

THE APRIL 1931

RADIO INDEX

The Magazine that Doubles the Pleasure of Radio



25^c

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

No. 48

N. S. E.

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 illumed
The dreariest and loneliest rooms!
I never turn the dials round
But what I feel a thrill profound.

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

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

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

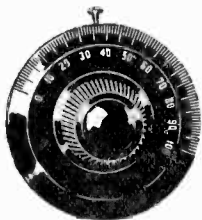
THE APRIL 1931

RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



SEVENTH YEAR

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THE RADEX PRESS

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FIGHTING Radio's Worst ENEMY

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

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

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

Home-Made Static

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

Another Article in A-B-C's

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

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

Finding the Trouble

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

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

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

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



"Onward Christian Soldiers!" So sings Seth Parker while "Ma" Parker plays the organ. These lovely 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

WELL, 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 KWKC
WOS W R BOK
WRAK NAA WAAW
G CMKC WFAA X
TAHWAD
KWCRNCFACHWK
Y M WSAIW H E
WFIWOWOCFCKWX
CRCKFBK
K KGCA CMGA O
WDSU CIT WEXL
KIT E M WMC
CKPC XEW YKCV

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

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

CKCK	CKCK
KGMP	KOMO
WDBO	WRBI
XETF	XETN

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

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

A Cipher Puzzle

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

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

Tuning TRANS-PACIFIC STATIONS

NOW 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

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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 Ralex, 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 super-heterodyne. 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-

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SEEKING Will-o'-the-Wisp STATIONS

Tuning for the Tantalizers

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

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

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

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

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

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

WLY, KTU and NAL

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

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

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

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

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

"TGW of Guatemala is given in U.S. Department of Commerce list as having 50 watts on 571 keys. TJW, 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 skits are to be published in book form with an introduction by Eddie Cantor.

Mo.? I heard them on the morning of January 26th and wrote to them for a verification, but they never answered. They said that they were using 30 watts and used the slogan, 'Where the long-eared jackasses grow, and we're proud of it.' They came in on as high a frequency above 1500 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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

The New Dixie Network

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

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

Courts Put Brakes On Radio Commission

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

LETTERS From Thirty-Five READERS

Chat From the Ether

FOR 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, CFCF, CFRB, CJGC, WLS, WOWO, WPTF, WJAC, WCBA, WHAS and WGR. Daytime reception depends, of course, upon atmospheric conditions."

Grounded Aerial Adds Five

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

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

He has 47 verifications from the west coast.

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

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

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

Cuban Conditions to Improve

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

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

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

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

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

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

Shifting Aerial Builds Log

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

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

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

IF 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

New Calls		
WWSW	1500	Pittsburgh, Pa., 100 watts.
Locations		
WOKO	1440	Poughkeepsie to Albany, N. Y.
Call Letters		
XEG	840	Mexico City, to XETY
Permit to Move		
WKZO	590	Berrien Springs to Kalamazoo
WLEX	1410	Lexington to Medford, Mass.
KFXJ	1310	Edgewater to Grand Junction
Deletions		
CHMA	580	Edmonton, Alta.
WOAN	600	Lawrenceburg, Tenn.
CJSC	690	Toronto, Ont.
CNRE	930	Edmonton, Alta.
Network Changes		
KEAP	770	NBC Discontinued.
WDAY	940	CBS Discontinued.
KOH	1380	CBS Added.
WOKO	1440	CBS Added.
Frequency		
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
Power		
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
WRWA	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
Owners		
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

EXCEPTIONS 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.

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Regular Departments in SHORT WAVE CRAFT
 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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 96-98 Park Place, New York, N. Y.

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.)

Name.....

Address.....

City..... State.....

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.			
		KGfJ	1200	100
	All day and night.			
	Pasadena	KPSN	1360	1000
	Weekdays, 7:30-8:30 a.m., 12:30-2:30 p.m., 6-7:30 p.m., PST.			
Illinois	Zion	WCBD	1080	5000
	Wed., 11-12 p.m., CST.			
Colorado	Colorado Spgs.	KFUM	1270	1000
	Thu., 8 p.m.-2 a.m., MST.			
	Sat., 11:45 p.m.-12:30 a.m., MST.			
Nevada	Reno	KOH	1380	500
	Weekdays, 8 a.m.-8 p.m., PST.			
	Sundays, 9 a.m.-9 p.m., PST.			
Rhode Island	Providence	WJAR	890	250
	Weekdays, 8 a.m.-11:30 p.m., EST.			
		WEAN	780	250
	Weekdays, 7:30 a.m.-1 a.m., EST.			
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	500	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.			

In Next Month's Issue:

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

Radio's Worst Enemy

(Continued from page 3)

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

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

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

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

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

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 keys., 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 keys., Cleveland. Also at the very top of the dial on 550 keys. 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

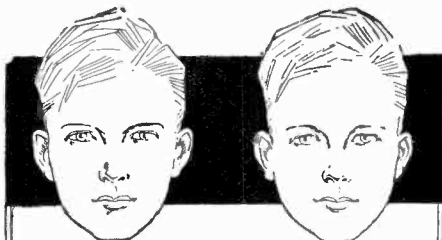
same wire in one straight line." Shearon Bonner, Jr., Woodacre, Calif.

"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 keys., or of CMHX on or about 785 keys.? It wasn't CMHC either. Both located in Havana." Orval Wyse, Archbold, Ohio.



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

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Bogue Institute for STAMMERERS

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Indianapolis, Ind.

Simple Remedies

(Continued from page 9)

complicated 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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1367 East Sixth Street,
Cleveland, Ohio.

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

- | | |
|--|--------|
| <input type="checkbox"/> One Radio Map of North America | 25c |
| <input type="checkbox"/> One copy of the next RADEX | 25c |
| <input type="checkbox"/> Trial subscription, next five issues of RADEX | \$1.00 |
| <input type="checkbox"/> One year's subscription to RADEX, 10 issues, and Radio Map free | 1.75 |
| <input type="checkbox"/> Two subscriptions to RADEX with one leatherette cover and Radio Map, both free .. | 3.50 |
| <input type="checkbox"/> One two-year subscription with leatherette cover and Radio map, both free | 3.75 |
| <input type="checkbox"/> Leatherette Cover | .50 |
| <input type="checkbox"/> One copy "Radio Trouble Shooting," by E. R. Haan | 3.00 |

Write Name Plainly

Street and Number

City and State

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

Trans-Pacific Stations

(Continued from page 7)

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

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

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

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

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

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

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

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

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

"Tell Mr. John W. Christie, Montreal, that the station he hears on 660 kcys. through WEAf'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 WEAf 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 keys. 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 keys. 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 keys. 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 keys. 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 <i>20 1/2</i>	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 <i>50</i>	KSCJ 1330 C	WCFL 970 N	WHK 1390 C	WOAI 1190 N
CKGW 690 N <i>57</i>	KSD 550 N	WCKY 1490 N	WHO 1000 N	WOC 1000 N
KDKA 980 N <i>24</i>	KSL 1130 N	WCSH 940 N	WHP 1430 C	WOKO 1440 C
KDYL 1290 C	KSTP 1460 N	WDAE 1220 C	WIBO 560 N	WORC 1200 C
KECA 1430 N	KTAR 620 N <i>70 1/2</i>	WDAF 610 N <i>75</i>	WIBW 580 C	WOW 590 N
KFAB 770 N <i>44</i>	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 680 N
KFJF 1480 C	KVI 760 C	WDRC 1330 C	WJAS 1290 C	WQAM 560 C <i>91 1/2</i>
KFKX 1020 N	KVOO 1140 N	WDSU 1250 C	WJAX 900 N	WRC 950 N
KFPY 1340 C	KWK 1350 N	WEAF 660 N <i>63</i>	WJDX 1270 N	WREC 600 C <i>78</i>
KFRC 610 C <i>75</i>	KYW 1020 N	WEAN 780 C	WJJD 1130 C	WREN 1220 N
KFSD 600 N <i>78</i>	WABC 860 C <i>33 1/2</i>	WEBC 1290 N	WJR 750 N	WRR 1280 C
KGO 790 N <i>41 1/2</i>	WACO 1240 C	WEEI 590 N <i>81</i>	WJZ 760 N	WRVA 1110 N
KGW 620 N <i>72 1/2</i>	WADC 1320 C	WENR 870 N	WKBN 570 C	WSAI 1330 N <i>9</i>
KHJ 900 C <i>30</i>	WAIU 640 C	WFAA 800 N	WKBW 1480 C	WSB 740 N
KHQ 590 N <i>81</i>	WAPI 1140 N	WFAN 610 C <i>75</i>	WKRC 550 C	WSM 650 N <i>65</i>
KLRA 1390 C	WBAL 1060 N	WFBL 1360 C	WKY 900 N	WSMB 1320 N
KLZ 560 C <i>91 1/2</i>	WBAP 800 N	WFBM 1230 C	WLAC 1470 C	WSPD 1340 C
KMBC 950 C	WBBM 770 C <i>44</i>	WFI 560 N <i>113</i>	WLBW 1260 C	WSUN 620 N <i>70 1/2</i>
KMOX 1090 C	WBCM 1410 C	WFLA 620 N <i>72 1/2</i>	WLBZ 620 C	WTAG 580 N
KOA 830 N <i>36 1/2</i>	WBEN 900 N <i>30</i>	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 <i>18</i>	WGN 720 N	WLW 700 N <i>55</i>	WTAR 780 C <i>43</i>
KOIN 940 C	WBZ-A 990 N	WGR 550 C <i>96</i>	WMAL 630 C <i>70</i>	WTIC 1060 N
KOL 1270 C	WCAE 1220 N	WGST 890 C	WMAQ 670 C	WTMJ 620 N <i>72 1/2</i>
KOMO 920 N	WCAH 1430 C	WGY 790 N	WMC 780 N	WTOC 1260 C
KPO 680 N <i>59</i>	WCAO 600 C	WHAM 1150 N	WMT 600 C <i>78</i>	WWJ 920 N
				WWNC 570 C <i>88</i>
				WXYZ 1240 C <i>12</i>

WHAT'S ON THE AIR TONIGHT?

A WEEKLY CALENDAR

Leading Features of the Network Program

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

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

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

Daily (Except Saturday and Sunday)

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

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

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

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

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

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

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

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

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

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

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

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

2:30-3:00 American School of the Air
WABC WFLB WKBW WEAN WNAC WCAU
WAS WLBW WMAL WCAO WTAR WDBJ
WADC WTK WKRC WUNC WGST WXYZ
WSPD WDOD WREC WLAC WBRC WDSU
WOWO WFBM WMAQ WCCO KMOX KMBC
KOIL KFJF KRLD K TSA KLZ KDYL
KVI KOL KFPY KOIN KHJ KPRC

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

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

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

6:45-7:00 Uncle Abe and David
WEAF WEEI WJAR WCSH WFI WRC
WTMJ WSM WEBC 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 WEBC KOA KSL KGO
KECA KGW WRC KOMO KHQ KFSD
KTAR WGAR WSMB WSB WPTF WJAX
WIOD WFLA WHAS WSM WMC WJDX
KTHS KPRC WOAI

8:00-8:15 Literary Digest Topics
WFLB WGR WJAS WADC WHK WGST
WXYZ WSPD WREC WBRC WDSU WFBM
WGL WMAQ WCCO WMOX KMBC KOIL
KFJF WRR K TSA

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

11:15-11:30 Arthur Pryor's Cremona Military Band
WADC WKBW WKRC WHK WOWO KMBC
WLBW KOIL WJAS KMOX WFLB WSPD
WGST WBCM WBRC WDOD WRR KLZ
KOIN KOL KFPY WHP KTRH WFBM
KLRA WCCO WISN WREC WCAH WLAC
WDSU KFJF KSCJ K TSA KDYL WIBW
WMT KFH WKBN WNAX KOH WTQA
WLAP WOKO WACO

Sunday

1:00-2:00 National Oratorio Society
WEAF WJAR WCSH WRC WGY WCAE
WTAM WWJ KSD WOV 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 WFAN WMAL
 WTR WRNC 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 WTR
 WDBJ WKRC WWNC WXYZ WBCM WDOD
 WREC WLAC WBRC WFBM WMAQ WBBM
 KSCJ WMT KMBC WDAY KOIL WIBW
 KFJ KFJF KRLLD 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 WSBM KTHS KVOO
 WFAA KPRC WOAI WKY KOA KSL
 KPO KECA KGW KHQ KTRAR KFSD

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

3:00-4:00 National Youth Conference
 WJZ WBAL KDKA KWK WREN KFAB
 WRVA WJAX WIOD KVOO WFAA WOAI
 WFLA WSUN KGW WPTF KGO KOA
 KSTP WEBC WMC WSBM 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
 WTR WDBJ WKRC WAIU WWNC WXYZ
 WBCM WSPD WDOD WREC WLAC WBRC
 WFBM WMAQ WCCO KSCJ WMT KMOX
 KMBC WDAY KOIL WIBW KFJ KFJF
 KRLLD KTRH KLZ KFRC

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

4:00-5:00 Dr. S. Parkes Cadman
 WEA WEEI WJAR WCSH WTAG KOA
 WOV WKY WOAI WSAI WJAX WHAS
 WJDX KVOO KPRC WEBC WDAF WWJ
 WFLA WSUN KHQ WHO WOC KGO
 KOMO WCAE WFJC WRC KGW WPTF
 WMC WGY WSM KTHS WBAP WSB
 WSBM 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 WOWO WMAQ KOIL KRLLD WRR

5:00-6:00 Davey Hour
 WEA WJAR WTAG WCSH WFI WRC
 WGY WCAE WTAM KSD WSAI WENR
 WOC WHO WOV WDAF CKGW WBEN
 WEEI WJH

5:00-6:00 National Vespers
 WJZ WBAL WHAM KWK WREN WCKY
 KSTP WEBC WIOD WMC KOMO WJDX
 WPTF KVOO KPRC WFLA WSUN KOA
 KTRAR KGO KGW KHQ WSM WKY
 WSB WOAI WAPI WSBM 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
 WFAN WCAU WJAS WMAL WADC WKRC
 WXYZ WSPD WOWO WBBM KMBC KOIL

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

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

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

7:30-8:00 RCA Victor Program
 WEA WJAR WTAG WCSH WWJ KPRC
 WBEN WRC WGY WCAE WTAM WSAI
 KYW WRVA WIOD WFLA WSUN WBS
 KSD WDAF WTMJ WEBC WMC WHAS
 WSBM WJDX KTHS KVOO WOAI WKY
 KOA KSL KGO KFI KTRAR KFSD
 KGW KOMO KHQ

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

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

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

8:15-8:30 Rhythm Choristers - Freddie Rich
 WABC WHEC WEAN WNAC WCAU WJAS
 WMAL WCAO WTR WADC WHK WWNC
 WSPD WDOD WDSU WISN WTAQ WCCO
 KMBC KRLLD 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 WTR WADC WHK WWNC WXYZ
 WSPD WDOD WDSU WISN WTAQ KMOX
 KLZ KOH CFRB

9:00-9:15 "Our Government" David Lawrence
 WEA WJAR WTAG WCSH WRC WGY WHAS
 KSD WKY WSAI WFJC WSB WMC
 WSM WFAA WOV WOAI WSBM WJDX
 WIOD WFLA WSUN WOC WHO WRC
 WWJ KVOO WLIT WBN WJAR

9:00-9:30 Coty Playgirl - Irene Bordon
 WABC WFBL WGR WEAN WDRC WNAC
 WCAU WJAS WMAL WCAO WADC WHK
 WKRC WXYZ WSPD WOWO WBBM KMOX
 KMBC KOIL

9:15-10:15 Atwater Kent Hour
 WEA WEEI WRC WFI WGY WCAE
 WTAM WWJ WSAI KSD WOV WSM
 WFAA KOA WOAI WSBM 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-Page Hour
 WABC WFBL WKBW WEAN WDRC WNAC
 WCAU WJAS WMAL WCAO WADC WHK
 WKRC WBT WGST WIOC WQAM WDBO
 WDAE WXYZ WSPD WREC WDSU WOWO
 WBBM WCCO KMOX KMBC KOIL KFJF
 KRLLD KTRH KTRAR KLZ KDYL KOL
 KFPY KOIN KHJ KFRC

