 920
<b>PRINCE EDWARD ISLAND</b>				Cardenas W-24	30 CMGE 1375
Charlottetown C-31	250	CFCY	960	Camaguey W-26	10 CMJA 1332
	100	CHCK	960		15 CMJC 1321
Summerside C-31	100	CHGS	1120		5 CMJE 856
<b>QUEBEC</b>				Ciego de Avila W-26	20 CMJB 1276
Montreal E-26	1650	CFCF	1030	Cienfuegos W-25	200 CMHA 1154
	5000	CHYC	730		40 CMHJ 645
	5000	CKAC	730	Cifuentes	10 CMHH 870
	5000	CNRM	730	Colon W-24	100 CMGA 834
Quebec D-27	100	CHRC	645	Guanajay W-23	30 CMAA 1090
	22	CKCI	880	Havana W-23	50 CMBA 1345
	50	CKCV	880		150 CMBC 955
	50	CNRQ	880		150 CMBD 955
					7.5 CMBF 1345
					150 CMBG 1070
					30 CMBI 1405
					15 CMBJ 1285
					15 CMBK 1405
					15 CMBL 1500
					15 CMBM 1285
					30 CMBN 1405
					15 CMBP 1500

CFAC 690	CKAC 730	CMBS 790	CMHJ 645
Calgary, Alta.	Montreal, Que.	Havana, Cuba	Cienfuegos, Cuba
CFBO 890	CKCD 730	CMBT 1070	CMJA 1332
St. John, N. B.	Vancouver, B. C.	Havana, Cuba	Camaguey, Cuba
CFC 840	CKCI 880	CMBW 1010	CMJB 1276
Toronto, Ont.	Quebec, Que.	Havana, Cuba	Ciego de Avila
CFCE 1030	CKCK 960	CMBX 1405	CMJC 1321
Montreal, Que.	CKCL 580	Havana, Cuba	Camaguey, Cuba
CFCH 1200	Toronto, Ont.	CMBY 1405	CMJE 856
North Bay, Ont.	CKCO 890	Havana, Cuba	Camaguey, Cuba
CFCL 580	Ottawa, Ont.	CMBZ 1010	CMK 730
Toronto, Ont.	CKCE 1010	Havana, Cuba	Havana, Cuba
CFCN 690	Waterloo, Ont.	CMC 845	CMKA 1450
Calgary, Alta.	CKCV 880	Havana, Cuba	Santiago, Cuba
CFCO 1210	Quebec, Que.	CMCA 1225	CMKB 1200
Chatham, Ont.	CKFC 730	Havana, Cuba	Santiago, Cuba
CFCT 630	Vancouver, B. C.	CMCB 1070	CMKC 1034
Victoria, B. C.	CKGW 690	Havana, Cuba	Santiago, Cuba
CFCY 960	Toronto, Ont.	CMCD 1345	CMKD 1100
Ch'lottet'n, P.E.I.	CKJ 1010	Havana, Cuba	Santiago, Cuba
CFJC 1120	Wolfville, N. S.	CMCF 890	CMKE 1249
Kamloops, B. C.	CKLC 840	Havana, Cuba	Santiago, Cuba
CFLC 1010	Red Deer, Alta.	CMCG 1285	CMKF 1363
Prescott, Ont.	CKMC 1210	Havana, Cuba	Holguin, Cuba
CFNB 1210	Cobalt, Ont.	CMCH 1285	CMKG 1176
Fredericton, N.B.	CKMO 730	Havana, Cuba	Santiago, Cuba
CFQC 910	Vancouver, B. C.	CMCJ 550	CMKH 1327
Saskatoon, Sask.	CKNC 580	Havana, Cuba	Santiago, Cuba
CFRB 960	Toronto, Ont.	CMCM 1500	CMQ 1150
Toronto, Ont.	CKOC 1120	Havana, Cuba	Havana, Cuba
CFRC 930	Hamilton, Ont.	CMCN 1225	CMW 588
