

THE APRIL 1931

# RADIO IN DEX

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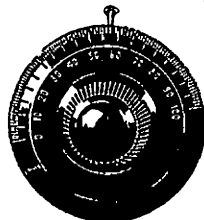
*Written for Grigsby-Grunow Company, manufacturers  
Majestic Radio, and Voice of the Air*

THE APRIL 1931

# RADIO IN DEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER  
Editor and Publisher



SEVENTH YEAR

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NUMBER 48

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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 "pallett" 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.

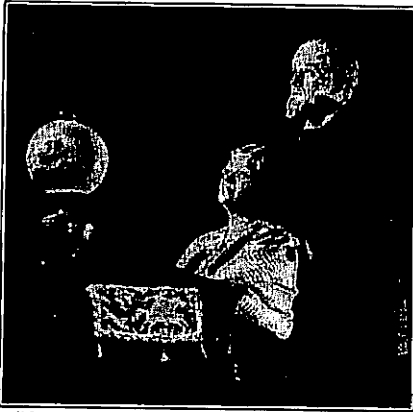
## Finding the Trouble

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 - WCBD - WOAI - CFCT - WAPI - KMBC - CNRR - WRC - CMHD - WOAI - WEAO - WEEI - KOOS - WOR - KLRA - CFAC - WOBU - 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  
TAHWAD  
KWCRRNCFACHWK  
Y M WSAIW H E  
WFIWOWOCFCKWX  
CRCKFBK  
K KGCA CMGA O  
WDSU CIT WEXL  
KIT E M WMC  
CKPC XEW YKCW

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.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 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 Radex, 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, 1018 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. WEA F 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 keys. 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 keys. 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 keys. 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 keys., and adds:

"TGW of Guatemala is given in U.S. Department of Commerce list as having 50 watts on 571 keys. TJJW, of Hamilton, Bermuda, using 12 watts on 1480 keys. 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 keys., 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 keys., a 10,000-watt station about 900 miles east and KNX on 1050 keys., 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 skills 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 keys. as my dial will reach, probably about 1600 keys. 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 688; 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	1833	
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; WDDO, Chattanooga; KLRA, Little Rock; WREC, Memphis; WLAC, Nashville; WTOG, 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 keys.—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 keys. 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, CFCE, 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. Edell, 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 kcys., 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.
KFKJ	1810	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

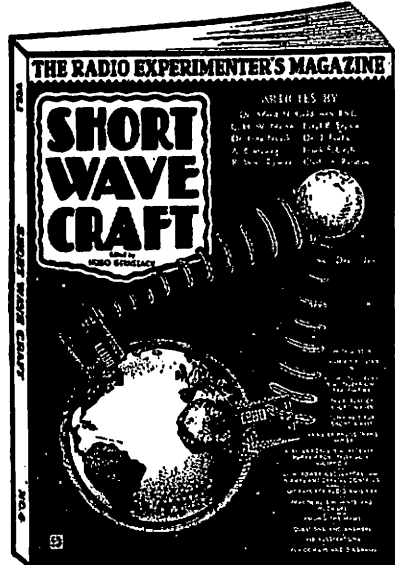
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**Photographic Section**—Pictures of latest short wave sets and stations. Transmitters for Short Waves—How to Build Them. Short Wave Receivers—Construction data for all types and kinds. The Short Wave Experimenter. Television on Short Waves. Short Waves for the Broadcast Listener. Ultra Short Waves. How to Build Short Wave Aerials. The Short Wave Beginner. Aircraft Short Wave Sets. Short Wave Question Box.

Published on the 15th of Every Other Month

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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.			
	Sun., 7-9 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
	Daily, 11-12 p.m., CST.			
California	Los Angeles	KMTR	570	500
	All night.			
	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.			
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.			
	Weekdays, 7-12 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 8)

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 kcys., 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 kcys. W2XR television station at Long Island City, N. Y., comes in at 1604 kcys., and has been announced by that station as 1604 kcys. 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 kcys. 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 kcys. You must have been mistaken because I have heard about 30 between 1500 and 550 kcys. 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 kcys. 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 kcys. 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 Sparton 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

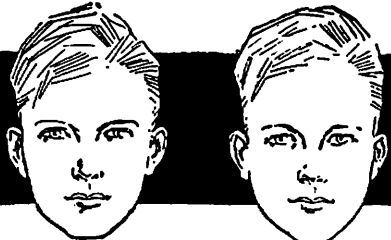
same wire in one straight line." Shearon Bonner, Jr., Woodacre, Calif.

"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

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## Simple Remedies

(Continued from page 9)

companied 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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| <input type="checkbox"/> One copy "Radio Trouble Shooting," by E. R. Haan .....                            | 3.00   |

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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 loudspeaker, 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 WEAJ'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 WEAJ 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 Brown-ing-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 KFXF 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 1250 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	KTHS 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 630 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
KPRC 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	WFBM 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 WSAI  
WRC WGY WCAE WTAM WWJ WFLA  
CKGW WRVA WPTF WJAX WIOD

8:15-8:30 Morning Devotions  
WEAF WRO 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  
WBEN WSM WJAX WPTF WTAG WOAI  
WRVA WRVA CKGW WIOD WHAS WFLA  
WSUN WTAM WMC WJDX WJAR WGY  
WOW WCAE WBIO

9:00-9:15 Something for Everyone  
WABC WHEC WFG WCAU WHP WJAS  
WDBJ WWNC WKYZ WBCM WODD WREC  
WLAC WBRC KSCJ WMT KMOX KMBC  
KOIL KFH KJFJ KTRH CFRB

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

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

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

12:00-12:30 Paul Tremaine and His Orchestra  
WABC WHEC WLBZ WORC WPG WCAU  
WHP WHAS WLBW WMAL WCAO WTAR  
WDBJ WHK WKRC WAIU WWNC WODD  
WREC WLAC WBRG KSCJ WMT KMBC  
WDAY KOIL WBW KJFJ KLZ

12:30-1:00 Columbia Revue  
WABC WLBZ WORC WPG WCAU WHP  
WJAS WLBW WMAL WCAO WTAR WKYZ  
WBCM WODD WREC WLAC WBRG KSCJ  
WMT KMBC WDAY WBW KJFJ KLZ

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

1:30-2:00 Hotel Orchestra  
WABC WHEC WLBZ WEAN WFG WFAN  
WJAS WLBW WMAL WCAO WTAR WDBJ

WKRC WAIU WWNC WKYZ WBCM WODD  
WLAC WBRG

2:30-3:00 American School of the Air  
WABC WFLB WKBW WEAN WNAC WCAU  
WJAS WLBW WMAL WCAO WTAR WDBJ  
WADC WHK WKRC WWNC WGST WKYZ  
WSPD WODD WREC WLAC WBRG WDSU  
WOWO WFBM WMAQ WCCO KMOX KMBC  
KOIL KJFJ KRLL K TSA KLZ KDYL  
KVI KOL KFPY KOIN KHJ KFRG

3:00-3:30 Columbia Salon Orchestra  
WABC WHEC WLBZ WEAN WNAC WORC  
WPG WHEC WLBW WMAL WCAO WTAR  
WDBJ WHK WKRC WAIU WWNC WKYZ  
WBCM WSPD WODD WREC WLAC WBRG  
KSCJ WMT KMBC WDAY KOIL WBW  
KJFJ KRLL KTRH KLZ CFRB

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

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

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

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

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

7:30-7:45 Phil Cook — Quaker Man  
WJZ WBZ WBZA WHAM KDKA WREN  
KWK WTMJ WIBC KOA KSL KGO  
KECA KGW WRC KOMO KHQ KFB  
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 WADO WHK WGST  
WKYZ WSPD WREC WBRG WDSU WFBM  
WGL WMAQ WCCO WMOX KMBC KOIL  
KJFJ WRR K TSA

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

11:15-11:30 Arthur Pryor's Creole Military Band  
WADC WKBW WKRC WHK WOLO KMBC  
WLBW KOIL WJAS KMOX WBRG WSPD  
WGST WBCM WBRG WODD WRR KLZ  
KOIN KOL KFPY WHP KTRH WFBM  
KLRA WCCO WISN WREC WCAH WLAC  
WDSU KJFJ KSCJ K TSA KDYL WBW  
WMT KFH WKBN WNAX KOH WTAQ  
WLAP WOKO WACO

#### Sunday

1:00-2:00 National Oratoric 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  
 WBEN KGO CFCF

1:30-2:00 Ballad Hour  
 WABC WHEC WGR WPG WFNAL WMAL  
 WTAR WWNC WXYZ WDOD 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 WTAR  
 WDBJ WKRC WWNC WXYZ WBCM WDOD  
 WREC WLAC WBRG WFBM WMAQ WBBM  
 KSCJ WMT KMBC WDAY KOIL WIBW  
 KFH KFJF KRLD KTRH KTSA 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 KV00  
 WFAA KPRC WOAI WKY KOA KSL  
 KPO KECA KGW KHQ KTRAR KFSB

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 KV00 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 WLBW WMAL WCAO  
 WTAR WDBJ WKRC WAIU WWNC WXYZ  
 WBCM WSPD WDOD WREC WLAC WBRG  
 WFBM WMAQ WCCO KSCJ WMT KMOX  
 KMBC WDAY KOIL WIBW KFH KFJF  
 KRLD KTRH KLZ KFRC

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 KV00 KPRC WEBC WDAF WWJ  
 WFLA WSUN KHQ WHO WOC KGO  
 KOMO WCAE WFJC WRC KGW WPTF  
 WMO WGY WSM KTHS WBAP WSB  
 WSMB WAPI WBEN WRVA WIOD

5:00-5:30 Rev. Donald Grey Barnhouse  
 WABC WFBL WGR WEAN WDRC WNAC  
 WCAU WJAS WMAL WADC WKRC WXYZ  
 WSPD WOV WMAQ KOIL KRLD WRR

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

5:00-6:00 National Vespers  
 WJZ WBAL WHAM KWK WREN WCKY  
 KSTP WEBC WIOD WMC KOMO WJDX  
 WPTF KV00 KPRC WFLA WSUN KOA  
 KTRAR KGO KGW KHQ WSM WKY  
 WSB WOAI WAPI WSMB WBZ WBZA  
 WGAR (KFAB on 5:15) (WIBO on 5:30)

5:30-6:00 Sweethearts of the Air  
 WABC WFBL WKBW WEAN WDRC WNAC  
 WFNAL WCAU WJAS WMAL WADC WKRC  
 WXYZ WSPD WOV 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 KTRAR WFJC WOC WHO  
 WDAF WJAX WFLA WSUN WHAS WMC  
 WSB WBAP KPRC WOAI WRVA KOA  
 KV00 WSAI WSM WFI WBO WLIT

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

7:00-7:30 Westinghouse Salute  
 WJZ WBZ WBZA WBAL WHAM KDKA  
 WGAR WJR WCKY KYW KWK WRBN  
 WJAX WIOD WHAS WMC WSM  
 WJDX KV00 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 KV00 WOAI WKY  
 KOA KSL KGO KFI KTRAR KFSB  
 KGW KOMO KHQ

8:00-8:15 Euna 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  
 WBB WPTF WRVA WFLA WSUN KFAB  
 KFSB KTRAR WJDX KPO KV00 KHQ

8:00-8:15 "Devils, Drugs and Doctors"  
 WABC WFBL WEBC WGR WEAN WDRC  
 WNAC WCAU WJAS WMAL WCAO WADC  
 WHK WKRC WGST WXYZ WSPD WREC  
 WLAC WBRG WDSU WISN WOV WFBM  
 WMAQ WCCO KSCJ KMOX KMBC KOIL  
 WIBW WRR KTRAR KLZ KDYL KYI  
 KOL KFPY KOIN KHJ KPRC

8:30-9:00 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 WTIC KV00 WBEN

8:15-8:30 Rhythm Choristers—Freddie Rich  
 WABC WHEC WEAN WNAC WCAU WJAS  
 WMAL WCAO WTAR WADC WHK WNBC  
 WSPD WDOD 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 WTAR WADC WHK WNBC WXYZ  
 WSPD WDOD 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 KV00 WLIT WBEN WJAR

9:00-9:30 Coty Playgirl—Irene Bardon  
 WABC WFBL WGR WEAN WDRC WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WXYZ WSPD WOV 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 WDRC WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WBT WGST WTCO WQAM WDBO  
 WDAE WXYZ WSPD WREC WDSU WOV  
 WBBM WCCO KMOX KMBC KOIL KFJF  
 KRLD KTRH KTSA KLZ KDYL KOL  
 KFPY KOIN KHJ KPRC

10:00-10:30 **Royal's Post of the Organ**  
 WABC WFBL WKBW WEAN WNAC WCAU  
 WJAS WLWB 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 **Boaswell Sisters**  
 WJZ WHAM WGAR KDKA KWK WREN  
 WTMJ WOAI WBZ WBZA

10:15-10:45 **National Dairy Productions**  
 WEAF WEEI WJAR WVIC WTAG WCSH  
 WFI WRC WGY WBEN WCAE WTAM  
 WWJ WSAI WOV WDAF WSB WAPI  
 WSBM WJDX WRVA WJAX WIOD WFLA  
 WBSN WHAS WSM WMC

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

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

11:00-12:00 **Back Home Hour**  
 WABC WHEC WLWB WPG WHP WMAL  
 WTR WDBJ WXYZ WBCM WSPD WDOD  
 WREC WLAC WFBM WCCO WMT WDAY  
 WNAX WIBW KFJ KFJF KRLD KTRH  
 KTSA

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

**Monday**

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

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

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

4:15-4:30 **U.S. Army Band**  
 WABC WLWB WEAN WNAC WORC WPG  
 WCAU WLWB WMAL WCAO WTR WDBJ  
 WAU WNNC WXYZ WBCM WSPD WDOD  
 WROC 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 WLWB WEAN WNAC WORC WPG  
 WFAN WHP WLWB WMAL WCAO WTR  
 WDBJ WKRC WAU WNNC WXYZ WBCM  
 WSPD WDOD WREC WLAC WBRV WCCO  
 KSCJ KMOX KMBC WDAY KOIL WIBW  
 KFJF KRLD KTRH KTSA KLZ KOL  
 KFRC CFRB

6:00-6:30 **Gordon Kibbler's Orchestra**  
 WABC WFBL WDRG WFAN WHP WLWB  
 WMAL WCAO WTR WDBJ WADC WKBN  
 WBT WXYZ WBCM WREC WLAC WBRV  
 WISN 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  
 KTRAR KPO WHAS WAPI KFSD WRC  
 WSMB

7:00-7:15 **Current Events—Kaltenborn**  
 WDBJ WKRC WNNC WXYZ WBCM WDOD  
 WBRV KSCJ WMT WDAY KOIL WABC  
 WHEC WLWB WORC WHP WJAS WLWB  
 WMAL WCAO WTR WIBW KFJF  
 KTRH KOL KFRC

7:15-7:30 **Tastyeast 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 WBO WGAR

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

8:15-8:30 **Pennzoil Pete**  
 WEAF WEEI WVIC WJAR WCSH WLIT  
 WRC WBEN WCAE WTAM WSAI KYW  
 KSD WOC WHO WHAS WSM WMC  
 WSB WDAF WEBC WRVA WPTP WFLA  
 WSUN WIOD WSMB WJDX WKY KTHS  
 WFAA WOAI CKGW WTMJ WWJ KSTP

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

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

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 WFBL WGR WEAN WDRG WNAC  
 WORC WPG WCAU WJAS WLWB WMAL  
 WCAO WTR WDBJ WADC WHK WERC  
 WAU WNNC WBT WGST WXYZ WBCM  
 WSPD WREC WLAC WBRV WDSU WTAQ  
 WOWO WFBM WMAQ WJDX WCCO KSCJ  
 WMT KMOX KMBC KOIL WIBW KFJF  
 KFJF WRR KTRH KLZ KDYL KOL  
 KFPY KOIN KHJ KFRC CFRB

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

9:00-9:30 **The Three Bakers**  
 WABC WFBL WHEC WKBW WLWB WEAN  
 WDRG WNAC WORC WPG WCAU WHP  
 WJAS WLWB WMAL WCAO WTR WDBJ  
 WADC WHK WKRC WNNC WBT WGST  
 WTOC WQAM WDBO WDAE WXYZ WBCM  
 WSPD WDOD WREC WLAC WBRV WDSU  
 WISN WOWO WFBM WMAQ WCCO KSCJ  
 WMT KMOX KMBC KLRA WDAY WNAX  
 KOIL WIBW KFJF KFJF WRR KTRH  
 KTSA KLZ KDYL KOL KFPY KOIN  
 KHJ KFRC

