

THE JANUARY 1931

RADIO INDEX

The Magazine that Doubles the Pleasure of Radio



25¢

How to Build a Short Wave Adapter

A Grounded Aerial Brings
Surprising Results

No. 45

N. S. E.



One of these Boys Will Fail - IF

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

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

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

STAMMERING ITS CAUSE AND CURE

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

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

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

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

BENJAMIN N. BOGUE,
14 52 Bogue Building,
1147 N. Illinois St., Indianapolis, Ind.

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

Name

Address

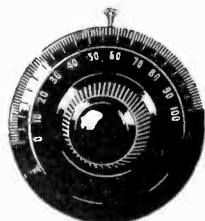
THE JANUARY 1931

RADIO IN DEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



SEVENTH YEAR

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BUILDING Short Wave ADAPTER

WITH the increased interest in short-wave reception many radio fans having sets designed for use on the regular broadcast waves, are wondering how they can build an adapter at a minimum cost, which will give them satisfactory short-wave reception. Having this general demand in view we are herewith presenting a two-tube, screen-grid adapter circuit which has been found to give entirely satisfactory reception on the lower waves when used in conjunction with a battery-operated receiver. The adapter described in this article should not be used on all-electric receivers owing to the introduction of hum and line noises. A. c. adapters have not yet proved to be generally satisfactory and if you have an a. c. set, it is advisable to build a separate audio amplifier for the adapter, both the adapter and the amplifier being built on a single baseboard, thus really making a complete short-wave set.

Good short-wave reception is possible only with the use of apparatus especially designed for the purpose. For this reason it is quite a compromise to use plug-in short-wave coils in the r. f. stages of a regular broadcast receiver as the .0005-mfd. variable condensers, with which most broadcast receivers are usually equipped, are too large in capacity for use with the coils designed for short-wave work. The adapter shown and described in this article is really a separate r. f. amplifier plus a detector, and it is plugged into the detector stage of the broadcast receiver, utilizing only the audio amplifier of the latter. In this way it is possible for you to tune in short-wave signals by building this simple adapter yourself, which will afford you interesting diversion besides effecting quite a saving.

The Parts Necessary

All that is necessary are a set of three or four short-wave coils covering the 20, 40, 80 and 150-meter wavebands, a few fixed and variable condensers, two tubes and sockets and a few resistors, besides a panel, baseboard and a suitable

With Plans and Parts

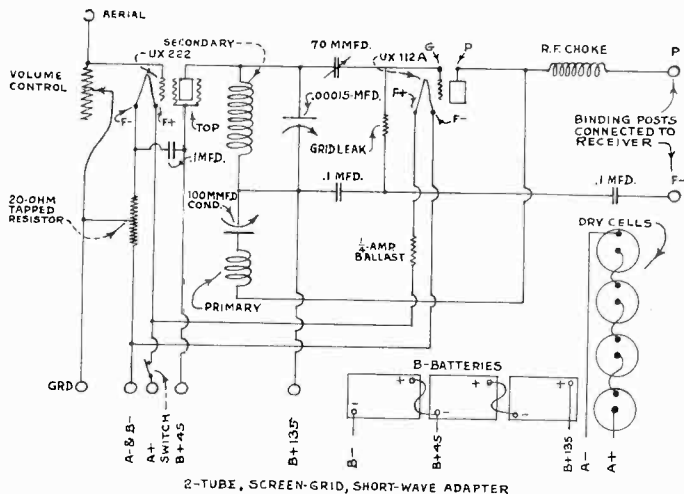
By J. B. Smith

cabinet, although the latter can be eliminated if desired. The cost of these parts is much less than that of a regular complete short-wave receiver, and to all practical purposes it is just as good for those who wish to listen in occasionally. The complete list of materials for the adapter are as follows:

- 1 Electrad Tonatrol, Type P Variable Resistor for use as a volume control.
- 1 20 ohm, center-tapped resistor of the fixed type.
- 1 two to four-megohm grid leak and mounting.
- 1 4-ohm $\frac{1}{4}$ amp. ballast such as a No. 1A Amperite.
- 1 radio frequency choke coil such as the Hammarlund No. 250.
- 3 fixed condensers .1-mfd.
- 1 filament switch.
- 1 set of three or four plug-in short-wave coils with a condenser to match and a suitable mounting or socket which comes with the coils.
- 1 100-mmfd. variable condenser used for a sensitivity control.
- 1 70 mmfd. variable condenser.
- 1 UX-222 screen-grid tube and socket.
- 1 UX-112A tube and socket.
- 1 Hammarlund "Swap" adapter and cable which makes connection to the F and P terminals of the detector socket in the receiver.
- 8 binding posts.
- 1 bakelite panel about 7x14 inches.
- 1 suitable wood or bakelite subpanel or baseboard.
- 1 cabinet if desired.

Any type of short-wave coils made by a reputable manufacturer are satisfactory for the purpose, but care must be taken to get a variable condenser to match. Usually both the coils and the condenser come together in the form of a kit.

The storage battery which is used on the receiver can also be used for supplying the filament current to the adapter,



although four dry cells, connected in series as shown in the diagram, can be substituted, while three 45-volt B-batteries supplying the receiver, also furnish plate current for the adapter.

The Assembly

In assembling the parts, four controls are mounted on the panel, namely, the tuning knob, the filament switch, the volume control and the sensitivity control, which is the 100-mmfd, variable condenser. The other parts are laid out on the baseboard as neatly as possible and in such a way that the leads connecting them will be as short as possible, especially the grid and plate leads. Also be sure not to run the grid and plate leads parallel to each other. It is better to make these leads longer in order to run them at right angles to each other. Follow the wiring diagram, Fig. 1, carefully. Solder all connections, using flux that will not cause corrosion, which, of course, eliminates acid flux of all kinds. The coils, one of which is used at a time, are plugged into the coil mounting or socket. Each coil covers a definite waveband below the broadcast range. A screen-grid tube is used for the r. f. stage in the adapter as its amplification value is greater than that of a UX 201A tube, and as it serves to block feedback and thus prevent radiation caused by too much regeneration. You will note

that the regeneration system employed in this case is not directly coupled to the antenna circuit. For a detector, a 112A tube has been found most satisfactory in short-wave work, although a 201A tube can be substituted if desired, especially when working on the lower wavelengths. It was found that a UX 200A tube was too noisy for use as a detector in this adapter although it was sufficiently sensitive. The binding posts should be mounted on small bakelite strips held up by suitable brass brackets. Two binding posts are used for the aerial and ground, four for the battery connections and the cord on the adapter plug is connected to the remaining two, which form the output, marked F and P. The plug is substituted for the detector tube of the receiver when the adapter is used.

Connecting to Set

It is a comparatively simple matter to hook up the adapter, which is done in the following way: Disconnect the aerial from the receiver and connect it to the adapter binding post marked "aerial." Connect a ground lead to the "ground" binding post of the adapter. This may be a separate lead or it may be the regular ground lead of the receiver. Leads are then run from the terminals on the storage battery to the A-pos. and A-neg. binding posts of the adapter,

(Continued on page 18)

Some QUESTIONS are ASKED

And Some Are
Answered

I FIND that a large number of DXers cannot get Maine, New Hampshire or Vermont," writes Bruce P. Lundy, Jr., R.F.D. 2, Jersey Shore, Pa. "Is this because the stations are not powerful enough, or is it because the New York, Hartford and Boston stations drown them out?" Mr. Lundy has installed the U.S. standard ground described in a recent number of RADEX and says, "I would by all means recommend this ground. It is an excellent ground because it gives a low resistance. I do not have a quarter the noise I used to have on my set."

"Here is a little information for those who have not tuned in New Hampshire and Vermont stations," writes Robert R. Rawstron, 31½ Sullivan Street, Claremont, N. H., "WKAV Laconia, N. H., 1310 kcys., Saturday evenings 7:00 to 8:30, and third Sunday in each month from 3:00 a.m. to 5:00 a.m. WNBX Springfield, Vt., 1200 kcys., Fridays 1:00 to 2:00 p.m.