Kingston, Ont.	CKPC 1210	Havana, Cuba	Havana, Cuba
CHCA 690	Preston, Ont.	CMCO 660	CMX 890
Calgary, Alta.	CKPR 890	Havana, Cuba	Havana, Cuba
CHCK 960	Port Arthur, Ont.	CMCQ 1150	CNRA 630
Ch'lottet'n, P.E.I.	CKUA 580	Havana, Cuba	Meneton, N.B.
CHCS 1120	Edmonton, Alta.	CMCR 1285	CNRC 690
Hamilton, Ont.	CKWX 730	Havana, Cuba	Calgary, Alta.
CHCT 840	Vancouver, B. C.	CMCT 1500	CNRD 840
Red Deer, Alta.	CKX 540	Havana, Cuba	Red Deer, Alta.
CHGS 1120	Brandon, Man.	CMCU 1345	CNRH 910
Sum'rside, P.E.I.	CKY 780	Havana, Cuba	Hallfax, N. S.
CHLS 730	Winnipeg, Man.	CMCX 1010	CNRL 910
Vancouver, B. C.	CMAA 1090	Havana, Cuba	London, Ont.
CHML 880	Guanajay, Cuba	CMCY 1345	CNRM 730
Hamilton, Ont.	CMAB 1249	Havana, Cuba	Montreal, Que.
CHNS 910	Pinar del Rio, Cu.	CMGA 834	CNBO 600
Halifax, N.S.	CMBA 1345	Colon, Cuba	Ottawa, Ont.
CHBC 645	Havana, Cuba	CMGB 1185	CNRQ 880
Quebec, Que.	CMBC 955	Matanzas, Cuba	Quebec, Que.
CHWC 960	Havana, Cuba	CMGC 1315	CNRR 960
Regina, Sask.	CMBD 955	Matanzas, Cuba	Regina, Sask.
CHWK 665	Havana, Cuba	CMGD 1140	CNRS 910
Chilliwack, B. C.	CMBF 1345	Matanzas, Cuba	Saskatoon, Sask.
CHYC 730	Havana, Cuba	CMGE 1375	CNRT 840
Montreal, Que.	CMBG 1070	Cardenas, Cuba	Toronto, Ont.
CJBR 960	Havana, Cuba	CMGF 977	CNRV 1030
Regina, Sask.	CMBI 1405	Matanzas, Cuba	Vancouver, B. C.
CJCA 930	Havana, Cuba	CMGH 1249	CNRW 780
Edmonton, Alta.	CMBJ 1285	Matanzas, Cuba	Winnipeg, Man.
CJCB 880	Havana, Cuba	CMGI 1094	CNRX 960
Sydney, N.S.	CMBK 1405	Matanzas, Cuba	Toronto, Ont.
CJCC 690	Havana, Cuba	CMHA 1154	CPRY 690
Calgary, Alta.	CMBL 1500	Cienfuegos, Cuba	Toronto, Ont.
CJGG 910	Havana, Cuba	CMHB 1500	HHK 920
London, Ont.	CMBM 1285	Sagua la Grande	Port au Prince, H.
CJGX 630	Havana, Cuba	CMHC 790	KBPS 1420
Yorkton, Sask.	CMBN 1405	Tuinucu, Cuba	Portland, Ore.
CJOC 1120	Havana, Cuba	CMHD 920	KBTM 1200
Lethbridge, Alta.	CMBP 1500	Caibarien, Cuba	Paragould, Ark.
CJOR 1210	Havana, Cuba	CMHE 1429	KCRC 1370
Sea Island, B. C.	CMBQ 1405	Santa, Clara Cu.	Enid, Okla.
CJRM 600	Havana, Cuba	CMHH 870	KCRJ 1310
Moose Jaw, Sask.	CMBR 1500	Cifuentes, Cuba	Jerome, Ariz.
CJRW 600	Havana, Cuba	CMHI 1110	KDB 1500
Fleming, Sask.		Santa Clara, Cu.	S. Barbara, Cal.