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

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

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

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

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



**WHAS** **WSM** **WMC** **WSB** **WSMB** **WOAI**  
**KOA** **KPRO** **KGO** **KFL** **WKCY** **KGW**  
**KHQ** **KOMO** **WJDX** **WFLA** **WSUN** **WJR**  
**KTAR** **KFSD** **WAPI** **WKY** **WGAR**  
**10:00-10:30** **Adventures of Sherlock Holmes**  
**WEAF** **WJAR** **WCSH** **WWJ** **WTAG** **WEEI**  
**WLIT** **WTAM** **WSAI** **WRC** **WGN** **WOC**  
**WHO** **WBEN** **WCAE**  
**10:30-11:00** **Empire Builders**  
**WJZ** **WBZ** **WHAM** **KDKA** **WJR**  
**WLW** **KYW** **KWK** **WREN** **WTMJ** **WOAI**  
**KSTP** **WEBC** **KOA** **KSL** **KGO** **KECA**  
**KGW** **KOMO** **KHQ** **KTAR** **KFSD** **WKY**  
**WBAP** **KPRO** **WGAR**  
**10:30-11:00** **Don Amazo**  
**WCAU** **WHP** **WJAS** **WLBW** **WADC** **WHK**  
**WKRC** **WCAH** **WKBN** **WSPD** **WISN** **WBBM**  
**WCCO** **KSCJ** **WMT** **WDAY** **WVNX** **KOIL**  
**KLZ** **KDYL** **KOL** **KFPY** **KOIN** **KHJ**  
**KFRK** **KNX**  
**10:30-11:00** **Symphonic Rhythm Makers**  
**WEAF** **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** **WDRC** **WNAC**  
**WORC** **WPG** **WCAU** **WLBW** **WCAO** **WTAR**  
**WDBJ** **WHK** **WKBN** **WBT** **WXYZ** **WBCM**  
**WSPD** **WREC** **WLAC** **WBRC** **WISN** **WFBM**  
**WCCO** **KSCJ** **KMOX** **KLRA** **WDAY** **KOIL**  
**WLBW** **KFH** **KFJF** **KTRH** **KLZ** **KOL**  
**KFPY** **CFRB**  
**11:00-11:30** **Florence Richardson and Orchestra**  
**WEAF** **WCAE** **WOW** (WSAI off 11:15) (WJDX  
**WMC** **WSB** **KSD** **WSM** on 11:15) **CFCF**  
**WIOD**  
**11:30-12:00** **Henry Busse and his Orchestra**  
**WEAF** **WWJ** **KSD** **WOC** **WHO** **WOW**  
**WDAF** **KSTP** **WEBC** **KOA** **WTAM**  
**12:00-1:00** **Phil Spitalny and His Orchestra**  
**WEAF** **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** **WHAM** **WLW** **WREN**  
**KPKK** **KDKA** **KWK** **CKGW** **KFAB** **WKY**  
**KVOO** **WOAI** **WBAP** **WGAR**  
**3:30-4:00** **Golden Gems**  
**WEAF** **WEEI** **WTIC** **WTAG** **WTAM** **WFJC**  
**KSD** **WFLA** **WSUN** **KSTP** **WOC** **WHO**  
**CKGW**  
**4:00-4:30** **Italian Idyll**  
**WABC** **WLBZ** **WEAN** **WNAC** **WORC** **WPG**  
**WCAU** **WLBW** **WMAL** **WCAO** **WTAR** **WDBJ**  
**WKRC** **WAIU** **WWNC** **WXYZ** **WSPD** **WDOD**  
**WREC** **WLAC** **WBRC** **WBBM** **WCCO** **KECJ**  
**WMT** **KMOX** **KMBC** **WDAY** **KOIL** **KFJF**  
**KTRH** **KTSA** **KLZ** **KFRK** **CFRB**  
**4:00-5:00** **Pacific Vagabonds**  
**WJZ** **WHAM** **WJR** **WGAR** **WLW** **WIS**  
**KWK** **KFAB** **WREN** **WRC** **WJAX** **WSM**  
**WMC** **WAPI** **WFAA** **KSTP** **KOA** **KGO**  
**KFSD** **KTAR**  
**5:00-5:15** **Rhythm Kings**  
**WABC** **WHBC** **WFAN** **WHP** **WLBW** **WMAL**  
**WCAO** **WTAR** **WAIU** **WWNC** **WXYZ** **WBBM**  
**WDOD** **WREC** **WLAC** **WBRC** **WOC** **KSCJ**  
**WMT** **KMBC** **WDAY** **KFJF** **KRLD** **KTRH**  
**KTSA** **KLZ**  
**6:30-6:45** **"Who's Behind the Name?"**  
**WEAF** **WFI** **WRC** **WCAE** **KOA** **KSD**  
**KECA** **WIBO** **KGO** **KOMO** **WOC** **WHO**  
**WSMB** **KGW** **KFSD** **WTAM** **WJDX** **KPRC**  
**7:00-7:15** **Political Situation in Washington**  
**WABC** **WGR** **WNAC** **WCAU** **WJAS** **WLBW**  
**WMAL** **WTAR** **WWNC** **WXYZ** **WSPD** **WDOD**  
**WTAQ** **KFH** **KRLD** **WACO** **KOH** **KFRK**  
**7:30-8:00** **Seconyland Sketches**  
**WEAF** **WEEI** **WJAR** **WTAG** **WCSH** **WGY**  
**WBEN**  
**7:45-8:00** **Billiken Pickards**  
**WOAI** **KSD** **WBAP** **WSB** **WSAI** **WOW**  
**KOA** **WDAF** **WOC** **WHO** **KSL** **WHAS**  
**WJDX** **KVOO** **KTBS** **WSM** **WMC** **WSMB**

**8:00-8:30** **Paul Whiteman's Paint Men**  
**WJZ** **WBZ** **WBZA** **WHAM** **KDKA** **WTMJ**  
**WJR** **WLW** **KYW** **KWK** **WREN** **WRVA**  
**WJAX** **KGW** **KOMO** **KHQ** **KFSD** **KTAR**  
**WGAR** **WGY** **KOA** **WIOD** **WHAS** **WSM**  
**WMC** **WSB** **WJDX** **WSMB** **WOAI** **KFAB**  
**KGO** **KECA** **WBAL** **WPTF**  
**8:00-8:30** **Blackstone Plantation**  
**WEAF** **WCAE** **WTAM** **WWJ** **WSAI** **WIBO**  
**KSD** **WOC** **WHO** **WOW** **KOA** **KFAB**  
**WEEI** **WJAR** **WTAG** **WCSH** **WFI** **WRC**  
**WGY** **WBEN**  
**8:15-8:30** **Old Gold Character Readings**  
**WABC** **WFBL** **WHBC** **WGR** **WLBZ** **WEAN**  
**WDRC** **WNAC** **WORC** **WPG** **WCAU** **WHP**  
**WJAS** **WLBW** **WCAO** **WTAR** **WDBJ** **WADC**  
**WKRC** **WAIU** **WKBN** **WWNC** **WBT** **WGST**  
**WTOC** **WQAM** **WDBO** **WDAE** **WXYZ** **WBCM**  
**WSPD** **WDOD** **WREC** **WLAC** **WBRC** **WDSU**  
**WISN** **WJID** **WCCO** **KSCJ** **WMT** **KMOX**  
**KMBC** **KLRA** **WDAY** **WVNX** **KOIL** **WIBW**  
**KFH** **KFJF** **WRR** **KTRH** **KTSA** **KLZ**  
**KDYL** **KVI** **KOL** **KFPY** **KOIN** **KHJ**  
**KFRK**  
**8:30-9:00** **Floresheim Frolie**  
**WEAF** **WTAG** **WFI** **WRC** **WGY** **WCAE**  
**WWJ** **WSAI** **WGN** **KSD** **WDAF** **WEBC**  
**WRVA** **KVOO** **WJAX** **WIOD** **WSUN** **WFLA**  
**WSM** **WMC** **WSB** **WSMB** **WJDX** **KPRC**  
**WOAI** **WKY** **KOA** **KSL** **KTBS** **WJAR**  
**WHAS** **WCSH** **WBAP** **WBEN** **KSTP**  
**8:45-9:00** **Lee Morse — Nat Brusiloff's Orchestra**  
**WABC** **WFBL** **WKBW** **WEAN** **WDRC** **WNAC**  
**WCAU** **WJAS** **WMAL** **WCAO** **WADC** **WHK**  
**WKRC** **WGST** **WTOC** **WQAM** **WDBO** **WDAE**  
**WXYZ** **WSPD** **WLAC** **WDSU** **WOWO** **WMAQ**  
**WCCO** **KMOX** **KMBC** **KOIL** **KTRH** **KLZ**  
**KDYL** **KVI** **KOL** **KFPY** **KOIN** **KHJ**  
**KFRK**  
**9:00-9:30** **Household Celebrities Program**  
**WJZ** **WBZ** **WBZA** **WBAL** **WHAM** **KDKA**  
**WGN** **KWK** **WREN** **WJR**  
**9:00-9:30** **McKeason Musical Magazine**  
**WEAF** **WEEI** **WJAR** **WTAG** **WCSH** **WFI**  
**WRC** **WBEN** **WTAM** **WSAI** **KSD** **WOW**  
**WTMJ** **WEBC** **WRVA** **WIOD** **WFLA** **WSUN**  
**WSM** **WMC** **WSB** **WSMB** **WJDX** **KPRC**  
**WKY** **KOA** **KSL** **KGO** **KECA** **KTAR**  
**KFSD** **KGW** **KOMO** **KHQ** **KVOO** **WOAI**  
**KYW**  
**9:00-9:30** **Henry-George**  
**WABC** **WFBL** **WGR** **WEAN** **WDRC** **WNAC**  
**WCAU** **WJAS** **WMAL** **WCAO** **WADC** **WHK**  
**WKRC** **WXYZ** **WSPD** **WISN** **WOWO** **WFBM**  
**WBBM** **WCCO** **KMOX** **KMBC** **KOIL** **KFH**  
**9:30-10:00** **The Philco Symphony Concert**  
**WABC** **WFBL** **WHBC** **WKBW** **WEAN** **WDRC**  
**WNAC** **WCAU** **WJAS** **WMAL** **WCAO** **WTAR**  
**WADC** **WHK** **WKRC** **WGST** **WXYZ** **WSPD**  
**WDOD** **WREC** **WLAC** **WBRC** **WDSU** **WISN**  
**WOWO** **WFBM** **WMAQ** **WMT** **KMOX**  
**KMBC** **KOIL** **KFH** **KFJF** **KRLD** **KTRH**  
**KTSA** **CFRB**  
**9:30-10:00** **Death Valley Days**  
**WJZ** **WBAL** **WKCY** **KWK** **WBZ** **WBZA**  
**WHAM** **KDKA** **WENR**  
**9:30-10:00** **Happy Wonder Bakers**  
**WEAF** **WJAR** **WEEI** **WTAG** **WCSH** **WRC**  
**WGY** **WCAE** **WTAM** **WWJ** **WSAI** **WIBO**  
**KSD** **WHO** **WOW** **WTMJ** **KSTP** **WEBC**  
**KVOO** **WKY** **KOA** **KSL** **KGO** **KOMO**  
**KECA** **KGW** **KHQ** **WBAP** **WOC** **WRVA**  
**WFI** **WDAF** **WBEN** **KPRC**  
**10:00-10:15** **Graybar — Mr. and Mrs.**  
**WADC** **WCAO** **WNAC** **WKBW** **WBBM** **WKRC**  
**WHK** **WXYZ** **WOWO** **KMBC** **WABC** **WLBW**  
**KOIL** **WCAU** **WJAS** **WEAN** **KMOX** **WFBL**  
**WSPD** **WMAL** **WWNC** **WGST** **WBRC** **KRLD**  
**KLZ** **KTRH** **WFBM** **WLRA** **WCCO** **WISN**  
**WREC** **WTAR** **WLAC** **WDSU** **KFJF** **WHBC**  
**WDBJ** **KTSA** **KDYL** **KFH** **WKBN** **KHJ**  
**KOIN** **KFRK** **KOL** **KFPY**

10:00-11:00 Lucky Strike Dance Orchestra  
 WEAJ WREI WJAR WTAG WSHI WSHI WFI  
 WRC WCAE WWJ WBAI KSD WOC  
 WHO WTMJ WBEBC WRVA WJAX WIOD  
 WFLA W8UN WHAS W8M WMO W8B  
 W8MB WJDX WOAI WKY KOA KGO  
 KECA KGW KHQ KOMO KTR AR KFSB  
 W8BO WDAF WTAM WAPI W8EN

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 W8RC  
 WDSU W8WO WMAQ WCCO KMBC KLRA  
 KOIL KFH KRLD KTRSA KLZ

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

10:30-11:00 Paramount Public Playhouses  
 WABC WFBL W8RC WKBW WLBZ WEAN  
 WDRG WNAC WPG WCAU WHP WJAS  
 WMAL WCAO WTAR WDBJ WADC WHK  
 WKRC W8BN W8NE WBT W8ST WTCC  
 WQAM W8BO WDAB WXYZ W8CM W8PD  
 W8OD W8RC WLAC W8RC W8DU W8SN  
 W8WO W8FBM W8BM WCCO K8CJ WMT  
 KMOX KLRA WDAY WNAJ KOIL W8W  
 KFH KFJF KRLD KTRH KTRSA KLZ  
 KDYL KOL KFPY KOIN KHJ KFRC  
 KNX CFRB

11:00-11:15 Paul Tremaine and His Orchestra  
 WABC W8EC WLBZ WEAN WNAC WORC  
 WCAU WHP WLBW WCAO WTAR W8BJ  
 WWNC WXYZ W8PD W8OD W8RC WLAC  
 W8FM WCCO WMT KMOX KMBC WDAY  
 WNAJ KOIL W8W KFH KFJF KTRH  
 KLZ KOL CFRB

11:15-12:00 Vincent Lopez and His Orchestra  
 WEAJ WFI KOA WRC K8TP WOC  
 WHO W8W WJDX K8D WTAM WDAF  
 W8EN

7:45-8:00 Smith Brother's Orchestra  
 WJZ WGAR KDKA WJR W8BO KWK  
 WREN KFAB WLW

7:45-8:00 "Back in the News in Washington"  
 WEAJ WRC KOA KECA KGO WGY  
 WCAE W8JC W8EN WRVA WKY KOMO  
 KFSB W8AI W8D K8D WOC WHO  
 W8W WDAF WAPI

7:45-8:00 Daddy and Rollo  
 WABC WFBL WKBW WEAN WNAC WCAU  
 W8B W8LW W8M WLAC WADC WKRC  
 WXYZ W8PD W8RC W8EN W8FM WGL  
 WMAQ WCCO KMBC W8D W8RM

8:00-8:15 Listerine Program—Bobby Jones  
 WEAJ W8EI WTIC WJAR WTAG W8SH  
 WLIT WRC W8EN WTAM W8J W8AI  
 K8D WOC WHO W8W W8TF W8D  
 WFLA W8UN WHAS W8M W8B W8MB  
 WJDX WFAA WOAI KOA

8:15-8:30 Radiotron Varieties  
 WEAJ WTIC WJAR WTAG WRC W8EN  
 WTAM W8AI W8D K8D W8W W8D  
 W8M W8B W8MB WJDX WOAI KOA  
 KHQ KOMO KFSB KTR AR KECA K8L  
 KGO KOA KVOO

8:30-9:00 Mobiloil Concert  
 WEAJ W8EI WJAR WTAG W8SH WLIT  
 WRC W8AI K8D W8W WTAM KOA  
 KVOO WFAA WOAI WKY K8RC WTIC  
 KLW WGY W8N W8EC WDAF WCAE  
 WHO WOC W8J W8EN

8:30-9:00 The Sunkist Musical Cocktail  
 WABC WFBL WGR WEAN WDRG WNAC  
 W8AN WCAU WJAS WMAL WADC WADC  
 WHK WKRC WXYZ W8PD W8WO WJDX  
 KMOX KMBC KOIL KLZ KDYL KOL  
 KFPY KOIN KHJ KFRC

8:30-9:00 Canadian Pacific Musical Crusaders  
 WJZ WGAR WBZ W8A 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 W8BJ  
 WADC WHK WKRC WCAH WXYZ W8PD  
 W8AP W8RC WLAC W8N W8WO W8FM  
 WMAQ WCCO K8CJ KMBC KOIL  
 KFH KFJF KRLD KLZ KDYL KOL  
 KFPY KOIN KHJ KFRC KMJ

9:00-9:30 Halsey, Stuart Program  
 WEAJ W8EI WJAR WTAG W8SH WLIT  
 WRC WGY WCAE CKGW WRVA WJAX  
 KOA K8L KGO KGW KOMO KHQ  
 W8AI K8D WOC WHO W8W W8J  
 W8MB KVOO K8RC WOAI K8TP W8MJ  
 KYW W8AS W8M W8N W8B W8B  
 W8EN WTAM

9:30-10:30 Palmolive Hour  
 WEAJ W8EI WTIC WJAR WTAG W8SH  
 WLIT WRC WGY WCAE W8AI WGN  
 K8D WOC W8W W8MB W8MJ K8TP  
 WHAS W8M W8C WDAF WHO W8B  
 WJAX WOAI KOA K8L KGO KGW  
 KOMO KHQ WFAA K8RC W8J WTAM  
 KFI W8EN (KVOO of 10:00)

9:30-10:00 Camel Pleasure Hour  
 WJZ WBZ W8A WHAM KDKA WREN  
 WLW KYW W8S WRVA WJR KWK  
 W8OD WJAX WFLA W8UN

9:30-10:00 Savino Tone Pictures  
 WABC WKBW WNAC WPG W8AN WJAS  
 W8LW WMAL WTAR W8N WXYZ W8OD  
 WLAC W8DU W8N W8AQ WCCO KMOX  
 KMBC KFH WACO KLZ KFRC CFRB

10:00-10:15 Vitality Personalities  
 WABC WADC WJAS WNAC WKBW W8BM  
 WKRC W8T WXYZ W8WO KMBC KOIL  
 WCAU WEAN KMOX W8L W8PD WMAL  
 WDRG W8T W8RC W8R KTRH W8FM  
 KLRA W8N WCAH WLAC W8DU W8JF  
 KTRSA KDYL KHJ KOIN KFRC KOL  
 KFPY

**Wednesday**

2:45-3:00 Sisters of the Skillet  
 WJZ WBAL WHAM KDKA KWK WGAR  
 WREN KFAB CKGW K8TP WFLA W8UN  
 WMC W8B KOA KGO KECA WJR  
 WGN CFCF WRVA W8TF WJAX WIOD  
 W8M WPAI WJDX K8RC

3:00-3:15 Edna Wallace Hopper  
 WJZ WBZ W8A WBAL WHAM KDKA  
 WGAR WLW WGN KWK WREN WTMJ  
 WJDX KOA K8TP W8C WRVA W8TF  
 WJAX WIOD WFLA W8UN WHAS W8M  
 WMC W8B W8MB K8L KGO KECA  
 KGW KOMO KHQ KFAB WAPI KFSB