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

10:15-10:30 Boswell Sisters
 WJZ WHAM WJAR WDC KDKA KWK WREN
 WTMJ WOAI WBZ WBZA

10:15-10:45 National Dairy Productions
 WEAJ WEEI WJAR WTIC WTAG WCSH
 WFI WRC WGY WBNB WCAE WTAM
 WWJ WSAI WOW WDAF WSB WAPI
 WSMB WJDX WRVA WJAX WIOD WFLA
 WSUN WHAS WSM WMC

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

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

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

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

Monday

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

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

4:00-4:30 Dance Orchestra
 WJZ WBAL KSTP 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 WTAR WDBJ
 WAU WUNC WXYZ WBCM WSPD WDOD
 WREC WLAC WSBM WCCO KSCJ WMT
 KMOX KMBC WDAY KOIL KFJF KRLL
 KTRH KLZ KOL KPRC CFB

4:30-5:00 Wardman Park Hotel Orchestra
 WABC WLWB WEAN WNAC WORC WPG
 WJAS WHP WLWB WMAL WCAO WTAR
 WDBJ WKRC WAU WUNC WXYZ WBCM
 WSPD WDOD WREC WLAC WBRB WCCO
 KSCJ KMOX KMBC WDAY KOIL WIBW
 KFJF KRLL KTRH KTSA KLZ KOL

6:00-6:30 Gordon Kibbler's Orchestra
 WABC WFLB WDRB WFAN WHP WLWB
 WMAL WCAO WTAR WDBJ WADC WKBW
 WBT WXYZ WBCM WREC WLAC WBRB
 WISN WFBM WGL WBBM WCCO KSCJ
 KLRA WDAY KFJF KRLL KTRH KLZ
 KVI KOL KPFP KHJ KPRC CFB

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 WUNC WXYZ WBCM WDOD
 WBRB KSCJ WMT WDAY KOIL WABC
 WHEC WLWB WORC WHP WJAS WLWB
 WMAL WCAO WTAR WIBW KFJH KFJF
 KTRH KOL KPRC

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

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

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

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

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

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

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 WFLB WGR WEAN WDRB WNAC
 WORC WPG WCAU WJAS WLWB WMAL
 WCAO WTAR WDBJ WADC WIK WKRC
 WAU WUNC WBT WGST WXYZ WBCM
 WSPD WREC WLAC WBRB WDSU WTAQ
 WOWO WFBM WMAQ WJDX WCCO KSCJ
 WMT KMOX KMBC KOIL WIBW KFJH
 KFJF WRR KTRH KLZ KDYL KOL
 KPFP KOIN KHJ KPRC CFB

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 WFLB WHEC WKBW WLWB WEAN
 WDRB WNAC WORC WPG WCAU WHP
 WJAS WLWB WMAL WCAO WTAR WDBJ
 WADC WHK WKRC WUNC WBT WGST
 WTIC WQAM WDBO WDAE WXYZ WBCM
 WSPD WDOD WREC WLAC WBRB WDSU
 WISN WOWO WFBM WMAQ WCCO KSCJ
 WMT KMOX KMBC KLRA WDAY WNAX
 KOIL WIBW KFJH KFJF WRR KTRH
 KTSA KLZ KDYL KOL KPFP KOIN
 KHJ KPRC

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

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

9:30-10:00 Bourjois
 WABC WFLB 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 WFLB WKBW WEAN WDRB WNAC
 WCAU WJAS WMAL WCAO WADC WHK
 WKRC WXYZ WSPD WOWO WFBM WMAQ
 WCCO KMOX KMBC KOIL KFJF KRLL
 KTRH KTSA KLZ KDYL KVI KOL
 KPFP KOIN KHJ KPRC

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 **KPRC** **KGO** **KFI** **WKCY** **KGW**
KHQ **KOMO** **WJDX** **WFLA** **WSUN** **WJR**
KTAR **KFSO** **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** **WBZA** **WHAM** **KDKA** **WJR**
WLW **KYW** **KWK** **WREN** **WTMJ** **WOAI**
KSTP **WIBC** **KOA** **KSL** **KGO** **KECA**
KGW **KOMO** **KHQ** **KTAR** **KFSO** **WKY**
WEAF **KPRC** **WGAR**
10:30-11:00 **Don Amazo**
WCAU **WHP** **WJAS** **WLBW** **WADC** **WHK**
WKRC **WCAH** **WKBN** **WSPD** **WISN** **WBBM**
WCCO **KSCJ** **WMT** **WDAY** **WVAX** **KOIL**
KLZ **KDYL** **KOL** **KFPY** **KOIN** **KHJ**
KRC **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 **WKWB** **WGR** **WEAN** **WDRG** **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**
WBW **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**
WOD
11:30-12:00 **Henry Busse and his Orchestra**
WEAF **WWJ** **KSD** **WOC** **WHO** **WOW**
WDAF **KSTP** **WIBC** **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** **WBZA** **WHAM** **WLW** **WREN**
KFKX **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** **KSCJ**
WMT **KMOX** **KMBC** **WDAY** **KOIL** **KFJF**
KTRH **KTSA** **KLZ** **KFCR** **CFRB**
4:00-5:00 **Pacific Vagabonds**
WJZ **WHAM** **WJR** **WGR** **WLW** **WLS**
KWK **KFAB** **WREN** **WRC** **WJAX** **WSM**
WMC **WAPI** **WFAA** **KSTP** **KOA** **KGO**
KFSO **KTAR**
5:00-5:15 **Rhythm Kings**
WABC **WHCC** **WFAN** **WHP** **WLBW** **WMAL**
WCAO **WTAR** **WAIU** **WWNC** **WXYZ** **WBCM**
WDOD **WREC** **WLAC** **WBRC** **WCCO** **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** **KFSO** **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** **KFCR**
7:30-8:00 **Soconyland 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** **KTHS** **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** **KFSO** **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** **WDAF** **KOA**
WEEI **WJAR** **WTAG** **WCSH** **WFI** **WRC**
WGY **WBEN**
8:15-8:30 **Old Gold Character Readings**
WABC **WFBL** **WHCC** **WGR** **WLBZ** **WEAN**
WDRG **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 **WJJD** **WCCO** **KSCJ** **WMT** **KMOX**
KMBC **KLRA** **WDAY** **WNAX** **KOIL** **WIBW**
KFH **KFJF** **WRR** **KTRH** **KTSA** **KLZ**
KDYL **KVI** **KOL** **KFPY** **KOIN** **KHJ**
KFCR
8:30-9:00 **Florsheim Frolic**
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** **KTHS** **WJAR**
WHAS **WCSH** **WBAP** **WBEN** **KSTP**
8:45-9:00 **Lee Morse — Nat Brusiloff's Orchestra**
WABC **WFBL** **WKWB** **WEAN** **WDRG** **WNAC**
WCAU **WJAS** **WMAL** **WCAO** **WADC** **WHK**
WKRC **WGST** **WTOC** **WQAM** **WDBO** **WDAE**
WXYZ **WSPD** **WLAC** **WBRC** **WDSU** **WOWO** **WMAQ**
WCCO **KMOX** **KMBC** **KOIL** **KTRH** **KLZ**
KDYL **KVI** **KOL** **KFPY** **KOIN** **KHJ**
KFCR
9:00-9:30 **Household Celebrities Program**
WJZ **WBZ** **WBZA** **WBAL** **WHAM** **KDKA**
WJR **KWK** **WREN** **WJR**
9:00-9:30 **McKesson 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**
KFSO **KGW** **KOMO** **KHQ** **KVOO** **WOAI**
KYW
9:00-9:30 **Henry-George**
WABC **WFBL** **WGR** **WEAN** **WDRG** **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** **WHCC** **WKWB** **WEAN** **WDRG**
WNAC **WCAU** **WJAS** **WMAL** **WCAO** **WTAR**
WADC **WHK** **WKRC** **WGST** **WXYZ** **WSPD**
WDOD **WREC** **WLAC** **WBRC** **WDSU** **WISN**
WOWO **WFBM** **WMAQ** **WCCO** **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** **WKWB** **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** **WHCC**
WDBJ **KTSA** **KDYL** **KFH** **WKBN** **KHJ**
KOIN **KFCR** **KOL** **KFPY**

10:00-11:00 **Lucky Strike Dance Orchestra**
 WFAF WEEL WJAR WTAG WCSH WFI
 WRC WCAE WWJ WSAI KSD WOC
 WHO WTMJ WEBC WRVA WJAX WIOD
 WFLA WSUN WHAS WSM WMC WSB
 WSMB WJDX WOAI WKY KOA KGO
 KECA KGW KHQ KOMO KTRR KFSD
 WBO WDAF WTAM WAPI WBN

10:15-10:30 **Blue Ribbon Malt Jester**
 WABC WFBL WGR WEAN WDRC WNAAC
 WCAU WJAS WMAL WCAO WADC WHK
 WKRC WBT WXYZ WSPD WLAC WBRC
 WDSU WOWO WMAQ WCCO KMBC KLRA
 KOIL KFH KRLD K TSA 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 Publix Playhouse**
 WABC WFBL WHEC WKWB WLBJ WEAN
 WDRC WNAAC WPG WCAU WHP WJAS
 WMAL WCAO WTAR WDBJ WADC WHK
 WKRC WKBN WDAE WBT WGST WTOC
 WQAM WDBO WDAE WXYZ WBCM WSPD
 WDDO WREC WLAC WBRC WDSU WISN
 WOWO WFBM WBBM WCCO KSCJ WMT
 KMOX KLRA WDAY WNAK KOIL WIBW
 KFH KFJF KRLD KTRH K TSA KLZ
 KDYL KOL KFPY KOIN KHJ KFRC
 KNYL CFRB

11:00-11:15 **Paul Tremaine and His Orchestra**
 WABC WHEC WLBJ WEAN WNAAC WORC
 WCAU WHP WLWB WCAO WTAR WDBJ
 WNBC WXYZ WSPD WDDO WREC WLAC
 WFBM WCCO WMT KMOX KMBC WDAY
 WNAK KOIL WIBW KFH KFJF KTRH
 KLZ KOL CFRB

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

Wednesday

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

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

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

4:00-5:00 **U.S. Navy Band**
 WABC WGR WEAN WNAAC WPG WCAU
 WLWB WMAL WCAO WTAR WADC WNBC
 WXYZ WSPD WDDO WLAC WDSU WISN
 WTAQ WFBM WCCO KMOX KMBC KRLD
 WACO KLZ KOH KFCR CFRB

7:00-7:30 **Morton Downey — With Freddie Rich**
 WABC WHEC WLBJ WEAN WNAAC WORC
 WCAU WHP WJAS WLWB WMAL WCAO
 WTAR WDBJ WKRC WAU WNNC WXYZ
 WBCM WDDO WLAC WBRC KSCJ WDAY
 WIBW KFJF KTRH KOL KFCR

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

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

7:45-8:00 **"Back in the News in Washington"**
 WFAF WRC KOA KECA KGO WGY
 WCAE WFCB WBN WRVA WKY KOMO
 KFSD WSAI WBO KSD WOC WHO
 WOW WDAF WAPI

7:45-8:00 **Daddy and Rollo**
 WABC WFBL WKWB WEAN WNAAC WCAU
 WJAS WLWB WMAL WCAO WADC WKRC
 WXYZ WSPD WREC WISN WFBM WGL
 WMAQ WCCO KMOX KOIL WRHM

8:00-8:15 **Listerine Program — Bobby Jones**
 WFAF WEEL WTIC WJAR WTAG WCSH
 WLIT WRC WBN WTAM WWJ WSAI
 KSD WOC WHO WOW WPTF WIOD
 WFLA WSUN WHAS WSM WSB WSMB

8:15-8:30 **Radiotron Varieties**
 WFAF WTIC WJAR WTAG WRC WBN
 WTAM WSAI WBO KSD WOW WIOD
 WSM WSB WSMB WJDX WOAI KOA
 KHQ KOMO KFSD KTRR KECA KSL
 KGO KOA KVOO

8:30-9:00 **Mobiloil Concert**
 WFAF WEEL WJAR WTAG WCSH WLIT
 WRC WSAI KSD WOW WTAM KOA
 KVOO WFAA WOAI WKY KPRC WTIC
 KSL WGY WGN WEBC WDAF WCAE
 WHO WOC WWJ WBN

8:30-9:00 **The Sunkist Musical Cocktail**
 WABC WFBL WGR WEAN WDRC WNAAC
 WFN WCAU WJAS WMAL WCAO WADC
 WHK WKRC WXYZ WSPD WOWO WJDX
 KMOX KMBC KOIL KLZ KDYL KOL
 KFPY KOIN KHJ KFCR

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

9:00-9:30 **Gold Medal Fast Freight**
 WABC WFBL WKWB WEAN WDRC WNAAC
 WCAU WJAS WMAL WCAO WTAR WDBJ
 WADC WHK WKRC WCAH WXYZ WSPD
 WLAP WREC WLAC WISN WOWO WFBM
 WMAQ WCCO KSCJ KMOX KMBC KOIL
 KFH KFJF KRLD KLZ KDYL KOL
 KFPY KOIN KHJ KFCR KMY

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

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

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

9:30-10:00 **Savino Tone Pictures**
 WABC WKWB WNAAC WPG WFN WJAS
 WLWB WMAL WTAR WNNC WXYZ WDDO
 WLAC WDSU WISN WTAQ WCCO KMOX
 KMBC KFH WACO KLZ KFCR CFRB

10:00-10:15 **Vitality Personalities**
 WABC WADC WJAS WNAAC WKWB WBBM
 WKRC WBT WXYZ WOW KMBC KOIL
 WCAU WEAN KMOX WFLB WSPD WMAL
 WDRC WGST WBRC WRR KTRH WFBM
 KLRA WISN WCAH WLAC WDSU KEFJ
 K TSA KDYL KHJ KOIN KFCR KOL
 KFPY

WISN	WOWO	KSCJ	KMOX	WDAY	WNAX	WHAS	KYW	WEBC	WCKY	WSM	WRVA
KOIL	WIBW	KFJF	KRLD	KTRH	KTSA	WSB	WAPI	WOAI	KOA	KSL	KGO
KLZ	CFRB					KECA	KGW	KOMO	KHQ	KFSD	KTAR
11:00-11:15	Ben Bernie and His Orchestra										
WABC	WHBC	WLBZ	WEAN	WNAC	WORC	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WCAU	WHP	WLBW	WMAL	WCAO	WTAR	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WDBJ	WWNC	WXYZ	WBCM	WSPD	WDOD	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
WREC	WLAC	WBRC	WFBM	WCCO	WMT	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
KMOX	KMBC	WDAY	WNAX	KOIL	WIBW	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
KFH	KFJF	KTRH	KTSA	KLZ	KOL	KMBC	KOIL				
CFRB											
11:15-12:00	Cab Calloway and his Orchestra										
WEAF	WWJ	WOW	WFI	KSTP	WJDX	WEAF	WEEL	WJAR	WTAG	WCSH	WRC
WDAF	WTAM	WOC	WHO	WIBO	WGY	WLIT	WGY	WBNB	WCAE	WWJ	WSAI
WCAE						WENR	KSD	WOC	WHO	WOW	WDAF
						CKGW	WTAM	CFCF			
11:30-12:00	Radio Roundup										
WABC	WKBW	WEAN	WNAC	WPG	WCAU	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WLBW	WMAL	WCAO	WTAR	WADC	WWNC	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WXYZ	WSPD	WDOD	WLAC	WDSU	WISN	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WTAQ	WCCO	KMBC	KFH	WACO	KLZ	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
CFRB						WMT	KMBC	KOIL			