KDFN 1210 Casper, Wyo.	KFPM 1310 Greenville, Tex.	KGDM 1100 Stockton, Cal.	KGW 620 Portland, Ore.
KDKA 980 Pittsburgh, Pa.	KFPW 1340 Ft. Smith, Ark.	KGDY 1200 Huron, S. D.	KGY 1200 Lacey, Wash.
KDLR 1210 Devils Lake, N.D.	KFPY 1340 Spokane, Wash.	KGEF 1300 Los Angeles, Cal.	KHJ 900 Los Angeles, Cal.
KDYL 1290 Salt Lake City	KFQD 1230 Anchorage, Alas.	KGEK 1200 Yuma, Colo.	KHQ 590 Spokane, Wash.
KECA 1430 Los Angeles, Cal.	KFQU 1420 Holy City, Cal.	KGER 1360 Long Beach, Cal.	KICK 1420 Red Oak, Iowa.
KELW 780 Burbank, Cal.	KFQW 1420 Seattle, Wash.	KGEW 1200 Ft. Morgan, Colo.	KID 1320 Idaho Falls, Ida.
KEX 1180 Portland, Ore.	KFRC 610 San F'nscisco, Cal.	KGEZ 1310 Kalispell, Mont.	KIDO 1250 Boise, Idaho
KFAB 770 Lincoln, Nebr.	KFRU 630 Columbia, Mo.	KGFF 1420 Shawnee, Okla.	KIT 1310 Yakima, Wash.
KFBB 1280 Great Fls., Mont.	KFSD 600 San Diego, Cal.	KGFG 1370 Oklahoma City	KJBS 1070 San F'nscisco, Cal.
KFBK 1310 Sacramento, Cal.	KFSG 1120 Los Angeles, Cal.	KGFI 1500 Corpus Ch'st, Tex	KJR 970 Seattle, Wash.
KFBL 1370 Everett, Wash.	KFUL 1290 Galveston, Tex.	KGFJ 1200 Los Angeles, Cal.	KLCN 1290 Blytheville, Ark.
KFDM 560 Beaumont, Tex.	KFUM 1270 Col. Spgs., Colo.	KGFK 1500 Moorhead, Minn.	KLO 1400 Ogden, Utah
KFDY 550 Brookings, S.D.	KFUO 550 St. Louis, Mo.	KGFL 1370 Raton, N. M.	KLPN 1420 Minot, N. Dak.
KFBL 920 Denver, Colo.	KFUL 1310 Denver, Colo.	KGFW 1310 Ravenna, Nebr.	KLRA 1390 Little Rock, Ark.
KFEQ 680 St. Joseph, Mo.	KFVD 1000 Culver City, Cal.	KGFX 580 Pierre, S. D.	KLS 1440 Oakland, Cal.
KFGQ 1310 Boone, Iowa	KFVS 1210 Cape Gir'rd'u, Mo	KGGC 1420 San F'nscisco, Cal.	KLX 880 Oakland, Cal.
KFH 1300 Wichita, Kansas	KFWB 950 Hollywood, Cal.	KGGF 1010 Coffeyville, Kans.	KLZ 560 Denver, Colo.
KFI 640 Los Angeles, Cal.	KFWF 1200 St. Louis, Mo.	KGGM 1290 Alb'q'rque, N.M.	KMA 930 Shenandoah, Ia.
KFIO 1120 Spokane, Wash.	KFWI 930 San F'nscisco, Cal.	KGHI 1320 Pueblo, Colo.	KMAC 1370 San Antonio, Tex.
KFTU 1310 Juneau, Alaska	KFXD 1420 Nampa, Idaho	KGHJ 1200 Little Rock, Ark.	KMBC 950 Kan. City, Mo.
KFIZ 1420 Fond du Lac, Wis	KFXF 920 Denver, Colo.	KGHL 950 Billings, Mont.	KMCS 120 Inglewood, Cal.
KFJB 1200 Marshalltown, Ia.	KFXJ 1310 GrandJunc., Colo.	KGIB 1360 Butte, Mont.	KMED 1310 Medford, Ore.
KFJF 1480 Oklahoma City	KFXM 1210 San Ber'd'no, Cal.	KGIW 1420 Trinidad, Colo.	KMJ 1210 Fresno, Cal.
KFJI 1370 Astoria, Ore.	KFXR 1310 Oklahoma City	KGIZ 1420 Las Vegas, Nev.	KMLB 1200 Monroe, La.
KFJM 1370 Grd. Forks, N.D.	KFY 1420 Flagstaff, Ariz.	KGJF 1500 Grant City, Mo.	KMMJ 740 Klay Ctr., Nebr.
KFJR 1300 Portland, Ore.	KFYO 1420 Abilene, Texas	KGJG 890 Little Rock, Ark.	KMO 860 Tacoma, Wash.
KFJY 1310 Fort Dodge, Ia.	KFYR 550 Bismarck, N.D.	KGKB 1500 Brownwood, Tex.	KMOX 1090 St. Louis, Mo.
KFJZ 1370 Ft. Worth, Tex.	KGA 1470 Spokane, Wash.	KGKL 1370 San Angelo, Tex.	KMPK 710 Los Angeles, Cal.
KFKA 880 Greeley, Colo.	KGAR 1370 Tucson, Ariz.	KGKO 570 Wichita Fls., Tex	KMTR 570 Los Angeles, Cal.
KFKB 1050 Milford, Kansas	KGB 1330 San Diego, Cal.	KGKY 1420 Sand Point, Ida.	KNX 1050 Los Angeles, Cal.
KFKU 1220 Lawrence, Kans.	KGBU 900 Ketchikan, Al'ka.	KGKY 1500 Scottsbluff, Nebr.	KOA 830 Denver, Colo.
KFKX 1020 Chicago, Ill.	KG BX 1310 St. Joseph, Mo.	KGMB 1320 Honolulu, T. H.	KOAC 550 Corvallis, Ore.
KFLV 1410 Rockford, Ill.	KG BZ 930 York, Nebr.	KGMP 1210 Elk City, Okla.	KOB 1180 State Coll., N.M.
KFLX 1370 Galveston, Tex.	KGCA 1270 Decorah, Iowa	KGNF 1430 No. Platte, Neb.	KOCW 1400 Chickasha, Okla.
KFMX 1250 N'thfield, Minn.	KGCB 1210 Watertown, S.D.	KGNO 1210 Dodge City, Kans.	KOH 1380 Reno, Nevada
KFNF 890 Shenandoah, Ia.	KGCU 1200 Mandan, N.D.	KGO 790 San F'nscisco, Cal.	KOIL 1260 Council Bluffs, Ia.
KFOR 1210 Lincoln, Nebr.	KGCX 1310 Wolf P't, Mont.	KGRS 1410 Amarillo, Texas	KOIN 940 Portland, Ore.
KFOX 1250 Long Beach, Cal.	KGDA 1370 Mitchell, S. D.	KGU 940 Honolulu, Hawaii	KOL 1270 Seattle, Wash.
KFPL 1310 Dublin, Texas	KGDE 1200 Ferg's F'ls, Minn	KGVO 1420 Missoula, Mont.	KOMO 920 Seattle, Wash.