3:30-4:00 Evening Stars  
 WJZ WHAM WGAR KWK WREN WJAX  
 WLW W8BO CKGW W8C K8TP W8TF  
 WIOD WFLA W8UN W8M WMC W8B  
 WAPI K8RC WOAI WKY KOA K8L  
 KTRH W8AP WJDX W8MB WHAS WBAL  
 WRVA W8Z W8A WJR KYW KDKA  
 WJAX

4:00-5:00 U.S. Navy Band  
 WABC WGR WEAN WNAC WPG WCAU  
 WLBW WMAL WCAO WTAR WADC W8N  
 WXYZ W8PD W8OD WLAC W8DU W8N  
 WTAQ W8BM WCCO KMOX KMBC KRLD  
 WACO KLZ KOH KFRC CFRB

7:00-7:30 Morton Downey — With Freddie Rich  
 WABC W8EC WLBZ WEAN WNAC WORC  
 WCAU WHP WJAS WLBW WMAL WCAO  
 WTAR W8BJ WKRC W8U WWNC WXYZ  
 W8CM W8OD WLAC W8RC K8CJ WDAY  
 W8W KFJF KTRH KOL KFRC

7:30-7:45 Evangeline Adams, Astrologer  
 WABC WFBL W8EC WGR WEAN WDRG  
 WNAC WCAU WCAO W8BJ WTAR WADC  
 WHK WKRC W8U W8N W8T WXYZ  
 W8PD W8OD W8RC W8L W8DU W8B  
 W8N W8FM W8L WCCO KMOX KMBC  
 KLRA KOIL KFJF W8R KTRH CFRB

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

10:30-11:00 Columbia Concerts Programs  
 WABC WHEC WLBZ WBAN WNAC WORC  
 WPG WJAS WLBW WMAL WCAO WTAR  
 WDBJ WWNC WXYZ WBCM WSPD WODD  
 WFBM WMAQ WCCO KRCJ WMT KMOX  
 KMBC WDAY WNAJ WLBW KFJF KTRH  
 KTSA KLZ KOL CFRB

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

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 WODD  
 WRRC WFBM WCCO KRCJ WMT KMOX  
 KMBC WDAY WNAJ KOIL WLBW KFJF  
 KFJF KTRH KLZ KOL CFRB

11:15-12:00 Vincent Lopez and his Orchestra  
 WEAJ 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  
 WODD WLAC WDSU WISN WTAQ WCCO  
 KMBC KFH WACO KLZ CFRB

## Thursday

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

11:30-11:45 Odeon-Cutez Program  
 WJZ WHAM KDKA KWK WREN WLW  
 WIBO KPRC WKY WOAI 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 WSBM

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

7:00-7:30 Mid-Week Federation Hymn Sing  
 WEAJ WMC WIBO WWJ WHAS WOC  
 WHO KOA WBEH

7:30-7:45 St. Moritz Orchestra  
 WEAN WDRC WHP WJAS WLBW WMAL  
 WDBJ WKBN WBT WXYZ WREC WBCM  
 WLAC WBRG WISN WFBM WGL KSCJ  
 KMOX WDAY WNAJ KOIL KFJF KTRH  
 KVI KFPY KFCR

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

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

8:00-9:00 Fleischmann Hour — Rudy Vallee  
 WEAJ WEEI WTIC WJAR WTAR WLBW  
 WJAR WCSH WFI WRC WGY WCAE  
 WHO WOV WDAF WWJ WHAS KTRAR  
 WMC WSB WSBM WREC KOA WRVA

KSL KOMO WOAI WSM WOC WAPI  
 KGO KHQ KECA KSD CKGW WTAM  
 KGW KSTP WGN KPRC WBEH (WTMJ  
 KTHS WSAI WBAW WKY of 8:30)

8:30-8:45 Kallenborn Edits the News  
 WABC WFBL WGR WEAN WDRC WNAC  
 WORC WCAU WJAS WMAL WCAO WADC  
 WHK WKRC WXYZ WSPD WODO 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 WODO WJJD KMOX  
 KMBC KOIL

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

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

9:00-9:30 Arco Birthday Party  
 WEAJ WEEI WJAR WTAG WCSH WFI  
 CKGW WRC WGY WSB WSM WIOD  
 WJAX WOAI KOA KSL WKY WBAW  
 WRVA WSTP WWJ WSL KSD WDAF  
 KYW WCAE WEBC WOV WSBM WJDX  
 WOC WFJC WTMJ WMC WHO KGO  
 KECA KOMO KHQ KGW WAPI WTAM  
 WBEH

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 WODD WREC WLAC WBRC  
 WDSU WISN WOVO WFBM WBBM WCCO  
 KSCJ WMT KMOX KMBC KLRA WDAY  
 WNAJ KOIL WLBW KFH KFJF KRLD  
 KTSA KLZ KDYL KVI KOL KTFY  
 KOIN KHJ KFRC

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

9:30-10:00 Detective Story Magazine  
 WABC WFBL WKBW WEAN WDRC WNAC  
 WCAU WJAS WMAL WCAO WADC WHK  
 WKRC WXYZ WSPD WODO 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 WBAW KYW  
 KWK WREN WIOD WJR WSBM WOAI  
 KECA KGW KOMO KHQ WAPT WMC  
 WHAM KDKA KSL KGO

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

10:00-11:00 Lucky Strike Dance Orchestra  
 WEAJ WEEI WJAR WTAG WCSH WFI  
 WRC WGY WCAE WWJ WBAI WBEH  
 KSD WOV WKY WOAI KOA KSL  
 WTMJ WIOD WHAS WSM WMC WSBM  
 KYW KVOO WDAF WJAX KPRC WEBC  
 WRVA WFLA WSUN WSB WFAA KFSD  
 KTRAR (PGA KGW KFI KOMO KHQ  
 of 10:30) (WOC WHO KTHS on 10:30)

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

WISN KOIL KLZ	WOWO WBWB CFRB	KSCJ KFJF	KMOX KRLD	WDAY KTRH	WNAX KTSA	WHAS WSB KECA WJR	KYW WAPI KGW WGAR	WEBC WOAI KOMO	WCKY KOA KHQ	WSM KSL KFSD	WBVA KGO KTAR
11:00-11:15	Ben Bernie and His Orchestra										
WABC	WHBC	WLBZ	WEAN	WNAC	WORC	WCAU	WHP	WLBW	WMAL	WCAO	WTAR
WDBJ	WWNC	WXYZ	WBCM	WSPD	WDOD	WRRC	WLAC	WBRC	WFWM	WCCO	WMT
KMOX	KMBC	WDAY	WNAX	KOIL	WBWB	KFH	KFJF	KTRH	KTSA	KLZ	KOL
CFRB											
11:15-12:00	Cab Calloway and his Orchestra										
WEAF	WWJ	WOW	WFI	KSTP	WJDX	WDFA	WTAM	WOC	WHO	WIBO	WGY
WCAE											
11:30-12:00	Radio Roundup										
WABC	WKBW	WEAN	WNAC	WPG	WCAU	WLBW	WMAL	WCAO	WTAR	WADC	WWNC
WXYZ	WSPD	WDOD	WLAC	WDSU	WISN	WTAQ	WCCO	KMBC	KFH	WACO	KLZ
CFRB											

## Friday

4:00-5:00	Dancing Melodies										
WEAF	WTAG	WCAE	WFJC	WTAM	WWJ	WOC	WHO	WOW	WDAF	WBEN	
4:45-5:00	Rhythm Ramblers										
WABC	WGR	WEAN	WNAC	WPG	WLBW	WMAL	WTAR	WADU	WWNC	WXYZ	WSPD
WDOD	WLAC	WDBU	WISN	WTAQ	WCCO	KMOX	KMBC	KRLD	WACO	KLZ	KOH
KFCR	CFRB										
5:00-5:45	Light Opera Gams										
WABC	WKBW	WGR	WDRRC	WHP	WJAS	WLBW	WCAO	WTAR	WAIU	WKBN	WBT
WXYZ	WBCM	WSPD	WREC	WLAC	WBRC	WISN	WGL	WCCO	KSCJ	KMOX	WDAY
KOIL	KFH	KFJF	KRLD	KTRH	KTSA	KLZ	CFRB				
6:00-6:45	Winogr's Barn Orchestra										
WABC	WGR	WFAN	WJAS	WLBW	WCAO	WTAR	WADC	WWNC	WDOD	WLAC	WDSU
WISN	WTAQ	WBBM	KFH	KRLD	KLZ	KOH	CFRC				
7:00-8:00	Major Bowes' Family										
WEAF	WJAR	WCSH	WLIT	WBEN	WCAE	WJW	WENR	WOC	WHO	KSTP	WHAS
WMC	WSB	WSMB	KOA	KSG	KECA	KGW	KOMO	KTAR			
7:45-8:00	Brownbill Poollites										
WJZ	WBZ	WBZA	WREN	KWK	KFAB	WTMJ	WEBC	WBVA	WTFE	WJAX	WIOD
WFLA	WBSN	WLAS	WSM	WAPI	WSMB	WJDX	WOAI	WIBO	KOA	KSL	KDKA
WSB	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										
WEAF	WEEL	WTIC	WLIT	WRC	WCAE	WJAR	WCSH	WOW	KYW	KSD	WDAF
KSTP	WTMJ	WCV	WOC	KOA	WDFC	WOAI	KOMO	KGO	KGW	KHQ	KSL
WTAG	CKGW	KBCA	WHO	WSAI	WTAM	WBEN	WFJ	(WFAX	KPRC	off 8:30)	
8:30-9:00	The Dutch Masters										
WABC	WFBL	WGR	WEAN	WDRRC	WNAC	WCAU	WJAS	WMAL	WCAO	WADC	WKRRC
WXYZ	WSPD	WBBM	WCCO	KMOX	KMBC	KOIL					
8:45-9:00	Natural Bridge Revue										
WJZ	WHAM	KDKA	KWK	WREN	WJAX	WIOD	WIBO	WBZ	WBZA	WFLA	WBSN
WBVA	WJR										
9:00-9:30	Clicquet Club Eskimos										
WEAF	WEEL	WTIC	WJAR	WTAG	WCSH	WLIT	WRC	WOW	WCAE	WSAI	WIBO
KSD	WWJ	WDAF	WOC	WHO	WGY	WREN					
9:00-9:30	Interwoven Pair										
WJZ	WHAM	WMC	KDKA	WJAX	WKY	WREN	KPRC	KWK	WBZ	WBZA	KGW
WSMB	WIOD	WFAA	WJR	WTMJ	KSTP						

## Saturday

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

**4:30-5:00 Spanish Serenade**  
 WABC WLBZ WEAN WNAC WORC WFAN  
 WHP WMAL WCAO WTAR WDBJ WKRC  
 WAIU WWNO WXYZ WBCM WSPD WDOO  
 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 Sportsants**  
 WABC WFBL WFAN WHP WLBW WTAR  
 WDBJ WADC WHK WAIU WBT WBCM  
 WREC WLAC WBRC WISN WOVOW 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 WLBZ 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  
 WWNC WXYZ WBCM WDOO WBRC WFBM  
 KSCJ WMT WDAY KOIL WIBW KFH  
 KFJF KOL KFRC CFRB

**7:15-7:30 Laws That Safeguard Society**  
 WEAJ WJAR WTAG WCSH WFI WGY  
 WBN WJW WOC WHO WOV WEBC  
 WOA1 KOA KGO KECA KOMO KHQ  
 KTAR WJDX WEEI

**7:15-7:30 Armand Vescey and his Orchestra**  
 WHEC WGR WEAN WNAC WJAS WLBW  
 WMAL WCAO WTAR WADC WHK WWNC  
 WSPD WDOO WDSU WTAQ KFH KRLL  
 WACO KOH KFRC

**7:30-7:45 Snoop and Peep**  
 WEAJ WJAR WTAG WBN WSAI WOC  
 WHO WOV WTMJ KSTP WEBC WIOD  
 WFLA WSUN KGO CFCF

**7:30-7:45 Rose of the Goldbergs**  
 WJZ WEAM WKW WREN WIBO WSB  
 WJDX WSMB WAPI WGAR

**7:45-8:00 "The Highroad of Adventure"**  
 WEAJ WTAG WBN 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 WEAM WBS  
 WBZA WOA1 KSTP KPRC WKY CKGW  
 WGAR

**8:00-8:15 Webster Program — Weber and Fields**  
 WEAJ WEEI WJAR WTAG WCSH WFI  
 WRC WGY WBN WCAE WTAM WWJ  
 WSAI WIBO KSD WOC WHO WOV  
 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 WOVOW  
 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**  
 WEAJ WEEI WJAR WTAG WCSH WRC  
 WGY WBN WCAE WTAM WWJ WSAI  
 WIBO KSD WOC WHO WOV WDAF  
 WTMJ WRVA WJAX WIOD WFLA WSUN  
 WSM WMC WSB WSMB WJDX KPRC  
 WOA1 WKY KOA KSL KGO KGW  
 KOMO KHQ KTAR KFSD

**8:30-9:00 The Silver Flute**  
 WEAJ WEEI WTAG WCSH WRC WFI  
 WGY WCAE WWJ WSAI KSD WDAF  
 WIOD

**8:30-9:00 Fuller Man**  
 WJZ WBZ WBZA WBAL WHAM KDKA  
 WJR KWK WREN KOA CKGW WHAS  
 KPRC KGO KECA KGW KOMO KFAB  
 KHQ WIBO WKY WTMJ WMC WEBC  
 WSB WAPI WMBM WLW WJDX KSTP

**8:45-9:00 The Early Bookworm**  
 WABC WKBW WEAN WJAS WNAC WORC  
 WPG WCAU WHP WJDX WLBW WMAL  
 WCAO WDBJ WADC WKBN WBT WXYZ  
 WBCM WSPD WLAC WBRC WISN WOVOW  
 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 WJAS WLBW  
 WTAR WWNC WXYZ WSPD WDOO WLAC  
 WDSU WISN WTAQ WMAQ KMOX KMBC  
 KFH KLZ CFRB

**9:00-10:00 General Electric Hour**  
 WEAJ WEEI WJAR WTAG WCSH WFI  
 WRC WGY WBN WCAE WTAM WWJ  
 WSAI WIBO KSD WOC WHO WOV  
 WTMJ WKY KSTP WEBC WRVA WJAX  
 WHAS WMC WSB WAPI WSMB WBAF  
 KPRC WOA1 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 WWNC WXYZ WBCM WSPD  
 WDOO 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 WLV WIBO KWK WREN WJR  
 CFCF CKGW

**10:00-11:00 Lucky Strike Dance Orchestra**  
 WEAJ WEEI WJAR WTAG WCSH WFI  
 WRC WGY WBN WCAE WTAM WWJ  
 WSAI WGN KSD WHO WOV WJAX  
 WDAF WTMJ KSTP WEBC WRVA WJAX  
 WIOD WFLA WSUN WHAS WMC WSB  
 WSMB WJDX KVOO WFAA KPRC WOA1  
 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 WXYZ  
 WBCM WSPD WDOO 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**  
 WEAJ WFI WCAE WWJ WSAI WOC

**11:00-11:15 Jack Denny and His Orchestra**  
 WABC WHEC WLBZ WEAN WNAC WORC  
 WPG WCAU WHP WLBW WMAL WCAO  
 WTAR WDBJ WWNC WXYZ WBCM WSPD  
 WDOO 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 WKRC WWNC WXYZ WBCM  
 WDOO WREC WLAC WBRC WFBM WCCO  
 KSCJ WMT KMBC WDAY WNAX KOIL  
 WIBW KFJF KRLL KTRH KLZ KOL CFRB

**11:45-12:00 Little Jack Little**  
 WEAJ WFI WCAE WTAM KSD WOC  
 WHO WDAF WFLA WSUN WSB KOA  
 WGY WIBO WOV KPRC WIOD

**12:00-1:00 Smith Ballou and His Orchestra**  
 WEAJ WRC KSTP KPRC WSB WMC  
 WBN KOA (WTAM KSD on 12:30)

# INDEX BY FREQUENCIES AND DIAL NUMBERS

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## KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: \* Verifies receptions 2c; sends station stamp 10c; † Verifies 2c; no stamp; ‡ Does not verify; § Did not reply. Third column shows night power in watts. Fourth column symbols: D, daytime only; S, Sunday only; Stations dividing time have same small figures; X means station has been granted permit to increase power; + means station has greater power during day; CP indicates station has construction permit only; Some Cuban and Mexican stations have odd frequencies; Correct kilocycles shown in small figures; N means NBC chain; C means Columbia chain; Z has been granted permit to change frequency; Y given permit to move to another city. 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.  
 KFUD \* 500 2+ St. Louis, Mo.  
 KFVR † 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  
 WNAJ \* 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  
 WOBU \* 250 1 Charleston, W. Va.  
 WSAA \* 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.  
 WOBU, Inc.  
 WSAA, 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.
WBEI	†	1000	N	Boston, Mass.
WKZO	*	1000	DY	Berrien Springs, Mich.
WOW	*	1000	1N	Omaha, Nebr.
XEZ	*	500	588	Mexico City

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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.

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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

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

620 kilocycles 483.6 meters

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

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

630 kilocycles 475.9 meters

CFCT	*	500	---	Victoria, B. C.
CJGX	--	500	---	Yorkton, Sask.
CNRA	*	500	---	Moncton, N. B.
KFRU	*	500	1	Columbia, Mo.
WGFB	†	500	1	Evansville, Ind.
WMAL	†	250	+C	Washington, D. C.
WOS	*	500	1	Jefferson City, Mo.
XET	†	500	---	Monterrey, Mex.

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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.
CMFJ	--	40	645	Cienfuegos, Cuba
KFI	--	5000	NX	Los Angeles, Cal.
WAIU	--	500	D N	Columbus, Ohio
WOI	*	5000	D	Ames, Iowa
XFG	--	2000	638	Mexico City

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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

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

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Chilliwack Brdcstg. 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.
XBTF	--	500	---	Veracruz, Mex.
8WMC	--	500	682	St. Johns, N. F.