"What has become of 6BY?" asks Mr. Rawstron. This is now station CMHA, last heard from on 1150 kcys.

"What station operates on 1440 kcys. from the Drake Hotel, Chicago," asks a reader from Pekin, Ill. We hazard the guess that this is a harmonic of WGN, 720. This reader says that KGGF now announces from Coffeyville, Okla., although other readers report this station from Coffeyville, Kansas.

"You have WBBZ at Ponca City, Okla.," states Victor J. Balt, 226 Sumner Avenue, Aurora, Ill., "but I heard from them November 9th and they gave their location as Arkansas City, Kansas." Commission still shows them at Ponca City. Have they moved? Mr. Balt sets up the target of KCRC Enid, Okla., which he states is on the air every Wednesday and Saturday night until 8:30 the next morning.

"Have noticed on Sundays that stations WOAX Trenton, N. J., and WHAP

New York, announce call letters together and wonder if they have combined. These two stations are on different frequencies," comments L. A. Deuchar, 119 N. 51st Street, Philadelphia, Pa.

Station Queries

"WIAS Ottumwa, Iowa, has moved from 1420 kcys. to 1500, according to their own announcement," states Paul L. King, 1523 Madison Street, Madison, Wis. No notice to this effect from the Commission. How about it?

"Late Saturday afternoon, November 15th, while tuned in on 1100 kcys. I heard announced WALL, Wallingford, Conn.," writes Isaac O. Harper, 448 C Avenue, Coronado, Calif. "Can you throw any light on this station?" The Commission shows no such station, nor any station, in Wallingford. Perhaps some of our eastern readers can report.

From John W. Christie, 4136 Dorchester W., Westmount, Montreal, Que.: "November 22nd at 11 p.m., EST, while on WEAFF I could hear women's voices singing right in back of WEAFF's signal. They were rather faint and I was able to hear them only between numbers on WEAFF. At 11:15 it was instrumental music, guitars or Hawaiian. It was not a part of WEAFF's program and it was not anything spread from stations on either side as their programs were entirely different." Has any other reader had a similar experience on 660?

"Is station WEHS Evanston, Ill., still on the air?" asks Victor J. Balt, 226 Sumner Avenue, Aurora, Ill. "The last time I had them was two months ago and I wrote them but my letter came back marked 'no such address.'" The last list of the Commission still shows this station as "WEHS Inc., Evanston, Ill."

From Allen W. Mummey, R. 2, Walnutport, Pa.: "I wonder if a stage of screen-grid radio frequency (a screen-grid booster as made by the National) would help me to get a little more distance? I wish some of the users of such an accessory would let me know."

"Wednesday night, November 12th, at 9:45 p.m., EST., I heard a program

on 1400 kcys. announced in German and a song sung in the same language," says Charles Foster, 120 Hall Avenue, Colvin Station, Syracuse, N. Y. "Have you any idea what this station can be?" Can any of our readers enlighten Mr. Foster?

Joe Ribinski, 53 Kittell Avenue, Yonkers, N. Y., asks for information regarding a Pilot Wasp short wave set. He would like to hear from some reader who is getting good reception on such a

to know when NBA, TIX and VAS are on the air.

Robert N. Brengle, Paris, Ill., and others, want to know if KDKA has finished its tests in synchronization. Mr. Brengle adds, "Keep up the good work of publishing your admirable little magazine, the best of its kind, while we fans listen, hope and pray that in some far-distant day radio announcers decide to give their call letters at least every three hours instead of giving us lessons



Lowell Thomas, writer and lecturer, whose adventures have carried him to the far corners of the earth, is the interpreter of the day's news on the Literary Digest Program. Every week-day at 6:45 E.S.T. over the National (WJZ) network.

set, regarding the requirements such as tubes, batteries, aerial, ground, etc.

Paul Nessler, 266 Born Street, Secaucus, N. J., would also like to learn something of the results that have been secured with the Pilot Super-Wasp.

L. Y. Briscoe, 3743 Hutchison Street, Montreal, asks for information as to what station announces as "The Smallest Station in America." Can any reader answer?

John J. Barlow, Berkeley, Calif., wants to know if KNX has increased its power. He states that he received them very loud at 4 o'clock on a clear, warm day and thinks they must be using at least 50,000 watts.

Joseph Brocius, 1746 West Chestnut Street, Shamokin, Pa., who has made a wonderful record in DX work, wants

in the orthographical construction of Bulova which by this time we can spell perfectly anyway."

"WBBM and KFAB hetrodyne every day with WBBM getting in more words than KFAB," writes Gerald McGrath, 2211 South Clinton Street, Sioux City, Iowa. "I don't think KFAB should be the one to sign off as they have A-1 programs and WBBM broadcasts more hours per day. KMA Shenandoah, Iowa, is another that needs a little help. About 4:15 or 4:30 every afternoon, the interference starts on their station and entirely ruins their program. In the evening they absolutely cannot be heard."

The inquiry of O. W. Desmond is answered by Jack A. Bachman, 204 North 34th Street, Philadelphia. "Mr.

(Continued on page 20)

WHISTLES and SQUEALS

The Technical Editor Prescribes

Volume Control Reduces Signal

I have a Crosley eight-tube, screen-grid receiver and I cannot get volume on it as I should. When I turn up the volume control and it gets halfway, the signals get weaker instead of stronger. New tubes have not remedied the trouble. Can you kindly advise how to cure it

Your trouble that reception is muffled or deadened when the volume control is turned up beyond a certain point, is generally caused by the "loading up" of a tube. Often the plate voltage of the detector tube as well as that of the screen-grid tubes is too much, and there is more amplification of the signal than the detector can pass. The remedy is reduction of voltage until the volume control acts correctly. In other cases wrong C-bias is the cause of overloading, owing to one or more defective resistors, or a resistor in the circuit may be open. Proper adjustment of commercial receivers should be made by the service men of the concern handling them.

Logging Troubles in Super

I have a Northern-Electric Superheterodyne receiver with six 199 tubes and a 201A tube for the power stage. I am using a thirty-foot aerial and intend to erect a longer one. The trouble I am having is that stations come in at several points on the dials and that the same stations never come in at the same dial readings, making it impossible to log them. I checked over the wiring very carefully with a dry cell and a pair of headphones but found all connections in good condition. I substituted new tubes but the trouble still persists. The set has eight variable controls on the panel. I live in Toronto, Canada, and have been getting San Francisco until lately and the set works fine in every other way except that mentioned. How should I go about curing the trouble?

On the average superheterodyne there are two points at which the same station comes in. One of them is the fundamental

and the other is the harmonic. Sometimes superheterodyne receivers have several harmonics besides the fundamental. So really, this peculiarity is not abnormal with this type of receiver. In your case, however, there are more variable controls on the panel than usual and this accounts for the impossibility of getting stations repeatedly at the same points on the dial. It would be a good idea to experiment with the variable controls as follows: Set them for maximum volume, especially the coupling. Then without touching any controls except the two tuning dials and the volume control, tune in a number of stations. The same stations should always come in at the same points if the other dials are not moved. Another factor that often influences the tuning on a superheterodyne receiver is the oscillator tube. One tube is better suited for this purpose than another, and by changing them around you can readily determine which one is best. It should also be remembered that any change in the intermediate-frequency plate voltage will also cause a change in the dial readings.

Station Blankets Dial

Will you kindly explain the purpose and proper use of a shielded lead-in wire? I have recently put up a first-class aerial about sixty feet long, and am using between thirty and forty feet of shielded lead-in wire, with the shield grounded. I found that this reduced the volume considerably so that I was barely able to hear a signal. I then inserted a .00007-mfd. fixed condenser between the shield and ground, and and this prevents the reduction in volume. Another thing I do not understand is this: I get very good reception on numerous stations in all sections of the country. I have a very good set, an R. C. A. No. 80, a fine location, and a good aerial and ground. Yet one of the local stations comes in so weak that I have to disconnect the ground lead from the set to increase the volume. Can you suggest any reason for this phenomenon? It is rather incon-

(Continued on page 20)

BROADCASTING RELAY STATIONS

A List of the Short Wave Transmitters

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

This Month's Changes

Call Letters:

KMIC Inglewood, Cal., 1120 keys., now KMCS.
 WRBU Gastonia, N. C., 1210 keys., now WSOC.
 WFKD Philadelphia, Pa., 1310 keys., now WTEL.
 WBNY New York, N. Y., 1350 keys., now WAWZ.
 WBAM Greensboro, N. C., 1440 keys., now WBIG.
 WORD Chicago, Ill., 1490 keys., now WCHI.