Friday

4:00-5:00	Dancing Melodies										
WEAF	WTAG	WCAE	WFJC	WTAM	WWJ	WEAF	WEEL	WJAR	WTAG	WCSH	WRC
WOC	WHO	WOW	WDAF	WBEN		WLIT	WGY	WBNB	WCAE	KSD	WOC
						WHO	WDAF	WCAE	WTAM	WWJ	WOW
4:45-5:00	Rhythm Ramblers										
WABC	WGR	WEAN	WNAC	WPG	WLBW	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WMAL	WTAR	WADC	WWNC	WXYZ	WSPD	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WDOD	WLAC	WDSU	WISN	WTAQ	WCCO	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
KMOX	KMBC	KRLD	WACO	KLZ	KOH	WMT	KMBC	KOIL			
KFRC	CFRB										
5:00-5:45	Light Opera Gems										
WABC	WKBW	WGR	WDRC	WHP	WJAS	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WLBW	WCAO	WTAR	WAIU	WKBW	WBT	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WXYZ	WBCM	WSPD	WREC	WLAC	WBRC	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
WISN	WGL	WCCO	KSCJ	KMOX	WDAY	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
KOIL	KFH	KFJF	KRLD	KTRH	KTSA	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
KLZ	CFRB					WMT	KMBC	KOIL			
6:00-6:45	Winegar's Barn Orchestra										
WABC	WGR	WFAN	WJAS	WLBW	WCAO	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WTAR	WADC	WWNC	WDOD	WLAC	WDSU	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WISN	WTAQ	WBBM	KFH	KRLD	KLZ	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
KOH	KFRC					WMT	KMBC	KOIL			
7:00-8:00	Major Bowes' Family										
WEAF	WJAR	WCSH	WLIT	WBEN	WCAE	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WWJ	WENR	WOC	WHO	KSTP	WHAS	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WMC	WSB	WSMB	KOA	KGO	KECA	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
KGW	KOMO	KTAR				WMT	KMBC	KOIL			
7:45-8:00	Brownbilt Footlites										
WJZ	WBZ	WBZA	WREN	KWK	KFAB	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WTMJ	WEBC	WRVA	WPTF	WJAX	WIOD	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WFLA	WSUN	WHAS	WSM	WAPI	WSMB	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
WJDX	WOAI	WIBO	KOA	KSL	KDKA	WMT	KMBC	KOIL			
WSB	WLW	KSTP	WGAR								
8:00-8:30	Nestle's Program										
WJZ	WBZ	WBZA	WHAM	WIBO	KWK	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WREN	KFAB	WJR	WLW	KDKA	WGAR	WCAU	WJAS	WMAL	WCAO	WADC	WHK
8:00-9:00	Cities Service Concert Orchestra										
WEAF	WEEL	WTIC	WLIT	WRC	WCAE	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WJAR	WCSH	WOW	KYW	KSD	WDAF	WCAU	WJAS	WMAL	WCAO	WADC	WHK
KSTP	WTMJ	WKY	WOC	KOA	WEBC	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
WOAI	KOMO	KGO	KGW	KHQ	KSL	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WTAG	CKGW	KECA	WHO	WSAI	WTAM	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
WBEN	WWJ	(WFAA	KPRC	off 8:30)		WMT	KMBC	KOIL			
8:30-9:00	The Dutch Masters										
WABC	WFBL	WGR	WEAN	WDRC	WNAC	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WCAU	WJAS	WMAL	WCAO	WADC	WKRC	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WXYZ	WSPD	WBBM	WCCO	KMOX	KMBC	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
KOIL						WMT	KMBC	KOIL			
8:45-9:00	Natural Bridge Revue										
WJZ	WHAM	KDKA	KWK	WREN	WJAX	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WIOD	WIBO	WBZ	WBZA	WFLA	WSUN	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WRVA	WJR					WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
9:00-9:30	Clicquot Club Eskimos										
WEAF	WEEL	WTIC	WJAR	WTAG	WCSH	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WLIT	WRC	WOW	WCAE	WSAI	WIBO	WCAU	WJAS	WMAL	WCAO	WADC	WHK
KSD	WWJ	WDAF	WOC	WHO	WGY	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
WBEN						WMT	KMBC	KOIL			
9:00-9:30	Interwoven Pair										
WJZ	WHAM	WMC	KDKA	WJAX	WKY	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WREN	KPRC	KWK	WBZ	WBZA	KGW	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WSMB	WIOD	WFAA	WJR	WTMJ	KSTP	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX

Saturday

1:30-2:00	Savoy Plaza Orchestra										
WABC	WHBC	WLBZ	WEAN	WCAU	WHP	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WJAS	WMAL	WCAO	WTAR	WDBJ	WHK	WCAU	WJAS	WMAL	WCAO	WADC	WHK
WAIU	WWNC	WXYZ	WBCM	WSPD	WDOD	WKRC	WXYZ	WSPD	WOWO	WMAQ	KMOX
WLAC	WBRC	WIBW	CFRB			WMT	KMBC	KOIL			

4:30-5:00 Spanish Serenade

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

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

WJZ KWK WHAM KDKA WMC WSB
WSMB

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

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

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

WJZ WBZ WBZA WRC KFAB KWK

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

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

7:15-7:30 Laws That Safeguard Society

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

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 KFCR

7:30-7:45 Snoop and Peep

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

7:30-7:45 Rose of the Goldbergs

WJZ WHAM KWK WREN WIBO WSB
WJDX WSMB WAPI WGAR

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

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

7:45-8:00 Pickard Family

WJZ WHAM KWK WREN WIBO WGAR

8:00-8:15 Dixies Circus

WJZ WBAL KDKA KYW WHAM WBZ
WBZA WQAI KSTP KPRC WKY CKGW
WGAR

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

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

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

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

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

WJZ WHAM WBAL KDKA WREN KFAB
KWK WBZ WBZA KYW WGAR

8:15-8:30 Radiotron Varieties

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

8:30-9:00 The Silver Flute

WEAF WEEL WTAG WCSH WRC WFI
WGY WCAE WWJ WSAI KSD WDAF
WIOD

8:30-9:00 Fuller Man

WJZ WBZ WBZA WBAL WHAM KDKA
WJR KWK WREN KOA CKGW WHAS
KPRC KGO KECA KGW KOMO KFAB
KHQ WIBO WKY WTMJ WMC WEBC
WSB WAPI WSMB WLW WJDX KSTP

8:45-9:00 The Early Bookworm

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

9:00-9:30 Around the Samovar

WABC WKBW WEAN WNAC WJAS WLBW
WTAR WWNC WXYZ WSPD WDOO WLAC
WDSU WISN WTAQ WMAQ KMOX KMBC
KFH KIL CFRB

9:00-10:00 General Electric Hour

WEAF WEEL WJAR WTAG WCSH WFI
WRC WGY WBEN WCAE WTAM WWJ
WSAI WIBO KSD WOC WOW WDAF
WTMJ WKY KSTP WEBC WRVA WJAX
WHAS WMC WSB WAPI WSMB WBAB
KPRC WQAI 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 KFCR

10:00-10:30 Cuckoo

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

10:00-11:00 Lucky Strike Dance Orchestra

WEAF WEEL WJAR WTAG WCSH WFI
WRC WGY WBEN WCAE WTAM WWJ
WSAI WGN KSD WHO WOC WOW
WDAF WTMJ KSTP WEBC WRVA WJAX
WIOD WFLA WSUN WHAS WMC WSB
WSM WJDX KVOO WFAA KPRC WQAI
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 WBNW WXYZ
WBCM WSPD WOOD WLAC WBRC WFBM
WMAQ WCCO KSCJ WMT KFH KFCR
WDAY WNAX KOIL WIBW KFH KFJF
KRLL KTRH K TSA KLZ KOL KFCR

11:00-11:15 Troubadour of the Moon

WEAF WFI WCAE WWJ WSAI WOC
WHO WOV

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

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

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

WEAF WRC KSTP KPRC WSB WMC
WBEN KOA (WTAM KSD on 12:30)

INDEX BY FREQUENCIES AND DIAL NUMBERS

NOTICE OF COPYRIGHT

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

KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: * Verifies receptions 2c; sends station stamp 10c; † Verifies 2c; no stamp; ‡ Does not verify; § Did not reply. Third column shows night power in watts. Fourth column symbols: D, daytime only; S, Sunday only; Stations dividing time have same small figures; X means station has been granted permit to increase power; + means station has greater power during day; CP indicates station has construction permit only; Some Cuban and Mexican stations have odd frequencies; Correct kilocycles shown in small figures; N means NBC chain; C means Columbia chain; Z has been granted permit to change frequency; Y given permit to move to another city. Dn—This daylight station may use evening hours under certain conditions. Dashes (--) have no meaning.

540 kilocycles 555.6 meters

CKX † 500 --- Brandon, Manitoba

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Manitoba Telephone System

550 kilocycles 545.1 meters

CMCJ	--	250	---	Havana, Cuba
KFDY	†	500	1+	Brookings, S. D.
KFUO	*	500	2+	St. Louis, Mo.
KFYR	†	1000	1+	Bismarck, N. D.
KOAC	†	1000	---	Corvallis, Ore.
KSD	†	500	2N	St. Louis, Mo.
WGR	*	1000	C	Buffalo, N. Y.
WKRC	†	1000	C	Cincinnati, Ohio

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

560 kilocycles 535.4 meters

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

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

570 kilocycles 526.0 meters

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

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

580 kilocycles 516.9 meters

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

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

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590 kilocycles 508.2 meters

CMW	--	700	588	Havana, Cuba
KHQ	--	1000	+N	Spokane, Wash.
WCAJ	*	500	1	Lincoln, Nebr.
WEEI	†	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.
KFSO	*	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.
WVAN	*	500	2C	Philadelphia, Pa.
WIP	*	500	2	Philadelphia, Pa.
WJAY	†	500	D	Cleveland, Ohio

75		
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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.

783		
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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.
WGBF	†	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.
CMHJ	--	40	645	Cienfuegos, Cuba
KFI	--	5000	NX	Los Angeles, Cal.
WAIU	*	500	C Dn	Columbus, Ohio
WOI	*	5000	D	Ames, Iowa
XFG	--	2000	638	Mexico City

773		
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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

65		
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Queen City Broadcasting Co.
National Life & Accident Ins. Co.
Armida y Cia.

660 kilocycles 454.3 meters

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

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

670 kilocycles 447.5 meters

WMAQ	*	5000	C	Chicago, Ill.
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WMAQ, Inc

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680 kilocycles 440.9 meters

KFEQ	*	2500	D	St. Joseph, Mo.
KPO	†	5000	N	San Francisco, Cal.
-WPTF	*	1000	N Dn	Raleigh, N. C.
XETF	--	500	---	Veracruz, Mex.
8WMC	--	500	682	St. Johns, N. F.

39			
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Scroggin & Co., Bank
 Hale Bros. & The Chronicle
 Durham Life Insurance Co.
 Manuel Angel Fernandez & Cia.
 Wesley United Church

690 kilocycles 434.5 meters

CFAC	--	500	1	Calgary, Alta.
CFCN	--	500	1	Calgary, Alta.
CHCA	*	500	1	Calgary, Alta.
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.

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

700 kilocycles 428.3 meters

-WLW	*	50000	N	Cincinnati, Ohio
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35			
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Crosley Radio Corp.

710 kilocycles 422.3 meters

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

33			
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R. S. MacMillan
 Bamberger Broadcasting Service, Inc.

720 kilocycles 416.4 meters

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

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Chicago Tribune
 Cia. Civil de Inversiones

730 kilocycles 410.7 meters

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

30			
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W. G. Hassell
 Northern Electric Co., Ltd.
 La Presse Publishing Co., Ltd.
 Vancouver Daily Province
 United Church of Canada
 Sprout-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.

485			
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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.

47			
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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

45			
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Puget Sound Broadcasting Co., Inc.
 St. Louis University
 National Broadcasting Co., Inc.

770 kilocycles 389.4 meters

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

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

780 kilocycles 384.4 meters

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

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

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WISJ	--	250	+	Madison, Wis.	Wisconsin State Journal Bdcsg. Co.
-WMC	--	500	+N	Memphis, Tenn.	Dillard & Brown, Receivers
WPOR	--	500	1	Norfolk, Va.	WTAR Radio Corp.
-WTAR	*	500	1C	Norfolk, Va.	WTAR Radio Corp.
XEW	†	5000	---	Mexico City	Mexico Music Co.

790 kilocycles 379.5 meters

CMBS	--	150	---	Havana, Cuba	E. Artalejo
CMHC	--	500	---	Tuinucu, Cuba	Frank H. Jones
KGO	†	7500	N	San Francisco, Cal.	National Broadcasting Co., Inc.
-WGY	†	50000	N	Schenectady, N. Y.	General Electric Co.

800 kilocycles 374.8 meters

WBAP	†	10000	1XN	Fort Worth, Texas	Carter Publications, Inc.
WFAA	--	50000	1N	Dallas, Texas	News & Journal
XFC	--	350	805	Aguascalientes, Mex.	Gobierno del Estado de Aguascalientes

810 kilocycles 370.2 meters

WCCO	*	7500	C	Minneapolis, Minn.	Northwestern Broadcasting, Inc.
WPCH	*	500	D	New York City	Eastern Broadcasters, Inc.

820 kilocycles 365.6 meters

-WHAS	†	10000	N	Louisville, Ky.	Courier-Journal & Times
XFI	--	1000	818	Mexico City	Sria. de Ind., Comercio y Trabajo

830 kilocycles 361.2 meters

CMGA	--	100	834	Colon, Cuba	Leopoldo V. Figueros
-KOA	†	12500	N	Denver, Colo.	National Broadcasting Co., Inc.
-WHDH	--	1000	D	Boston, Mass.	Matheson Radio Co., Inc.
-WRUF	*	5000	Dn	Gainesville, Fla.	University of Florida

840 kilocycles 356.9 meters

-CFCA	†	500	1	Toronto, Ont.	Star Publishing & Ptg. Co.
CHCT	--	1000	---	Red Deer, Alta.	G. F. Tull & Ardern, Ltd.
CKLC	†	1000	2	Red Deer, Alta.	Alberta Pacific Grain Co., Ltd.
CMC	*	500	845	Havana, Cuba	Cuban Telephone Co.
CNRD	†	1000	2	Red Deer, Alta.	Canadian National Railways
CNRT	*	500	1	Toronto, Ont.	Canadian National Railways
XETY	--	2000	---	Mexico City	Juan Gutierrez, Jr

850 kilocycles 352.7 meters

-KWKH	*	10000	1	Shreveport, La.	Hello World Broadcasting Corp.
-WWL	*	5000	1	New Orleans, La.	Loyola University

860 kilocycles 348.6 meters

CMJE	--	5	856	Carnaguey, Cuba	Manuel Fernandez
KMO	--	500	+ Dn	Tacoma, Wash.	KMO, Inc.
-WABC	*	5000	XC	New York City	Atlantic Broadcasting Corp.
-WBOQ	--	5000	---	New York City	Atlantic Broadcasting Corp.
WHB	*	500	D	Kansas City, Mo.	WHB Broadcasting Co.
XFX	--	500	---	Mexico City, Mex.	Secretaria de Educacion Publica

870 kilocycles 344.6 meters

CMHH	--	10	---	Cifuentes, Cuba	Antonio Quintero
-WENR	--	5000	1N	Chicago, Ill.	National Broadcasting Co., Inc.
-WLS	†	5000	1XN	Chicago, Ill.	Agricultural Broadcasting Co.

880 kilocycles 340.7 meters

-CHML	*	50	4	Hamilton, Ont.	Maple Leaf Radio Co., Ltd.
CJCB	*	50	---	Sydney, N. S.	N. Nathanson
CKCI	†	22.5	3	Quebec, Que.	Le "Soleil," Ltd.
CKCV	†	50	3	Quebec, Que.	G. A. Vandry
CNRQ	†	50	3	Quebec, Que.	Canadian National Railways
KFKA	†	500	2+	Greeley, Colo.	Midwestern Radio Corp.
KLX	†	500	---	Oakland, Cal.	Tribune Publishing Co.
KPOF	†	500	2	Denver, Colo.	Pillar of Fire, Inc.
-WCOC	*	500	+	Meridian, Miss.	Mississippi Broadcasting Co., Inc.
-WGBI	*	250	1	Scranton, Pa.	Scranton Broadcasters, Inc.
WQAN	*	250	1	Scranton, Pa.	Scranton Times
WSUI	*	500	---	Iowa City, Iowa	University of Iowa

97 3

37 3

36 3

35 3

34 3

33 3

32 3

31 3

KCYS.
880
MTRS.
340.7
DIAL

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INDEX BY FREQUENCIES AND DIAL NUMBERS

890 kilocycles 336.9 meters

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

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

900 kilocycles 333.1 meters

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

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

910 kilocycles 329.6 meters

CFQC	--	500	1	Saskatoon, Sask.
CHNS	*	500	3	Halifax, N. S.
CJGC	*	500	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
KFEL	†	500	1	Denver, Colo.
KFXP	*	500	1	Denver, Colo.
KOMO	†	1000	N	Seattle, Wash.
KPRC	*	1000	+N	Houston, Texas
WAAF	--	500	D	Chicago, Ill.
WBSO	---	500	D	Needham, Mass.
WWJ	†	1000	N	Detroit, Mich.
XFF	--	250	915	Chihuahua, Mex.