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.
CJ CJ	*	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.

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	*	50000	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.

R. S. MacMillan Bamberger Broadcasting Service, Inc.		

### 720 kilocycles 416.4 meters

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

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.
CNK	--	3000	---	Havana, Cuba
CNRM	*	5000	2--	Montreal, Que.
XEM	†	500	---	Tampico, Mex.

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

Puget Sound Broadcasting Co., Inc. St. Louis University National Broadcasting Co., Inc.		

### 770 kilocycles 389.4 meters

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

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

### 780 kilocycles 384.4 meters

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

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



## INDEX BY FREQUENCIES AND DIAL NUMBERS

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

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

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



### 790 kilocycles 379.5 meters

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

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

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

### 800 kilocycles 374.8 meters

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

Fort Worth, Texas  
 Dallas, Texas  
 Aguascalientes, Mex.

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

KCYS.  
 880  
 MTRS.  
 340.7  
 DIAL

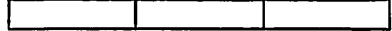


### 810 kilocycles 370.2 meters

WCCO \* 7500 C  
 WPCB \* 500 D

Minneapolis, Minn.  
 New York City

Northwestern Broadcasting, Inc.  
 Eastern Broadcasters, Inc.



### 820 kilocycles 365.6 meters

WHAS † 10000 N  
 XFI -- 1000 818

Louisville, Ky.  
 Mexico City

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



### 830 kilocycles 361.2 meters

CMGA -- 100 834  
 KOA † 12500 N  
 WHDH † 1000 D  
 WRUF \* 5000 Dn

Colon, Cuba  
 Denver, Colo.  
 Boston, Mass.  
 Gainesville, Fla.

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



### 840 kilocycles 356.9 meters

CFCFA † 500 1  
 CHCT † 1000 ---  
 CKLK † 1000 2  
 CMC \* 500 845  
 CNRD † 1000 2  
 CNRT \* 500 1  
 XETY -- 2000 ---

Toronto, Ont.  
 Red Deer, Alta.  
 Red Deer, Alta.  
 Havana, Cuba  
 Red Deer, Alta.  
 Toronto, Ont.  
 Mexico City

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.



### 850 kilocycles 352.7 meters

KWKH \* 10000 1  
 WWL \* 5000 1

Shreveport, La.  
 New Orleans, La.

Hello World Broadcasting Corp.  
 Loyola University

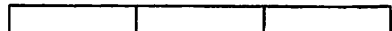


### 860 kilocycles 348.6 meters

CMJE -- 5 856  
 KMO -- 500 + Dn  
 WABC \* 5000 XC  
 WBOQ -- 5000 ---  
 WHB \* 500 D  
 XFX -- 500 ---

Carnaguey, Cuba  
 Tacoma, Wash.  
 New York City  
 New York City  
 Kansas City, Mo.  
 Mexico City, Mex.

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

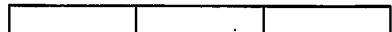


### 870 kilocycles 344.6 meters

CMHH -- 10 ---  
 WBNR -- 5000 1N  
 WLS † 5000 1XN

Cifuentes, Cuba  
 Chicago, Ill.  
 Chicago, Ill.

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

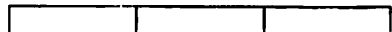


### 880 kilocycles 340.7 meters

CHML \* 50 4  
 CJCB \* 50 ---  
 CKCI † 22.5 3  
 CKCV † 50 3  
 CNRQ † 50 3  
 KFKA † 500 2+  
 KIX † 500 ---  
 KPFP \* 500 2  
 WCOC -- 500 +  
 WGBI \* 250 1  
 WOAN \* 250 1  
 WSUI \* 500 ---

Hamilton, Ont.  
 Sydney, N. S.  
 Quebec, Que.  
 Quebec, Que.  
 Quebec, Que.  
 Greeley, Colo.  
 Oakland, Cal.  
 Denver, Colo.  
 Meridian, Miss.  
 Scranton, Pa.  
 Scranton, Pa.  
 Iowa City, Iowa

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



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 Lavrin  
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.

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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
KFBL	†	500	1	Denver, Colo.
KFXP	*	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.  
Drovers Journal Publishing Co.  
Babson Statistical Organization, Inc.  
The Detroit, News  
Gobierno del Estado de Chihuahua

### 930 kilocycles 322.4 meters

CJCA	*	500	4	Edmonton, Alta.
CFRC	---	500	---	Kingston, Ont.
KFWI	†	500	1	San Francisco, Cal.
KGBZ	---	500	2+	York, Nebr.
KMA	*	500	2+	Shenandoah, Iowa
KROW	*	500	1+X	Oakland, Cal.
WBRC	*	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WIBG	*	50	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.
WCSH	*	1000	N	Portland, Maine
WDAY	*	1000	---	Fargo, N. D.
WFTW	*	1000	---	Hopkinsville, Ky.
WHA	---	750	D	Madison, Wis.
XEO	---	5000	---	Mexico City

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Marion A. Mulroney  
KOIN, Inc.  
Bremer Broadcasting Corp.  
Congress Square Hotel Co.  
WDAY, Inc.  
WFTW, 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.

INDEX BY FREQUENCIES AND DIAL NUMBERS

960 kilocycles 312.3 meters

CFCY	*	250	1
CFRB	*	5000	2C
CHCK	--	100	1
CHWC	--	500	3
CJBR	--	500	3
CKCK	†	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.

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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

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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.

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Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

WBZ-A	†	15000	1N
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Springfield-Boston

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Westinghouse Elec. & Mfg. Co.

1000 kilocycles 299.8 meters

KFVD	*	250	Dn
WHO	*	5000	1N
WOC	*	5000	1N
XEA	--	101	---
XEC	--	50	---
XEB	--	10	---
XEF	*	105	---
XEFE	--	101	---
XEJ	*	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.  
Linaca, Mex.  
Oaxaca, Mex.  
Laxaca, Mex.  
Morelia, Mex.  
Morelia, Mex.  
Juarez, Mex.  
Mexico City  
Saxtillo, Mex.  
Veracruz, Mex.  
Puebla, Mex.  
Merida, Mex.

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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	---
CMCX	--	250	---
KCGF	†	500	2
KOW	†	500	---
KWIN	*	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

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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.

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

1030 kilocycles 291.1 meters

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

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

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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.

KCY.S.  
1040  
MTRS.  
288.3  
DIAL

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

<p><b>1050 kilocycles</b>                      KFKB * 5000 Dn                      KNX * 5000 X</p>	<p><b>285.5 meters</b>                      Milford, Kansas                      Hollywood, Cal.</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table>			
<p><b>1060 kilocycles</b>                      KWJJ -- 500 Dn                      WBAL * 10000 IN                      WJAG * 1000 Dn                      WTIC * 50000 IN</p>	<p><b>282.8 meters</b>                      Portland, Ore.                      Baltimore, Md.                      Norfolk, Nebr.                      Hartford, Conn.</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>KWJJ Broadcast Co., Inc.                      Consolidated Gas Elec. &amp; Pwr. Co.                      Norfolk Daily News                      Travelers Broadcasting Service Corp.</p>			
<p><b>1070 kilocycles</b>                      CMBG -- 150 ---                      CMBT -- 150 ---                      CMCB -- 150 ---                      KJBS * 100 D                      WCAZ -- 50 D                      WDZ † 100 D                      WTAM * 50000 N</p>	<p><b>280.2 meters</b>                      Havana, Cuba                      Havana, Cuba                      Havana, Cuba                      San Francisco, Cal.                      Carthage, Ill.                      Tuscola, Ill.                      Cleveland, Ohio</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>Francisco Garrigo                      E. Perera                      M. D. Autran                      Julius Brunton &amp; Sons Co.                      Superior Broadcasting Service                      James L. Bush                      National Broadcasting Co., Inc.</p>			
<p><b>1080 kilocycles</b>                      WBT * 5000 C                      WCBD * 5000 1 Dn                      WMBI * 5000 1 Dn                      XRH -- 5000 ---</p>	<p><b>277.6 meters</b>                      Charlotte, N. C.                      Zion, Ill.                      Chicago, Ill.                      Monterrey, Mex.</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>Station WBT, Inc.                      Wilbur Glenn Voliva                      Moody Bible Institute                      Tarnava y Cia</p>			
<p><b>1090 kilocycles</b>                      CMAA -- 30 ---                      CMGI -- 30 1094                      KMOX * 50000 ICX</p>	<p><b>275.1 meters</b>                      Guanajay, Cuba                      Matanzas, Cuba                      St. Louis, Mo.</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>Antonio Sarasola                      Armando Lizama                      Voice of St. Louis, Inc.</p>			
<p><b>1100 kilocycles</b>                      CMKD -- 20 ---                      KGDW * 250 DX                      WLWL * 5000 1                      WPG * 5000 1C</p>	<p><b>272.6 meters</b>                      Santiago, Cuba                      Stockton, Cal.                      New York City                      Atlantic City, N. J.</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>Jose Caluff                      E. F. Paffer                      Missionary Society of St. Paul                      WPG Broadcasting Corp.</p>			
<p><b>1110 kilocycles</b>                      CMHI -- 15 ---                      KSOO * 2000 Dn                      WRVA * 5000 N</p>	<p><b>270.1 meters</b>                      Santa Clara, Cuba                      Sioux Falls, S. D.                      Richmond, Va.</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>Laviz y Paz                      Sioux Falls Broadcasting Assn., Inc.                      Larus &amp; Bros. Co., Inc.</p>			
<p><b>1120 kilocycles</b>                      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</p>	<p><b>267.7 meters</b>                      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</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>N. S. Dalgleish &amp; Sons                      The Hamilton Spectator                      R. T. Holman, Ltd.                      Harold R. Carson                      Wentworth Radio &amp; Auto Sply. Co., Ltd                      Spokane Broadcasting Corp.                      Echo Park Bvang. Assn.                      Dalton's, Inc.                      Radio Sales Corp.                      Rice Hotel                      Orlando Broadcasting Co., Inc.                      WDEL, Inc.                      Marquette University                      Evening Wisconsin Co.                      Agricultural &amp; Mech. College</p>			
<p><b>1130 kilocycles</b>                      KSL * 5000 N                      WJJD * 20000 C Dn                      WOV -- 1000 D</p>	<p><b>265.3 meters</b>                      Salt Lake City                      Mooseheart, Ill.                      New York City</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>Radio Service Corp. of Utah                      Loyal Order of Moose                      International Broadcasting Corp.</p>			
<p><b>1140 kilocycles</b>                      CMGD -- 5 ---                      KVOO * 5000 IN                      WAPI -- 5000 IN                      XETA -- 500 ---</p>	<p><b>263.0 meters</b>                      Matanzas, Cuba                      Tulsa, Okla.                      Birmingham, Ala.                      Mexico City</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>Rafael Rodriguez                      Southwestern Sales Corp.                      Alabama Polytechnic Institute                      Manuel Espinosa Tagle</p>			
<p><b>1150 kilocycles</b>                      CMCQ -- 500 ---                      CMHA -- 200 1154                      CMQ † 250 ---                      WHAM * 5000 N</p>	<p><b>260.7 meters</b>                      Havana, Cuba                      Cienfuegos, Cuba                      Havana, Cuba                      Rochester, N. Y.</p>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>Andres Martinez                      Fox Bross Co.                      Jose Fernandez                      Stromberg-Carlson Tel. Mfg. Co.</p>			

INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

WOWO \* 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.

--	--	--

Ricardo Arnoldo  
 Norman Baker  
 Universal Broadcasting Co.

1180 kilocycles 254.1 meters

CMGB -- 7.5 1185  
 KBX \* 5000 2  
 KOB \* 20000 2  
 WDBY \* 1000 1 Dn  
 WGBS † 250 †  
 WHDI † 500 1 Dn

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

--	--	--

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

--	--	--

Southern Equipment Co.

1200 kilocycles 249.9 meters

CFCH -- 50 ---  
 CMKB -- 15 ---  
 KBMT -- 100 D  
 KFJB † 100 †  
 KFWF -- 100 5  
 KGCU -- 100 ---  
 KGDE \* 100 †  
 KGDY † 100 ---  
 KGBK † 50 9  
 KGBW † 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 3  
 WKJC \* 100 1  
 WLAF † 100 †  
 WLBG \* 100 †  
 WNBO \* 100 4  
 WNBW † 10 ---  
 WNBC \* 10 2  
 WORC \* 100 CX  
 WRAF † 100 8  
 WRBL † 50 ---  
 WWAB † 100 8  
 10-EP \* 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 Aguero  
 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. Limer  
 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 Brunlee Springs  
 Home Cut Glass & China Co.  
 First Congregational Church  
 Alfred Frank Kleindienst  
 Chas. Middleton  
 David Farmer  
 Hammond-Calumet Broad. Corp.  
 Radio & Electric Shop

KCY.S.  
 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.
KGXM	†	100	9	San Bernardino, Cal.	J. C. & B. 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.	Dutree W. Flint
WEBQ	*	100	6	Harrisburg, Ill.	First Trust & Savings Bank
WEDC	*	100	4	Chicago, Ill.	Emil Denemark, Inc.
WGBB	*	100	3	Freeport, N. Y.	Harry H. Carman
WGCN	*	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. B. 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.	
WCAB	*	1000	N	Pittsburgh, Pa.	
WDAB	*	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	Anchorage Radio Club
KGGM	---	250	+	Albuquerque, N. Mex.	New Mexico Broadcasting Co.
KYA	*	1000	---	San Francisco, Cal.	Pacific Broadcasting Corp.
WBIS	*	1000	2	Boston, Mass.	Shepard Broadcasting Service, Inc.
WFBM	*	1000	1C	Indianapolis, Ind.	Indianapolis Power & Light Co.
WNAC	*	1000	2C	Boston, Mass.	Shepard Broadcasting Service, Inc.
WPSC	---	500	D	State College, Pa.	Pennsylvania State College
WSBT	†	500	1	South Bend, Ind.	South Bend Tribune

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

### 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  
 WGCP \* 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. Murguia

1260 kilocycles

KOIL \* 1000 C  
 KRGV \* 500 1  
 KVOA -- 500 D  
 KWVG \* 500 1  
 WLWB \* 500 C+  
 WTOC \* 500 C

238.0 meters

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



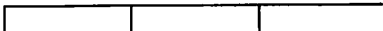
Mona Motor Oil Co.  
 KRGV, Inc.  
 Robert M. Riculfi  
 Herald Pub. Co.  
 Radio-Wire Program Corp.  
 Savannah Broadcasting Co.

1270 kilocycles

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



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 i-  
 WRR -- 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



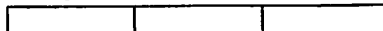
Jesus Lopez  
 Jose Leiro  
 Jose Justo Moran  
 Hernani Torralbas  
 Aurelio Hernandez  
 Buttrey Broadcast, Inc.  
 City of Camden  
 Radio Industries Broadcast Co.  
 WDOD Broadcasting Corp.  
 Capital Times Co.  
 WOAX, Inc.  
 City of Dallas

1290 kilocycles

KDYL \* 1000 C  
 KFUL -- 500 1  
 KLCN -- 50 D  
 K TSA † 1000 1+  
 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.



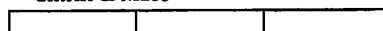
Intermountain Broadcasting Corp.  
 Will H. Ford  
 C. L. Lintzenich  
 Lone Star Broadcast Co.  
 Head of Lake Broadcasting Co.  
 Pittsburgh Radio Supply House  
 Smith & Mace

1300 kilocycles

KFH \* 1000 2C  
 KFJR \* 500 3  
 KGEF \* 1000 4  
 KTBI \* 1000 4  
 KTBR -- 500 3  
 WBBR -- 1000 1  
 WEVD \* 500 1  
 WHAP \* 1000 1  
 WHAZ \* 500 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.



Radio Station KFH Co.  
 Ashley C. Dixon & Son  
 Trinity Methodist Church  
 Bible Institute of Los Angeles  
 M. B. 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-  
 KFPL † 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.



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

KCYS.  
 1310  
 MTRS.  
 228.9  
 DIAL

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.
KGEB	100			Kallisell, 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
WBRR	100	+		Buffalo, N. Y.
WFXL	50			Royal Oak, Mich.
WFBG	100	3+		Altoona, Pa.
WDFD	100			Flint, Mich.
WGAL	100	5		Lancaster, Pa.
WGH	100	---	---	Newport News, Va.
WHAT	100	4X		Philadelphia, Pa.
WIAC	100	3		Johnstown, Pa.
WJAK	50	6		Marion, Ind.
WKAU	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.
WRAU	100	5Z		Reading, Pa.
WRBI	100	---	---	Tifton, Ga.
WROL	100	---	---	Knoxville, Tenn.
WSAJ	100	---	---	Grove City, Pa.
WSJS	100	---	---	Winston-Salem, N. C.
WTEL	100	4		Philadelphia, Pa.

Exchange Ave. Baptist Church  
 KGBX Inc.  
 First State Bank of Vida  
 Treloar-Church Brcdstg. Co.  
 Central Nebraska Broadcasting Corp.  
 Carl E. Raymond  
 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
WDRG	*	500	C	Hartford, Conn.
WSAI	*	500	N	Cincinnati, Ohio
WTAQ	*	1000	1C	Eau Claire, Wis.

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Pedro Noguera  
 Pickwell 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. Aufran  
 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
WBXN	--	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 Brcdstg. 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+
WGBS	*	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
KFII	†	100	---
KFTM	†	100	---
KFYZ	*	100	X
KFLX	*	100	---
KGAR	*	100	---
KGDA	†	100	+
KGFG	†	100	2
KGFT	†	50	---
KGKL	†	100	---
KMAC	†	100	5
KONO	†	100	5
KOOS	†	100	---
KRB	†	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	7
WLVA	†	100	---
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 Sebarer  
Champion Refining Co.  
Leese Bros.  
KFJI Broadcasters, Inc.  
University of North Dakota  
Estate of H. C. Meachern  
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. Woodaon

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.