Deleted:

XFA Mexico City, 540 keys.
 KFHA Gunnison, Colo., 1200 keys.
 WMAY St. Louis, Mo., 1200 keys.
 WCSO Springfield, Ohio, 1450 keys.
 WFJC Akron, Ohio, 1450 keys.

Power:

KFYR Bismarck, N. Dak., 550 keys., 500 to 1000.
 WIBW Topeka, Kans., 580 keys., 500 to 1000.
 CKPC Preston, Ont., 1210 keys., 25 to 50.
 KFKU Lawrence, Kans., 1220 keys., 1000 to 500.
 WFBR Baltimore, Md., 1270 keys., 250 to 500.
 WJDX Jackson, Miss., 1270 keys., 500 to 1000.
 KID Idaho Falls, Ida., 1320 keys., 500 to 250.
 WQDM St. Albans, Vt., 1370 keys., 5 to 100.

Frequencies:

CNRE Edmonton, Alta., 930 to 580.
 XFI Mexico City, 590 to 818.
 XEZ Mexico City, 700 to 588.
 XET Mexico City, 630 to 890.
 XFC Jalapa, Mex., 630 to 805.
 XFE Villahermosa, Mex., 920 to 632.
 XEO Mexico City, 980 to 674.
 XEM Tampico, Mex., 765 to 841.
 CHNS Halifax, N. S., 930 to 910.
 CNRH Halifax, N. S., 930 to 910.
 XEX Mexico City, 920 to 1300.
 XFF Chihuahua, Mex., 920 to 915.
 XEH Monterrey, Mex., 960 to 1132.
 XEB Mexico City, 670 to 1091.
 XEC Toluca, Mex., 1330 to 1133.
 WIBU Poynette, Wis., 1310 to 1210.

New Stations:

XEQ Ciudad Juarez, Mex., 750 keys.
 XEK Mexico City, 1000 keys.
 XEG Mexico City, 970 keys.
 XEV Puebla, Mex., 1035 keys.
 XETA Mexico City, 1100 keys.
 KGVO Missoula, Mont., 1420 keys.
 WSYB Rutland, Vt., 1500 keys.

Reinstated:

WBQQ New York City, 860 keys.
 WRBI Tifton, Ga., 1310 keys.

"LET'S CALL a MEETIN'"

A Forum For Our Readers

Arnold Ridings, who signs himself "Just a Soldier," Fort McDowell, Calif., calls our attention to the fact that the new map shows Holy City near Los Angeles when it should be near San Francisco. We can't explain this unless there has been an earthquake that we haven't heard about. Mr. Ridings has had some cards printed to use in verifying reception, which he says have doubled his replies. One side of the card is self-addressed and the other contains a verification of reception so that the station merely has to fill in the date and sign it. Mr. Ridings closes his letter by saying, "Your magazine, RADEX, is absolutely, positively the greatest, finest, big-little radio informative in the world, and believe me I've tried scores of them."

Jerry S. Gascon, 537 W. 44th Street, New York City, has this to say about the new map: "Every radio listener should have one like it near his set, because it is so clear, so easy to find the city that you're hearing, and in a few seconds you can tell how far it is from your town."

Laurence Angel, Jr., sports editor of the Tarrytown Daily News, Tarrytown, N. Y., writes, "Incidentally I find the new RADEX map the best I have come across in eight years. Like RADEX it fills the bill. The distance hound must have it when he is roaming the ether for a new thrill." Mr. Angel says that he is not such an envious fan as to question the foreign reception of others, even if his present receiver, a 7-tube screen-grid model, has never yet taken him across the ocean, although KNX on some nights comes in very loud. He would like to find the secret of snaring signals from points well outside the boundaries of the U.S.A. We are sorry we have no inside information to offer Mr. Angel and other inquirers. Many of the authentic foreign records have been made on ordinary sets. Foreign reception seems to be the result of a combination of a

number of factors and there is no royal road to it.

A number of readers call our attention to numerous changes the Cuban stations are making. James L. Cavanagh, Jr., 101 North Spring Avenue, LaGrange, Ill., and several others, send us lists of the Cuban stations sent to them from Cuba, but even these lists are not at all accurate. Our readers will be glad to know that we have arranged with a correspondent in Havana to supply us each month with any changes in frequency, power, location, etc., of stations in that country. We hope to receive the first report in time to include it in this issue.

From Earl R. Roberts, 4310 East 30th Street, Indianapolis, Ind.: "Those Cuban stations must be jumping waves something awful. I have heard several I'd like to identify. One came in at about 585 keys. between WOW and WSAZ." (This was probably CMW on 588.) "I heard a Spanish-speaking station on the same wave as WABC, but according to my loop it came from the direction of



Miss Corinne Jordan, program director of KSTP, meets Mr. Televoz, the automatic man who obeys "his master's voice"

Cuba rather than Mexico." Mr. Roberts has now heard a total of 465 stations.

Mrs. W. R. Horton, 512 Sixth Street, N., Great Falls, Mont., wants us to publish the Pacific coast networks, as there are many good programs there. We endeavored to do this at one time, but owing to the distance the programs reached us too late to be of any value and we have had to content ourselves with the Pacific coast stations on the regular NBC and Columbia networks. "Tonight the radio reception is very unusual," comments Mrs. Horton. "We have had WTAM as clearly as our own local station, WJZ came in clearly before 9 o'clock, and WTIC, WGP and WEAJ have come in as loud as our west coast stations do. Even WSB, WSM and WRVA have come in well and they gave me quite a thrill because I have never had them before."

Several readers answered the inquiry in the December issue regarding WRDS. Stanley H. Bond, Oakland, Md., reports that he has a verification from this station showing that it is owned by the Michigan State Police, is located at East Lansing, Mich., and broadcasts on 1603 kcys. They broadcast police information, but also use musical programs in testing. WRBE in the same inquiry is a ship station according to Ivan D. Ives, Box 312, Genoa, Ill., and the name is the "John Purroy Mitchell."

The inquiry by "Miss Anonymous," Helena, Mont., as to the foreign station received on 1110 kcys. is believed to be KTRH Houston, Texas, by H. J. Jandron, 77 Marion Road, Watertown, Mass. "They announce in both English and Spanish and fooled me the first time I got them. The reason she has to use so much power is that she is ten kcys. off the proper frequency. Ask her to try them on 1120 under the same conditions and see how she makes out."

Regarding WCLB Long Beach, N. Y., F. E. Wilkes, Ossining, N. Y., writes that this station has been inactive about a year although it is still licensed. Mr. Wilkes is worried about the ethics of counting as stations received those that have come in on harmonics of short waves, and would like to know what other DXers think about it.



Did you hear "Bill" Munday, he of the Georgia drawl, describe the "Knutre" Dame and Southern California football battle?

Raymond I. Keim, Box 107, Shamokin, Pa., thinks that the interference complained of with WMC may have been XEW Mexico City. He has been receiving this station nightly since November 24th but has interference with WBBM until the latter signs off at 1:00 a.m. and then XEW comes in strong.

"I received my copy of 'Radio Trouble Shooting' and say, *there is a book*. I've learned more about radio in the week I've had it than I've ever known in the four or five years I've been in radio. A great book!" is the comment of K. J. Loudon, P.O. Box 523, Orangeville, Ont. "I have added another 100 feet to my present aerial and now I have a 300-foot aerial in between two supports 30 feet apart. Sounds impossible, but it does the best job in town."