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

930 kilocycles 322.4 meters

CJCA	*	500	4	Edmonton, Alta.
CFRC	---	500	'	Kingston, Ont.
KFWI	†	500	1	San Francisco, Cal.
KGBZ	---	500	2+	York, Neb.
KMA	*	500	2+	Shenandoah, Iowa
KROW	*	500	1+C	Oakland, Cal.
WBRC	*	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WIBG	*	50	S	Elkins Park, Pa.

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

940 kilocycles 319.0 meters

KGU	†	1000	---	Honolulu, Hawaii
KOIN	*	1000	C	Portland, Ore.
WAAT	--	300	D	Jersey City, N. J.
WCSH	*	1000	N	Portland, Maine
WDAY	*	1000	---	Fargo, N. D.
WFIW	*	1000	---	Hopkinsville, Ky.
WHA	--	750	D	Madison, Wis.
XEO	--	5000	---	Mexico City

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

950 kilocycles 315.6 meters

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

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

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960 kilocycles 312.3 meters

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-CFCY	*	250	1	Charlottetown, P. E. I.
-CFRB	*	5000	2C	Toronto, Ont.
CHCK	--	100	1	Charlottetown, P. E. I.
CHWC	--	500	3	Regina, Sask.
CJBR	--	500	3	Regina, Sask.
CKCK	†	500	3	Regina, Sask.
CNRX	--	500	3	Regina, Sask.
-CNRX	*	5000	2	Toronto, Ont.

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

970 kilocycles 309.1 meters

29		
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CMGF	--	50	977	Matanzas, Cuba
KJR	*	5000	---	Seattle, Wash.
-WCFL	--	1500	N Dn	Chicago, Ill.
XED	*	10000	977	Reynosa, Mex

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

980 kilocycles 305.9 meters

30		
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-DKDA	--	50000	N	Pittsburgh, Pa.
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Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

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-WBZ-A	†	15000	1N	Springfield-Boston
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Westinghouse Elec. & Mfg. Co.

1000 kilocycles 299.8 meters

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KFVD	*	250	Dn	Culver City, Cal.
WHO	*	5000	1N	Des Moines, Iowa
-WOC	*	5000	1N	Davenport, Iowa
XEA	--	101	---	Guadalajara, Mex.
XEC	--	50	---	Toluca, Mex.
XEE	--	10	---	Linars, Mex.
XEF	*	105	---	Oaxaca, Mex.
XEFE	--	101	---	Laredo, Mex.
XET	*	101	---	Morelia, Mex.
XEJ	*	101	---	Juarez, Mex.
XEK	--	101	---	Mexico City
XEL	--	10	---	Saltillo, Mex.
XEU	--	101	---	Veracruz, Mex.
XEV	--	101	---	Puebla, Mex.
XEY	--	105	---	Merida, Mex.

Los Angeles Broadcasting Co.
Central Broadcasting Co.
Central Broadcasting Co.
Alberto Pulos Sauza
Jesus R. Benavides
Ic. Mariano Berliang
Alfonso Zorrilla 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

213		
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CFLC	*	50	3	Prescott, Ont.
CKCR	--	50	3	Waterloo, Ont.
CKIC	--	50	---	Wolfville, N. S.
CMBW	--	150	---	Havana, Cuba
CMBZ	--	150	---	Havana, Cuba
CMCX	--	250	---	Havana, Cuba
KGGF	†	500	2	S. Coffeyville, Okla.
KQW	*	500	---	San Jose, Cal.
WHN	*	250	1	New York City
WIS	*	500	+	Columbia, S. C.
WNAD	*	500	2	Norman, Okla.
-WPAP	*	250	1	New York City
WQAO	--	250	1	New York City
WRNY	--	250	1	New York City

Radio Association
John Patterson
Acadi 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

21		
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-KFKX	*	10000	1N	Chicago, Ill.
-KYW	*	10000	1N	Chicago, Ill.
WRAX	†	250	D	Philadelphia, Pa.

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

1030 kilocycles 291.1 meters

303		
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-CFCF	--	1650	N	Montreal, Que.
CMKC	--	150	1034	Santiago de Cuba
CNRV	†	500	---	Vancouver, B. C.
XEB	†	1000	---	Mexico City, Mex.

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

1040 kilocycles 288.3 meters

30		
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-KRLD	†	10000	1C	Dallas, Texas
KTHS	†	10000	1N	Hot Springs, Ark.
WKAR	*	1000	D	East Lansing, Mich.
-WMAK	*	1000	Dn	Buffalo, N. Y.

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

KCYS.
1040
MTRS.
288.3
DIAL

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<p>1050 kilocycles</p> <p>KFKB * 5000 Dn KNX * 5000 X</p>	<p>285.5 meters</p> <p>Millford, Kansas Hollywood, Cal.</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>Farmers & Bankers Life Insurance Co. Western Broadcast Co.</p>
<p>1060 kilocycles</p> <p>KWJJ -- 500 Dn WBAL * 10000 1N WJAG * 1000 Dn WTIC * 50000 1N</p>	<p>282.8 meters</p> <p>Portland, Ore. Baltimore, Md. Norfolk, Nebr. Hartford, Conn.</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>189</p> <p>KWJJ Broadcast Co., Inc. Consolidated Gas Elec. & Pwr. Co. Norfolk Daily News Travelers Broadcasting Service Corp.</p>
<p>1070 kilocycles</p> <p>CMBG -- 150 --- CMBT -- 150 --- CMCB -- 150 --- KJBS -- 100 D WCAZ -- 100 D WZD † 50 D WTAM * 50000 N</p>	<p>280.2 meters</p> <p>Havana, Cuba Havana, Cuba Havana, Cuba San Francisco, Cal. Carthage, Ill. Tuscola, Ill. Cleveland, Ohio</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>182</p> <p>Francisco Garrigo E. Perera M. D. Autran Julius Brunton & Sons Co. Superior Broadcasting Service James L. Bush National Broadcasting Co., Inc.</p>
<p>1080 kilocycles</p> <p>WBT * 5000 C WCBW * 5000 1 Dn WMBI * 5000 1 Dn XEH -- 5000 ---</p>	<p>277.6 meters</p> <p>Charlotte, N. C. Zion, Ill. Chicago, Ill. Monterrey, Mex.</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>18</p> <p>Station WBT, Inc. Wilbur Glenn Voliva Moody Bible Institute Tarnava y Cia</p>
<p>1090 kilocycles</p> <p>CMAA -- 30 --- CMGI -- 30 1094 KMOX * 50000 1CX</p>	<p>275.1 meters</p> <p>Guanajay, Cuba Matanzas, Cuba St. Louis, Mo.</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>Antonio Sarasola Armando Lizama Voice of St. Louis, Inc.</p>
<p>1100 kilocycles</p> <p>CMKD -- 20 --- KGDW * 250 DX WLWL * 5000 1 WPG * 5000 1C</p>	<p>272.6 meters</p> <p>Santiago, Cuba Stockton, Cal. New York City Atlantic City, N. J.</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>Jose Caluff E. F. Peffer Missionary Society of St. Paul WPG Broadcasting Corp.</p>
<p>1110 kilocycles</p> <p>CMHI -- 15 --- KSOO * 2000 Dn WRVA * 5000 N</p>	<p>270.1 meters</p> <p>Santa Clara, Cuba Sioux Falls, S. D. Richmond, Va.</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>Laviz y Paz Sioux Falls Broadcasting Assn., Inc. Larus & Bros. Co., Inc.</p>
<p>1120 kilocycles</p> <p>CFJC -- 100 --- CHCS -- 10 4 CHGS * 100 --- CJOC † 50 --- CKOC * 50 4 KFIO † 100 D KFSG * 500 3 KMCS * 500 3Y KRCS † 50 D KTRH * 500 2C WDBO * 500 +C WDEL † 250 +X WHAD * 250 1 WISN -- 250 1C WTAW * 500 2</p>	<p>267.7 meters</p> <p>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>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>N. S. Dalgleish & Sons The Hamilton Spectator R. T. Holman, Ltd. Harold R. Carson Wentworth Radio & Auto Sply. Co., Ltd Spokane Broadcasting Corp. Echo Park Evang. Assn. Dalton's, Inc. Radio Sales Corp. Rice Hotel Orlando Broadcasting Co., Inc. WDEL, Inc. Marquette University Evening Wisconsin Co. Agricultural & Mech. College</p>
<p>1130 kilocycles</p> <p>KSL * 5000 N WJJD * 20000 C Dn WOV -- 1000 D</p>	<p>265.3 meters</p> <p>Salt Lake City Mooseheart, Ill. New York City</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>76</p> <p>Radio Service Corp. of Utah Loyal Order of Moose International Broadcasting Corp.</p>
<p>1140 kilocycles</p> <p>CMGD -- 5 --- KVOO * 5000 1N WAPI -- 5000 1N XETA -- 500 ---</p>	<p>263.0 meters</p> <p>Matanzas, Cuba Tulsa, Okla. Birmingham, Ala. Mexico City</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>Rafael Rodriguez Southwestern Sales Corp. Alabama Polytechnic Institute Manuel Espinosa Tagle</p>
<p>1150 kilocycles</p> <p>CMCQ -- 600 --- CMHQ -- 200 1154 CMQ † 250 --- WHAM * 5000 N</p>	<p>260.7 meters</p> <p>Havana, Cuba Cienfuegos, Cuba Havana, Cuba Rochester, N. Y.</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>15</p> <p>Andres Martinez Fox Bros. Co. Jose Fernandez Stromberg-Carlson Tel. Mfg. Co.</p>

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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 1186
 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
 KEX * 5000 2
 KOB * 20000 2
 WDGY * 1000 1 Dn
 WGBS † 250 +
 WHDI * 500 1 Dn

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

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

1190 kilocycles 252.0 meters

WOAI * 50000 N

San Antonio, Texas

--	--	--

Southern Equipment Co.

1200 kilocycles 249.9 meters

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

North Bay, Ont.
 Santiago de Cuba
 Paragould, Ark.
 Marshalltown, Iowa
 St. Louis, Mo.
 Mandan, N. D.
 Ferrus 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.
 Jansville, 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
 G. C. Martin's College
 G. C. Liner
 Santa Maria Radio
 KVOS, Inc.
 Portable Wireless Tel. Co., Inc.
 Pine Tree Broadcasting Corp.
 Samuel D. Reeka
 C. L. Carroll
 State School of Mines
 University of Vermont
 WCLO Radio Corp.
 Keystone Broadcasting Corp.
 Emory & Henry College
 Alfred Frank Kleindienst
 First Baptist Church
 WFBE, Inc.
 St. John's Catholic Church
 St. Norbert's College
 WIBX, Inc.
 Missouri Broadcasting Corp.
 Kaskaskia Broadcasting Co.
 Commodore Broadcasting, Inc.
 Charles C. Carlson, Jr.
 Kirk, Johnson & Co.
 American Broadcasting Corp. of Ky.
 Robert Allen Gamble
 John Brownlee Spriggs
 Home Cut Glass & China Co.
 First Congregational Church
 Alfred Frank Kleindienst
 Chas. Middleton
 David Parmer
 Hammond-Calumet Broad. Corp.
 Radio & Electric Shop

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

KCYS.
 1210
 MTRS.
 247.8
 DIAL

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

1220 kilocycles 245.8 meters

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

KFQD	--	100	---	Anchorage, Alaska	Anchorage Radio Club
KGGM	†	250	+	Albuquerque, N. Mex.	New Mexico Broadcasting Co.
KYA	*	1000	---	San Francisco, Cal.	Pacific Broadcasting Corp.
WBTS	*	1000	2	Boston, Mass.	Shepard Broadcasting Service, Inc.
WFBS	*	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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Shepard Broadcasting Service, Inc.
 Pennsylvania State College
 South Bend Tribune

1240 kilocycles 241.8 meters

CMAB	--	20	1249	Pinar del Rio, Cuba	Francisco Martinez
CMGH	--	60	1249	Matanzas, Cuba	Alberto Alvarez
CMKE	--	250	1249	Santiago de Cuba	Edmund Recamier
KTAT	†	1000	1	Ft. Worth, Texas	S. A. T. Broadcast Co.
WACO	†	1000	1C	Waco, Texas	Central Texas Broadcasting Co., Inc.
WXYZ	†	1000	1C	Detroit, Mich.	Kunsky-Trendle Broadcasting Corp.

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Central Texas Broadcasting Co., Inc.
 Kunsky-Trendle Broadcasting Corp.

1250 kilocycles 239.9 meters

KFMX	--	1000	2	Northfield, Minn.	Carleton College
KFOX	*	1000	---	Long Beach, Cal.	Nichols & Warinner, Inc.
KIDO	--	1000	---	Boise, Idaho	Boise Broadcasting Station

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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 ---

1260 kilocycles 238.0 meters

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

1270 kilocycles 236.1 meters

CMJB -- 20 1276 Ciego de Avila, Cuba
 KFUM * 1000 Colorado Springs, Colo.
 KGCA -- 50 2D Decorah, Iowa
 KOL † 1000 3C Seattle, Wash.
 KTW -- 1000 3 Seattle, Wash.
 KWLK * 100 2D Decorah, Iowa
 -WASH * 500 1 Grand Rapids, Mich.
 -WEAI * 1000 D Ithaca, N. Y.
 -WFBR -- 500 -- Baltimore, Md.
 -WJDX -- 1000 N Jackson, Miss.
 -WOOD -- 500 1 Grand Rapids, Mich.

1280 kilocycles 234.2 meters

CMBJ -- 15 1285 Havana, Cuba
 CMBM -- 15 1285 Havana, Cuba
 CMCG -- 30 1285 Havana, Cuba
 CMCH -- 15 1285 Havana, Cuba
 CMCR -- 20 1285 Havana, Cuba
 KFBB * 1000 + Great Falls, Mont.
 -WCAM -- 500 1 Camden, N. J.
 WCAP * 500 1 Asbury Park, N. J.
 -WDOD * 1000 +C Chattanooga, Tenn.
 -WIBA * 500 -- Madison, Wis.
 -WOAX -- 500 1 Trenton, N. J.
 WRR -- 500 C Dallas, Texas

1290 kilocycles 232.4 meters

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

1300 kilocycles 230.6 meters

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

1310 kilocycles 228.9 meters

CMCG -- 30 1315 Matanzas, Cuba
 KCRJ † 100 --- Jerome, Ariz.
 KFBK † 100 --- Sacramento, Cal.
 KFGQ † 100 7 Boone, Iowa
 KFIU -- 10 --- Juneau, Alaska
 KFJY * 100 7 Ft. Dodge, Iowa
 KFL † 100 --- Dublin, Texas
 KFFM * 15 --- Greenville, Texas
 KFUP -- 100 8 Denver, Colo.
 KFXJ -- 100 8 Grand Junction, Colo.

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

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

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.

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

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

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

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

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

Exchange Ave. Baptist Church
 KGBX Inc.
 First State Bank of Vida
 Treloar-Church Brdcastg. Co.
 Central Nebraska Broadcasting Corp.
 Carl E. Haymond
 Mrs. W. J. Virgin
 Robert M. Dean
 Houston Broadcasting Co.
 G. A. Houseman
 W. S. Bledsoe & W. T. Blackwell
 Harry F. Paar
 KXRO, Inc.
 Charles B. McCleod
 Banks of Wabash, Inc.
 Louis G. Baltimore
 WCLS, Inc.
 Eagle Broadcasting Co.
 Howell Broadcasting Co., Inc.
 Royal Oak Broadcasting Co.
 Wm. F. Gable Co.
 Frank D. Fallain
 WGAL, Inc.
 Hampton Roads Broadcasting Corp.
 Independence Broadcasting Co.
 Johnstown Automobile Co.
 Marlon 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.