KONO 1370 San Antonio, Tex.	KTLC 1310 Houston, Texas	WAAM 1250 Newark, N. J.	WCAC 600 Storrs, Conn.
KOOS 1370 Marshfield, Ore.	KTM 780 Los Angeles, Cal.	WAAT 940 Jersey City, N. J.	WCAD 1220 Canton, N. Y.
KORE 1420 Eugene, Ore.	KTNT 1170 Muscatine, Iowa	WAAW 660 Omaha, Nebr.	WCAE 1220 Pittsburgh, Pa.
KOY 1390 Phoenix, Ariz.	KTRH 1120 Houston, Texas	WABC 860 New York City	WCAH 1430 Columbus, Ohio
KPCB 650 Seattle, Wash.	KTSA 1290 San Antonio, Tex.	WABI 1200 Bangor, Maine	WCAM 1280 Camden, N. J.
KPJM 1500 Prescott, Ariz.	KTSL 1310 Shreveport, La.	WABZ 1200 New Orleans, La.	WCAO 600 Baltimore, Md.
KPO 680 San Francisco, Cal.	KTSM 1310 El Paso, Texas	WACO 1240 Waco, Texas	WCAP 1280 Asbury Pk., N. J.
KPOF 880 Denver, Colo.	KTW 1270 Seattle, Wash.	WADC 1320 Akron, Ohio	WCAT 1200 Rapid City, S. D.
KPPC 1210 Pasadena, Cal.	KUJ 1370 Walla Wall, Wash.	WAIU 640 Columbus, Ohio	WCAU 1170 Philadelphia, Pa.
KPQ 1500 Wenatchee, Wash.	KUOA 1390 Fayetteville, Ark.	WALR 1210 Zanesville, Ohio	WCAX 1200 Burlington, Vt.
KPRC 920 Houston, Texas	KUSD 890 Vermillion, S. D.	WAPI 1140 Birmingham, Ala.	WCAZ 1070 Carthage, Ill.
KPSN 1360 Pasadena, Cal.	KUT 1500 Austin, Texas	WASH 1270 Gr. Rapids, Mich.	WCBA 1440 Allentown, Pa.
KQV 1380 Pittsburgh, Pa.	KVI 760 Tacoma, Wash.	WAWZ 1350 New York City	WCBD 1080 Zion, Ill.
KQW 1010 San Jose, Cal.	KVL 1370 Seattle, Wash.	WBAA 1400 Lafayette, Ind.	WCBM 1370 Baltimore, Md.
KRE 1370 Berkeley, Cal.	KVOA 1260 Tucson, Arizona	WBAK 1430 Harrisburg, Pa.	WCBS 1210 Springfield, Ill.
KREG 1500 Santa Ana, Cal.	KVOO 1140 Tulsa, Okla.	WBAL 1060 Baltimore, Md.	WCCO 810 Minneapolis, Minn.
KRGV 1260 Harlingen, Texas	KVOS 1200 Bellingham, Wash.	WBAP 800 Fort Worth, Tex.	WCDA 1350 New York City
KRLD 1040 Dallas, Texas	KWCR 1310 Cedar Rapids, Ia.	WBAX 1210 Wilkes-Barre, Pa.	WCFL 970 Chicago, Ill.
KRMD 1310 Shreveport, La.	KWEA 1210 Shreveport, La.	WBBC 1400 Brooklyn, N. Y.	WCGU 1400 Brooklyn, N. Y.
KROW 930 Oakland, Cal.	KWG 1200 Stockton, Cal.	WBBL 1210 Richmond, Va.	WCHI 1490 Chicago, Ill.
KRSC 1120 Seattle, Wash.	KWJJ 1060 Portland, Ore.	WBBM 770 Chicago, Ill.	WCKY 1490 Covington, Ky.
KSAC 580 Manh'tt'n, Kans.	KWK 1350 St. Louis, Mo.	WBRR 1300 Brooklyn, N. Y.	WCLB 1500 Long Beach, N.Y.
KSCJ 1330 Sioux City, Ia.	KWKC 1370 Kansas City, Mo.	WBBZ 1200 Ponca City, Okla.	WCLO 1200 Janesville, Wis.
KSD 550 St. Louis, Mo.	KWKH 850 Shreveport, La.	WBCM 1410 Bay City, Mich.	WCLS 1310 Joliet, Ill.
KSEI 900 Pocatello, Idaho	KWLC 1270 Decorah, Iowa	WBEN 900 Buffalo, N. Y.	WCMA 1400 Culver, Ind.
KSL 1130 Salt Lake City	KWSC 1220 Pullman, Wash.	WBEO 1310 Marquette, Mich.	WCOA 1340 Pensacola, Fla.
KSMR 1200 Santa Maria, Cal.	KWWG 1260 Brownsville, Tex.	WBGF 1370 Glens Falls, N. Y.	WCOE 880 Meridian, Miss.
KSO 1380 Clarinda, Iowa	KXA 570 Seattle, Wash.	WBIG 1440 Greensboro, N.C.	WCOD 1200 Harrisburg, Pa.
KSOO 1110 Sioux Falls, S.D.	KXL 1420 Portland, Ore.	WBIS 1230 Boston, Mass.	WCOH 1210 Yonkers, N. Y.
KSTP 1460 St. Paul, Minn.	KXO 1500 El Centro, Cal.	WBMS 1450 Hackensack, N.J.	WCOR 1210 Chicago, Ill.
KTAB 560 San Francisco, Cal.	KXRO 1310 Aberdeen, Wash.	WBNX 1350 New York City	WCSC 1360 Charleston, S. C.
KTAP 1420 San Antonio, Tex.	KXYZ 1420 Houston, Texas	WBOQ 860 New York City	WCSS 940 Portland, Maine
KTAR 620 Phoenix, Ariz.	KYA 1230 San Francisco, Cal.	WBOV 1310 Terre Haute, Ind.	WDAE 1220 Tampa, Fla.
KTAT 1240 Ft. Worth, Tex.	KYW 1020 Chicago, Ill.	WBRC 930 Birmingham, Ala.	WDAF 610 Kansas City, Mo.
KTBI 1300 Los Angeles, Cal.	KZM 1370 Hayward, Cal.	WBRE 1310 Wilkes-Barre, Pa.	WDAG 1410 Amarillo, Texas
KTBR 1300 Portland, Ore.	NAA 690 Arlington, Va.	WBSO 920 Needham, Mass.	WDAH 1310 El Paso, Texas
KTBS 1450 Shreveport, La.	TIC 750 San Jose, C. R.	WBT 1080 Charlotte, N. C.	WDAY 940 Fargo, N. D.
KTFI 1320 Twin Falls, Ida.	VAS 685 Glance Bay, N. S.	WBTM 1370 Danville, Va.	
KTHS 1040 Hot Spgs., Ark.	WAAF 920 Chicago, Ill.	WBZ-A 990 Springfield, Mass.	