One reader asks how it was possible for Guy B. Welsh, 144 Brown Street, Reynoldsville, Pa., to receive both WBTM and WLVA during the same moment, as he stated in the December issue, in view of the fact that these two stations share time. Mr. Welsh explains that he happened to tune in this frequency at the moment they switched

(Continued on page 24)

PUZZLES are GETTING TOUGHER

So Are Our Puzzlers

NEARLY 150 copies of RADEX sent out as premiums for correct solutions of the November puzzle! Something surely will have to be done about this. Our puzzlers are getting altogether too good. No wonder they asked for something harder. Well, the December puzzle will probably hold them a while and now for January we are going to have something even harder. Remember, you asked for it.

Some of our readers want us to list the owners of stations alphabetically and others want us to print a list of slogans. If we were to make it any easier to solve these puzzles than they are now, we would have to print the month through just to supply copies for premiums. One or two complained that some of the keys referred to the new map of which they didn't have a copy. We did this to test the ingenuity of our readers. Here's the secret. The map wasn't necessary because the Index by States gives the new map key and "N-15 on the new map" can be very easily found in this index if one knows his geography.

Walter Kolojay, 5031 Northcote Ave., East Chicago, Ind., says he solved the November puzzle in twenty-one and one-half minutes and Billy McQuade, 6617 Leland Way, Hollywood, Calif., says it "took only two of his study periods in school!"

It's too early in the month as we write this for us to comment on the returns on the December puzzle. We thought it would be pretty hard but maybe not. Anyway, here is the correct solution:

wRvAsDvEwXew IaSxe TaHwEl
kWpEnBaSbTkEgRmSk
kUtNaAaBwRrIkDbGkExDq
wOcFrcRlAwDelpOw

The list of stations from left to right are: WRVA, VAS, WEVD, XEW, WIAS, XET, WHAT, WELK, WPEN, NBA, KTBS, KREG, KSMR, KUT,

NAA, WBAA, WRR, KDBG, KGB, KEX, WQDX, WOC, CFRC, WALR, WADC, WOPI.

We found that the call for "In a State Capital" KUT could also be answered by KFUP, Denver, and therefore counted as correct either of the two solutions. In spite of our very best endeavors to make no mistakes in compiling these puzzles, errors just will creep in. "One of the three 250-watters in its state" should have been "one of four," KGB. And one of the letters I in the puzzle was not used in any call.

S O L O



T R I O

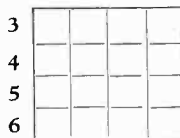
But if you think that was a hard one, just try this one. We want to change the first word in each of these puzzles, into the last word. We do this by changing *two* of the letters in each word to give us the call of a station as shown in the Index by Call Letters in the December RADEX. We must not change the order of the letters. Thus, in the first puzzle shown we want to change SOLO into TRIO. We keep the O-O and change S to W and L to K, giving us WOKO. Now we keep the W and the second O, changing the first O to R and the K to D, giving us WRDO. We now keep the R and O and change the W to T and the D to I thus solving the puzzle. Now you can proceed on your own and make TUBE GLOW.

T U B E

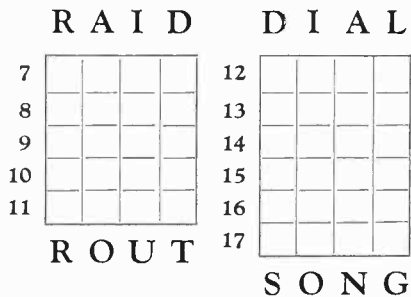


G L O W

P U S H



P U L L



Once more we will send to the successful contestants, their choice of the new map or the February RADEX. But get your solutions in before January 20th.

Key

1. On 1200.
2. In Pennsylvania.
3. Last three letters stand for owner.
4. Last three letters stand for owner.
5. First three letters stand for state.
6. Last three letters stand for state.
7. Last three letters stand for owner.
8. On 1310.
9. A Columbia station.
10. First four letters of a city.
11. On 1210.
12. Last three letters are first three of city.
13. Last three letters are initials of owner.
14. 500 watts daytime.
15. Call spells city.
16. 10 k.w.
17. 100-watt Texan.

Roll Your Own Puzzle

All right, if you think it is so easy to make up these cross-call puzzles, here is a chance to try your hand at it. Using this issue of RADEX, see if you can fit calls to the blanks in this square so they will be keyed both ways. When you have it completed, copy or cut out this square and fill it in. Send it to the Editor with the list of calls you have used for both horizontal and vertical and, for the best one submitted, we will send a year's subscription to RADEX. For the next best, a half-year's subscription; for the third, a map with leatherette cover. It will not be necessary to write descriptions for the calls.

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

A Ground Phenomenon

I ACCIDENTLY discovered that my ground wire had become detached from its post on the set. When I made proper connection, the reception immediately became faint, but it became strong again as soon as I disconnected the ground," reports Norman E. Hills, 1501 20th Avenue, N., St. Petersburg, Fla.

"Thinking that I could get better reception on other stations without the ground wire connection, I tried it but found that the reception was better when the ground wire was properly connected except in the case of stations situated across water. Cuba, for example, where conditions in that respect resemble the Mexican stations, came in better without a ground."

Why stations whose signals must cross water come in better without a ground connection, is a question for the engineers to answer.

Both aerials and grounds are so full of surprises that nothing will so repay the experimenter as trying the various methods his ingenuity will suggest. No law seems to govern them as what works for one fails for another.



VINCENT SOREY

That humble instrument, the mandolin, was responsible for Vincent Sorey's musical career. This young Italian musician who is heard directing the Columbia Salon Orchestra, the Columbia Review and the Columbia Melody Parade, was the son of a music-loving mother, who had for some reason or other specialized in the study of the mandolin.

So complete was her mastery of string and pick that she was known throughout many of the Italian provinces. She had

many pupils and frequently appeared with them in concerts.

As the public repertoire of mandolin music is very limited, she undertook to interpret the more difficult music of the violin and was able to accomplish surprising duplications of this instrument.

Almost as soon as little Vincent was able to walk, he was taught, inductively, facts about music, and as soon as he could hold a mandolin in his hands, he was learning to play it. Presently he studied theory and then became a student at the Italian Royal Conservatory at Turin.

At fifteen he won the Grand Prix, the youngest person ever to win that honor. He went to Paris and studied with Andolfi, a pupil of Sarsate, and made his debut at the Salle Gavo, playing Mozart's Fourth Concerto.

During the war he remained in Italy and played more than 250 concerts. He also played with the Philharmonic in Turin during President Wilson's visit there. Later he went to Buenos Aires.

Mr. Sorey's most recent work has to do with the collecting of Spanish and Mexican folk songs, many of which he presents on his program over WABC.

HERE'S A LITTLE SLIP

that will bring pleasure to you or your radio friends
Obey that impulse and sign it now

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1367 East Sixth Street,
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Enclosed find \$..... for which send me postpaid my choice of your offers as checked below:

- | | |
|--|--------|
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| <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"/> 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

DIALING for DX RECORDS

One of our friends, who asks that we do not use his name, as its use always brings him more letters than he can answer, has the following to say in regard to his methods in DX work:

"Many persons have the mistaken idea that DX is possible only late at night. This is not by any means the case. While certain very distant stations, such as those on the Pacific Coast, cannot be heard well before midnight, and while nothing can be heard except our locals and the big New York and Chicago stations on their respective channels while they are operating, nevertheless it is quite possible to log a very respectable list during the early evening.

"This listener last night started right after Amos and Andy at 7:15. By 9:30 sixty-one different stations had been heard. At 11 o'clock the total was eighty-one.

Early evening DX, of course, entails the sacrifice of chain broadcasting and one's other favorite features. But it is extremely interesting, especially on the crowded channels. Stations will fade in and out, two or three being on the same channel at the same time. One of them usually gathers sufficient strength to hold the floor long enough for one to identify it. Furthermore no really long log can be made unless one starts early, because there are a number of stations that sign off before 8:30 p.m. One hour in the early evening will produce more stations than two hours after midnight.

"An interesting and helpful plan to follow is to take a piece of paper and write down all the broadcasting channels, running from 550 to 1500 k.c., making ninety-six in all. See how many of these channels you can cover and mark them off as they come in. This saves time that might otherwise be wasted waiting for an announcement, only to find that the station had already been heard."