KCYS.

1400

MTRS.

214.2

DIAL

1390 kilocycles 215.7 meters

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

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

--	--	--

Arkansas Broadcasting Co.  
Nielsen 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
CMBO	--	30	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 B. Coscolluela  
Peery Building Co.  
College for Women  
Purdue University

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 \* 250 ---  
 WSPA ↑ 500 3  
 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.  
 KFOW \* 100 ---  
 KFXD \* 100 XY  
 KFKY \* 100 ---  
 KFYO ↑ 100 +  
 KGFF -- 100 Y  
 KGGC ↑ 100 5  
 KGIW -- 100 ---  
 KGIX ↑ 100 ---  
 KGKX -- 100 ---  
 KGVO -- 100 ---  
 KICK \* 100 ---  
 KLPM ↑ 100 ---  
 KORE \* 100 ---  
 KTAP ↑ 100 ---  
 KXL -- 100 4  
 KXYZ -- 100 X  
 WEDH \* 100 ---  
 WHHS -- 100 2  
 WELL ↑ 50 X  
 WFDW \* 100 ---  
 WHDL \* 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  
 Eric, 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  
 WHHS, 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  
 WGBG \* 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  
 WSR \* 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.

Arturo 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  
 WCKY \* 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 ---  
 KREG † 100 ---  
 KUT † 100 ---  
 KXO -- 100 ---  
 WCLB -- 100 1Y  
 WDIX -- 100 ---  
 WKBE \* 100 +  
 WKCB † 50 ---  
 WLBK \* 100 1  
 WLOE \* 100 +  
 WMBA -- 100 ---  
 WMBO -- 100 1  
 WMPC † 100 ---  
 WNBK \* 100 ---  
 WOPJ -- 100 +  
 WPNW -- 100 +  
 WSDW † 100 CP  
 WSVL † 100 1  
 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, Vc.  
 Woodside, N. Y.  
 Pittsburg, Pa.

Julio C. Hidalgo  
 Ricardo Perkins  
 Tomas Basall  
 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  
 Wescoast Broadcasting Co.  
 Pacific Western Broadcasting  
 Driskill Hotel  
 E. R. Irey 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.  
 Radio-phone Brcdstg. Station, Inc.  
 Wm. Penn Broadcasting Co.  
 Warren C. Davenport's Musicove, Inc.  
 Seward & Weiss Music Co.  
 Long Island Broadcasting Corp.  
 William S. Walker

**KCVS.**  
**1500**  
**MTRS.**  
**199.9**  
**DIAL**

## INDEX BY LOCATIONS WITH MAP KEY

		Watts	Keys.			Watts	Keys.
<b>ALABAMA</b>				<b>SAN JOSE</b>			
Birmingham O-21	5000	WAPI	1140	San Jose J-1	500	KOW	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
<b>ARIZONA</b>					1000	KLZ	560
Flagstaff M-7	100	KFX Y	1420		12500	KOA	830
Jerome M-6	100	KCRJ	1310	Fort Morgan J-11	500	KPOF	880
Phoenix N-6	500	KOY	1390	Grand Junction K-9	100	KGEW	1200
	500	KTAR	620	Greeley J-11	100	KFXJ	1310
Prescott M-6	100	KPJM	1500	Pueblo L-11	500	KFKA	880
Tucson O-7	100	KGAR	1370	Trinidad L-11	250	KGHF	1320
	500	KVOA	1260	Yuma J-12	100	KGW	1420
					50	KGEK	1200
<b>ARKANSAS</b>				<b>CONNECTICUT</b>			
Blytheville M-19	50	KLCN	1290	Bridgeport H-27	500	WICC	600
Fayetteville M-16	1000	KUOA	1390	Hartford H-27	500	WDRG	1330
Fort Smith N-16	50	KFPW	1340		50000	WTIC	1060
Hot Springs N-17	10000	KTHS	1040	Storrs H-28	250	WCAC	600
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	WTOG	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	WSUN	620
	1000	KGER	1360	Tampa R-24	1000	WDAB	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	KGBF	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	WFDW	1370
	500	KTM	780	Savannah O-24	500	WTOG	1260
Oakland J-1	1000	KTBI	1300	Thomasnah Q-22	100	WQDX	1210
	250	KLS	1440	Tifton P-23	100	WRBI	1310
	500	KLX	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	KFRG	610	Pocatello H-7	250	KSEI	900
	500	KFWI	930	Sand Point D-6	100	KGKX	1420
	100	KGGC	1420	Twln 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	Ottumwa J-17	100	WIAS	1420
Chicago I-20		10000	KFKX	1020	Red Oak J-16	100	KICK	1420
		10000	KYW	1020	Shenandoah J-16	500	KFMF	890
		500	WAAF	920		500	KMA	930
		25000	WBBM	770	Sioux City I-15	1000	KSCJ	1330
		1500	WCFL	970	Waterloo I-17	500	WMT	600
		5000	WCHI	1490	<b>KANSAS</b>			
		100	WCRW	1210	Dodge City L-13	100	KGNO	1210
		100	WBCD	1218	Kansas City K-16	100	WLB	1420
		50000	WBNR	870	Lawrence K-16	500	KFKU	1220
		500	WGES	1360		1000	WRBN	1220
		25000	WGN	720	Manhattan K-15	500	KSAB	580
		1000	WIBO	560	Milford K-14	5000	KFKB	1050
		5000	WJAZ	1490	Topeka K-16	1000	WIBW	580
		25000	WJBT	770	Wichita L-15	1000	KPH	1300
		100	WKBI	1420	<b>KENTUCKY</b>			
		5000	WLS	870	Covington K-22	5000	WCKY	1490
		5000	WMAQ	670	Hopkinsville M-20	1000	WFIV	940
		500	WMBI	1080	Louisville L-21	10000	WHAS	820
		500	WPCC	560		100	WLAP	1200
		100	WSBC	1210	Paducah M-19	100	WPAD	1420
Cicero I-20		100	WEHS	1420	<b>LOUISIANA</b>			
		100	WHFC	1420	Monroe P-18	50	KMLB	1200
		100	WJBL	1200	New Orleans R-19	100	WABZ	1200
Decatur K-19		100	WKBS	1310		1000	WDSU	1250
Galesburg J-18		100	WBEQ	1210		100	WJBO	1420
Harrisburg L-19		100	WCLS	1310		30	WJBW	1200
Joliet I-19		100	WKBB	1310		500	WSMB	1320
		100	WJBC	1200		5000	WWL	850
La Salle J-19		100	WJJD	1130	Shreveport P-17	50	KRMD	1310
Mooseheart I-19		20000	WMBD	1440		1000	KTBS	1450
Peoria Heights J-19		500	WMTD	1440		100	KTSL	1310
Quincy K-18		500	KFLV	1410		100	KWEA	1210
Rockford I-19		500	WHBF	1210		10000	KWKH	850
Rock Island I-18		100	WCBS	1210	<b>MAINE</b>			
Springfield K-19		100	WTAX	1210	Augusta F-28	100	WRDO	1370
		100	WDX	1070	Bangor F-29	100	WABI	1200
Tuscola K-20		100	WILL	890		500	WLBZ	620
Urbana J-20		250	WCBD	1080	Portland F-28	1000	WCSH	940
Zion I-20		5000			<b>MARYLAND</b>			
<b>INDIANA</b>					Baltimore J-26	10000	WBAL	1060
Anderson J-21		100	WHBU	1210		250	WCAO	600
Connersville K-21		100	WKBU	1500		100	WCBM	1370
Culver I-20		500	WCMA	1400		500	WFBR	1270
Evansville L-20		500	WGBF	630	Cumberland J-25	100	WTBO	1420
Fort Wayne J-21		100	WGL	1370	<b>MASSACHUSETTS</b>			
		10000	WOWO	1160	Boston G-28	1000	WBIS	1230
		1000	WJKS	1360		1000	WBEI	590
Gary I-20		100	WVAE	1200		1000	WHDH	830
Hammond I-20		100	WFVM	1230		100	WLOE	1500
Indianapolis J-21		100	WKBF	1400		1000	WNAC	1230
		500	WBAF	1400		500	WSSH	1410
Lafayette J-20		100	WRAF	1200		250	WSAR	1450
La Porte I-20		100	WIAK	1310	Fall River H-28	500	WLEX	1410
Marion J-21		50	WLEC	1310	Lexington G-28	100	WLEY	1370
Muncie J-21		50	WSBT	1230		100	WNBH	1310
South Bend I-20		500	WBOW	1310	New Bedford H-28	1000	WBZ-A	990
Terre Haute K-20		100			Springfield H-27	15000	WBSO	920
<b>IOWA</b>					Needham G-28	500	WBPS	1200
Ames I-17		5000	WOI	640	Worcester G-28	100	WORC	1200
Boone I-17		100	KFGQ	1310		250	WTAG	580
Cedar Rapids I-18		100	WKCR	1310	<b>MICHIGAN</b>			
Clarinda I-16		500	KSO	1380	Battle Creek I-21	50	WELL	1420
Council Bluffs J-16		1000	KOIL	1260	Bay City H-22	500	WBCM	1410
Davenport I-18		5000	WOC	1000	Berrien Springs I-20	1000	WKZO	590
Decorah H-18		50	KGCA	1270	Cahumet E-19	100	WHDF	1370
		100	KWLC	1270				
Des Moines I-17		5000	WHO	1000				
Fort Dodge I-16		100	KFJY	1310				
Iowa City I-18		500	WSUI	880				
Marshalltown I-17		100	KFJB	1200				
Muscatine J-18		5000	KTNT	1170				

## INDEX BY LOCATIONS WITH MAP KEY

Detroit H-22	50	WJBK	1370	<b>NEVADA</b>			
	5000	WJR	750	Las Vegas L-5	100	KGIX	1420
	100	WMBC	1420	Reno I-3	500	KOH	1380
	1000	WWJ	920				
	1000	WXYZ	1240	<b>NEW HAMPSHIRE</b>			
East Lansing H-21	1000	WKAR	1040	Laconia G-28	100	WKAV	1310
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	<b>NEW JERSEY</b>			
Ludington H-20	50	WKBZ	1500	Asbury Park I-27	500	WCAP	1280
Marquette F-19	100	WBEO	1310	Atlantic City J-27	5000	WPG	1100
Royal Oak H-22	50	WBXL	1310	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
<b>MINNESOTA</b>				Newark I-27	1000	WAAM	1250
Fergus Falls F-15	100	KGDE	1200		250	WGCP	1250
Minneapolis G-17	7500	WCCO	810		250	WNJ	1450
	1000	WDGY	1180		5000	WOR	710
	500	WHDI	1180	Paterson I-27	1000	WODA	1250
	1000	WRHM	1250	Red Bank I-27	100	WJBI	1210
Moorhead F-15	50	KGFK	1500	Trenton I-26	500	WOAX	1280
Northfield G-17	1000	KFMX	1250				
	1000	WCAL	1250				
St. Paul G-17	1000	WLB	1250				
	10000	KSTP	1460				
<b>MISSISSIPPI</b>				<b>NEW MEXICO</b>			
Greenville O-18	100	WRBQ	1210	Albuquerque N-7	250	KGGM	1230
Gulfport Q-19	100	WGCM	1210	Raton M-11	50	KGFL	1370
Hattiesburg Q-19	10	WRBJ	1370	State College P-9	20000	KOB	1180
Jackson P-19	1000	WJDX	1270				
Meridian P-20	500	WCOC	880				
Tupelo N-20	100	WDIX	1500	<b>NEW YORK</b>			
Vicksburg P-18	300	WQBC	1360	Albany H-27	500	WOKO	1440
				Auburn H-25	100	WMBO	1310
				Binghamton H-26	100	WNBF	1500
<b>MISSOURI</b>				Brooklyn I-27	500	WBBC	1400
Cp. Girardeau L-19	100	KFVS	1210		1000	WBRR	1300
Columbia K-17	500	KFRU	630		500	WCGU	1400
Grant City J-16	50	KGIZ	1500		500	WFOX	1400
Jefferson City L-17	500	WOS	630		500	WLTH	1400
Joplin M-16	100	WMBH	1420		100	WMBQ	1500
Kansas City K-16	1000	KMBC	950	Buffalo H-24	1000	WBBN	900
	100	KWKC	1370		100	WBRB	1310
	1000	WDAF	610		1000	WGR	550
	500	WDB	860		5000	WKBW	1480
	1000	WOO	1300		1000	WMAK	1040
	2500	KFEQ	680		50	WSVS	1370
St. Joseph K-16	100	KGBX	1310	Canton F-26	500	WCAD	1220
	500	KFUO	550	Freeport I-27	100	WGBB	1210
St. Louis L-18	100	KFWF	1200	Glens Falls G-27	50	WBCF	1370
	50000	KMOX	1090	Ithaca H-25	1000	WEAI	1270
	500	KSD	550		50	WLCI	1210
	1000	KWK	1350	Jamaica H-27	100	WMRJ	1210
	1000	WEW	760	Jamestown H-24	50	WOCL	1210
	100	WIL	1200	Long Island City I-27	100	WLBX	1500
				Long Beach I-27	100	WCLB	1500
				New York City I-27	5000	WABC	860
<b>MONTANA</b>					250	WAWZ	1350
Billings F-9	1000	KGHL	950		250	WBNX	1350
Butte F-7	500	KGIR	1360		5000	WBOQ	860
Great Falls E-8	1000	KFBB	1280		250	WCDA	1350
Kalispell D-7	100	KGEZ	1310		50000	WEAF	660
Missoula E-7	100	KGVO	1420		500	WEVD	1300
Wolf Point E-11	100	KGCK	1310		250	WGBS	1180
					1000	WHAP	1300
<b>NEBRASKA</b>					250	WHN	1010
Clay Center J-14	1000	KMMJ	740		30000	WJZ	760
Lincoln J-15	5000	KFAB	770		5000	WLWL	1100
	100	KFOR	1210		500	WMCA	570
	500	WCAJ	590		250	WMSG	1350
Norfolk I-15	1000	WJAG	1060		500	WNYC	570
North Platte J-13	500	KGNF	1430		1000	WOV	1130
Omaha J-15	500	WAAW	660		250	WPAP	1010
	1000	WOW	590		500	WPCH	810
Ravenna J-14	100	KCFW	1310		250	WQAO	1010
Scottsbluff I-11	100	KGKY	1500		250	WRNY	1010
York J-15	500	KGZ	930				

## INDEX BY LOCATIONS WITH MAP KEY

Patchogue I-27	100	WPOB	1370	Marshfield F-1	100	KOOS	1370
Rochester G-25	5000	WHAM	1150	Medford G-2	50	KMBD	1310
	500	WHBC	1440	Portland E-3	5000	KEX	1180
Saranac Lake F-26	50	WNBZ	1290		100	KBPS	1420
Schenectady G-27	50000	WGY	790		500	KFJR	1380
Syracuse G-25	1000	WFBL	1360		1000	KGW	620
	250	WMAC	570		1000	KOIN	940
	250	WSYR	570		500	KTBR	1300
Troy G-27	500	WHAZ	1300		500	KWJJ	1060
Tupper Lake F-26	10	WHDL	1420		100	KXL	1420
Utica G-26	100	WBX	1200				
Woodside I-27	100	WWRL	1500				
Yonkers I-27	100	WCOH	1210				
<b>PENNSYLVANIA</b>							
				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
				Eric 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
				Lewisburg I-26	100	WJBU	1210
				Oil City I-24	500	WLCW	1260
				Philadelphia I-26	10000	WBAU	1170
					100	WELK	1370
					500	WFAN	610
					500	WFI	560
					100	WHAT	1310
					500	WIP	619
					500	WLIT	560
					100	WPEN	1500
					250	WRAX	1020
					100	WTEL	1310
				Pittsburgh J-24	50000	KDKA	980
					500	KQV	1380
					1000	WCAE	1220
					1000	WJAS	1290
					100	WWSW	1500
				Reading I-26	100	WRAW	1318
				Scranton H-26	250	WGBI	880
					250	WQAN	880
				State College I-25	500	WPSC	1230
				Washington J-24	100	WNBO	1200
				Wilkes-Barre I-26	100	WBAX	1210
					100	WBRE	1318
				Williamsport I-25	100	WRAK	1376
<b>PORTO RICO</b>							
				San Juan W-34	500	WKAQ	890
<b>RHODE ISLAND</b>							
				Newport H-28	100	WMBA	1500
				Pawtucket H-28	100	WPAW	1210
				Providence H-28	100	WDWF	1210
					250	WEAN	750
					250	WJAR	890
					100	WLSI	1210
<b>SOUTH CAROLINA</b>							
				Charleston O-25	500	WCSC	1360
				Columbia N-24	500	WIS	1010
				Spartanburg N-23	100	WSPA	1420
<b>SOUTH DAKOTA</b>							
				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
<b>NORTH CAROLINA</b>							
Asheville M-23	1000	WWNC	570				
Charlotte M-24	5000	WBT	1080				
Gastonia M-24	100	WSOC	1210				
Greensboro M-24	500	WBIG	1440				
Raleigh M-25	1000	WPTF	680				
Wilmington N-26	100	WRBT	1370				
Winston-Salem M-24	100	WSJS	1310				
<b>NORTH DAKOTA</b>							
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				
<b>OHIO</b>							
Akron I-23	1000	WADC	1320				
Canton I-23	10	WHBC	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				
Columbus J-22	500	WJAU	640				
	500	WCAH	1430				
	750	WBAO	579				
	100	WSEN	1210				
Dayton J-22	200	WSMK	1380				
Mansfield J-22	100	WJW	1210				
Mount Orab K-22	100	WHBD	1370				
Stuebenville J-23	50	WIBR	1420				
Toledo I-22	500	WSPD	1340				
Youngstown I-23	500	WKBN	570				
Zanesville J-23	100	WALR	1210				
<b>OKLAHOMA</b>							
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				
<b>OREGON</b>							
Astoria D-2	100	KFJI	1370				
Corvallis E-2	1000	KOAC	550				
Eugene F-2	100	KORE	1420				