WDBJ 930 Roanoke, Va.	WFDW 1420 Talladega, Ala.	WHDL 1420 TupperLake, N. Y.	WJBO 1420 New Orleans, La.
WDBO 1120 Orlando, Fla.	WFI 560 Philadelphia, Pa.	WHEC 1440 Rochester, N. Y.	WJBT 770 Chicago, Ill.
WDEL 1120 Wilmington, Del.	WFIW 940 Hopkinsville, Ky.	WHFC 1420 Cicero, Ill.	WJBU 1210 Lewisburg, Pa.
WDGY 1180 Minneapolis, Minn.	WFLA 620 Clearwater, Fla.	WHIS 1410 Bluefield, W. Va.	WJBW 1200 New Orleans, La.
WDIX 1500 Tupelo, Miss.	WFOX 1400 Brooklyn, N. Y.	WHK 1390 Cleveland, Ohio	WJBY 1210 Gadsden, Ala.
WDOO 1280 Chattanooga, Tenn.	WGAL 1310 Lancaster, Pa.	WHN 1010 New York City	WJDX 1270 Jackson, Miss.
WDRG 1330 Hartford, Conn.	WGAR 1450 Cleveland, Ohio	WHO 1000 Des Moines, Ia.	WJDD 1130 Mooseheart, Ill.
WDSU 1250 New Orleans, La.	WGBB 1210 Freeport, N. Y.	WHOM 1450 Jersey City, N. J.	WJKS 1360 Gary, Ind.
WDWF 1210 Providence, R. I.	WGBG 1430 Memphis, Tenn.	WHP 1430 Harrisburg, Pa.	WJR 750 Detroit, Mich.
WDZ 1070 Tuscola, Ill.	WGBF 630 Evansville, Ind.	WIAS 1420 Ottumwa, Iowa	WJSV 1460 Alexandria, Va.
WEAF 660 New York City	WGBI 880 Scranton, Pa.	WIBA 1280 Madison, Wis.	WJW 1210 Mansfield, Ohio
WEAI 1270 Ithaca, N. Y.	WGBS 1180 New York City	WIBG 930 Elkins Park, Pa.	WJZ 760 New York City
WEAN 780 Providence, R. I.	WGCM 1210 Gulfport, Miss.	WIBM 1370 Jackson, Mich.	WKAQ 890 San Juan, P. R.
WEAO 570 Columbus, Ohio	WGCP 1250 Newark, N. J.	WIBO 560 Chicago, Ill.	WKAR 1040 E. Lansing, Mich.
WEBC 1290 Superior, Wis.	WGES 1360 Chicago, Ill.	WIBR 1420 Steubenville, O.	WKAV 1310 Laconia, N. H.
WEBQ 1210 Harrisburg, Ill.	WGH 1310 Newsp't News, Va.	WIBU 1210 Poynette, Wis.	WKBB 1310 Joliet, Ill.
WEBR 1310 Buffalo, N. Y.	WGL 1370 Ft. Wayne, Ind.	WIBW 580 Topeka, Kansas	WKBC 1310 Birmingham, Ala.
WEDC 1210 Chicago, Ill.	WGN 720 Chicago, Ill.	WIBX 1200 Utica, N. Y.	WKBF 1400 Indianapolis, Ind.
WEDH 1420 Erie, Pa.	WGR 550 Buffalo, N. Y.	WICC 600 Bridgeport, Conn.	WKBH 1380 La Crosse, Wis.
WEEL 590 Boston, Mass.	WGST 890 Atlanta, Ga.	WIL 1200 St. Louis, Mo.	WKBI 1420 Chicago, Ill.
WEHC 1200 Emory, Va.	WGY 790 Scheneck'd'y, N. Y.	WILL 890 Urbana, Ill.	WKBN 570 Youngstown, O.
WEHS 1420 Cicero, Ill.	WHA 940 Madison, Wis.	WILM 1420 Wilmington, Del.	WKBO 1450 Jersey City, N. J.
WELK 1370 Philadelphia, Pa.	WHAD 1120 Milwaukee, Wis.	WIOD 1300 Miami, Fla.	WKBS 1310 Galesburg, Ill.
WELL 1420 Battle Creek, Mich.	WHAM 1150 Rochester, N. Y.	WIP 610 Philadelphia, Pa.	WKBV 1500 Connersville, Ind.
WENR 870 Chicago, Ill.	WHAP 1300 New York City	WIS 1010 Columbia, S. C.	WKBW 1480 Buffalo, N. Y.
WEPS 1200 Worcester, Mass.	WHAS 820 Louisville, Ky.	WISJ 780 Madison, Wis.	WKBZ 1500 Ludington, Mich.
WEVD 1300 New York City	WHAT 1310 Philadelphia, Pa.	WISN 1120 Milwaukee, Wis.	WKJC 1200 Lancaster, Pa.
WEW 760 St. Louis, Mo.	WHAZ 1300 Troy, N. Y.	WJAC 1310 Johnstown, Pa.	WKJK 1200 Cincinnati, O.
WEXL 1310 Royal Oak, Mich.	WHB 860 Kansas City, Mo.	WJAG 1060 Norfolk, Nebr.	WKY 900 Oklahoma City
WFAA 800 Dallas, Texas	WHBC 1200 Canton, Ohio	WJAK 1310 Marion, Ind.	WKZO 590 Be'n Spgs., Mich.
WFB 610 Philadelphia, Pa.	WHBD 1370 Mt. Orab, O.	WJAR 890 Providence, R. I.	WLAC 1470 Nashville, Tenn.
WFCB 1200 Knoxville, Tenn.	WHBF 1210 Rock Island, Ill.	WJAS 1290 Pittsburgh, Pa.	WLAP 1200 Louisville, Ky.
WFBE 1200 Cincinnati, Ohio	WHBL 1410 Sheboygan, Wis.	WJAX 900 Jacksonville, Fla.	WLB 1250 St. Paul, Minn.
WFBG 1310 Altoona, Pa.	WHBQ 1370 Memphis, Tenn.	WJAY 610 Cleveland, Ohio	WLBC 1310 Muncie, Ind.
WFBM 1230 Syracuse, N. Y.	WHBU 1210 Anderson, Ind.	WJAZ 1490 Chicago, Ill.	WLBK 1420 Kansas City, Ks.
WFBT 1270 Indianapolis, Ind.	WHBY 1200 Green Bay, Wis.	WJBC 1200 La Salle, Ill.	WLBG 1200 Ettrick, Va.
WFBW 1270 Baltimore, Md.	WHDF 1370 Calumet, Mich.	WJBI 1210 Red Bank, N. J.	WLBR 900 Stevens Pt., Wis.
WFD 1310 Flint, Mich.	WHDD 830 Boston, Mass.	WJBK 1370 Detroit, Mich.	WLBW 1260 Oil City, Pa.
WFDV 1370 Rome, Ga.	WHDI 1180 Minneapolis, Minn.	WJBL 1200 Decatur, Ill.	WLBX 1500 L.I. City, N. Y.