"No listener should ask for verification of a chain program for it is too easy to cheat. While some stations will verify a chain broadcast, they do it only because

Roaming the Ether is Radio's Thrill

they do not like to disappoint a listener. It is not clean DXing."

"Do you know of any DX clubs which I might join? How can I get in the Newark News DX Club?" asks F. B. Gilliland, 3621 Sutherland Road, Shaker Heights, Ohio. The principal DX clubs of which we have record are the Newark News, the Chicago Daily News, Buffalo News and the Toronto Evening Telegram. Letters addressed to the radio editors of any of these papers will undoubtedly bring full information.

The Portland (Maine) Press-Herald, Evening Express and Sunday Telegram, have established a Radio Club in charge of Dan Hagerty, reports William Armstrong, 424 West 26th Street, New York City.

A Few Records

From Arborfield, Sask., John Forbes writes, "I am a DX tourist, but find it hard to pick up any great number of stations being so far north. The best I have had so far are KRGV, Harlingen, Texas, KGFL, Raton, New Mexico, and XEH, Monterrey, Mexico. I also heard CMK, Havana, lately. I got all these on a seven-tube DeForest Crosley and through the loud speaker. Can you tell me if KECA was operating in December, 1929?" We do not know when KECA, which is a sister station of KFI, first took the air. It appeared first in RADEX in January, 1930.

"I read RADEX from cover to cover and with its help I have received 260 stations since March, 1930," writes J. W. H. Johnston, 117 79th St., Niagara Falls, N. Y. "I have logged all 96 channels. Only since March have I been so enthused about verifications that I decided to join the Buffalo News DX club. Have logged and verified twenty west coast stations, one 100-watt at Reno, Nev., and one 100-watt at Wolf Point, Mont. Received verification from VAS just today. Can you give me any help on this one: A station on 1370 or 1380

keys, at 6:15 a.m. October 16th with an organ recital. After each selection the announcer would say, 'Heigh-ho, Everybody, Heigh-ho'."

"I have been at the DX game for six years," says Joaquin T. Russe, 21 Standish St., Provincetown, Mass. "Between October 1, 1930, and October 18th, I received over one hundred stations, including 22 on the Pacific coast, one of which was KFVD, 250-watts, Culver City, Calif."

"VAS does verify," says Rufus C. Myretetus, 515 Lincoln Ave., Collingswood, N. J. "In addition to the card received VAS wrote me a little note, in which they said that I was the first person from the United States ever to send them a Canadian stamp, that the rest all sent U. S. stamps which were useless there. I was in Canada last summer on a vacation," explains Mr. Myretetus, "and brought a few Canadian stamps home for use in requests from Canada. Perhaps this is the reason I received their verification."

Conditions in Texas

Reception in the Lone Star State is rapidly becoming worse, according to letters we receive. This is because of that state's proximity to Cuba and Mexico, and the lack of any understanding between this country and those two countries such as exists with Canada. "By actual count there are only 26 of the 96 channels which are usually free of interference at night," states Wm. E. Kessell, 411 No. 8th St., Temple, Texas. "And at the present rate it won't take the Latin Americans long to ruin those, as the Cuban and Mexican stations are rapidly taking over our cleared waves. At the present rate unless some treaty is arrived at between the U. S. and these countries, reception will soon be practically impossible in Texas. It is certainly a deplorable situation."

"I have stations on every channel except 540, 1030 and 1500," says Geo. A. McGrew, Avondale Ave., Warrensville, Ohio. "Have been getting KEX, Portland, every morning before six."

"I have logged ten coast stations and three hundred others so far," says LeRoy Cattle, RFD 2, Paterson, N. J.

110 stations in the first fifteen days of October with the Crosley Showbox is the record of Ralph Visser, Sheboygan Falls, Wis. Included are many west coast stations, CMC, Havana, the 100-watt station at Wolf Point, Mont., and the 100-watt station at Woodside, N. Y. Mr. Visser's total record now exceeds 200 stations.

"I have 445 stations on my list. I have a 1928 No. 72 Majestic. I have 31 Canadian, 14 Cuban, 17 Mexican, two from Alaska, two from Honolulu, one from Porto Rico, and one from Lima, Peru," says Chris Tom Banakas, 28 No. Claybrook St., Memphis, Tenn. "This winter I hope to add 250 more. My aerial is only 53 feet long. I've tried 28 aerials and this one has twice as much power, which is a mystery to me."

From Warren A. Huntsinger, 13850 Manning Ave., Detroit, Mich., "I have my first a. c. set, a Serenader, one of the cheaper ones, have had it only three months and so far have logged 115 stations, I get CMW and CMC, Havana, regularly."

A Voice From New Zealand

IT is interesting to think that people on the other side of the globe whose feet are almost exactly opposite ours, are listening at the same moment to the same programs as we are here. We are sure our readers will find the following letter from a New Zealand reader of unusual interest:

"I received the September RADEX last week and, to say the least, I am sorry I did not know of its existence till then. I am indebted to Mr. C. Wells, of Concord, N. H., for introducing me to an excellent little magazine. I won't be able to send you my subscription for some weeks yet as I am working on a sheep-station (you'd call it a ranch) and see a post office only about every two months. I will send along my \$1.75 as soon as I get within range of a money order.

"I had an interesting night spent in solving the cross-call puzzle but I was working under a bit of a handicap in not being conversant with the terms 'Middle West,' 'East of the Smokies,' 'Where the World's Best Coffee Grows,'

etc. I am enclosing some New Zealand stamps to the equivalent of 26 cents in your coin so that I may make a claim for the Radio Map. Perhaps some philatelist over your way would be pleased to part with 25 cents for them.

"To say I am keen on DXing is putting it mild. My set is only a four-tube Browning-Drake which I constructed myself. The a.c. mains have not reached up here yet so I have to use dry batteries. I have 90 volts. I have heard almost ninety American stations, including XEN and a few Canadians. Some of the stations I have received verifications for are XEN, KGFG, KGIQ, WFIW, WJDX, KGNF, WAPI, KOIL, WIOD and KPRC. Just last week I had a letter from WHK (1000 watts, Cleveland) which said I did not give them quite enough information for positive verification, so I'll have to write again. I can get them nearly any night. I have about twenty verifications to come in yet, including WSFA, KFBB, KVL, KTBS, KTRH and WABC. This last station has been coming in well lately on organ numbers, closing down at 5:30 N. Z. time or 1:00 a.m. EST. KMOX is the best U. S. station here, coming in at full speaker strength while it is still daylight. WTAM is another good one. WTIC comes in well if it is on late. A letter from Mr. Randall, WTIC Plant Manager, asked me if I would be their long-distance receiving station, letting them know how WTIC they were testing all night as W1XG; the music could be heard a hundred yards from my speaker but the difference in time does not allow regular reception.

"A station which should be included in your list of world stations is 2YA Wellington, N. Z., a 5 k.w. transmitter on 720 kcys.

"If you put any of this in RADEX, please don't include my address. I might get more letters than I can buy stamps to answer. Radio takes the bigger half of my cheque, for batteries and tubes are expensive here.

"All success to RADEX. Yours sincerely, George Inglis, _____, New Zealand."

In your Spare Time

Build Radio Sets—Make Extra Money!

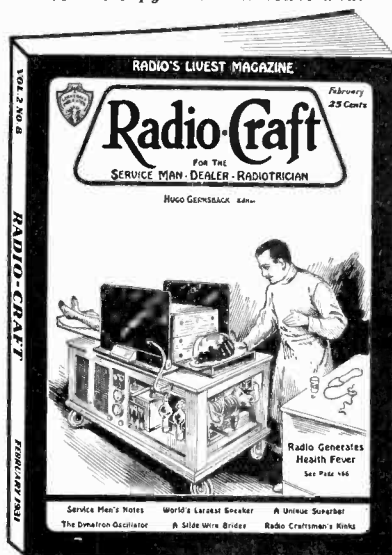
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SKEPTICS VERSUS RECORDS

WE will now close the debate on the veracity of DX reception. Carroll C. Foltz, 303 Central Avenue, North Baltimore, Ohio, rather sums the situation up when he says:

"I would be willing to bet that 95 per cent of the DX receptions reported in your magazine are correct. The reason that some of your readers think they are lies, is because they do not understand how to tune for DX stations. DX stations are not brought in, by merely twirling the dials. When I tune for DX, I take about 30 seconds to cover each graduation on the dial. The signals from DX stations are naturally weak and if the dial is rotated too fast, you will have tuned the station in and out again before you are conscious of one being there."