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

1330 kilocycles 225.4 meters

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

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

1340 kilocycles 223.7 meters

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

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

1350 kilocycles 222.1 meters

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

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

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

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

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

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

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

Genaro Sebater
Champlin Refining Co.
Leese Bros.
KFJI Broadcasters, Inc.
University of North Dakota
Estate of H. C. Meachem
George Roy Clough
Tucson Motor Service Co.
Mitchell Broadcasting Corp.
Oklahoma Broadcasting Co., Inc.
W. E. Whitmore
KGKL, Inc., Opr. by Ragsdale Auto
W. W. McAllister
Mission Broadcasting Co.
H. H. Hanseth, Inc.
First Congregational Church
Paul R. Heitmeyer
KVL, Inc.
Wilson Duncan Broadcasting Co.
Leon P. Tenney
W. N. Parker and H. H. Metcalfe
Clarke Electric Co.
Baltimore Broadcasting Corp.
WELK Broadcasting Station, Inc.
Dolies Goings
Fred C. Zieg
F. P. Moler
Broadcasting Station WHBQ, Inc.
Upper Michigan Broadcasting Co.
WIBM, Inc.
James F. Hopkins, Inc.
Lexington Air Stations
Lynchburg Broadcasting Corp.
F. J. Reynolds
Nassau Broadcasting Corp.
A. J. St. Antoine
C. R. Cummins
Woodruff Furniture Co., Inc.
Wilmington Radio Association
Racine Broadcasting Corp.
Seneca Vocational School
Albert S. Woodson

1380 kilocycles 217.3 meters

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

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

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

1390 kilocycles 215.7 meters

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

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

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

1400 kilocycles 214.2 meters

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

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

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

KCYS.
1400
MTRS.
214.2
DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

WBBC	*	500	2	Brooklyn, N. Y.
WCGU	*	500	2	Brooklyn, N. Y.
WCGA	†	500	1	Culver, Ind.
WFOX	*	500	2	Brooklyn, N. Y.
WKBF	†	500	1	Indianapolis, Ind.
WLTH	*	500	2	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	Rockford, Ill.
KGRS	*	1000	1	Amarillo, Texas
WBGM	*	500	C	Bay City, Mich.
WDAG	*	250	1X	Amarillo, Texas
WHBL	*	500	4	Sheboygan, Wis.
WHIS	†	250	---	Bluefield, W. Va.
WLEX	--	500	2Y	Lexington, Mass.
WODX	*	500	3	Mobile, Ala.
WRBX	*	250	---	Roanoke, Va.
WSPA	†	500	3	Montgomery, Ala.
WSSH	†	500	2	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	Santa Clara, Cuba
KBPS	*	100	4	Portland, Ore.
KFIZ	*	100	---	Fond du Lac, Wis.
KFQU	*	100	5X	Holy City, Cal.
KFQW	--	100	---	Seattle, Wash.
KFXD	*	100	XY	Nampa, Idaho
KFXV	--	100	---	Flagstaff, Ariz.
KFYO	†	100	+	Abilene, Texas
KGFF	--	100	Y	Shawnee, Okla.
KGGC	†	100	5	San Francisco, Cal.
KGIW	--	100	---	Trinidad, Colo.
KGIX	†	100	---	Las Vegas, Nevada
KGKX	--	100	---	Sand Point, Idaho
KGVO	--	100	CPD	Missoula, Mont.
KICK	*	100	---	Red Oak, Iowa
KLPM	†	100	---	Minot, North Dakota
KKORE	*	100	---	Eugene, Ore.
KTAP	†	100	---	San Antonio, Texas
KXL	--	100	4	Portland, Ore.
KXYZ	--	100	X	Houston, Texas
WEDH	*	100	---	Erie, Pa.
WEHS	--	100	2	Cicero, Ill.
WELL	†	50	X	Battle Creek, Mich.
WFDW	*	100	---	Talladega, Ala.
WHDL	*	10	DX	Tupper Lake, N. Y.
WHFC	--	100	2	Cicero, Ill.
WIAS	†	100	---	Ottumwa, Iowa
WIBR	*	50	---	Steubenville, Ohio
WILM	*	100	---	Wilmington, Del.
WJBO	*	100	---	New Orleans, La.
WKBI	*	100	2	Chicago, Ill.
WLBV	--	100	---	Kansas City, Kas.
WMBG	*	100	X+	Detroit, Mich.
WMBH	--	100	+	Joplin, Mo.
WPAD	†	100	---	Paducah, Ky.
WSPA	*	100	+	Spartanburg, S. C.
WTBO	*	100	---	Cumberland, Md.

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



1430 kilocycles 209.7 meters

KECA	†	1000	N	Los Angeles, Cal.
KGNF	†	500	D	North Platte, Neb.
WBAK	†	500	1X+	Harrisburg, Pa.
WCAH	*	500	1C	Columbus, Ohio
WGBC	*	500	2S	Memphis, Tenn.
WHP	*	500	1C+	Harrisburg, Pa.
WNBR	*	500	2	Memphis, Tenn.
XEP	--	2500	---	Laredo, Mex.

Earle C. Anthony, Inc.
Great Plains Broadcasting Co.
Penn. 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	Oakland, Cal.
WBIG	*	500	---	Greensboro, N. C.
WCBA	--	250	1	Allentown, Pa.
WHCC	*	500	2C	Rochester, N. Y.
WMBD	*	500	3+	Peoria Heights, Ill.
WOKO	--	500	2C	Albany, N. Y.
WSAN	*	250	1	Allentown, Pa.
WTAD	†	500	3	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

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

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

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

1460 kilocycles 205.4 meters

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KSTP	*	10000	NX
WJSV	*	10000	---

St. Paul, Minn.
Alexandria, Va.

National Battery Broadcasting Co.
Independent Publishing Co.

1470 kilocycles 204.0 meters

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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

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KFJF	*	5000	C
WKBW	*	5000	C

Oklahoma City
Buffalo, N. Y.

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

1490 kilocycles 201.2 meters

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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

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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	---
KPJN	*	100	---
KPO	†	50	---
KREG	†	100	---
KUT	†	100	---
KXO	†	100	---
WCLB	--	100	1Y
WDIX	--	100	---
WKBV	--	100	+
WKBZ	†	50	---
WLBX	*	100	1
WLOE	*	100	+
WMBA	--	100	---
WMBQ	--	100	1
WMPC	†	100	---
WNBF	*	100	---
WOPI	--	100	---
WPNB	--	100	+
WRDW	*	100	---
WRYB	†	100	CP
WWRL	*	100	1
WWSW	--	100	CP

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

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

KCYs.
1500
MTRS.
199.9
DIAL

11/12

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INDEX BY LOCATIONS WITH MAP KEY

ALABAMA			Watts	Keys.				
Birmingham O-21	5000	WAPI	1140		San Jose J-1	500	KQW	1010
	500	WBRC	930		Santa Ana M-3	100	KREG	1500
	100	WBKC	1310		Santa Barbara M-2	100	KDB	1500
Gadsden O-21	50	WBJV	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		COLORADO			
ALASKA					Colorado Springs K-11	1000	KFUM	1270
Anchorage	100	KFOD	1230		Denver K-11	500	KFEL	920
Juneau	10	KFIU	1310			100	KFUP	1310
Ketchikan	500	KGBU	900			500	KFXF	920
						1000	KLZ	560
ARIZONA						12500	KOA	830
Flagstaff M-7	100	KFX Y	1420			500	KPOF	880
Jerome M-6	100	KCRJ	1310		Fort Morgan J-11	100	KG EW	1200
Phoenix N-6	500	KOY	1390		Grand Junction K-9	100	KFXJ	1310
	500	KTAR	620		Greeley J-11	500	KFKA	880
Prescott M-6	100	KPJM	1500		Pueblo L-11	250	KGHF	1320
Tucson O-7	100	KGAR	1370		Trinidad L-11	100	KGIW	1420
	500	KVOA	1260		Yuma J-12	50	KGEK	1200
ARKANSAS					CONNECTICUT			
Blytheville M-19	50	KLCN	1290		Bridgeport H-27	500	WICC	600
Fayetteville M-16	1000	KUOA	1390		Hartford H-27	500	WDRC	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		DELAWARE			
	250	KGJF	890		Wilmington J-26	250	WDEL	1120
	1000	KLRA	1390			100	WILM	1420
Paragould M-18	100	KBTM	1200		DISTRICT OF COLUMBIA			
CALIFORNIA					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		FLORIDA			
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	WTAX	900
Hollywood M-3	1000	KFWB	950		Miami T-25	1000	WIOD	1300
	5000	KNX	1050			1000	WQAM	560
Holy City K-1	100	KFOU	1420		Orlando R-24	500	WDBO	1120
Inglewood M-3	500	KMCS	1120		Pensacola Q-21	500	WCOA	1340
Long Beach M-3	1000	KFOX	1250		St. Petersburg S-24	1000	WSUN	620
	1000	KGER	1360		Tampa R-24	1000	WDAE	1220
Los Angeles M-3	1000	KECA	1430			100	WMBR	1370
	5000	KFI	640		GEORGIA			
	500	KFSG	1120		Atlanta O-22	250	WGST	890
	1000	KGEF	1300			5000	WSB	740
	100	KG FJ	1200		Augusta O-23	100	WRDW	1500
	1000	KHJ	900		Columbus O-22	50	WRBL	1200
	500	KMPC	710		Macon O-23	250	WMAZ	890
	500	KMTR	570		Rome N-22	100	WFDV	1370
	500	KTM	780		Savannah O-24	500	WTOC	1260
Oakland J-1	1000	KTBI	1300		Thomasville 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		HAWAII			
Pasadena M-3	50	KPPC	1210		Honolulu	500	KGMB	1320
	1000	KPSN	1360			1000	KGU	940
Sacramento J-2	100	KFBK	1310		IDAHO			
San Bernardino M-3	100	KFXM	1210		Boise G-5	1000	KIDO	1250
San Diego N-3	500	KFSD	600		Idaho Falls G-7	250	KID	1320
	250	KGB	1330		Nampa G-5	50	KFXD	1420
San Francisco J-1	1000	KFRC	610		Pocatello H-7	250	KSEI	900
	500	KFWI	930		Sand Point D-6	100	KGKX	1420
	100	KGGC	1420		Twin Falls H-6	250	KTFI	1320
	7500	KGO	790					
	100	KJBS	1070					
	5000	KPO	680					
	1000	KTAB	560					
	1000	KYA	1230					

INDEX BY LOCATIONS WITH MAP KEY

ILLINOIS		Watts	Kcys.				
Carthage J-18	50	WCAZ	1070	Ottumwa J-17	100	WIAS	1420
Chicago I-20	10000	KFKX	1020	Red Oak J-16	100	KICK	1420
	10000	KYW	1020	Shenandoah J-16	500	KFNF	890
	500	WAAF	920		500	KMA	930
	25000	WBBM	770	Sioux City I-15	1000	KSCJ	1330
	1500	WCFL	970	Waterloo I-17	500	WMT	600
	5000	WCHI	1490				
	100	WCRW	1210	KANSAS			
	100	WEDC	1210	Dodge City L-13	100	KGNO	1210
	50000	WENR	870	Kansas City K-16	100	WLB	1420
	500	WGES	1360	Lawrence K-16	500	KFKU	1220
	25000	WGN	720		1000	WREN	1220
	1000	WIBO	560	Manhattan K-15	500	KSAC	580
	5000	WJAZ	1490	Milford K-14	5000	KFKB	1050
	25000	WJBT	770	Topeka K-16	1000	WIBW	580
	100	WKBI	1420	Wichita L-15	1000	KFH	1300
	5000	WLS	870				
	5000	WMAQ	670	KENTUCKY			
	5000	WMBI	1080	Covington K-22	5000	WKCY	1490
	500	WPCC	560	Hopkinsville M-20	1000	WFIW	940
	100	WSBC	1210	Louisville L-21	10000	WHAS	820
Cicero I-20	100	WEHS	1420		100	WLAP	1200
	100	WHFC	1420	Paducah M-19	100	WPAD	1420
	100	WJBL	1200				
Decatur K-19	100	WKBS	1310	LOUISIANA			
Galesburg J-18	100	WEBQ	1210	Monroe P-18	50	KMLB	1200
Harrisburg L-19	100	WCLS	1310	New Orleans R-19	100	WABZ	1200
Joliet I-19	100	WKBB	1310		1000	WDSU	1250
	100	WJBC	1200		100	WJBO	1420
La Salle J-19	100	WJJD	1130		30	WJBW	1200
Mooseheart I-19	20000	WJBD	1440		500	WSMB	1320
Peoria Heights J-19	500	WTAD	1440		5000	WWL	850
Quincy K-18	500	KFLV	1410	Shreveport P-17	50	KRMD	1310
Rockford I-19	500	WHFB	1210		1000	KTBS	1450
Rock Island I-18	100	WCBS	1210		100	KTSL	1310
Springfield K-19	100	WTAX	1210		100	KWEA	1210
	100	WDZ	1070		10000	KWKH	850
Tuscola K-20	250	WILL	890	MAINE			
Urbana J-20	5000	WCBD	1080	Augusta F-28	100	WRDO	1370
Zion I-20				Bangor F-29	100	WABI	1200
					500	WLBZ	620
				Portland F-28	1000	WCSH	940
INDIANA							
Anderson J-21	100	WHBU	1210	MARYLAND			
Connorsville K-21	100	WKBV	1500	Baltimore J-26	10000	WBAL	1060
Culver I-20	500	WCMA	1400		250	WCAO	600
Evansville L-20	500	WGBF	630		100	WCBM	1370
Fort Wayne J-21	100	WGL	1370		500	WFBR	1270
	10000	WOWO	1160	Cumberland J-25	100	WTBO	1420
Gary I-20	1000	WJKS	1360				
Hammond I-20	100	WWAE	1200	MASSACHUSETTS			
Indianapolis J-21	1000	WFBM	1230	Boston G-28	1000	WBIS	1230
	500	WKBF	1400		1000	WEEI	590
Lafayette J-20	500	WBAA	1400		1000	WHDH	830
La Porte I-20	100	WRAF	1200		100	WLOE	1500
Marion J-21	50	WJAK	1310		1000	WNAC	1230
Muncie J-21	50	WLCB	1310		500	WSSH	1410
South Bend I-20	500	WSBT	1230	Fall River H-28	250	WSAR	1450
Terre Haute K-20	100	WBOW	1310	Lexington G-28	500	WLEX	1410
					100	WLEY	1370
IOWA					100	WNBH	1310
Ames I-17	5000	WOI	640	New Bedford H-28	100	WBZ-A	990
Boone I-17	100	KFGQ	1310	Springfield H-27	15000	WBSO	920
Cedar Rapids I-18	100	KWCR	1310	Needham G-28	500	WEPS	1200
Clarinda J-16	500	KSO	1380	Worcester G-28	100	WORC	1200
Council Bluffs J-16	1000	KOIL	1260		250	WTAG	580
Davenport I-18	5000	WOC	1000				
Decorah H-18	50	KCCA	1270	MICHIGAN			
	100	KWLC	1270	Battle Creek I-21	50	WELL	1420
Des Moines I-17	5000	WHO	1000	Bay City H-22	500	WBCM	1410
Fort Dodge I-16	100	KFJY	1310	Berrien Springs I-20	1000	WKZO	590
Iowa City I-18	500	WSUI	880	Calumet E-19	100	WHDF	1370
Marshalltown I-17	100	KFJB	1200				
Muscatine J-18	5000	KTNT	1170				