WLBZ 620	WNBR 1430	WQAM 560	WSJS 1310
Bangor, Me.	Memphis, Tenn.	Miami, Fla.	Winst.-Sal., N. C.
WLCI 1210	WNBW 1200	WQAN 880	WSM 650
Ithaca, N. Y.	Carbondale, Pa.	Scranton, Pa.	Nashville, Tenn.
WLEX 1410	WNBX 1200	WQAO 1010	WSMB 1320
Lexington, Mass.	Springfield, Vt.	New York City	New Orleans, La.
WLEY 1370	WNBZ 1290	WQBC 1360	WSMK 1380
Lexington, Mass.	Saranacl'ke, N.Y.	Vicksburg, Miss.	Dayton, Ohio
WLIT 560	WNJ 1450	WQDM 1370	WSOC 1210
Philadelphia, Pa.	Newark, N. J.	St. Albans, Vt.	Gastonia, N. C.
WLOE 1500	WNOX 560	WQDX 1210	WSPA 1420
Boston, Mass.	Knoxville, Tenn.	Thomasville, Ga.	Spartanburg, S.C.
WLS 870	WNYC 570	WRAF 1200	WSPD 1340
Chicago, Ill.	New York City	La Porte, Ind.	Toledo, Ohio
WLSI 1210	WOAI 1190	WRAK 1370	WSSH 1410
Providence, R. I.	San Antonio, Tex.	Williamsport, Pa.	Boston, Mass.
WLTH 1400	WOAX 1280	WRAW 1310	WSUI 880
Brooklyn, N. Y.	Trenton, N. J.	Reading, Pa.	Iowa City, Ia.
WLVA 1370	WOBT 1310	WRAX 1020	WSUN 620
Lynchburg, Va.	Union City, Tenn.	Philadelphia, Pa.	St. Petersburg, Fla.
WLW 700	WOBU 580	WRBI 1310	WSVS 1370
Cincinnati, Ohio	Charlest'n, W.Va.	Tifton, Ga.	Buffalo, N. Y.
WLWL 1100	WOC 1000	WRBJ 1370	WSYB 1500
New York City	Davenport, Iowa	Hattiesburg, Miss.	Rutland, Vt.
WMAC 570	WOCL 1210	WRBL 1200	WSYR 570
Syracuse, N. Y.	Jamestown, N. Y.	Columbus, Ga.	Syracuse, N. Y.
WMAK 1040	WODA 1250	WRBQ 1210	WTAD 1440
Buffalo, N. Y.	Paterson, N. J.	Greenville, Miss.	Quincy, Ill.
WMAL 630	WODX 1410	WRBT 1370	WTAG 580
Washington, D.C.	Mobile, Ala.	Wilmington, N.C.	Worcester, Mass.
WMAQ 670	WOI 640	WRBX 1410	WTAM 1070
Chicago, Ill.	Ames, Iowa	Roanoke, Va.	Cleveland, Ohio
WMAZ 890	WOKO 1440	WRC 950	WTAQ 1330
Macon, Ga.	Albany, N. Y.	Washington, D.C.	Eau Claire, Wis.
WMBA 1500	WOL 1310	WRDO 1370	WTAR 780
Newport, R. I.	Washington, D.C.	Augusta, Me.	Norfolk Va.
WMBC 1420	WOMT 1210	WRDW 1500	WTAW 1120
Detroit, Mich.	Manitowoc, Wis.	Augusta, Ga.	College Sta., Tex.
WMBD 1440	WOOD 1270	WREC 600	WTAX 1210
Peoria Hgts., Ill.	Gr. Rapids, Mich.	Memphis, Tenn.	Springfield, Ill.
WMBG 1210	WOPI 1500	WREN 1220	WTBO 1420
Richmond, Va.	Bristol, Tenn.	Lawrence, Kans.	Cumberland, Md.
WMBH 1420	WOQ 1300	WRHM 1250	WTEL 1310
Joplin, Mo.	Kansas City, Mo.	Minneap., Minn.	Philadelphia, Pa.
WMBI 1080	WOR 710	WRJN 1370	WTFI 1450
Chicago, Ill.	Newark, N. J.	Racine, Wis.	Toccoa, Ga.
WMBO 1310	WORC 1200	WRNY 1010	WTIC 1060
Auburn, N. Y.	Worcester, Mass.	New York City	Hartford, Conn.
WMBQ 1500	WOS 630	WROL 1310	WTMJ 620
Brooklyn, N. Y.	Jeff's'n City, Mo.	Knoxville, Tenn.	Milwaukee, Wis.
WMBR 1370	WOV 1130	WRR 1280	WTNT 1470
Tampa, Fla.	New York City	Dallas, Texas	Nashville, Tenn.
WMC 780	WOW 590	WRUF 830	WTOC 1260
Memphis, Tenn.	Omaha, Nebr.	Gainesville, Fla.	Savannah, Ga.
WMCA 570	WOWO 1160	WRVA 1110	WWAE 1200
New York City	Ft. Wayne, Ind.	Richmond, Va.	Hammond, Ind.
WMMN 890	WPAD 1420	WSAI 1330	WWJ 920
Fairmont, W. Va.	Paducah, Ky.	Cincinnati, Ohio	Detroit, Mich.
WMPC 1500	WPAP 1010	WSAJ 1310	WWL 850
Lapeer, Mich.	New York City	Grove City, Pa.	New Orleans, La.
WMRJ 1210	WPAP 1210	WSAN 1440	WWNC 570
Jamaica, N. Y.	Pawtucket, R. I.	Allentown, Pa.	Asheville, N. C.
WMSG 1350	WPCC 560	WSAR 1450	WWRL 1500
New York City	Chicago, Ill.	Fall River, Mass.	Woodside, N. Y.
WMT 600	WPCH 810	WSAZ 580	WWSW 1500
Waterloo, Iowa	New York City	Hunt'gton, W. Va.	Pittsburgh, Pa.
WNAC 1230	WPEN 1500	WSB 740	WWVA 1160
Boston, Mass.	Philadelphia, Pa.	Atlanta, Ga.	Wheeling, W. Va.
WNAD 1010	WPG 1100	WSBC 1210	WXYZ 1240
Norman, Okla.	Atl'ntic City, N.J.	Chicago, Ill.	Detroit, Mich.
WNAX 570	WPOE 1370	WSBT 1230	XEA 1000
Yankton, S. D.	Patchogue, N. Y.	South Bend, Ind.	Guad'l'jara, Mex.
WNB 1500	WFOR 780	WSEN 1210	XEB 1030
Bingh'mt'n, N.Y.	Norfolk, Va.	Columbus, Ohio	Mexico City
WNBH 1310	WFSC 1230	WSFA 1410	XEC 1000
New B'd'f'd, Mass.	State College, Pa.	Montgomery, Ala.	Toluca, Mex.
WNBO 1200	WPTF 680	WSIX 1210	XED 977
Washington, Pa.	Raleigh, N. C.	Springfield, Tenn.	Reynosa, Mex.