Robert R. Rawstron, 31½ Sullivan Street, Claremont, N. H., adds to this, "Radios are like mules — sometimes they will and sometimes they won't. Here's an example of balkiness: WNBX with ten watts is about twenty miles from me. I tried for it one day with my eight-tube set and got blank. While I was trying, a friend nearby called me up and told me to listen to his radio over the phone. I did and heard the program clearly and when the announcement came, it was WNBX. And he has but five tubes. On the other hand, WTIC comes in like a house afire on my set while all he gets is a whisper."

"It is certainly strange," writes Mrs. L. R. Ledbetter, of Vicksburg, Miss., "that so many people are so skeptical concerning the DX records of others. I have had no astounding reception but I have received Montreal and Toronto before five o'clock p.m. I have been called not exactly truthful for saying I had received WLS at noon, but today, above the most awful interference, it was loud enough so that I had to turn the volume down. Surely everyone must realize how erratic radio is. Why, I get WREC Memphis almost as well as WJDX Jackson with the same power and the latter is only forty miles away. I have selected the coldest nights to DX

Why Can't We All Get Japan?

only to be disappointed and then have brought in a long-coveted station on a supposedly bad night."

Many of us with good sets scarcely get out of the United States at all, but we know beyond dispute that others, perhaps with similar sets, are getting foreign stations. It's like a hole-in-one in golf, we read about others doing it but it never happens to us. If anyone thinks that he can tune in foreign stations in the same manner he dials for a local, he is very badly mistaken. Infinite patience and infinite care are necessary as well as infinite skill.

Let us take a concrete example: We have before us as we write, letters from foreign stations addressed to Frank A. Johnson, 317 West Englewood Avenue, Chicago. One of them is from Finland which states, "The items you mention are right." A second from 6LV London says, "This confirms your report of reception of our Liverpool station." Another from Budapest, Hungary, says, "You indeed heard our broadcasting station." JOBK, Japan, acknowledges the accuracy of the reception. One from Madrid, Spain, says, "Your data coincides exactly with our transmissions on the days you mention." Melbourne, Australia, 3DB writes: "On the day you mention a lady did sing 'Rose softly blooming,' and we consider it a very excellent performance for you to have picked us up at a distance of some 8,000 miles. The wavelength you heard us on is correct and the clipping you enclose is wrong."

Now if there is anything at all in verifying reception, surely these are authentic proof. And if Mr. Johnson can do this in the heart of Chicago, what right have we to question the reception of others?

We have a letter from a reader whom we will allow to go unnamed. In this letter the word "liar" appears five times so we will let the letter go unpublished.

But the writer adds a postscript as follows: "I picked up WXYO Rutland, Vermont, this morning on 1500 kcys." Others who report unusual reception are "liars," but this person sees nothing humorous in himself making a most extraordinary claim. In the first place, there is no WXYO. The new Rutland station is WSYB. In the second place, to receive a hundred-watt station 200 miles distant in the morning is rather an achievement particularly when that station is on 1500 kcys. and there are six other stations on the same frequency within the same radius and none of them sharing time!

So that's that. We will continue to publish letters of interesting reception without vouching for their accuracy and certainly we cannot undertake the monumental task of trying to verify such reception. As Richard Douglas, 1130 Krug Park Place, St. Joseph, Mo., says: "By all means print DX records; if the DXers aren't honest it isn't hurting anyone but themselves."



SHERLOCK HIMSELF

Richard Gordon, who relives "The Adventures of Sherlock Holmes" each Monday night at 10:00 E.S.T. over the N.B.C. (WEAF) Network. The famous character of A. Conan Doyle's lends itself well to radio.

Grounding the Aerial!

THE antenna is such a vital and important part of radio reception that no line of experimenting is more interesting than trying new ideas in aerial construction. The history of radio is replete with instances where certain lines of procedure have been followed for years with the impression that they were the only ways to do a thing, only to have some ingenious experimenter discover much simpler and better ways of doing the same thing.

Dr. William F. Brokaw, 2301 Chatfield Avenue, Cleveland, Ohio, tried an entirely different aerial idea and the result, he says, was a most interesting experience with a revolutionary theory. This experiment he describes in the following article:

"My experience during the past year with an Atwater Kent a.c. 8-tube, screen-grid set, has negatived to a marked degree the theory of careful aerial insulation. I have used for several years a well-insulated aerial 110 feet high and this has been quite satisfactory but, about a year ago, on a hunch I took a six-foot length of gas pipe and drove it into the ground about three feet at a distance of ten feet south of the house. To the top of this was clamped a piece of ordinary stranded aerial wire which was brought in through a hole bored in the window casing and twisted into a small bight on the inside. A piece of flexible cord about a foot long with a small Mueller clip on each end makes a convenient way to snap onto the lead at the wall and from that onto the antenna post of the set.

"The regular ground wire from the set extends about 25 feet into the basement and is soldered onto the cold water pipe near the meter.

"This combination immediately brought in Havana and other southern stations in full volume and much better than the long, high, insulated aerial! I then tried another similar line ten feet to the west and with it came KFI and the western stations. A third line to the East brought in the eastern stations.

"Under conditions at all favorable, any one of these short grounded leads

will bring in most anything from any direction and often the short eastward lead will have twice the signal strength of the 110 foot line.

"This experiment has afforded an opportunity to observe some of the vagaries of magnetic currents or carrying waves. The general impression is that these waves surge from South to North and back again often within a very few minutes or from East to West and back, or in a whirling motion, or up and down. The signal strength from the high aerial may be strong and then suddenly weaken and switching to the ground lead finds it strong there at the moment it is weak in the high aerial.

"An interesting instance of the surging wave current occurred early in October, at about 5 p.m., when without any aerial connection of any kind, KDKA came in with a volume almost equal to WTAM.

"With the ground leads, there is rarely fading of KDKA, something that has always been associated here with that station. The radio engineers probably have all this sort of thing cataloged and ready to spring on us at any time but you may let others have the benefit of my experience now."

(*Editor's Note*) What the doctor is using is really a large loop with the earth forming one side of it. His experience seems to upset the theory that the aerial must be perfectly insulated and also the idea that it must be high in the air. We hope some of our readers will try this arrangement and let us have their reports. It promises to be of great benefit, particularly to those who have scant space in which to erect a long, high antenna. It also provides a simple method of making some experiments in the directional qualities of aerials.

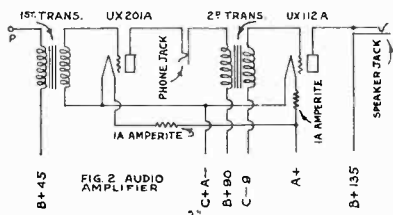


Figure 2

Short Wave Adaptor

(Continued from page 3)

and leads from the B-battery are run to the B-neg. and B 135-volt binding posts on the adaptor. The detector tube is removed from the receiver and placed in the second socket of the adaptor, while the plug to which the F and P leads from the adaptor are connected, is inserted in the detector socket of the receiver, and the UX 222 screen-grid tube is inserted in the r. f. stage of the adaptor. Plug in the particular coil covering the waveband in which you wish to work, and then everything is ready for operation. Turn on the switch and rotate the adaptor dial slowly. The tuning dials of your receiver have no function whatever when the adaptor is in use. It is advisable to use a set of headphones to get distant stations and after signals have been tuned in satisfactorily, the loudspeaker can be substituted for the phones.