## 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
					5000	WRVA	1110
<b>TENNESSEE</b>				Roanoke L-24	250	WDBJ	930
Bristol L-23	100	WOPI	1500		250	WRBX	1410
Chattanooga N-21	1000	WDOD	1280	<b>WASHINGTON</b>			
Knoxville M-22	50	WFBC	1200	Aberdeen D-2	75	KXRO	1310
	1000	WNOX	560	Bellingham C-3	100	KVOS	1200
	100	WROL	1310	Everett C-3	50	KFBL	1370
Memphis N-19	500	WGBG	1430	Lacey D-3	10	KGY	1200
	100	WHBQ	1370	Pullman E-5	1000	KWSC	1220
	500	WMC	780	Seattle C-3	100	KFQW	1420
	500	WNBR	1430		5000	KJR	970
	500	WREC	600		1000	KOL	1270
Nashville M-21	5000	WLAC	1470		1000	KOMO	920
	5000	WSM	660		100	KPCB	650
	5000	WTNT	1470		50	KRSC	1120
Springfield M-20	100	WSIX	1210		1000	KTW	1270
Union City M-19	100	WOBT	1310		100	KVL	1370
					500	KXA	570
<b>TEXAS</b>				Spokane D-5	100	KFIO	1120
Abilene P-13	100	KFYO	1420		1000	KFPY	1340
Amarillo N-12	1000	KGRS	1410		5000	KGA	1470
	250	WDAG	1410	Tacoma D-3	1000	KHQ	590
Austin Q-14	100	KUT	1500		500	KMO	860
Beaumont R-17	500	KFDM	560		1000	KVI	760
Brownsville U-15	500	KWWG	1260	Walla Walla E-5	100	KUJ	1370
Brownwood P-14	100	KGKB	1500	Wenatchee D-4	50	KPQ	1500
College Sta. Q-15	500	WTAW	1120	Yakima D-4	50	KIT	1310
Corpus Christi S-14	100	KGFI	1500				
Dallas P-15	100000	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	KFPL	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	1000	KFJZ	1370				
	1000	KTAT	1240	<b>WISCONSIN</b>			
	10000	WBAP	800	Eau Claire G-18	1000	WTAQ	1330
Galveston R-16	100	KFLX	1370	Fond du Lac H-19	100	KFIZ	1420
	500	KFUL	1290	Green Bay G-19	100	WHBY	1200
Greenville O-15	15	KFPM	1310	Janesville I-19	100	WCLO	1200
Harlingen T-14	500	KRGV	1260	La Crosse H-18	1000	WKBH	1380
Houston R-16	1000	KPRC	920	Madison H-19	750	WHA	940
	100	KTLC	1310		500	WIBA	1280
	100	KTRH	1120		250	WISJ	780
	100	KXYZ	1420	Manitowoc H-20	100	WOMT	1210
San Angelo Q-13	100	KGKL	1370	Milwaukee H-19	250	WHAD	1120
San Antonio R-14	100	KMAC	1370		250	WISN	1120
	100	KONO	1370		1000	WTMJ	620
	100	KTAP	1420	Poynette H-19	100	WIBU	1210
	1000	KTSA	1290	Racine I-20	100	WRJN	1370
Waco Q-15	50000	WOAI	1190	Sheboygan H-20	500	WHBL	1410
Wichita Falls O-14	1000	WACO	1240	Stevens Pt. G-19	2000	WBLB	900
	250	KGKO	570	Superior F-17	1000	WBCB	1290
<b>UTAH</b>				<b>WYOMING</b>			
Ogden I-7	500	KLO	1400	Casper H-10	100	KDFN	1210
Salt Lake City I-7	1000	KDYL	1290				
	5000	KSL	1130				
<b>VERMONT</b>				<b>CANADA</b>			
Burlington F-27	100	WCAX	1200	<b>ALBERTA</b>			
Rutland G-27	100	WSYB	1500	Calgary B-7	500	CFAC	690
St. Albans F-27	100	WQDM	1370		500	CFCN	690
Springfield G-27	10	WNBX	1200		500	CHCA	690
					500	CJ CJ	690
					500	CNRC	690
<b>VIRGINIA</b>				Edmonton A-8	500	CJCA	930
Alexandria K-26	10000	WJSV	1460		500	CKUA	580
Arlington J-25	1000	NAA	690	Lethbridge C-8	50	CJOC	1120
Danville L-25	100	WBTM	1370	Red Deer A-8	1000	CHCT	840
Emory L-23	100	WEHC	1200		1000	CKLK	840
Lynchburg L-25	100	WLVA	1370		1000	CNRD	840
Newport News L-26	100	WGH	1310				
Norfolk L-26	500	WPOR	780				
	500	WTAR	780				



## INDEX BY LOCATIONS WITH MAP KEY

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	CKCK	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>MEXICO</b>			
<b>NEW BRUNSWICK</b>				Aguascalientes W-10	350	XFC	805
Fredericton D-29	500	CFNB	1210	Chihuahua, Chih. R-9	250	XFF	915
Moncton D-30	500	CNRA	630	Guadalajara, Jal. X-10	101	XEA	1000
St. John D-30	500	CFBO	890	Juarez P-9	101	XEJ	1000
<b>NEWFOUNDLAND</b>					1000	XEQ	750
St. Johns A-35	500	8WMC	682	Laredo, N. L. S-13	101	XEFB	1000
<b>NOVA SCOTIA</b>					2500	XEP	1430
Glace Bay C-32	10000	VAS	685	Merida, Yuc. X-19	105	XEY	1000
Halifax E-31	500	CHNS	910	Mexico City Y-13	1000	XEB	1030
	500	CNRH	910		250	XEFA	1250
Sydney C-32	50	CJCB	880		101	XBK	1000
Wolfville D-31	50	CKIC	1010		1000	XEN	719
<b>ONTARIO</b>					5000	XEO	940
Chatham H-22	100	CFCO	1210		101	XER	650
Cobalt E-23	15	CKMC	1210		101	XETA	1140
Hamilton H-24	10	CHCS	1120		2000	XETY	840
	50	CHML	880		500	XEX	1210
	50	CKOC	1120		5000	XEW	780
Kingston G-25	500	CFRC	930		500	XEZ	588
London H-23	5000	CJGC	910	Monterrey, N. L. U-13	5000	XEH	1080
	500	CNRL	910		500	XET	630
North Bay	50	CFCH	1200	Morelia, Mich. Y-12	101	XEI	1000
Ottawa F-25	100	CKCO	890	Oaxaca, Oak. AA-14	105	XEE	1000
	500	CNRO	600	Puebla Z-13	101	XEV	1000
Port Arthur E-19	50	CKPR	890	Reynosa, Tams. T-14	10000	XED	977
Prescott F-25	50	CFLC	1010	Saltillo, Coah. U-12	10	XEL	1000
Preston H-23	25	CKPC	1210	Tampico, Tams. W-14	500	XEM	730
Toronto G-24	500	CFCA	840		500	XES	890
	500	CFCL	580	Toluca, Y-12	50	XEC	1000
	5000	CFRE	960	Veracruz, Ver. Z-14	500	XETF	680
	500	CKCL	580		101	XEU	1000
	5000	CKGW	690	<b>CUBA</b>			
	500	CKNC	580	Caibarien W-25	250	CMHD	920
	500	CNBT	840	Cardenas W-24	30	CMGE	1375
	5000	CNEX	950	Camaguey W-26	10	CMJA	1332
	5000	CPR Y	690		15	CMJC	1321
Waterloo G-23	50	CKCR	1010		5	CMJE	856
Wingham G-23	25	10-BP	1200	Ciego de Avila W-26	20	CMJB	1276
<b>PRINCE EDWARD ISLAND</b>				Cienfuegos W-25	200	CMHA	1164
Charlottetown C-31	250	CFCY	960		40	CMHJ	645
	100	CHCK	960	Cifuentes	10	CMHH	870
Summerside C-31	100	CHGS	1120	Colon W-24	100	CMGA	834
<b>QUEBEC</b>				Guanajay W-23	30	CMAA	1090
Montreal E-26	1650	CFCF	1030	Havana W-23	50	CMBA	1345
	5000	CHYC	730		150	CMBC	955
	5000	CKAC	730		150	CMBD	955
	5000	CNRM	730		7.5	CMBF	1345
Quebec D-27	100	CHRC	645		150	CMBG	1070
	22	CKCI	880		30	CMBI	1405
	50	CKCV	880		15	CMBJ	1285
	50	CNRO	880		15	CMBK	1405
					15	CMBL	1500
					30	CMBM	1285
					30	CMBN	1405
					15	CMBP	1500

CFAC 890  
 Calgary, Alta.  
 CFBO 890  
 St. John, N. B.  
 CFCA 840  
 Toronto, Ont.  
 CFCE 1030  
 Montreal, Que.  
 CFCH 1200  
 North Bay, Ont.  
 CFCL 880  
 Toronto, Ont.  
 CFEN 890  
 Calgary, Alta.  
 CFEO 1210  
 Chatham, Ont.  
 CFET 880  
 Victoria, B. C.  
 CFFY 880  
 Ch'lottet'n, P.E.I.  
 CFJG 1120  
 Kamloops, B. C.  
 CFLC 1010  
 Prescott, Ont.  
 CFNB 1210  
 Fredericton, N.B.  
 CFQC 910  
 Saskatoon, Sask.  
 CFRB 960  
 Toronto, Ont.  
 CFRC 980  
 Kingston, Ont.  
 CFCA 890  
 Calgary, Alta.  
 CHCK 960  
 Ch'lottet'n, P.E.I.  
 CHCS 1120  
 Hamilton, Ont.  
 CHCT 840  
 Red Deer, Alta.  
 CHGS 1120  
 Sum'side, P.E.I.  
 CHLS 780  
 Vancouver, B.C.  
 CHML 880  
 Hamilton, Ont.  
 CHNS 910  
 Halifax, N.S.  
 CHBC 845  
 Quebec, Que.  
 CHWC 960  
 Regina, Sask.  
 CHWK 665  
 Chilliwack, B.C.  
 CHYC 730  
 Montreal, Que.  
 CJBR 960  
 Regina, Sask.  
 CJCA 930  
 Edmonton, Alta.  
 CJCB 880  
 Sydney, N.S.  
 CJCJ 690  
 Calgary, Alta.  
 CJGC 910  
 London, Ont.  
 CJGX 630  
 Yorkton, Sask.  
 CJOC 1120  
 Lethbridge, Alta.  
 CJOE 1210  
 Sea Island, B.C.  
 CJRM 600  
 Moose Jaw, Sask.  
 CJRW 600  
 Fleming, Sask

CKAC 780  
 Montreal, Que.  
 CKCD 780  
 Vancouver, B.C.  
 CKCI 880  
 Quebec, Que.  
 CKCK 960  
 Regina, Sask.  
 CKCL 880  
 Toronto, Ont.  
 CKCO 890  
 Ottawa, Ont.  
 CKCB 1010  
 Waterloo, Ont.  
 CKCV 880  
 Quebec, Que.  
 CKFC 780  
 Vancouver, B.C.  
 CKGW 690  
 Toronto, Ont.  
 CKIC 1010  
 Wolfville, N.S.  
 CKLC 840  
 Red Deer, Alta.  
 CKMC 1210  
 Cobalt, Ont.  
 CKMO 780  
 Vancouver, B.C.  
 CKNC 580  
 Toronto, Ont.  
 CKOC 1120  
 Hamilton, Ont.  
 CKPC 1210  
 Preston, Ont.  
 CKPR 890  
 Port Arthur, Ont.  
 CKUA 580  
 Edmonton, Alta.  
 CKWX 780  
 Vancouver, B.C.  
 CKX 640  
 Brandon, Man.  
 CKY 780  
 Winnipeg, Man.  
 CMAA 1090  
 Guanajay, Cuba  
 CMAB 1249  
 Pinar del Rio, Cu.  
 CMBA 1845  
 Havana, Cuba  
 CMBC 955  
 Havana, Cuba  
 CMBD 955  
 Havana, Cuba  
 CMBF 1845  
 Havana, Cuba  
 CMBG 1070  
 Havana, Cuba  
 CMBI 1405  
 Havana, Cuba  
 CMBJ 1285  
 Havana, Cuba  
 CMBK 1405  
 Havana, Cuba  
 CMBL 1500  
 Havana, Cuba  
 CMBM 1285  
 Havana, Cuba  
 CMBN 1405  
 Havana, Cuba  
 CMBP 1500  
 Havana, Cuba  
 CMBQ 1405  
 Havana, Cuba  
 CMBR 1500  
 Havana, Cuba

CMBS 790  
 Havana, Cuba  
 CMBT 1070  
 Havana, Cuba  
 CMBW 1010  
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 CMBX 1405  
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 CMBY 1405  
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 CMBZ 1010  
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 Havana, Cuba  
 CMCO 660  
 Havana, Cuba  
 CMCQ 1150  
 Havana, Cuba  
 CMCB 1285  
 Havana, Cuba  
 CMC1 1500  
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 CMCU 1845  
 Havana, Cuba  
 CMCX 1010  
 Havana, Cuba  
 CMCY 1845  
 Havana, Cuba  
 CMGA 894  
 Colon, Cuba  
 CMGB 1185  
 Matanzas, Cuba  
 CMGC 1315  
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 CMGD 1140  
 Matanzas, Cuba  
 CMGE 1375  
 Cardenas, Cuba  
 CMGF 877  
 Matanzas, Cuba  
 CMGH 1249  
 Matanzas, Cuba  
 CMGI 1094  
 Matanzas, Cuba  
 CMHA 1154  
 Cienfuegos, Cuba  
 CMHB 1500  
 Sagua la Grande  
 CMHC 790  
 Tuiuuu, Cuba  
 CMHD 920  
 Caibarien, Cuba  
 CMHE 1429  
 Santa, Clara Cu.  
 CMHH 870  
 Cifuentes, Cuba  
 CMHI 1110  
 Santa Clara, Cu.

CMHJ 645  
 Cienfuegos, Cuba  
 CMJA 1332  
 Camaguey, Cuba  
 CMJB 1276  
 Ciego de Avila  
 CMJC 1821  
 Camaguey, Cuba  
 CMJE 856  
 Camaguey, Cuba  
 CMK 730  
 Havana, Cuba  
 CMKA 1450  
 Santiago, Cuba  
 CMKB 1200  
 Santiago, Cuba  
 CMKC 1034  
 Santiago, Cuba  
 CMKD 1100  
 Santiago, Cuba  
 CMKE 1249  
 Santiago, Cuba  
 CMKF 1863  
 Holguin, Cuba  
 CMKG 1176  
 Santiago, Cuba  
 CMKH 1327  
 Santiago, Cuba  
 CMQ 1150  
 Havana, Cuba  
 CMW 588  
 Havana, Cuba  
 CMX 890  
 Havana, Cuba  
 CNEA 680  
 Moncton, N.B.  
 CNEC 690  
 Calgary, Alta.  
 CNBD 840  
 Red Deer, Alta.  
 CNBE 910  
 Halifax, N. S.  
 CNBL 910  
 London, Ont.  
 CNBM 730  
 Montreal, Que.  
 CNBO 590  
 Ottawa, Ont.  
 CNBR 880  
 Quebec, Que.  
 CNRE 960  
 Regina, Sask.  
 CNRS 910  
 Saskatoon, Sask.  
 CNRT 840  
 Toronto, Ont.  
 CNRV 1030  
 Vancouver, B.C.  
 CNRW 780  
 Winnipeg, Man.  
 CNRX 960  
 Toronto, Ont.  
 CPBY 690  
 Toronto, Ont.  
 HHK 920  
 Port au Prince, H.  
 KBPS 1420  
 Portland, Ore.  
 KBTM 1200  
 Paragould, Ark.  
 KCRC 1370  
 Enid, Okla.  
 KCRJ 1310  
 Jerome, Ariz.  
 KDB 1500  
 S. Barbara, Cal.