## Letters From Readers

*(Continued from page 26)*

the same wave as WEAJ and the call sounded like CE9CL of Winnipeg. Know that must be wrong because I never heard a call like that before. They were broadcasting late news and music. This was at 7 p.m. CST. Wonder if you could help me locate it." Earl R. Roberts, 4319 E. 30th Street, Indianapolis, Ind.

"I notice that many DXers have never logged stations of 1500 kcys. I have now logged nine stations on that channel; namely, WDIX, WKBZ, WLBX, WMBA, WMBJ, WMPC, WOPI, WPEN and WWRL. Nearly every morning between 5 and 6 a.m. CST. I can pick up either WDIX or WPEN. After 10 p.m. CST. I can usually bring in one or more of the others. There is nearly always some station broadcasting on that channel which can be brought in." H. L. Ball, 514 31st Street, South Bend, Ind.

"I am a very ardent DXer and have hooked 476 stations since I started DX-ing five months ago. Have hooked CKWX, Vancouver, B.C.; CMBY, Havana; WBGF, Glen Falls, N. Y.; KCRJ, Jerome, Ariz.; KDFN, Casper, Wyo.; KOB, State College, N. M.; XEH, Monterrey, Mexico; CFCY, Charlotte-town, P.E.I.; KGU, Honolulu; 8WMC, St. Johns, N. F.; VAS, Glace Bay; XEO, Mexico City, and XFE, Villahermosa, Mexico." George Spies, 1538 N. Edward Street, Decatur, Ill.

"I have logged 320 stations in two DX seasons. I haven't got any across the ocean, except Cuba. There I have five, three in Mexico and 10 on the west coast. KOY, Phoenix, Ariz., from which I have a verification, broadcasts till 1 a.m. MST. on Saturday nights and would like to hear from listeners. They reply promptly and issue a nice verification." Chas. Mella, 674 Park Avenue, W. New York, N. J.

"I have been keeping track of the number of stations I have received since October 1, 1930, and to date they number 288, including 15 stations in Canada, five in Cuba, three in Mexico, one in Porto Rico, and 29 on the west coast. I have heard from every state in the Union with the exception of Vermont,

Nevada and Wyoming. I use a Lincoln superheterodyne battery set." Norman H. Rohe, 11816 McCracken Road, Bedford, Ohio.

"My total verified log comprises 146 stations to date. Foreign stations I have sent letters to and have had no answer are: CMI, Havana; CMK, Havana; CFCN, Calgary; CKLC, Calgary; COMK, Mukden; 2YA, Wellington, N. Z.; XEJ, Juarez; 5CL, Adelaide; CJBC, Toronto. I have sent at least four letters each to KFKB in Milford, Kansas, and KGIQ in Twin Falls, Idaho. Have had no answer from either, although a stamped envelope was enclosed in each letter." C. R. Simpson, 162 W. Alvarado, Pomona, Calif.

"On January 3rd I received my new Silver-Marshall 9-tube super. It has eight tubes and to date I have received 202 stations on the broadcast range of 540 to 1500 kcys. I have stations in every band except 540 which is CKX, Brandon, Man. I am using a 160-foot aerial and the set is sure selective. WABC at New York, on 860 kcys., comes in without WLS or WENR at Chicago, on 870 kcys., interfering at all." Harold Rowe, Medaryville, Ind.

"I have received WKAQ in San Juan, Porto Rico, and VAS, Glace Bay, N. S. I have 43 states and most of the Canadian provinces logged. I have had my present set, an Atwater Kent, Model 55, for 15 months, and in this time I have logged over 300 stations, including 19 stations in California, six in Cuba, and three in Mexico." D. P. Scriven, Oakwood Farm, Titusville, Pa.

"Last Saturday, February 14th, I tuned in 106 stations in about five hours. Eleven were on the west coast, three Mexicans, three Cubans, a 50-watter in Sydney, N. S., 100-watter in Corpus Christi, Texas, and 100-watter in Laconia, N. H., four of the west coast stations use only 1000 watts and two only 500 watts. I am using a Brunswick Model 21, with an antenna 42 feet long." E. Palmer, 9130 112th Street, Richmond Hill, Long Island, N. Y.

"We have had for a month now a General Electric 9-tube super and it's a peach. I have received 149 stations so far



and expect to get lots more yet. I can't tune out our own station and get another anytime on one point. I would like to know if it is possible for anyone in Winnipeg to get Japan. Has it been done?" Dorothy Young, 168 College Street, Winnipeg, Man.

"We have a Radiola 80 super, and since November 1, 1930, we have logged 285 stations and all but a few are verified. Of these 24 are west coast stations, six are Cuban, five are Mexican, and 17 are Canadian. We have logged stations on all 96 channels, including CKX on 540 kcys. Of these 32 are 100-watters, seven are 50-watters and one 25-watter." Fred and Ernst Bagel, 3222 No. Newhall Street, Milwaukee, Wis.

"I have an 8-tube, Model 86, Philco and have received stations on all the wave lengths but four: 690, 680, 1360 and 1300. I would like very much to receive letters from other DXers." Don. H. Walthers, R.R. No. 2, Butler County, Shandon, Ohio.

"The other night I got 105 stations, XEW, XED, KFVD, KSL, KNX, KFI, KHU, KHQ, KGW, and plenty more." Milton Thomas, 3125 East Overlook Road, Cleveland Heights, Ohio.

"I use an Atwater Kent 60 and fifty feet of copper wire washed in silver and then reworked in gold, an iron pipe about seven feet in the ground filled with rock salt about once a month. I pick up Australia most any night and the Japanese stations also." J. W. Mehan, 446 Daisy Avenue, Long Beach, Calif.

"I am now operating a Philco baby grand. Have logged 158 stations since January 15th. This includes 18 stations in the Pacific coast, two in Cuba, ten in Mexico. My best catches are two 100-watters, WNBO, Washington, Pa., and KGFJ, Los Angeles; also KGB, a 250-watter in San Diego." J. R. Hollomon, Corrigan, Texas.

"I have had a Majestic, Model 131, radio for two months and to date have logged 201 stations on every frequency except 1030 kcys. I would like to state that there is a new Cuban station which you did not list in the February issue. This station is CMCS, Havana, operating on 890 kcys." Justin McGowan, 2117 Courtland Avenue, Memphis, Tenn.