For All-Electric Sets

Fig. 2 shows an audio amplifier that can be used if your set is all electric. The parts required for this amplifier are two good audio-frequency transformers, two tube sockets for a standard UX 201A tube, two single contact jacks and two 1A Amperites passing one-quarter amp. each, or any other ballasts of the same rating. Follow the wiring as indicated. The only connection from the adaptor to the amplifier is the one marked P, shown in both Figs. 1 and 2. This terminal is otherwise connected to the plug, which is not used when the adaptor is wired to the amplifier. Connect the F-terminal to the A-neg. binding post of the adaptor. The audio amplifier is connected to the batteries separately as indicated. Two jacks are used so that either headphones or loudspeaker can be attached, the first-stage jack being more satisfactory for headphone reception. Use a UX 201A tube for the first stage and a UX 112A for the second, although a 201A will also give good results in the last stage. With a 112A tube you need a C-bias of 9 volts, which is obtained from a C-battery. If a 201A tube is used in the last stage

only 4.5 volts of C-bias are required. The filament current for both the adapter and amplifier should be taken from a storage battery instead of dry cells as the drain would be too great for the latter to operate economically.

Rolling Your Own Coils

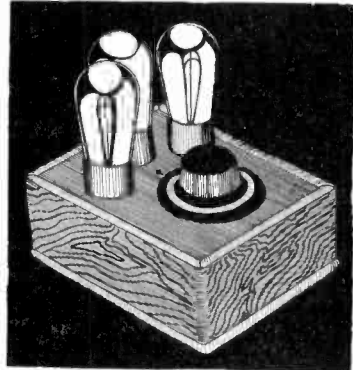
For those who would like to make their own plug-in coils, the easiest procedure is to get four discarded radio tubes of the UX 201A type, a mailing tube $2\frac{1}{2}$ inches in diameter, and four strips of bakelite about one-half inch wide and 4, $3\frac{1}{2}$, $2\frac{1}{2}$ and 2 inches long respectively. Cut four lengths from the mailing tube the same length as the bakelite strips, Cut off the base of one of the old tubes and drill a hole through the center. With some No. 26 d. c. c. or enameled wire wrap two separate coils on each tube, taking care to wind them both in the same direction. Run the ends of the coils thus formed through small holes punched through the tube so that the ends will come inside of the tube. Wind one coil on one side and the other on the opposite side of the center of the tube, allowing about one-half inch of space between the two coils. Drill three holes through each bakelite strip and through the tube of corresponding length. One hole is drilled in the exact center of the strip and the other two at the ends. The strips are fastened to the tubes at the ends with small brass screws and nuts, after which four small holes are punched through each tube in the space between the coils to permit passing the ends of the wire out again for soldering to the tube-base prongs. Apply collodion to each soldered connection liberally, or better still, use short lengths of "spaggetti" tubing, these being slipped over the ends of the wire before soldering, and then pushed over the joint. This prevents short circuits. Attach the tube bases to the coils by passing a long brass machine screw through the hole in the base and then through the center hole of the bakelite strip and tube. When assembled in this way the bakelite strip protects the windings from injury and holds them in place.

Number of Turns

The following windings have been found suitable for short-wave work:

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(xx)

For the 150-200 meter range a primary of 20 turns and a secondary of 25 turns; for the 80-150 meter range a primary of 10 turns and a secondary of 15 turns; for the 40-80 meter band, a primary of 9 turns and a secondary of 7 turns, and for the 20-40 meter band, a primary of 6 turns and a secondary of 3 turns. The first or 150-200 meter coil is wound on the 4-inch tube, the 80-150 meter coil on the 3½-inch tube, etc., each coil being wound on a tube of corresponding size. When connecting the coil ends to the tube-base prongs, care must be taken to run the corresponding ends of the coils to the same prongs on the tube base so that the coils, when interchanged, will be connected in exactly the same way. Coils attached to tube bases as just described fit any standard socket. The socket terminals must also be hooked up correctly so that the coils will be properly placed in the circuit. It was found that a .00025-mfd. variable condenser worked best with the coils just described.

Questions Are Asked

(Continued from page 5)

Desmond probably heard WCAU in Philadelphia. WCAU on 1170 and WPG on 1100 often couple up and broadcast programs from the Atlantic City Convention Hall, which is the largest in the East. It might interest your readers to know that football is played in this hall and a full-size dirt gridiron has been made, thirty carloads of dirt being hauled in from neighboring states. The games are played at night and broadcast over WCAU and WPG and possibly WFAN may be in the hookup."

The mystery of WCHI has at last been solved. Several readers report and this is now confirmed by the Commission that, after WCHI's license expired, their programs were broadcast over WORD, usually with an announcement giving both calls. WCHI has now taken over WORD's license and WORD is no more.

"The hetrodyne on WTAM very likely comes from one of the three 150-watt stations in Havana. One of my friends while listening recently on one of the new nine-tube superhets, heard a Spanish-

speaking station between WBAL, 1060, and WTAM, 1070. A number of the Cuban stations have recently been a little below their proper frequencies and, while my friend could not identify the station, it was apparently one of the Cuban stations. KMOX has a fine signal and, being twenty keys. away from WTAM, should not cause any heterodyne." This report comes from C. M. Falconer.

Whistles and Squeals

(Continued from page 6)

venient to be hooking and unhooking the ground lead-in all the time.

The advantage claimed for the shielded lead-in wire, namely the reduction of interference pickup, is greatly over-estimated, and practically just as good results can be obtained without it. The insertion of a small fixed condenser between your shield and the ground merely changes the capacity of the circuit and accounts for the difference in volume. Often broadcasting stations blanket radio receivers in the immediate vicinity. This is not only a peculiarity of your set but is quite common. Frequently a station can be tuned in louder at a distance of a hundred miles than is possible at a distance of two or three miles, owing to this effect. The only cure is to reduce the pickup of the signal by disconnecting the aerial or ground lead-in to the set. It might be advisable to install a switch outside of the set which is a much handier arrangement than opening the set to disconnect the lead.

Microphonic in Majestic

I have a Majestic radio receiver No. 72, which has been giving considerable trouble and service men have not improved it at all. There is a noise that develops at times that I can usually eliminate by snapping the power switch on and off or by momentarily disconnecting the aerial. At times this method will not help. I have checked the tubes over several times and service men have given the circuit a continuity test but have not located the trouble. I thought that perhaps you may have had cases of this kind before, and could suggest a remedy. The set is very sensitive to electrical interference, although the interference is not

bad in this locality, but on my set it seems to be picked up more than on most sets in town. I have thought of modernizing the set by pulling in 245 power tubes and 224 screen-grid tubes. Would there be enough benefit from such a change to pay for the expense?

Your trouble evidently is what is commonly called a "microphonic," and can usually be traced to the detector or first audio tube. Changing the detector with another of the same type, but one which is comparatively non-microphonic, may correct the trouble. The only method of finding a non-microphonic tube is by means of substitution. If this does not help, put a "howl arrester" on the detector tube. This is a heavy metal cap that is placed on the top of the tube, and it absorbs the small vibrations causing the trouble. In case the remedies just mentioned are ineffective, reduce the plate voltage on the detector and also the first audio tube. Do not attempt to remodel your set by using 224 screen-grid tubes and a 245 power tube, as this change will only be inviting complications and trouble. Moreover, the advantages obtained by such a change do not compensate for the cost and trouble of making it.

Substituting 201A's for 199's

I have a No. 27 Zenith receiver which has five 199 tubes wired in series for the filament current, and one 171A at the audio end. The 189 tubes are wired for a C-bias differently than in most sets. Could I rewire the sockets for 201A tubes and use a different A-power supply, as the present one will not furnish enough current for 201A tubes in parallel? The 199 tubes usually last for about a week before they get noisy and then I have to turn up the two r. f. tubes very high in order to get anything at all. I do not get much volume except on powerful stations. If it is possible will you kindly tell me how to connect up the C-bias on 201A tubes connected in parallel in this set?