KDFN 1210  
Casper, Wyo.  
KDKA 980  
Pittsburgh, Pa.  
KDLR 1210  
Devils Lake, N.D.  
KDYL 1290  
Salt Lake City  
KECA 1430  
Los Angeles, Cal.  
KELW 780  
Burbank, Cal.  
KEX 1180  
Portland, Ore.  
KFAB 770  
Lincoln, Nebr.  
KFBB 1280  
Great Fla., Mont.  
KFBB 1310  
Sacramento, Cal.  
KFBL 1370  
Everett, Wash.  
KFDM 560  
Beaumont, Tex.  
KFDY 550  
Brookings, S.D.  
KFEL 920  
Denver, Colo.  
KFEG 680  
St. Joseph, Mo.  
KFGQ 1310  
Boone, Iowa  
KFH 1300  
Wichita, Kansas  
KFI 640  
Los Angeles, Cal.  
KFIO 1120  
Spokane, Wash.  
KFJU 1310  
Juneau, Alaska  
KFIZ 1420  
Fond du Lac, Wis.  
KFJB 1200  
Marshalltown, Ia.  
KFJF 1480  
Oklahoma City  
KFJI 1370  
Astoria, Ore.  
KFJM 1370  
Grd. Forks, N.D.  
KFJR 1360  
Portland, Ore.  
KFJY 1310  
Fort Dodge, Ia.  
KFJZ 1370  
Ft. Worth, Tex.  
KFKA 880  
Greeley, Colo.  
KFKB 1080  
Millford, Kansas  
KFKU 1220  
Lawrence, Kans.  
KFKA 1020  
Chicago, Ill.  
KFVL 1410  
Rockford, Ill.  
KFVX 1370  
Galveston, Tex.  
KFVZ 1250  
N'thfield, Minn.  
KFNF 890  
Shenandoah, Ia.  
KFOR 1210  
Lincoln, Nebr.  
KFOX 1250  
Long Beach, Cal.  
KFPL 1310  
Dublin, Texas

KFPM 1310  
Greenville, Tex.  
KFQW 1340  
Ft. Smith, Ark.  
KFQY 1340  
Spokane, Wash.  
KFQD 1230  
Anchorage, Alas.  
KFQU 1420  
Holy City, Cal.  
KFQW 1420  
Seattle, Wash.  
KFRC 610  
San F'nscisco, Cal.  
KFRR 630  
Columbia, Mo.  
KFSD 600  
San Diego, Cal.  
KFSG 1120  
Los Angeles, Cal.  
KFUL 1290  
Galveston, Tex.  
KFUM 1270  
Col. Spgs., Colo.  
KFUO 550  
St. Louis, Mo.  
KFUP 1310  
Denver, Colo.  
KFVJ 1000  
Culver City, Cal.  
KFVS 1210  
Cape Gir'd'u, Mo.  
KFWB 950  
Hollywood, Cal.  
KFWF 1200  
St. Louis, Mo.  
KFWI 930  
San F'nscisco, Cal.  
KFXD 1420  
Nampa, Idaho  
KFXF 920  
Denver, Colo.  
KFYJ 1310  
GrandJunc., Colo.  
KFYM 1210  
San Ber'd'no, Cal.  
KFYR 1310  
Oklahoma City  
KFZY 1420  
Flagstaff, Ariz.  
KFYO 1420  
Abilene, Texas  
KFYR 550  
Bismarck, N.D.  
KGA 1470  
Spokane, Wash.  
KGAR 1370  
Tucson, Ariz.  
KGB 1330  
San Diego, Cal.  
KGBU 900  
Ketchikan, Al'ka.  
KGBX 1310  
St. Joseph, Mo.  
KGBZ 930  
York, Nebr.  
KGA 1270  
Decorah, Iowa  
KGCE 1210  
Watertown, S.D.  
KGCU 1200  
Mandan, N.D.  
KGCX 1310  
Wolf P't, Mont.  
KGD 1370  
Mitchell, S. D.  
KGD 1200  
Ferg's F'lls, Minn

KGDM 1100  
Stockton, Cal.  
KGDY 1200  
Huron, S. D.  
KGEF 1300  
Los Angeles, Cal.  
KGEK 1200  
Yuma, Colo.  
KGER 1360  
Long Beach, Cal.  
KGEW 1200  
Ft. Morgan, Colo.  
KGEZ 1310  
Kallapell, Mont.  
KGFF 1420  
Shawnee, Okla.  
KGFQ 1370  
Oklahoma City  
KGFJ 1500  
Corpus Ch'st'l, Tex  
KGFJ 1200  
Los Angeles, Cal.  
KGFK 1500  
Moorhead, Minn.  
KGFJ 1370  
Raton, N. M.  
KGFV 1310  
Ravenna, Nebr.  
KGFY 680  
Pierre, S. D.  
KGOC 1420  
San F'nscisco, Cal.  
KGGF 1010  
Coffeeville, Knns.  
KGGM 1290  
Alb'g'r'que, N.M.  
KGFH 1320  
Pueblo, Colo.  
KGGH 1200  
Little Rock, Ark.  
KGGH 950  
Billings, Mont.  
KGGI 1360  
Butte, Mont.  
KGIW 1420  
Trinidad, Colo.  
KGGX 1420  
Las Vegas, Nev.  
KGGZ 1500  
Grant City, Mo.  
KGGJ 890  
Little Rock, Ark.  
KGGK 1500  
Brownwood, Tex.  
KGGK 1370  
San Angelo, Tex.  
KGGO 570  
Wichita Fils., Tex  
KGGX 1420  
Sand Point, Ida.  
KGGY 1500  
Scottsbluff, Nebr.  
KGGP 1320  
Honolulu, T. H.  
KGGP 1210  
Blk City, Okla.  
KGNF 1430  
No. Platte, Neb.  
KGNQ 1210  
Dodge City, Kans.  
KGO 790  
San F'nscisco, Cal.  
KGRS 1410  
Amarillo, Texas  
KGU 940  
Honolulu, Hawaii  
KGVQ 1420  
Missoula, Mont.

KGW 620  
Portland, Ore.  
KGY 1200  
Lacey, Wash.  
KHJ 960  
Los Angeles, Cal.  
KHQ 590  
Spokane, Wash.  
KICK 1420  
Red Oak, Iowa.  
KID 1320  
Idaho Falls, Ida.  
KIDO 1250  
Boise, Idaho  
KIT 1310  
Yakima, Wash.  
KJBS 1070  
San F'nscisco, Cal.  
KJR 970  
Seattle, Wash.  
KLCN 1290  
Blytheville, Ark.  
KLO 1400  
Ogden, Utah  
KLPM 1420  
Minot, N. Dak.  
KLRA 1390  
Little Rock, Ark.  
KLS 1440  
Oakland, Cal.  
KLY 880  
Oakland, Cal.  
KLZ 560  
Denver, Colo.  
KMA 930  
Shenandoah, Ia.  
KMAC 1370  
San Antonio, Tex.  
KMBC 950  
Kan. City, Mo.  
KMCS 1120  
Ingleswood, Cal.  
KMED 1310  
Medford, Ore.  
KMI 1210  
Fresno, Cal.  
KMLB 1200  
Monroe, La.  
KMMJ 740  
Clay Ctr., Nebr.  
KMO 890  
Tacoma, Wash.  
KMOX 1090  
St. Louis, Mo.  
KMPC 710  
Los Angeles, Cal.  
KMTR 570  
Los Angeles, Cal.  
KNX 1050  
Los Angeles, Cal.  
KOA 830  
Denver, Colo.  
KOAC 550  
Corvallis, Ore.  
KOB 1180  
State Coll., N. M.  
KOCW 1400  
Chickasha, Okla.  
KOH 1380  
Reno, Nevada  
KOIL 1280  
Council Bluffs, Ia.  
KOIN 940  
Portland, Ore.  
KOL 1270  
Seattle, Wash.  
KOMO 920  
Seattle, Wash.

KONO 1370	KTLC 1310	WAAM 1250	WCAC 600
San Antonio, Tex.	Houston, Texas	Newark, N. J.	Storrs, Conn.
KOOS 1370	KTM 780	WAAT 940	WCAD 1220
Marshfield, Ore.	Los Angeles, Cal.	Jersey City, N. J.	Canton, N. Y.
KORE 1420	KTNT 1170	WAAW 660	WCAE 1220
Eugene, Ore.	Muscatine, Iowa	Omaha, Nebr.	Pittsburgh, Pa.
KOY 1390	KTRH 1120	WABC 860	WCAH 1480
Phoenix, Ariz.	Houston, Texas	New York City	Columbus, Ohio
KPCB 650	KTSA 1290	WABI 1200	WCAJ 590
Seattle, Wash.	San Antonio, Tex.	Bangor, Maine	WCAL 1250
KPJM 1500	KTSL 1310	WABZ 1200	Northfield, Minn.
Prescott, Ariz.	Shreveport, La.	WACO 1240	WCAM 1280
KPO 680	KTSM 1310	Waco, Texas	Camden, N. J.
San Francisco, Cal.	El Paso, Texas	WADC 1320	WCAO 600
KPOE 380	KTW 1270	Akron, Ohio	Baltimore, Md.
Denver, Colo.	Seattle, Wash.	WAIU 640	WCAP 1280
KPPC 1210	KUJ 1370	Columbus, Ohio	WCAT 1200
Pasadena, Cal.	Walla Wal., Wash.	WALR 1210	Asbury Pk., N. J.
KPQ 1500	KUOA 1390	Zanesville, Ohio	WCAU 1170
Wenatchee, Wash.	Fayetteville, Ark.	WAPI 1140	Philadelphia, Pa.
KPEC 920	KUSD 890	Birmingham, Ala.	WCAX 1200
Houston, Texas	Vermillion, S. D.	WASH 1270	Burlington, Vt.
KPSN 1360	KUT 1500	Gr. Rapids, Mich.	WCZA 1070
Pasadena, Cal.	Austin, Texas	WAWZ 1350	Carthage, Ill.
KQV 1380	KVI 760	New York City	WCCA 1440
Pittsburgh, Pa.	Tacoma, Wash.	WBA 1400	Allentown, Pa.
KQW 1010	KVL 1370	Lafayette, Ind.	WCBD 1080
San Jose, Cal.	Seattle, Wash.	WBAK 1430	Zion, Ill.
KRE 1370	KVOA 1260	Harrisburg, Pa.	WCBM 1370
Berkeley, Cal.	Tucson, Arizona	WBAL 1060	Baltimore, Md.
KREG 1500	KVOO 1140	Baltimore, Md.	WCBS 1210
Santa Ana, Cal.	Tulsa, Okla.	WBAP 800	Springfield, Ill.
KRGV 1260	KVOS 1200	Fort Worth, Tex.	WCCO 810
Harlingen, Texas	Bellingh'm, Wash.	WBAX 1210	Minneapolis, Minn.
KRLD 1040	KWCR 1310	Wilkes-Barre, Pa.	WCDA 1350
Dallas, Texas	KWEA 1210	Brooklyn, N. Y.	New York City
KRMD 1310	Shreveport, La.	WBBL 1210	WCFE 970
Shreveport, La.	KWG 1200	Richmond, Va.	Chicago, Ill.
KROW 930	Stockton, Cal.	WBBM 770	WCGU 1400
Oakland, Cal.	KWJJ 1060	Chicago, Ill.	Brooklyn, N. Y.
KRSC 1120	Portland, Ore.	WBRE 1300	WCHI 1490
Seattle, Wash.	KWK 1350	Brooklyn, N. Y.	Chicago, Ill.
KSAC 580	St. Louis, Mo.	WBBZ 1200	WCKY 1490
Manh'tt'n, Kans.	KWKC 1370	Ponca City, Okla.	Covington, Ky.
KSCJ 1330	KWKC 1370	WBCM 1410	WCLE 1500
Sioux City, Ia.	KWKK 850	Bay City, Mich.	WCOLO 1200
KSD 550	Shreveport, La.	WBN 900	Janesville, Wis.
St. Louis, Mo.	KWLC 1270	Buffalo, N. Y.	WCLS 1310
KSET 900	Decorah, Iowa	WBEO 1310	Joliet, Ill.
Pocatello, Idaho	KWSC 1220	Marquette, Mich.	WCMA 1400
KSL 1130	Pullman, Wash.	WBGF 1370	Culver, Ind.
Salt Lake City	KWWG 1260	Glens Falls, N. Y.	WCOA 1340
KSMR 1200	Brownsville, Tex.	WBG 1440	Pensacola, Fla.
Santa Maria, Cal.	KXA 570	Greensboro, N.C.	WCOC 880
KSO 1380	Seattle, Wash.	WBIS 1230	Meridian, Miss.
Clarinda, Iowa	KXL 1420	Boston, Mass.	WCOD 1200
KSOO 1110	Portland, Ore.	WBMS 1450	Harrisburg, Pa.
Sioux Falls, S.D.	KXO 1500	Hackensack, N.J.	WCOH 1210
KSTP 1460	El Centro, Cal.	WBNX 1350	Yonkers, N. Y.
St. Paul, Minn.	KXRO 1310	New York City	WCRW 1210
KTAB 560	Aberdeen, Wash.	WBOQ 860	Chicago, Ill.
San Francisco, Cal.	KXYZ 1420	New York City	WCSC 1360
KTAP 1420	Houston, Texas	WBOV 1310	Charleston, S. C.
San Antonio, Tex.	KYA 1230	Terre Haute, Ind.	WCSH 940
KTAR 620	San Francisco, Cal.	WBRC 930	Portland, Maine
Phoenix, Ariz.	KYW 1020	Birmingham, Ala.	WDAE 1220
KTAT 1240	Chicago, Ill.	Wilkes-Barre, Pa.	Tampa, Fla.
Ft. Worth, Tex.	KZM 1370	WBSO 920	WDAF 610
KTBI 1300	Hayward, Cal.	Needham, Mass.	Kansas City, Mo.
Los Angeles, Cal.	NAA 690	WBT 1080	WDAG 1410
KTBE 1300	Arlington, Va.	Charlotte, N. C.	Amarillo, Texas
Portland, Ore.	TIC 750	WBTM 1370	WDAH 1310
KTBS 1450	San Jose, C. R.	Danville, Va.	El Paso, Texas
Shreveport, La.	VAS 685	WBZ-A 990	WDAY 940
KTFF 1320	Glace Bay, N. S.	Springfield, Mass.	Fargo, N. D.
Twin Falls, Ida.	WAAF 920		
KTFS 1040	Chicago, Ill.		
Hot Spgs., Ark.			

WDBJ 930  
 Roanoke, Va.  
 WDBO 1120  
 Orlando, Fla.  
 WDEL 1120  
 Wilmington, Del.  
 WDCY 1186  
 Minneap., Minn.  
 WDX 1500  
 Tupelo, Miss.  
 WDD 1280  
 Chattan'ga, Tenn  
 WDC 1380  
 Hartford, Conn.  
 WDBS 1250  
 New Orleans, La.  
 WDNF 1210  
 Providence, R. I.  
 WIZ 1070  
 Tuscola, Ill.  
 WFAF 860  
 New York City  
 WEAI 1270  
 Ithaca, N. Y.  
 WEAN 780  
 Providence, R. I.  
 WFAO 870  
 Columbus, Ohio  
 WECB 1290  
 Superior, Wis.  
 WEEC 1240  
 Harrisburg, Ill.  
 WEEB 1310  
 Buffalo, N. Y.  
 WEDC 1210  
 Chicago, Ill.  
 WEDH 1420  
 Erie, Pa.  
 WEI 590  
 Boston, Mass.  
 WEHC 1260  
 Emory, Va.  
 WEHS 1420  
 Cicero, Ill.  
 WELK 1376  
 Philadelphia, Pa.  
 WELL 1420  
 Battle Creek, Mich.  
 WENE 870  
 Chicago, Ill.  
 WEPS 1200  
 Worcester, Mass.  
 WEVD 1300  
 New York City  
 WEW 760  
 St. Louis, Mo.  
 WEXL 1310  
 Royal Oak, Mich.  
 WFAA 800  
 Dallas, Texas  
 WFAN 610  
 Philadelphia, Pa.  
 WFBC 1200  
 Knoxville, Tenn.  
 WFBE 1200  
 Cincinnati, Ohio  
 WFBG 1310  
 Altoona, Pa.  
 WFBL 1360  
 Syracuse, N. Y.  
 WFFM 1280  
 Indianapolis, Ind.  
 WFFR 1270  
 Baltimore, Md.  
 WFDL 1310  
 Flint, Mich.  
 WFDV 1370  
 Rome, Ga.

WFDW 1420  
 Talladega, Ala.  
 WFI 560  
 Philadelphia, Pa.  
 WFIW 940  
 Hopkinsville, Ky.  
 WFLA 620  
 Clearwater, Fla.  
 WFOX 1400  
 Brooklyn, N. Y.  
 WGAL 1319  
 Lancaster, Pa.  
 WGAR 1450  
 Cleveland, Ohio  
 WGBB 1210  
 Freeport, N. Y.  
 WGCB 1430  
 Memphis, Tenn.  
 WGBF 639  
 Evansville, Ind.  
 WGBI 880  
 Scranton, Pa.  
 WGBS 1180  
 New York City  
 WGCN 1210  
 Gulfport, Miss.  
 WGCP 1250  
 Newark, N. J.  
 WGES 1360  
 Chicago, Ill.  
 WGH 1310  
 Newp't News, Va.  
 WGL 1370  
 Ft. Wayne, Ind.  
 WGN 720  
 Chicago, Ill.  
 WGR 550  
 Buffalo, N. Y.  
 WGST 890  
 Atlanta, Ga.  
 WGY 790  
 Schenec'd'y, N.Y.  
 WHA 940  
 Madison, Wis.  
 WHAD 1120  
 Milwaukee, Wis.  
 WHAM 1150  
 Rochester, N.Y.  
 WHAP 1300  
 New York City  
 WHAS 820  
 Louisville, Ky.  
 WHAT 1310  
 Philadelphia, Pa.  
 WHAZ 1300  
 Troy, N. Y.  
 WHB 860  
 Kansas City, Mo.  
 WHBC 1200  
 Canton, Ohio  
 WHBD 1370  
 Mt. Orab, O.  
 WHBF 1210  
 Rock Island, Ill.  
 WHBL 1410  
 Sheboygan, Wis.  
 WHBQ 1370  
 Memphis, Tenn.  
 WHBU 1210  
 Anderson, Ind.  
 WHBY 1200  
 Green Bay, Wis.  
 WHDF 1370  
 Calumet, Mich.  
 WHDH 830  
 Boston, Mass.  
 WHDI 1180  
 Minneap., Minn.