INDEX BY LOCATIONS WITH MAP KEY

Detroit H-22	50	WJBK	1370	NEVADA			
	5000	WJR	750		Watts		Keys
	100	WMBC	1420	Las Vegas L-5	100	KGIX	1420
	1000	WWJ	920	Reno I-3	500	KOH	1380
	1000	WXYZ	1240	NEW HAMPSHIRE			
East Lansing H-21	1000	WKAR	1040	Laconia G-28	100	WKAV	1310
Flint H-22	100	WFDF	1310	NEW JERSEY			
	100	WPDF	1200	Asbury Park I-27	500	WCAP	1280
Grand Rapids H-21	500	WASH	1270	Atlantic City J-27	5000	WPG	1100
	500	WOOD	1270	Camden I-26	500	WCAM	1280
Jackson I-21	100	WIBM	1370	Hackensack I-27	250	WBMS	1450
Lapeer H-22	100	WMPC	1500	Jersey City I-27	300	WAAT	940
Ludington H-20	50	WKBZ	1500		500	WHOM	1450
Marquette F-19	100	WBEO	1310		250	WKBO	1450
Royal Oak H-22	50	WEXL	1310	Newark I-27	1000	WAAM	1250
					250	WGCP	1250
MINNESOTA					250	WNJ	1450
Fergus Falls F-15	100	KGDE	1200		5000	WOR	710
Minneapolis G-17	7500	WCCO	810	Paterson I-27	1000	WODA	1250
	1000	WDGY	1180	Red Bank I-27	100	WJBI	1210
	500	WHDI	1180	Trenton I-26	500	WOAX	1280
	1000	WRHM	1250	NEW MEXICO			
Moorhead F-15	50	KGFK	1500	Albuquerque N-7	250	KGGM	1230
Northfield G-17	1000	KFMX	1250	Raton M-11	50	KGFL	1370
	1000	WCAL	1250	State College P-9	20000	KOB	1180
St. Paul G-17	1000	WLB	1250	NEW YORK			
	10000	KSTP	1460	Albany H-27	500	WOKO	1440
MISSISSIPPI				Auburn H-25	100	WMBO	1310
Greenville O-18	100	WRBQ	1210	Binghamton H-26	100	WNBF	1500
Gulfport Q-19	100	WGCM	1210	Brooklyn I-27	500	WBBC	1400
Hattiesburg Q-19	10	WRBJ	1370		1000	WBRR	1300
Jackson P-19	1000	WJDX	1270		500	WCGU	1400
Meridian P-20	500	WCOC	880		500	WFOX	1400
Tupelo N-20	100	WDIX	1500		500	WLTH	1400
Vicksburg P-18	300	WQBC	1360		100	WMBQ	1500
MISSOURI				Buffalo H-24	1000	WBEN	900
Cp. Girardeau L-19	100	KFVS	1210		100	WEBR	1310
Columbia K-17	500	KFRU	630		1000	WGR	550
Grant City J-16	50	KGIZ	1500		5000	WKBW	1480
Jefferson City L-17	500	WOS	630		1000	WMAK	1040
Joplin M-16	100	WMBH	1420		50	WVSV	1370
Kansas City K-16	1000	KMBC	950	Canton F-26	500	WCAD	1220
	100	KWKC	1370	Freeport I-27	100	WGBB	1210
	1000	WDAF	610	Glens Falls G-27	50	WGBF	1370
	500	WHB	860	Ithaca H-25	1000	WEAI	1270
	1000	WQQ	1300		50	WLCI	1210
St. Joseph K-16	2500	KFEQ	680	Jamaica H-27	100	WMRJ	1210
	100	KGBX	1310	Jamestown H-24	50	WOCL	1210
St. Louis L-18	500	KFUO	550	Long Island City I-27	100	WLBX	1500
	100	KFWF	1200	Long Beach I-27	100	WCLB	1500
	50000	KMOX	1090	New York City I-27	5000	WABC	860
	500	KSD	550		250	WAWZ	1350
	1000	KWK	1350		250	WBNX	1350
	1000	WEW	760		5000	WBQO	860
	100	WIL	1200		250	WCOA	660
MONTANA					50000	WEAF	660
Billings F-9	1000	KGHL	950		500	WEVD	1300
Butte F-7	500	KGIR	1360		250	WGBS	1180
Great Falls E-8	1000	KFBB	1280		1000	WHAP	1300
Kalispell D-7	100	KGEZ	1310		250	WHN	1010
Missoula E-7	100	KGVO	1420		30000	WJZ	700
Wolf Point E-11	100	KGCX	1310		5000	WLWL	1100
NEBRASKA					500	WMCA	570
Clay Center J-14	1000	KMMJ	740		250	WMSG	1350
Lincoln J-15	5000	KFAB	770		500	WNYC	570
	100	KFOR	1210		1000	WOV	1130
	500	WCAJ	590		250	WPAP	1010
Norfolk I-15	1000	WJAG	1060		500	WPCH	810
North Platte J-13	500	KGNF	1430		250	WQAO	1010
Omaha J-15	500	WAAW	660		250	WRNY	1310
	1000	WOW	590				
Ravenna J-14	100	KGFW	1310				
Scottsbluff I-11	100	KGKY	1500				
York J-15	500	KGBZ	930				

INDEX BY LOCATIONS WITH MAP KEY

Patchogue I-27	100	WPOE	1370
Rochester G-25	5000	WHAM	1150
	500	WHEC	1440
Saranac Lake F-26	50	WNBZ	1290
Schenectady G-27	50000	WGY	790
Syracuse G-25	1000	WFBL	1360
	250	WMAC	570
	250	WSYR	570
Troy G-27	500	WHAZ	1300
Tupper Lake F-26	10	WHDL	1420
Utica G-26	100	WIBX	1200
Woodside I-27	100	WWRL	1500
Yonkers I-27	100	WCOH	1210

NORTH CAROLINA

Asheville M-23	1000	WWNC	570
Charlotte M-24	5000	WBT	1080
Gastonia M-24	100	WSOC	1210
Greensboro M-24	500	WBIG	1440
Raleigh M-25	1000	WPTF	680
Wilmington N-26	100	WRBT	1370
Winston-Salem M-24	100	WSJS	1310

NORTH DAKOTA

Bismarck F-13	1000	KFYR	550
Devils Lake E-14	100	KDLR	1210
Fargo F-15	1000	WDAY	940
Grand Forks E-15	100	KFJM	1370
Mandan F-13	100	KGCU	1200
Minot E-13	100	KLPM	1420

OHIO

Akron I-23	1000	WADC	1320
Canton I-23	10	WHBC	1200
Cincinnati K-22	100	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	WAIU	640
	500	WCAH	1430
	750	WEAO	570
	100	WSEN	1210
	200	WSMK	1380
Dayton J-22	100	WJW	1210
Mansfield J-22	100	WHBD	1370
Mount Orab K-22	100	WJAY	610
Staubenville J-23	50	WIBR	1420
Toledo I-22	500	WSPD	1340
Youngstown I-23	500	WKBN	570
Zanesville J-23	100	WALR	1210

OKLAHOMA

Chickasha N-14	250	KOCW	1400
Elk City N-13	100	KGMP	1210
Enid M-14	100	KCRC	1370
Norman N-15	500	WNAD	1010
Oklahoma N-15	5000	KFJF	1480
	100	KFXR	1310
	100	KGFG	1370
	1000	WKY	900
Ponca City M-15	100	WBBZ	1200
S. Coffeyville M-15	500	KGGF	1010
Shawnee N-15	100	KGFF	1420
Tulsa M-15	5000	KVOO	1140

OREGON

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

Marshfield F-1	100	KOOS	1370
Medford G-2	50	KMED	1310
Portland E-3	5000	KEX	1180
	100	KBPS	1420
	500	KFJR	1300
	1000	KGW	620
	1000	KOIN	940
	500	KTBR	1300
	500	KWJJ	1060
	100	KXL	1420

PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
	100	WFBG	1310
Altoona I-25	100	WNBW	1200
Carbondale H-26	50	WIBG	930
Elkins Park I-26	30	WEDH	1420
Erie H-24	100	WSAJ	1310
Grove City I-24	500	WBAK	1430
Harrisburg I-25	100	WCOD	1200
	500	WHP	1430
Johnstown J-24	100	WJAC	1310
Lancaster I-26	100	WGAL	1310
	100	WKJC	1200
	100	WJBU	1210
Lewisburg I-26	500	WLBW	1260
Oil City I-24	10000	WCAU	1170
Philadelphia I-26	100	WELK	1370
	500	WFAN	610
	500	WFI	560
	100	WHAT	1310
	500	WIP	610
	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	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
	500	WPSC	1230
State College I-25	100	WNBO	1200
Washington J-24	100	WBAX	1210
Wilkes-Barre I-26	100	WBRE	1310
Williamsport I-25	100	WRAK	1370

PORTO RICO

San Juan W-34	500	WKAQ	890
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RHODE ISLAND

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

SOUTH CAROLINA

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

SOUTH DAKOTA

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

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

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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				
MANITOBA				HAITI			
Brandon D-14	500	CKX	540	Port au Prince X-30	1000	HHK	920
Winnipeg D-15	5000	CKY	780				
	5000	CNRW	780	MEXICO			
NEW BRUNSWICK				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
NEWFOUNDLAND				Laredo, N. L. S-13	1000	XEQ	750
St. Johns A-35	500	8WMC	682		101	XEFE	1000
NOVA SCOTIA				Merida, Yuc. X-19	2500	XEP	1430
Glace Bay C-32	10000	VAS	685	Mexico City Y-13	105	XEY	1000
Halifax E-31	500	CHNS	910		1000	XEB	1030
	500	CNRH	910		250	XEFA	1250
Sydney C-32	50	CJCB	880		101	XEK	1000
Wolfville D-31	50	CKIC	1010		1000	XEN	719
ONTARIO					5000	XEO	940
Chatham H-22	100	CFCO	1210		101	XER	650
Cobalt E-23	15	CKMC	1210		500	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		2000	XFG	638
	500	CNRL	910	Monterrey, N. L. U-13	1000	XFI	818
North Bay	50	CFCH	1200		500	XFX	860
Ottawa F-25	100	CKCO	890		5000	XEH	1080
	500	CNRO	600		500	XET	630
Port Arthur E-19	50	CKPR	890	Morelia, Mich. Y-12	101	XEI	1000
Prescott F-25	50	CFLC	1010	Oaxaca, Oak. AA-14	105	XEE	1000
Preston H-23	25	CKPC	1210	Puebla Z-13	101	XEV	1000
Toronto G-24	500	CFCA	840	Reynosa, Tams. T-14	10000	XED	977
	500	CFLA	580	Saltillo, Coah. U-12	10	XEL	1000
	5000	CFRB	960	Tampico, Tams. W-14	500	XEM	730
	500	CKCL	580		500	XES	890
	5000	CKGW	690	Toluca, Y-12	50	XEC	1000
	500	CKNC	580	Veracruz, Ver. Z-14	500	XETF	680
	500	CNRT	840		101	XEU	1000
	5000	CNRX	960	CUBA			
	5000	CPRY	690	Caibarien W-25	250	CMHD	920
Waterloo G-23	50	CKCR	1010	Cardenas W-24	30	CMGE	1375
Wingham G-23	25	10-BP	1200	Camaguey W-26	10	CMJA	1332
PRINCE EDWARD ISLAND					15	CMJC	1321
Charlottetown C-31	250	CFCY	960		5	CMJE	856
	100	CHCK	960	Ciego de Avila W-26	20	CMJB	1276
Summerside C-31	100	CHGS	1120	Cienfuegos W-25	200	CMHA	1154
QUEBEC					40	CMHJ	645
Montreal E-26	1650	CFCF	1030	Cifuentes	10	CMHH	870
	5000	CHYC	730	Colon W-24	100	CMGA	834
	5000	CKAC	730	Guanajay W-23	30	CMAA	1090
	5000	CNRM	730	Havana W-23	50	CMBA	1345
Quebec D-27	100	CHRC	645		150	CMBC	955
	22	CKCI	880		150	CMBD	955
	50	CKCV	880		7.5	CMBF	1345
	50	CNRQ	880		150	CMBG	1070
					30	CMBI	1405
					15	CMBJ	1285
					15	CMBK	1405
					15	CMBL	1500
					15	CMBM	1285
					30	CMBN	1405
					15	CMBP	1500

CFAC 690		CKAC 730	50	CMBS 790		CMHJ 645	
Calgary, Alta.		Montreal, Que.		Havana, Cuba		Cienfuegos, Cuba	
CFBO 890		CKCD 730		CMBT 1070		CMJA 1332	
St. John, N. B.		Vancouver, B.C.		Havana, Cuba		Camaguey, Cuba	
CFCA 840	353	CKCI 880		CMBW 1010		CMJB 1276	
Toronto, Ont.		Quebec, Que.		Havana, Cuba		Ciego de Avila	
CFCF 1030		CKCK 960		CMBX 1405		CMJC 1321	
Montreal, Que.	21	Regina, Sask.		Havana, Cuba		Camaguey, Cuba	
CFCH 1200		CKCL 580	85	CMBY 1405		CMJE 856	
North Bay, Ont.		CKCO 890		Havana, Cuba		Camaguey, Cuba	
CFCL 580		Ottawa, Ont.		CMBZ 1010		CMK 730	50
Toronto, Ont.		CKCR 1010		Havana, Cuba		Havana, Cuba	
CFCN 690		Waterloo, Ont.		CMC 845	352	CMKA 1450	
Calgary, Alta.		CKCV 880		Havana, Cuba		Santiago, Cuba	
CFCO 1210		Quebec, Que.		CMCA 1225		CMKB 1200	
Chatham, Ont.		CKFC 730		Havana, Cuba		Santiago, Cuba	
CFCT 630		Vancouver, B.C.		CMCB 1070		CMKC 1034	
Victoria, B. C.		CKGV 690		Havana, Cuba		Santiago, Cuba	
CFCY 960		Toronto, Ont.	57	CMCD 1345		CMKD 1100	
Ch'lottet'n, P.E.I.		CKIC 1010		Havana, Cuba		Santiago, Cuba	
CFJC 1120		Wolfville, N.S.		CMCF 890		CMKE 1249	
Kamloops, B. C.		CKLC 840		Havana, Cuba		Santiago, Cuba	
CFLC 1010		Red Deer, Alta.		CMCG 1285		CMKF 1363	
Prescott, Ont.		CKMC 1210		Havana, Cuba		Holguin, Cuba	
CFNB 1210		Cobalt, Ont.		CMCH 1285		Santiago, Cuba	
Fredericton, N.B.		CKMO 730		Havana, Cuba		CMKG 1176	
CFQC 910		Vancouver, B.C.		CMCJ 550		Santiago, Cuba	
Saskatoon, Sask.		CKNC 580	85	Havana, Cuba		Santiago, Cuba	
CFRB 960		Toronto, Ont.		CMCM 1500		CMQ 1150	
Toronto, Ont.		CKOC 1120		Havana, Cuba		CMW 588	80
CFRC 930		Hamilton, Ont.		CMCN 1225		Havana, Cuba	
Kingston, Ont.		CKPC 1210		Havana, Cuba		CMX 890	
CFCA 690		Preston, Ont.		Havana, Cuba		Havana, Cuba	
CFCK 960		CKPR 890		CMCQ 660		CMX 890	
Ch'lottet'n, P.E.I.		Port Arthur, Ont.		CMCQ 1150		Havana, Cuba	
CFCS 1120		CKUA 580		Havana, Cuba		CMRA 630	
Hamilton, Ont.		Edmonton, Alta.		CMCR 1285		Moncton, N.B.	
CFCT 840		CKWX 730		Havana, Cuba		CMRC 690	
Red Deer, Alta.		Vancouver, B.C.		CMCT 1500		Calgary, Alta.	
CFGS 1120		CKX 540		Havana, Cuba		CMRD 840	
Sum'rside, P.E.I.		Brandon, Man.		CMCU 1345		Red Deer, Alta.	
CFHS 730		CKY 780		Havana, Cuba		CMRH 910	
Vancouver, B.C.		Winnipeg, Man.		CMCX 1010		Halifax, N. S.	
CFML 880		CMAA 1090		Havana, Cuba		CMRL 910	
Hamilton, Ont.		Guanajay, Cuba		CMCY 1345		London, Ont.	
CFNS 910		CMAB 1249		Havana, Cuba		CMRM 730	
Halifax, N.S.		Pinar del Rio, Cu.		CMGA 834		Montreal, Que.	
CFRC 645		CMBA 1345		Colon, Cuba		CMRO 600	
Quebec, Que.		Havana, Cuba		CMGB 1185		Ottawa, Ont.	
CFWC 960		CMBC 955		Matanzas, Cuba		CMRQ 880	
Regina, Sask.		Havana, Cuba		CMGC 1315		Quebec, Que.	
CFWK 665		CMBD 955		Matanzas, Cuba		CMRR 960	
Chilliwack, B.C.		Havana, Cuba		CMGD 1140		Regina, Sask.	
CFYC 730		CMBF 1345		Matanzas, Cuba		CMRS 910	
Montreal, Que.		Havana, Cuba		CMGE 1375		Saskatoon, Sask.	
CFBR 960		CMBG 1070		Cardenas, Cuba		CMRT 840	353
Regina, Sask.		Havana, Cuba		CMGF 977		Toronto, Ont.	
CFJA 930		CMBI 1405		Matanzas, Cuba		CMRV 1030	
Edmonton, Alta.		Havana, Cuba		CMGH 1249		Vancouver, B.C.	
CFJB 880		CMBJ 1285		Matanzas, Cuba		CMRW 780	
Sydney, N.S.		Havana, Cuba		CMGI 1094		Winnipeg, Man.	
CFCJ 690		CMBK 1405		Matanzas, Cuba		CMRX 960	
Calgary, Alta.		CMBL 1500		CMHA 1154		Toronto, Ont.	
CFGC 910		Havana, Cuba		Cienfuegos, Cuba		CMRI 690	57
CFGX 630		CMBM 1285		CMHB 1500		Toronto, Ont.	
Yorkton, Sask.		Havana, Cuba		Sagua la Grande		HHK 920	
CFJC 1120		CMBN 1405		CMHC 790		Port au Prince, H.	
Lethbridge, Alta.		Havana, Cuba		Tuinucu, Cuba		KBPS 1420	
CFJB 1210		CMBP 1500		CMHD 920		Portland, Ore.	
Sea Island, B.C.		Havana, Cuba		Caibarien, Cuba		KBTM 1200	
CFJM 600		CMBQ 1405		CMHE 1429		Paragould, Ark.	
Moose Jaw, Sask.		Havana, Cuba		Santa, Clara Cu.		KCRC 1370	
CFRW 600		CMBR 1500		CMHH 870		Enid, Okla.	
Fleming, Sask		Havana, Cuba		Cifuentes, Cuba		KCRJ 1310	
				CMHI 1110		Jerome, Ariz.	
				Santa Clara, Cu.		KDB 1500	
						S. Barbara, Cal.	