"Just last Saturday night, from 4 p.m. to 4:45 a.m., I got a record that I don't believe I will ever touch again—163 stations; and from 4:30 p.m. till 12 midnight I had 109 stations, and of the total I had 24 stations in California, Oregon, and Washington alone, and one in Vancouver, B. C. I got these stations on a Philco set." A. G. Schleiter, Freedom, Pa.

"Have been keeping a log since November 1, 1930, and, using a Philco with headphones, have been lucky enough to bag 274 different stations, including 26 on the west coast, four in Mexico and four in Cuba. Only four states have not been heard from: Arizona, Vermont, Delaware and New Mexico. I would appreciate information on broadcasting schedules of stations in those states." Laurance Angel, Jr., Tarrytown Daily News, Tarrytown, N. Y.

"My log contains 284 stations. I have not yet received any from Montana, Arizona, Idaho, Vermont or New Hampshire. I have 14 stations from California, including KFVD, five from Washington and two from Oregon." Harry Irion, 75 Chestnut Street, Woodbury, N. J.

"I have received, in the past 120 days, 325 stations in 42 states and every channel, including 11 in Canada, five in Cuba, and 12 in Mexico. Where is KCAA? 1170 or 1180 kcys. It seems to be a police or air transport station." Lewis Wallis, 430 W. Coler Street, Neosho, Mo.

"I have been shooting for distance for years and have enjoyed every night of it. In my present location I am working under difficulties with a power-house two blocks away and high-tension wires in front of the house, but have managed to pull in 196 stations on my RCA 60 during the last year." Eugene Hollingsworth, 65 Lent Avenue, Hempstead, Long Island, N. Y.

**NEXT MONTH—A Completely Revised List of World Stations by Frequencies.**

# FAVORITE PROGRAMS

Time	Station	Dials	Feature	Time	Station	Dials	Feature
<b>DAILY</b>				<b>WEDNESDAY</b>			
<b>SUNDAY</b>				<b>THURSDAY</b>			
<b>MONDAY</b>				<b>FRIDAY</b>			
<b>TUESDAY</b>				<b>SATURDAY</b>			

# HOW TO TUNE A SET CORRECTLY

## Read This Page Carefully and You Can Set Your Dials Accurately for Any Station in America

ALL stations in America are listed in RADEX in three tables:

- 1st by Frequencies.
- 2nd by Call Letters.
- 3rd by States and Cities.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### INDEX BY FREQUENCIES AND DIAL NUMBERS

#### 590 kilocycles 508.2 meters

KFI	1000	Spokane, Wash.
WCAJ	530	Lincoln, Neb.
WJL	530	Omaha, Neb.
WOW	1000	Omaha, Neb.
WEMC	1000	Berlin Springs, Mich.

76	74
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Leola Warner, Inc.  
Nebraska Wesleyan University  
Wilson Elec. Illuminating Co.  
Woodward of the World  
Emmanuel Missionary College

#### 600 kilocycles 499.7 meters

CFCH	350	Troqueville Falls, Ont.
KFBI	800	Laramie, Wyo.
KFSD	800	San Diego, Calif.
WCAO	350	Baltimore, Md.
WERW	350	Baltimore, Md.
WJAN	800	Lawrenceburg, Tenn.
WHSC	800	Memphis, Tenn.
WTIC	800	Hartford, Conn.

75	73
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Arthur Power & Paper Co.  
Blair H. S. Thomas  
African Radio Corp.  
Monument Radio Co., Inc.  
Baird College  
Teachers School of Music  
WRFC, Inc.  
Travelers Insurance Co.

#### 610 kilocycles 491.5 meters

KRRC	1500	San Francisco, Calif.
WJAP	1500	San Francisco, Calif.
WJAN	1500	San Francisco, Calif.
WIP	500	Philadelphia, Pa.
WGO	1500	Kansas City, Mo.

74	72
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Don Lee, Inc.  
Kansas City Star Co.  
Rayburn Broadcasting Co., Inc.  
Clarendon Bros., Inc.  
Unity School of Christianity

#### 620 kilocycles 483.6 meters

KFAD	500	Phoenix, Ariz.
KFBI	1000	Burlington, Ont.
WDAR	1000	Tampa, Fla.
WHD	1000	Orlando, Fla.
WBLZ	500	Dover-Frostport, Ma.
WTMJ	1000	Bilwaukee, Wis.

73	71
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Electrical Equipment Co.  
Oregon Publishing Co.  
Tampa Publishing Co.  
Walters & Co.  
Thompson J. Guernsey  
Milwaukee Journal

#### 630 kilocycles 475.9 meters

CHT	300	Victoria, B.C.
CJBC	300	Victoria, B.C.
CHV	300	Victoria, B.C.
CVR	300	Victoria, B.C.
KRUI	300	San Francisco, Calif.
WGGP	500	San Francisco, Calif.
WJAL	300	Washington D. C.
WOS	500	Jefferson City, Mo.

72	70
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Vicor is Broadcasting Ass'n.  
Winnipeg Grain Exchange  
Canadian National Railway  
Cathart Lumber  
N. A. & S. E. Corp.  
Frankville on the Air, Inc.  
N. A. & S. E. Corp.  
State Marketing Bureau

#### 640 kilocycles 468.5 meters

KXII	500	Los Angeles, Calif.
KXII	500	Columbus, Ohio

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Earle C. Anthony, Inc.  
American Insurance Union

#### 650 kilocycles 461.3 meters

WSM	5000	Nashville, Tenn.
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70	68
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National Life & Accident Ins. Co.

#### 660 kilocycles 454.3 meters

WAAY	500	Omaha, Neb.
WEAF	50000	New York City

69	67
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Omaha Grain Exchange  
National Broadcasting Co., Inc.

#### 670 kilocycles 447.5 meters

WMAO	2000	Chicago, Ill.
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68	66
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Chicago Daily News, Inc.

#### 680 kilocycles 440.9 meters

KFO	500	San Francisco, Calif.
WPTF	5000	Raleigh, N. C.

67	65
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Male Bros. & The Chronicle  
Burlington Life Insurance Co.



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