WHDL 1420  
 Tupper Lake, N.Y.  
 WHEC 1440  
 Rochester, N. Y.  
 WHFC 1420  
 Cicero, Ill.  
 WHIS 1410  
 Bluefield, W. Va.  
 WHK 1390  
 Cleveland, Ohio  
 WHN 1010  
 New York City  
 WHO 1000  
 Des Moines, Ia.  
 WHOM 1450  
 Jersey City, N. J.  
 WHP 1430  
 Harrisburg, Pa.  
 WIAS 1420  
 Ottumwa, Iowa  
 WIBA 1280  
 Madison, Wis.  
 WIBG 930  
 Elkins Park, Pa.  
 WIBM 1370  
 Jackson, Mich.  
 WIBO 560  
 Chicago, Ill.  
 WIBR 1420  
 Steubenville, O.  
 WIBU 1210  
 Poynette, Wis.  
 WIBW 580  
 Topeka, Kansas  
 WIBX 1200  
 Utica, N. Y.  
 WICC 600  
 Bridgeport, Conn.  
 WIL 1200  
 St. Louis, Mo.  
 WILL 890  
 Urbana, Ill.  
 WILM 1420  
 Wilmington, Del.  
 WIOD 1300  
 Miami, Fla.  
 WIP 610  
 Philadelphia, Pa.  
 WIS 1010  
 Columbia, S. C.  
 WISJ 780  
 Madison, Wis.  
 WISN 1120  
 Milwaukee, Wis.  
 WJAC 1310  
 Johnstown, Pa.  
 WJAG 1060  
 Norfolk, Nebr.  
 WJAK 1310  
 Marion, Ind.  
 WJAR 890  
 Providence, R. I.  
 WJAS 1290  
 Pittsburgh, Pa.  
 WJAX 900  
 Jacksonville, Fla.  
 WJAY 610  
 Cleveland, Ohio  
 WJAZ 1490  
 Chicago, Ill.  
 WJBC 1200  
 La Salle, Ill.  
 WJBI 1210  
 Red Bank, N. J.  
 WJBK 1370  
 Detroit, Mich.  
 WJBL 1200  
 Decatur, Ill.

WJBO 1420  
 New Orleans, La.  
 WJBT 770  
 Chicago, Ill.  
 WJBU 1210  
 Lewisburg, Pa.  
 WJBW 1200  
 New Orleans, La.  
 WJBY 1210  
 Gadsden, Ala.  
 WJDX 1270  
 Jackson, Miss.  
 WJJD 1130  
 Mooseheart, Ill.  
 WJKS 1360  
 Gary, Ind.  
 WJR 750  
 Detroit, Mich.  
 WJSV 1460  
 Alexandria, Va.  
 WJW 1210  
 Mansfield, Ohio  
 WJZ 760  
 New York City  
 WKAQ 890  
 San Juan, P. R.  
 WKAR 1040  
 E. Lansing, Mich.  
 WKAV 1310  
 Laconia, N. H.  
 WKBB 1310  
 Joliet, Ill.  
 WKBC 1310  
 Birmingham, Ala.  
 WKBF 1400  
 Indianapolis, Ind.  
 WRBH 1380  
 La Crosse, Wis.  
 WKBI 1420  
 Chicago, Ill.  
 WKBN 570  
 Youngstown, O.  
 WKBO 1450  
 Jersey City, N. J.  
 WKBS 1310  
 Galesburg, Ill.  
 WKBV 1500  
 Connersville, Ind.  
 WKBW 1480  
 Buffalo, N. Y.  
 WKBZ 1500  
 Ludington, Mich.  
 WKJC 1200  
 Lancaster, Pa.  
 WERC 550  
 Cincinnati, O.  
 WKY 900  
 Oklahoma City  
 WKZO 590  
 Be'n Spgs., Mich.  
 WLAC 1470  
 Nashville, Tenn.  
 WLAP 1200  
 Louisville, Ky.  
 WLB 1250  
 St. Paul, Minn.  
 WLCB 1310  
 Muncie, Ind.  
 WLB 1420  
 Kansas City, Ka.  
 WLBG 1200  
 Eltrick, Va.  
 WLBL 900  
 Stevens Pt., Wis.  
 WLBW 1260  
 Oil City, Pa.  
 WLBX 1500  
 L.I. City, N.Y.

WLBZ 620 Bangor, Me.	WNBR 1430 Memphis, Tenn.	WQAM 560 Miami, Fla.	WSJS 1310 Winst.-Sal., N. C.
WLCI 1210 Ithaca, N. Y.	WNBW 1200 Carbondale, Pa.	WQAN 880 Scranton, Pa.	WSM 650 Nashville, Tenn.
WLEX 1410 Lexington, Mass.	WNBX 1200 Springfield, Vt.	WQAO 1010 New York City	WSMB 1320 New Orleans, La.
WLEY 1370 Lexington, Mass.	WNBZ 1290 SaranacLake, N.Y.	WQBC 1360 Vicksburg, Miss.	WSMK 1380 Dayton, Ohio
WLFT 560 Philadelphia, Pa.	WNJ 1450 Newark, N. J.	WQDM 1370 St. Albans, Vt.	WSOC 1210 Gastonia, N. C.
WLOE 1500 Boston, Mass.	WNOX 560 Knoxville, Tenn.	WQDX 1210 Thomasville, Ga.	WSPA 1420 Spartanburg, S.C.
WLS 870 Chicago, Ill.	WNYC 570 New York City	WRAF 1200 La Porte, Ind.	WSPD 1340 Toledo, Ohio
WLSI 1210 Providence, R. I.	WOAI 1190 San Antonio, Tex.	WRAC 1370 Williamsport, Pa.	WSSH 1410 Boston, Mass.
WLTH 1406 Brooklyn, N. Y.	WOAX 1280 Trenton, N. J.	WRAP 1310 Reading, Pa.	WSUI 950 Iowa City, Ia.
WLVA 1370 Lynchburg, Va.	WOBT 1310 Union City, Tenn.	WRAX 1020 Philadelphia, Pa.	WSUN 620 St. Petersburg, Fla.
WLW 700 Cincinnati, Ohio	WOBU 580 Charlest'n, W. Va.	WRBI 1310 Tifton, Ga.	WSVS 1370 Buffalo, N. Y.
WLWL 1100 New York City	WOC 1000 Davenport, Iowa	WRBJ 1370 Hattiesburg, Miss.	WSYB 1500 Rutland, Vt.
WMAC 570 Syracuse, N. Y.	WOCL 1210 Jamestown, N. Y.	WRBL 1200 Columbus, Ga.	WSYR 570 Syracuse, N. Y.
WMAK 1040 Buffalo, N. Y.	WODA 1250 Paterson, N. J.	WRBQ 1210 Greenville, Miss.	WTAD 1440 Quincy, Ill.
WMAL 630 Washington, D.C.	WODX 1410 Mobile, Ala.	WRBT 1370 Wilmington, N.C.	WTAG 580 Worcester, Mass.
WMAQ 670 Chicago, Ill.	WOI 640 Ames, Iowa	WRBX 1410 Roanoke, Va.	WTAM 1070 Cleveland, Ohio
WMAZ 890 Macon, Ga.	WOKO 1440 Albany, N. Y.	WRC 950 Washington, D.C.	WTAQ 1330 Eau Claire, Wis.
WMBA 1500 Newport, R. I.	WOL 1310 Washington, D.C.	WRDO 1370 Augusta, Me.	WTAR 780 Norfolk Va.
WMBC 1420 Detroit, Mich.	WOMT 1210 Manitowoc, Wis.	WRDW 1500 Augusta, Ga.	WTAW 1120 College Sta., Tex.
WMBD 1440 Peoria Hghts., Ill.	WOOD 1270 Gr. Rapids, Mich.	WRBC 600 Memphis, Tenn.	WTAX 1210 Springfield, Ill.
WMBG 1210 Richmond, Va.	WOPI 1500 Bristol, Tenn.	WRBN 1220 Lawrence, Kans.	WTBO 1420 Cumberland, Md.
WMBH 1420 Joplin, Mo.	WOQ 1300 Kansas City, Mo.	WRHM 1250 Minneapolis, Minn.	WTEL 1310 Philadelphia, Pa.
WMBI 1080 Chicago, Ill.	WOR 710 Newark, N. J.	WRJN 1370 Racine, Wis.	WTFI 1450 Toccoa, Ga.
WMBQ 1310 Auburn, N. Y.	WORC 1200 Worcester, Mass.	WRNY 1010 New York City	WTIC 1060 Hartford, Conn.
WMBJ 1500 Brooklyn, N. Y.	WOS 630 Jeff's'n City, Mo.	WROL 1310 Knoxville, Tenn.	WTMJ 620 Milwaukee, Wis.
WMBR 1370 Tampa, Fla.	WOV 1130 New York City	WRR 1280 Dallas, Texas	WTNT 1470 Nashville, Tenn.
WMC 780 Memphis, Tenn.	WOW 590 Omaha, Nebr.	WRUF 830 Gainesville, Fla.	WTOC 1260 Savannah, Ga.
WMCA 570 New York City	WOWO 1160 Ft. Wayne, Ind.	WRVA 1110 Richmond, Va.	WWAE 1200 Hammond, Ind.
WMMN 890 Fairmont, W. Va.	WPAD 1420 Paducah, Ky.	WSAI 1330 Cincinnati, Ohio	WWJ 920 Detroit, Mich.
WMPC 1500 Lapeer, Mich.	WPAP 1010 New York City	WSAJ 1310 Grove City, Pa.	WWL 850 New Orleans, La.
WMBR 1210 Jamaica, N. Y.	WPAW 1210 Pawtucket, R. I.	WSAN 1440 Allentown, Pa.	WWNC 570 Asheville, N. C.
WMSG 1350 New York City	WPCC 560 Chicago, Ill.	WSAR 1450 Fall River, Mass.	WWRL 1500 Woodside, N. Y.
WMT 600 Waterloo, Iowa	WPCH 810 New York City	WSAZ 580 Hunt'gton, W. Va.	WWSW 1500 Pittsburgh, Pa.
WNAC 1230 Boston, Mass.	WPEN 1500 Philadelphia, Pa.	WSB 740 Atlanta, Ga.	WWVA 1160 Wheeling, W. Va.
WNAD 1010 Norman, Okla.	WPGL 1100 Atl'ntic City, N.J.	WSBC 1210 Chicago, Ill.	WXYZ 1240 Detroit, Mich.
WNAX 570 Yankton, S. D.	WPOE 1370 Patchogue, N. Y.	WSBT 1230 South Bend, Ind.	XEA 1000 Guad'l'jara, Mex.
WNBF 1500 Bingh'm't'n, N.Y.	WPOB 780 Norfolk, Va.	WSEN 1210 Columbus, Ohio	XEB 1030 Mexico City
WNBH 1310 New B'd'd, Mass.	WPSB 1230 State College, Pa.	WSFA 1410 Montgomery, Ala.	XEC 1000 Toluca, Mex.
WNBO 1200 Washington, Pa.	WPTF 680 Raleigh, N. C.	WSIX 1210 Springfield, Tenn.	XED 977 Reynosa, Mex.

XEE 1000 Linares, Mex.	XEL 1000 Saltillo, Mex.	XET 680 Monterrey, Mex.	XEY 1000 Merida, Mex.
XEF 1000	XEM 730	XETA 1140	XEZ 588
Oaxaco, Mex.	Tampico, Mex.	Mexico City	Mexico City
XEFA 1250	XEN 719	XETF 680	XFC 805
Mexico City	Mexico City	Veracruz, Mex.	Agascalntes, M.
XEFE 1000	XEO 940	XETY 840	XFF 915
Laredo, Mex.	Mexico City	Mexico City	Chihuahua, Mex.
XEH 1080	XEP 1430	XEU 1000	XFG 638
Monterrey, Mex.	Laredo, Mex.	Veracruz, Mex.	Mexico City
XEI 1000	XEQ 750	XEV 1000	XFI 818
Morelia, Mex.	Junrez, Mex.	Puebla, Mex.	Mexico City
XEJ 1000	XER 650	XEW 780	XFX 860
Juarez, Mex.	Mexico City	Mexico City	Mexico City
XEK 1000	XES 890	XEX 1210	8WMC 682
Mexico City	Tampico, Mex.	Mexico City	St. Johns, N.F.
			10BP 1200
			Wingham, Ont.

INDEX BY LOCATIONS WITH MAP KEY

(Continued from page 55)

Havana W-23	50 CMBQ 1405	250 CMQ 1150
	35 CMBR 1500	700 CMW 588
	150 CMBS 790	500 CMX 890
	150 CMBT 1070	Holguin W-27
	150 CMBW 1010	30 CMKF 1363
	30 CMBX 1405	Matanzas W-24
	100 CMBY 1405	7.5 CMGB 1185
	150 CMBZ 1010	30 CMGC 1315
	500 CMC 845	5 CMGD 1140
	150 CMCA 1225	50 CMGF 977
	150 CMCB 1070	60 CMGH 1249
	15 CMCDC 1345	30 CMGI 1094
	250 CMCDF 890	Pinar del Rio W-22
	30 CMCG 1285	Sagua la Grande W-24
	15 CCMH 1285	Santa Clara W-25
	250 CCMJ 550	Santiago X-28
	15 CCMK 1500	
	250 CCMN 1225	
	225 CCMO 660	
	600 CCMQ 1150	
	20 CCMR 1285	
	5 CCMT 1500	
	50 CMCU 1345	
	250 CMCX 1010	
	15 CMCY 1345	
	3000 CMK 730	
		Tuinucu
		250 CMK 790
		500 CMHC 790
		<b>COSTA RICA</b>
		San Jose FF-23
		50 TIC 750

THE TELEVISION BAND

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

W3XK	2,000—2,100 kc.
W2XCR	5,000-----Wheaton, Md.
W2XAP	5,000-----Jersey City, N. J.
W2XCD	250-----Portable
W9XOA	5,000-----Passiac, N. J.
W2XBU	500-----Chicago, Ill.
	100-----Beacon, N. Y.
	2,100—2,200 kc.
W3XAK	5,000-----Bound Brook, N. J.
W3XAD	500-----Camden, N. J.
W2KBS	5,000-----New York, N. Y.
W2XCW	20,000-----Schenestady, N. Y.
W8XAV	20,000-----East Pittsburgh, Pa.

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

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

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

## 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 DXing five months ago. Have hooked CKWX, Vancouver, B.C.; CMBY, Havana; WBGJ, Glen Falls, N. Y.; KCRJ, Jerome, Ariz.; KDFN, Casper, Wyo.; KOB, State College, N. M.; XEH, Monterrey, Mexico; CFCY, Charlottetown, 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 keys. We turn to 630 in the Index by Frequencies and enter our dial readings for this band which on the set we are using was 72-70.

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

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

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

Our index now becomes of great value to us in identifying programs. Let us say that we hear music at 67-65 on our dials. We refer to our Index by Frequencies and Dial

Numbers and we find that we are in tune to 680 kilocycles. On this wave there are two stations: KPO at San Francisco and WPTF at Raleigh, N. C. Both of these stations have 5000 watts in power. But knowing which is the closer to our set, we can tell almost invariably which station we are hearing.

The Radio Commission has had to give the same frequency in most cases to several stations but they have distributed them geographically so they should not interfere. When two stations in the same locality have the same frequency, they are required to divide the

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

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

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

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

### INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters	76 74
EHO 800 Spokane, Wash.	Louis Warner, Inc.
WJLZ 500 Lincoln, Neb.	Yonkers Western University
WELI 500 Boston, Mass.	Edison Elev. Illuminating Co.
WOW 800 Omaha, Neb.	Woodmen of the World
WEMC 1000 Berry Springs, Mich.	Emmanuel Missionary College
600 kilocycles 499.7 meters	75 73
CFCH 250 Frongate Falls, Ont.	Abelin Power & Paper Co.
KFIU 800 Lawrence, Mo.	Bishop S. S. Thomas
KFID 500 San Diego, Calif.	Alfred Radio Corp.
WEAD 250 Baltimore, Md.	Monumental Radio Co., Inc.
WELM 250 Detroit, Mich.	Bechtel College
WELW 250 Lawrenceburg, Tenn.	Vaughan School of Music
WELC 350 Memphis, Tenn.	W.H.C. Inc.
WVIC 250 Hartford, Conn.	Travelers Insurance Co.
610 kilocycles 491.5 meters	74 72
EFRC 1000 San Francisco, Calif.	Dun Lee, Inc.
WDAF 200 Kansas City, Mo.	Kansas City Star Co.
WFAN 300 Philadelphia, Pa.	Excelsior Broadcasting Co., Inc.
WUP 100 Philadelphia, Pa.	Clebsch Bros. Co.
WDO 1000 Kansas City, Mo.	Unity School of Christianity
620 kilocycles 483.6 meters	73 71
EFAD 500 Phoenix, Ariz.	Electrical Equipment Co.
RCW 1000 Portland, Ore.	Oregonian Publishing Co.
WJLE 1000 Tampa, Fla.	Tampa Publishing Co.
WHDG 1000 Orlando, Fla.	Bullins College, Inc.
WJLH 500 Dover, Conn.	Thompson E. Gardner
WTJ3 1000 Milwaukee, Wis.	Milwaukee Journal
630 kilocycles 475.9 meters	72 70
CFCT 500 Victoria, B. C.	Victoria Broadcasting Assn.
CFCH 250 Vancouver, B. C.	W. H. King
ENLA 500 Montreal, N. B.	Canadian National Railways
WJLH 250 St. Paul, Minn.	Carlson
EFHL 250 Columbia, Mo.	Griffiths College
WJLH 250 Evansville, Ind.	Evansville on the Air, Inc.
WJLH 250 Washington, D. C.	Bl. A. Lear Co.
WJLH 250 Jefferson City, Mo.	Steele Marketing Bureau
640 kilocycles 468.5 meters	
EFH 500 Los Angeles, Calif.	Earle C. Anthony, Inc.
WALU 2000 Columbus, Ohio	American Insurance Union
650 kilocycles 461.3 meters	70 68
WSM 2000 Nashville, Tenn.	National Life & Accident Ins. Co.
660 kilocycles 454.3 meters	69 67
WJAW 2000 Omaha, Neb.	Omaha Grain Exchange
WEAF 2000 New York City	National Broadcasting Co., Inc.
670 kilocycles 447.5 meters	68 66
WMAO 2000 Chicago, Ill.	Chicago Daily News, Inc.
680 kilocycles 440.9 meters	67 65
EFH 500 San Francisco, Cal.	Halt Bros. & The Chronicle
WJLH 250 Jefferson City, Mo.	Shuman Life Insurance Co.



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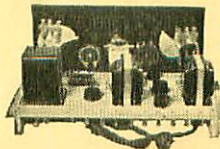
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