KDFN 1210
 Casper, Wyo.
 KDKA 980
 Pittsburgh, Pa.
 KDLR 1210
 Devils Lake, N.D.
 KDYL 1290
 Salt Lake City
 KECA 1430
 Los Angeles, Cal.
 KELW 780
 Burbank, Cal.
 KEX 1180
 Portland, Ore.
 KFAB 770
 Lincoln, Nebr.
 KFBB 1280
 Great Fls., Mont.
 KFKB 1310
 Sacramento, Cal.
 KFBL 1370
 Everett, Wash.
 KFDM 560
 Beaumont, Tex.
 KFDY 550
 Brookings, S.D.
 KFEL 920
 Denver, Colo.
 KFEQ 680
 St. Joseph, Mo.
 KFGQ 1310
 Boone, Iowa
 KFH 1300
 Wichita, Kansas
 KFI 640
 Los Angeles, Cal.
 KFIO 1120
 Spokane, Wash.
 KFIU 1310
 Juneau, Alaska
 KFIZ 1420
 Fond du Lac, Wis.
 KFJB 1200
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 KFJF 1480
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 KFJJ 1370
 Astoria, Ore.
 KFJM 1370
 Grd. Forks, N.D.
 KFJR 1300
 Portland, Ore.
 KFJY 1310
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 KFJZ 1370
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 KFKA 880
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 KFKB 1050
 Milford, Kansas
 KFKU 1220
 Lawrence, Kans.
 KFKX 1020
 Chicago, Ill.
 KFLV 1410
 Rockford, Ill.
 KFLX 1370
 Galveston, Tex.
 KFMX 1250
 N'thfield, Minn.
 KFNF 890
 Shenandoah, Ia.
 KFOR 1210
 Lincoln, Nebr.
 KFOX 1250
 Long Beach, Cal.
 KFPL 1310
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KFPM 1310
 Greenville, Tex.
 KFPW 1340
 Ft. Smith, Ark.
 KFPY 1340
 Spokane, Wash.
 KFQD 1230
 Anchorage, Alas.
 KFQU 1420
 Holy City, Cal.
 KFQW 1420
 Seattle, Wash.
 KFRC 610
 San F'nscisco, Cal.
 KFRU 630
 Columbia, Mo.
 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.
 KFVD 1000
 Culver City, Cal.
 KFVS 1210
 Cape Gir'rd'u, Mo.
 KFWB 950
 Hollywood, Cal.
 KFWF 1200
 St. Louis, Mo.
 KFWI 930
 San F'nscisco, Cal.
 KF XD 1420
 Nampa, Idaho
 KFXF 920
 Denver, Colo.
 KFXJ 1310
 GrandJunc., Colo.
 KFXM 1210
 San Ber'd'no, Cal.
 KFXR 1310
 Oklahoma City
 KFYX 1420
 Flagstaff, Ariz.
 KFYO 1420
 Abilene, Texas
 KFZR 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.
 KGCA 1270
 Decorah, Iowa
 KGCR 1210
 Watertown, S.D.
 KGCU 1200
 Mandan, N.D.
 KGCV 1310
 Wolf P't, Mont.
 KGDA 1370
 Mitchell, S. D.
 KGDE 1200
 Ferg'a F'ls, Minn

KGDM 1100
 Stockton, Cal.
 KGDY 1200
 Huron, S. D.
 KGEF 1300
 Los Angeles, Cal.
 KGEK 1200
 Yuma, Colo.
 KGER 1360
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 KGEW 1200
 Ft. Morgan, Colo.
 KGEZ 1310
 Kalispell, Mont.
 KGFF 1420
 Shawnee, Okla.
 KGFG 1370
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 KGFI 1500
 Corpus Ch'sti, Tex
 KGfJ 1200
 Los Angeles, Cal.
 KGFK 1500
 Moorhead, Minn.
 KGFL 1370
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 KGFV 1310
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 KGFX 580
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 KGGC 1420
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 KGGF 1010
 Coffeyville, Kans.
 KGGM 1230
 Alb'q'rque, N.M.
 KGHF 1320
 Pueblo, Colo.
 KGHI 1200
 Little Rock, Ark.
 KGHL 950
 Billings, Mont.
 KGIR 1360
 Butte, Mont.
 KGIV 1420
 Trinidad, Colo.
 KGIX 1420
 Las Vegas, Nev.
 KGIZ 1500
 Grant City, Mo.
 KGJF 890
 Little Rock, Ark.
 KGKB 1500
 Brownwood, Tex.
 KGKL 1370
 San Angelo, Tex.
 KGKO 570
 Wichita Fls., Tex
 KGKY 1420
 Sand Point, Ida.
 KGKY 1500
 Scottsbluff, Nebr.
 KGMB 1320
 Honolulu, T. H.
 KGMP 1210
 Elk City, Okla.
 KGNF 1430
 No. Platte, Neb.
 KGNO 1210
 Dodge City, Kans.
 KGO 790
 San F'nscisco, Cal.
 KGRS 1410
 Amarillo, Texas
 KGU 940
 Honolulu, Hawaii
 KGVO 1420
 Missoula, Mont.

KGW 620
 Portland, Ore.
 KGY 1200
 Lacey, Wash.
 KHJ 900
 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.
 KLX 880
 Oakland, Cal.
 KLZ 560
 Denver, Colo.
 KMA 930
 Shenandoah, Ia.
 KMAC 1370
 San Antonio, Tex.
 KMBC 950
 Kan. City, Mo.
 KMCS 1120
 Inwood, Cal.
 KMED 1310
 Medford, Ore.
 KMJ 1210
 Fresno, Cal.
 KMLB 1200
 Monroe, La.
 KMMJ 740
 Clay Ctr., Nebr.
 KMO 860
 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.
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 KOCW 1400
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 KOH 1380
 Reno, Nevada
 KOIL 1260
 Council Bluffs, Ia.
 KOIN 940
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 KOL 1270
 Seattle, Wash.
 KOMO 920
 Seattle, Wash.

KONO 1370 San Antonio, Tex.	KTLC 1310 Houston, Texas	WAAM 1250 Newark, N. J.	WCAC 600 Storrs, Conn.
KOOS 1370 Marshfield, Ore.	KTM 780 Los Angeles, Cal.	WAAT 940 Jersey City, N. J.	WCAD 1220 Canton, N. Y.
KORE 1420 Eugene, Ore.	KTNT 1170 Muscatine, Iowa	WAAW 660 Omaha, Nebr.	WCAE 1220 Pittsburgh, Pa.
KOY 1390 Phoenix, Ariz.	KTRH 1120 Houston, Texas	WABC 860 New York City	WCAH 1430 Columbus, Ohio
KPCB 650 Seattle, Wash.	KTSA 1290 San Antonio, Tex.	WABI 1200 Bangor, Maine	WC AJ 590 Lincoln, Nebr.
KPJM 1500 Prescott, Ariz.	KTSL 1310 Shreveport, La.	WABZ 1200 New Orleans, La.	WCAL 1250 Northfield, Minn.
KPO 680 San F'nscisco, Cal.	KTSM 1310 El Paso, Texas	WACO 1240 Waco, Texas	WCAM 1280 Camden, N. J.
KPOF 880 Denver, Colo.	KTW 1270 Seattle, Wash.	WADC 1320 Akron, Ohio	WCAO 600 Baltimore, Md.
KPPC 1210 Pasadena, Cal.	KUJ 1370 Walla Wal., Wash.	WAU 640 Columbus, Ohio	WCAP 1280 Asbury Pk., N. J.
KPQ 1500 Wenatchee, Wash.	KUOA 1390 Fayetteville, Ark.	WALR 1210 Zanesville, Ohio	WCAT 1200 Rapid City, S. D.
KPRC 920 Houston, Texas	KUSD 890 Vermillion, S. D.	WAPI 1140 Birmingham, Ala.	WCAU 1170 Philadelphia, Pa.
KPSN 1350 Pasadena, Cal.	KUT 1500 Austin, Texas	WASH 1270 Gr. Rapids, Mich.	WCAX 1200 Burlington, Vt.
KQV 1380 Pittsburgh, Pa.	KVI 760 Tacoma, Wash.	WAWZ 1350 New York City	WCAY 1070 Carthage, Ill.
KQW 1010 San Jose, Cal.	KWL 1370 Seattle, Wash.	WBAA 1400 Lafayette, Ind.	WCBA 1440 Allentown, Pa.
KRE 1370 Berkeley, Cal.	KVOA 1260 Tucson, Arizona	WBAK 1430 Harrisburg, Pa.	WCBD 1080 Zion, Ill.
KREG 1500 Santa Ana, Cal.	KVOO 1140 Tulsa, Okla.	WBAL 1060 Baltimore, Md.	WCBM 1370 Baltimore, Md.
KRGV 1260 Harlingen, Texas	KVOS 1200 Bellingh'm, Wash.	WBAP 800 Fort Worth, Tex.	WCBS 1210 Springfield, Ill.
KRLD 1040 Dallas, Texas	KWCR 1310 Cedar Rapids, Ia.	WBAX 1210 Wilkes-Barre, Pa.	WCCE 810 Minneapolis, Minn.
KRMD 1310 Shreveport, La.	KWEA 1210 Shreveport, La.	WBBC 1400 Brooklyn, N. Y.	WCDA 1350 New York City
KROW 930 Oakland, Cal.	KWG 1200 Stockton, Cal.	WBL 1210 Richmond, Va.	WCFL 970 Chicago, Ill.
KRSC 1120 Seattle, Wash.	KWJJ 1060 Portland, Ore.	WBMM 1700 Chicago, Ill.	WCGU 1400 Brooklyn, N. Y.
KSAC 580 Manh'tt'n, Kans.	KWK 1350 St. Louis, Mo.	WBBR 1300 Brooklyn, N. Y.	WCHI 1490 Chicago, Ill.
KS CJ 1330 Sioux City, Ia.	KWKC 1370 Kansas City, Mo.	WBBZ 1200 Ponca City, Okla.	WCKY 1490 Covington, Ky.
KSD 550 St. Louis, Mo.	KWKH 850 Shreveport, La.	WBCM 1410 Bay City, Mich.	WCLB 1500 Long Beach, N. Y.
KSEI 900 Pocatello, Idaho	KWLC 1270 Decorah, Iowa	WBN 900 Buffalo, N. Y.	WCLO 1200 Janesville, Wis.
KSL 1130 Salt Lake City	KWSC 1220 Pullman, Wash.	WBFO 1310 Marquette, Mich.	WCLS 1310 Joliet, Ill.
KSMR 1200 Santa Maria, Cal.	KWWG 1260 Brownsville, Tex.	WBGF 1370 Glens Falls, N. Y.	WCMA 1400 Culver, Ind.
KSO 1380 Clarinda, Iowa	KXA 570 Seattle, Wash.	WBG 1440 Greensboro, N.C.	WCOA 1340 Pensacola, Fla.
KSOO 1110 Sioux Falls, S.D.	KXL 1420 Portland, Ore.	WBIS 1230 Boston, Mass.	WCOC 880 Meridian, Miss.
KSTP 1460 St. Paul, Minn.	KXO 1500 El Centro, Cal.	WBMS 1450 Hackensack, N.J.	WCOD 1200 Harrisburg, Pa.
KTAB 560 San F'nscisco, Cal.	KXRO 1310 Aberdeen, Wash.	WBNX 1350 New York City	WCOH 1210 Yonkers, N. Y.
KTAP 1420 San Antonio, Tex.	KXYZ 1420 Houston, Texas	WBOQ 860 New York City	WCRW 1210 Chicago, Ill.
KTAR 620 Phoenix, Ariz.	KYA 1230 San F'nscisco, Cal.	WBOW 1310 Terre Haute, Ind.	WCSC 1360 Charleston, S. C.
KTAT 1240 Ft. Worth, Tex.	KYW 1020 Chicago, Ill.	WBRC 930 Birmingham, Ala.	WCSS 940 Portland, Maine
KTBI 1300 Los Angeles, Cal.	KZM 1370 Hayward, Cal.	WBRE 1310 Wilkes-Barre, Pa.	WDAE 1220 Tampa, Fla.
KTBR 1300 Portland, Ore.	NAA 690 Arlington, Va.	WBSO 920 Needham, Mass.	WDAF 610 Kansas City, Mo.
KTBS 1450 Shreveport, La.	TIC 750 San Jose, C. R.	WBT 1080 Charlotte, N. C.	WDAG 1410 Amarillo, Texas
KTFI 1320 Twin Falls, Ida.	VAS 685 Glance Bay, N. S.	WBTM 1370 Danville, Va.	WDAH 1310 El Paso, Texas
KTHS 1040 Hot Bpgs., Ark.	WAAF 920 Chicago, Ill.	WBZ-A 990 Springfield, Mass.	WDAY 940 Fargo, N. D.

WDBJ 930		WFDW 1420		WHDL 1420		WJBO 1420	
Roanoke, Va.		Tallahadega, Ala.		TupperLake, N.Y.		New Orleans, La.	
WDBO 1120		WFI 560		WHEC 1440		WJBT 770	47
Orlando, Fla.		Philadelphia, Pa.		Rochester, N. Y.		Chicago, Ill.	
WDEL 1120		WFIW 940	36	WHFC 1420		WJBU 1210	
Wilmington, Del.		Hopkinsville, Ky.	72 1/2	Cicero, Ill.		Lewisburg, Pa.	
WDGY 1180		WFLA 620		WHIS 1410		WJBW 1200	
Minneap., Minn.		Clearwater, Fla.		Bluefield, W. Va.		New Orleans, La.	
WDIX 1500		WFOX 1400		WHK 1390		WJBY 1210	
Tupelo, Miss.		Brooklyn, N. Y.		Cleveland, Ohio		Gadsden, Ala.	
WDOD 1280	10 1/2	WGAL 1310		WHN 1010		WJDX 1270	
Chattanooga, Tenn.		Lancaster, Pa.		New York City		Jackson, Miss.	
WDRC 1330		WGAR 1450		WHO 1000	32	WJDD 1130	
Hartford, Conn.		Cleveland, Ohio		Des Moines, Ia.		Mooseheart, Ill.	
WDSU 1250		WGBB 1210		WHOM 1450		WJKS 1360	
New Orleans, La.		Freeport, N. Y.		Jersey City, N. J.		Gary, Ind.	
WDWF 1210		WGCB 1430		WHP 1430		WJR 750	47
Providence, R. I.		Memphis, Tenn.		Harrisburg, Pa.		Detroit, Mich.	
TUZC 1070		WGFB 630		WIAS 1420		WJSV 1460	
Wadswa, Ill.	12 1/2	Evansville, Ind.	33	Ottumwa, Iowa		Alexandria, Va.	
WEAF 660	63	WGBI 880		WIBA 1280		WJW 1210	
New York City	10 3/4	Scranton, Pa.		Madison, Wis.		Mansfield, Ohio	
WEAI 1270		WGBS 1180		WIBG 930		WJZ 760	45
Ithaca, N. Y.		New York City		Elkins Park, Pa.		New York City	
WEAN 780		WGCM 1210		WIBM 1370		WKAQ 890	
Providence, R. I.		Gulfport, Miss.		Jackson, Mich.		San Juan, P. R.	
WEAO 570	88	WGCP 1250		WIBO 560	91 1/2	WKAR 1040	
Columbus, Ohio		Newark, N. J.		Chicago, Ill.		E. Lansing, Mich.	
WEBC 1290		WGES 1360		WIBR 1420		WKAV 1310	
Superior, Wis.		Chicago, Ill.		Stuebenville, O.		Laconia, N. H.	
WEBQ 1210		WGH 1310		WIBU 1210		WKBB 1310	
Harrisburg, Ill.		Newsp't News, Va.		Poynette, Wis.		Joliet, Ill.	
WEBR 1310	92 1/2	WGL 1370		WIBW 580	25	WKBC 1310	
Buffalo, N. Y.		Ft. Wayne, Ind.		Topeka, Kansas		Birmingham, Ala.	
WEDC 1210		WGN 720	53	WIBX 1200		WKBF 1400	
Chicago, Ill.		Chicago, Ill.		Utica, N. Y.		Indianapolis, Ind.	
WEDH 1420	7	WGR 550	96	WICC 600		WKBH 1380	
Erie, Pa.	87	Buffalo, N. Y.		Bridgeport, Conn.		La Crosse, Wis.	
WEI 590		WGST 890		WIL 1200		WKBI 1420	7
Boston, Mass.		Atlanta, Ga.		St. Louis, Mo.		Chicago, Ill.	
WEHC 1200		WGY 790	41 1/2	WILL 890		WKBN 570	68
Emory, Va.		Schenec'd'y, N.Y.		Urbana, Ill.		Youngstown, O.	
WEHS 1420		WHA 940		WILM 1420		WKBO 1450	
Cicero, Ill.		Madison Wis.		Wilmington, Del.		Jersey City, N. J.	
WELK 1370		WHAD 1120		WIOD 1300		WKBS 1310	
Philadelphia, Pa.		Milwaukee, Wis.		Miami, Fla.		Galesburg, Ill.	
WELL 1420		WHAM 1150	15	WIP 610		WKBV 1500	
BattleCreek, Mich		Rochester, N. Y.	10	Philadelphia, Pa.		Connersville, Ind.	
WENR 870	32 1/2	WHAP 1300	37 1/2	WIS 1010		WKBW 1480	5 1/2
Chicago, Ill.		New York City		Columbia, S. C.		Buffalo, N. Y.	
WEPS 1200		WHAS 820		WISJ 780		WKBZ 1500	
Worcester, Mass.		Louisville, Ky.		Madison, Wis.		Ludington, Mich.	
WEVD 1300		WHAT 1310		WISN 1120		WKJC 1200	
New York City		Philadelphia, Pa.		Milwaukee, Wis.		Lancaster, Pa.	
WEW 760		WHAZ 1300		WJAC 1310		WKRC 550	46
St. Louis, Mo.		Troy, N. Y.		Johnstown, Pa.		Cincinnati, O.	
WEXL 1310		WHB 860		WJAG 1060		WKY 900	
Royal Oak, Mich.		Kansas City, Mo.		Norfolk, Nebr.		WKAQ 590	
WFAA 800		WHBC 1200		WJAK 1310		Be'n Spgs., Mich.	
Dallas, Texas		Canton, Ohio		Marion, Ind.		WLAB 1470	
WFAN 610		WHBD 1370		WJAB 890		Nashville, Tenn.	
Philadelphia, Pa.		Mt. Orab, O.		Providence, R. I.		WLAP 1200	
WFBC 1200		WHBF 1210		WJAS 1290		Louisville, Ky.	
Knoxville, Tenn.		Rock Island, Ill.		Pittsburgh, Pa.		WLB 1250	
WFBE 1200		WHBL 1410		WJAX 900	20	St. Paul, Minn.	
Cincinnati, Ohio		Sheboygan, Wis.		Jacksonville, Fla.	72	WLBC 1310	
WFBG 1310		WBGQ 1370		WJAY 610		Muncie, Ind.	
Altoona, Pa.		Memphis, Tenn.		Cleveland, Ohio		WLBF 1420	
WFB 1360		WBHU 1210		WJAZ 1490		Kansas City, Ka.	
Syracuse, N. Y.		Anderson, Ind.		Chicago, Ill.		WLBG 1200	
WFBM 1230		WFBY 1200		WJBC 1200		Ettrick, Va.	
Indianapolis, Ind.		Green Bay, Wis.		La Salle, Ill.		WLBL 900	
WFB 1270	10 3/4	WFDF 1370		WJBI 1210		Stevens Pt., Wis.	
Baltimore, Md.		Calumet, Mich.		Red Bank, N. J.		WLBW 1260	
WFD 1310		WHDH 830	36 1/2	WJBK 1370		Oil City, Pa.	
Flint, Mich.		Boston, Mass.		WJBL 1200		WLBX 1500	
WFDV 1370		WHD 1180		Decatur, Ill.		L.I. City, N.Y.	
Rome, Ga.		Minneap., Minn.					

WLBZ 620 Bangor, Me.		WNBR 1430 Memphis, Tenn.		WQAM 560 Miami, Fla.	912	WSJS 1310 Winst.-Sal., N. C.	
WLCI 1210 Ithaca, N. Y.		WNBW 1200 Carbondale, Pa.		WQAN 880 Scranton, Pa.		WSM 650 Nashville, Tenn.	25
WLEX 1410 Lexington, Mass.		WNBX 1200 Springfield, Vt.		WQAO 1010 New York City		WSMB 1320 New Orleans, La.	
WLEY 1370 Lexington, Mass.		WNBZ 1290 Saranac, L'ke, N.Y.		WQBC 1360 Vicksburg, Miss.		WSMK 1380 Dayton, Ohio	
WLIT 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.	715	WQDX 1210 Thomasville, Ga.		WSPA 1420 Spartanburg, S.C.	
WLS 870 Chicago, Ill.	323	WNYC 570 New York City		WRAF 1200 La Porte, Ind.		WSPD 1340 Toledo, Ohio	
WLST 1210 Providence, R. I.		WOAI 1190 San Antonio, Tex.		WRAC 1370 Williamsport, Pa.		WSSH 1410 Boston, Mass.	
WLTH 1400 Brooklyn, N. Y.		WOAX 1280 Trenton, N. J.	103	WRAW 1310 Reading, Pa.		WSUI 880 Iowa City, Ia.	
WLVA 1370 Lynchburg, Va.		WOBT 1310 Union City, Tenn.	734	WRAX 1020 Philadelphia, Pa.		WSUN 620 St. Petersburg, Fla.	723
WLW 700 Cincinnati, Ohio	55	WOBU 580 Charlest'n, W. Va.	85	WRH 1310 Tifton, Ga.		WSVS 1370 Buffalo, N. Y.	
WLWL 1100 New York City		WOC 1000 Davenport, Iowa	32	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.	70	WODX 1410 Mobile, Ala.		WRHT 1370 Wilmington, N.C.		WTAG 580 Worcester, Mass.	
WMAQ 670 Chicago, Ill.	61	WOI 640 Ames, Iowa		WRBK 1410 Roanoke, Va.		WTAM 1070 Cleveland, Ohio	183
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.	43
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.	037	WREC 600 Memphis, Tenn.	78	WTAX 1210 Springfield, Ill.	
WMBG 1210 Richmond, Va.		WOPI 1500 Bristol, Tenn.		WREN 1220 Lawrence, Kans.		WTBO 1420 Cumberland, Md.	
WMBH 1420 Joplin, Mo.		WOQ 1300 Kansas City, Mo.		WRHM 1250 Minneap., Minn.		WTEL 1310 Philadelphia, Pa.	734
WMBI 1080 Chicago, Ill.		WOR 710 Newark, N. J.	532	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.	19
WMBQ 1500 Brooklyn, N. Y.		WOS 630 Jeff's'n City, Mo.	70	WROL 1310 Knoxville, Tenn.		WTMJ 620 Milwaukee, Wis.	723
WMBR 1370 Tampa, Fla.		WOW 1130 New York City		WRR 1280 Dallas, Texas		WTNT 1470 Nashville, Tenn.	
WMC 780 Memphis, Tenn.	43	WOW 590 Omaha, Nebr.	81	WRUF 830 Gainesville, Fla.	322	WTOC 1260 Savannah, Ga.	
WMCA 570 New York City	89	WOWO 1160 Ft. Wayne, Ind.		WRVA 1110 Richmond, Va.		WVAE 1200 Hammond, Ind.	
WMFN 890 Fairmont, W. Va.	31	WPAD 1420 Paducah, Ky.		WSA 1330 Cincinnati, Ohio	9	WVJ 920 Detroit, Mich.	
WMPC 1500 Lapeer, Mich.		WPAP 1010 New York City		WSAJ 1310 Grove City, Pa.		WWL 850 New Orleans, La.	343
WMRJ 1210 Jamaica, N. Y.		WPAP 1010 New York City		WSAN 1440 Allentown, Pa.		WWNC 570 Asheville, N. C.	88
WMSG 1350 New York City		WPAT 1420 Paducah, Ky.		WSAR 1450 Fall River, Mass.		WWRL 1500 Woodside, N. Y.	
WMT 600 Waterloo, Iowa	78	WPEN 1500 Philadelphia, Pa.		WSAZ 580 Hunt'gton, W. Va.	83	WWSW 1500 Pittsburgh, Pa.	
WNAC 1230 Boston, Mass.		WPCH 810 New York City		WSB 740 Atlanta, Ga.	483	WWVA 1160 Wheeling, W. Va.	
WNAD 1010 Norman, Okla.		WPEN 1500 Philadelphia, Pa.		WSBC 1210 Chicago, Ill.		WXYZ 1240 Detroit, Mich.	12
WNAX 570 Yankton, S. D.	88	WPFG 1100 Atl'ntic City, N.J.		WSBT 1230 South Bend, Ind.		XEA 1000 Guad'l'jara, Mex.	
WNBF 1500 Bingh'm't'n, N.Y.		WPOR 1370 Patchogue, N. Y.		WSEN 1210 Columbus, Ohio		XEB 1030 Mexico City	
WNBH 1310 New B'd'f'd, Mass.		WPSA 1230 State College, Pa.		WSFA 1410 Montgomery, Ala.		XEC 1000 Toluca, Mex.	
WNBO 1200 Washington, Pa.		WPTF 680 Raleigh, N. C.	59	WSIX 1210 Springfield, Tenn.		XED 977 Reynosa, Mex.	

Letters From Readers

(Continued from page 26)

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

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

"I am a very ardent DXer and have hooked 476 stations since I started DX-ing five months ago. Have hooked CKWX, Vancouver, B.C.; CMBY, Havana; WBGF, Glen Falls, N. Y.; KCRJ, Jerome, Ariz.; KDFN, Casper, Wyo.; KOB, State College, N. M.; XEH, Monterrey, Mexico; CFCY, 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, KF1, 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 rewashed 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 powerhouse 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.

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 WFAF in New York. First we must ascertain the frequency for this station. Look it up under WFAF 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 WFAF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WFAF 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 610 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

KHO	1896	Spokane, Wash.
WJCF	510	Linton, N.H.
WFI	509	Boston, Mass.
WJEX	1809	Greenville, N.C.
WEMC	1809	Berrien Springs, Mich.

600 kilocycles 499.7 meters

CFCH	258	Requena Falls, Ont.
CFCH	258	Linton, N.H.
KFSJ	900	Laramie, Wyo.
WJCF	510	Dartmouth, Calif.
WJAN	300	Baltimore, Md.
WEAW	238	Deloit, Va.
WJUN	300	Lawrenceburg, Tenn.
WJAC	300	Memphis, Tenn.
W TIC	258	Harford, Conn.

610 kilocycles 491.5 meters

KJRC	1800	San Francisco, Calif.
WJUN	300	Baltimore, Md.
WJAN	300	Philadelphia, Pa.
WJCF	300	Harford, Pa.
WJQ	1800	Kansas City, Mo.

620 kilocycles 483.6 meters

KPAD	900	Phonix, Ariz.
KJUN	1800	Portland, Ore.
WJUN	1000	Tampa, Fla.
WJUN	1000	Orlando, Fla.
WJCF	500	Dover, N.Y.
WJUN	1800	Milwaukee, Wis.

630 kilocycles 475.9 meters

CFCH	258	Victoria, B. C.
CFCH	258	Linton, N.H.
CFSA	510	Albion, N. Y.
CFSA	258	Madison, N.J.
KJUN	500	Columbia, Mo.
KJUN	500	Greenville, S.C.
WJAL	258	Washington, D. C.
WJCF	500	Jefferson City, Mo.

640 kilocycles 468.5 meters

KFI	1800	San Francisco, Calif.
WJUN	300	Columbus, Ohio

650 kilocycles 461.3 meters

WSM	800	Nashville, Tenn.
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660 kilocycles 454.3 meters

WJAW	500	Omaha, Neb.
WJAF	5000	New York City

670 kilocycles 447.5 meters

WJAO	300	Chicago, Ill.
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680 kilocycles 440.9 meters

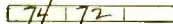
KPO	500	San Francisco, Calif.
WPTF	500	Raleigh, N. C.



Loide Warner, Inc.
 Nebraska Wesleyan University
 Edison Rec. Illustrating Co.
 Woodland of the World
 Emmanuel Missionary College



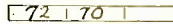
Abilith Flower & Paper Co.
 Joseph N. S. Thomas
 Arden Radio Co.
 Commercial Radio Co., Inc.
 Blair College
 National School of Music
 W.R.H., Inc.
 Travelers Insurance Co.



Don Lee, Inc.
 Kansas City Star Co.
 Krypton Broadcasting Co., Inc.
 Citizen of Chicago
 Unity School of Christianity



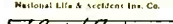
Biometrical Equipment Co.
 Oregonian Publishing Co.
 Empire Publishing Co.
 Rollins College, Inc.
 Thompson & Greenleaf
 Milwaukee Journal



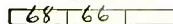
Virginia Broadcasting Assn.
 W. J. R. Radio Exchange
 Carolina National Hallways
 East of the Sun
 Stephens College
 Southern States Coll. of Ed.
 M. A. Lerner, Inc.
 Bare Marketing Bureau



East C. Anthony, Inc.
 American Insurance Union



National Life & Accident Ins. Co.
 Omaha Grain Exchange
 National Broadcasting Co., Inc.



Chicago Daily News, Inc.



Main Bros. & The Chronicle
 Burnham Life Insurance Co.

Free



MEN!

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It shows you

How to get a good job in the Radio Industry

Hundreds of Jobs paying \$50, \$60, \$75, \$100 a week are opening in Radio every year.

I showed these men how to get *Big Pay* jobs like these

Seldom Under \$100 a Week

"My earnings in Radio are many times bigger than I ever expected they would be when I enrolled. In November

I made \$577. December \$645, January \$465. My earnings seldom fall under \$100 a week.

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\$3000 a Year in Own Business

"I cannot give N. R. I. too much credit for what I have been able to do in Radio. I can safely say that I averaged \$3000 a year for the past three years. Any man who really wants to advance cannot go wrong in Radio. There is certainly a lack of trained men."

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NATIONAL RADIO INSTITUTE

If you are earning a penny less than \$50 a week, send for my book of information on opportunities in Radio. It is free. Radio's amazing growth is making hundreds of fine jobs every year. My book shows you where these jobs are, what they pay, how I can train you at home in your spare time to be a Radio Expert.

Many Earn \$50 to \$100 a Week

Broadcasting stations pay \$1,800 to \$5,000 a year. Manufacturers continually need trained men, for jobs paying up to \$15,000 a year. Shipping companies use hundreds of operators. Dealers and jobbers are always on the lookout for men, and pay \$30 to \$100 a week. Talking Movies pay as much as \$75 to \$200 a week to men with Radio training. There are openings almost everywhere to have a spare time or full time Radio business of your own—to be your own boss. Radio offers many other opportunities. My book tells you about them.

New 8 Outfits Give You Extensive Practical Radio Experience

With me you not only get the theory of Radio—you also get practical Radio experience while learning. You can build over 100 circuits—build and experiment with the circuits with the Laboratory Outfits I give you. When you finish my course you won't need to take "any old job" just to get experience—you will be trained and experienced, ready to take your place alongside men who have been in the field for years.

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Hold your job until you are ready for another. No need to leave home. All I ask is part of your spare time. I have doubled and tripled the salaries of hundreds through my practical home-study training. You don't have to be a high school or college graduate. My course is written in easy, simple terms that most anyone can understand.

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