It would be highly inadvisable to make circuit changes in your case, but the trouble you are having can be corrected in a very simple way. Open the cabinet in the rear and you will find a double-conductor cable running from

one side to the other, across the top. These lines carry 110 volts. Remove the outside covering and cut one of the conductors in two, this being done, of course, with the set entirely disconnected from the lighting circuit. Get a porcelain socket or cleat receptacle and screw it to the inside of the cabinet so that the two ends formed by cutting one conductor can be connected to the socket terminals. Insert a 40-watt lamp in the socket, which will cut down the power supplied, if this size of lamp is not effective in curing the trouble, substitute a 50 or 60-watt lamp until you find one of the right size. The reason why the exact size of lamp cannot be given is that line voltages vary considerably in different localities.

Replacing 171A with 245

We have a customer who owns a nine-tube Case receiver of the neotrodyne type. This receiver employs push-pull with 171A tubes. Our customer desires 245 tubes substituted. Please inform us if this change is really practical and advantageous, and if so will appreciate detailed information covering the wiring changes?

The object of developing the 245 tubes was not so much to obtain a better tone quality than that furnished by the 171A tubes, but merely to simplify receiver construction and wiring. The power packs usually furnished as integral parts of all-electric receivers are especially designed for use with a certain number of tubes of a certain kind in respect to voltage and current requirements. By substituting 245 tubes for 171A tubes previously used in a receiver, the five-volt taps on the A-supply are not used as the 245 tubes need only 2.5 volts filament voltage, and they would have to be connected to the 2.5-volt terminals of the power unit. As it is questionable whether this part of the power-unit winding was made to stand an overload, the change is not advisable. In fact, one of our readers recently made such a change, after which a decided hum was noticeable in reception. I advised him to change back to the original hookup using 171A tubes. An alternative method of using the present power unit with 245 tubes is to cut down the voltage to the

proper value by inserting a resistor. However, this also reduces the current and it is doubtful whether there would be enough current left to supply the tubes. With too little current they would, of course, not be operating efficiently. Still another method of providing filament current for 245 tubes is to use a separate transformer providing filament current at the proper voltage. Of all methods this one seems to be the most promising. The output terminals of the extra transformer are connected in parallel with the 2.5-volt output terminals of the power pack, and the input of the transformer is cut in the input lines to the power pack. The advantages obtained by making such a change would not be enough to compensate for the trouble and expense, and the difference in tone quality would not be appreciable.

Poor Amplification

I have a five-tube battery-operated set with r. f. coils $1\frac{1}{4}$ inches in diameter, wound with fine wire for .00035-mfd. variable condensers, and it is perfect up to 375 meters, and from there to 550 meters it falls off in amplification. What can I do to overcome this? I have two other sets of coils for .00035-mfd. condensers. One set is two inches and the other $2\frac{3}{8}$ inches in diameter, and they are wound with coarse wire. Will these larger coils overcome the trouble?

It is a peculiarity of all tuned radio-frequency receivers having coils wound for the broadcast waveband, that the stations on the lower end come in with plenty of volume, while those at the other end fall off in volume, exactly as in your case. Substituting coils with a few more turns on the secondary windings, and also using .0005-mfd. condensers, will reduce this trouble to some extent but will not eliminate it entirely. The trouble is more pronounced in one receiver than it is in another, owing to differences in the coils and condensers with which they are equipped. By using a long aerial instead of a short one, the signals from both low and high wavelength stations will be brought in louder. Those coming in too loud can then be toned down by means of the volume

control, and others previously too weak, will come in better than before.

Trouble With Two Sets

I have a model 20 Atwater-Kent radio, battery-operated. It works perfectly with batteries. I thought that I would try an eliminator so I did and it worked well for a couple of days. Then suddenly it stopped. I have tried the eliminator with other battery sets and it functions all right and I have also used batteries on my set after the eliminator would not work, with good results. I would appreciate very much if you would give information concerning this trouble. Also I have a National S.W. 4 "Thrill Box" but can't get anything but code on it. I took it to the dealer from whom I purchased it but he could not find anything wrong with it. This set is a combination shortwave and broadcast receiver with interchangeable coils. On the broadcast coil I get reception barely audible with earphones. On the short-wave coils I get only code, which comes in quite loud. The set doesn't seem to have any push in it. Could you suggest anything on this set?

Your Atwater-Kent No. 20 receiver is designed to use only 20 or 22.5 volts on the detector plate, if you are using the same kind of tube that was originally recommended for use with this set. The plate voltage for the audio tubes on this set should not exceed 90 volts. Undoubtedly the B-eliminator you have been using produces greater voltage, which chokes the tubes and makes them inoperative. Take the B-eliminator to a radio service shop and have the output voltage tested with a high-resistance voltmeter. An ordinary low-resistance voltmeter, which is ordinarily used for battery work, will not give accurate readings when used on an eliminator. If there are any variable controls on the eliminator, adjust them so that the detector plate supply will be about 20 volts, and the maximum output for the audio stages will be about 90 volts. I notice that the A-positive binding post of this receiver takes both the A-positive and the B-negative leads. Now, if this does not cure your trouble, have the tubes tested, which would be a good idea at any rate. Possibly a new detector such as a UX 200A, which takes from

20 to 50 volts on the plate, will give better results. Concerning the "Thrill Box" it seems evident that an additional stage of r. f. amplification with a short-wave coil and condenser to match, would greatly increase the range and volume. Code signals always come through much louder than broadcast signals, and on a weak receiver, only the former will come through. On the other hand you may not have been tuning in at the exact time that the broadcasts on short waves were made. No short-wave receiver will be efficient on the broadcast wave-lengths, even though coils for the latter are used, as the condensers are not designed for the broadcast wave-band, lower-capacity condensers being used for short-wave work. If you install an additional r. f. stage with a short-wave coil and condenser, the set will not pick up broadcast signals at all.

Voltage Causes Howl

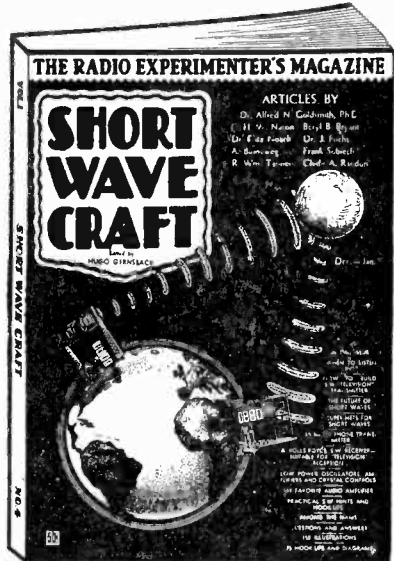
I have a model No. 55 Atwater-Kent radio set which has a tendency to break into oscillation every once in a while. Sometimes merely jarring the floor causes it to oscillate violently. The only remedy seems to be to take the detector tube out of its socket and then replace it. The trouble then stops for an indefinite period. Sometimes when the set does not oscillate, it will start doing so by placing the hand near the detector condenser. At other times the set will not cause any trouble at all. I am also extremely bothered by microphonic noises in spite of the fact that I have the detector capped. I have also bought new tubes, but that does not cure it. Can you give me any idea as to the cause and remedy of these conditions?

It is absolutely necessary in the case of the Atwater-Kent No. 55 receiver to have a ground connection and a short aerial, the latter being separated as far as possible from pipes and other metal. The ground and aerial must not be interchanged as can be done with many receivers. The cause of your trouble is that the voltage constants are not correct, perhaps due to a faulty resistor. It seems quite certain that the plate voltage on the detector and first audio tubes is excessive. As this set has a complicated wiring system, including many

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resistors, of which you do not know the value, it is advisable, under the circumstances, to call in the help of the Atwater-Kent radio service man of your locality. He has all the necessary information at hand concerning the values of the resistors, which determine the voltage applied to the tubes.

Weak Tubes Reduce Efficiency

Up to a few months ago I received stations below 950 kilocycles, but I do not get them any more although others in the neighborhood do. I receive stations above this mark, which are less powerful and further away. Some evenings I receive stations loud and clear, then cannot get them at all a few hours afterwards. Will you suggest where the trouble lies?

As you have received stations below 950 kilocycles up to a comparatively recent date, your trouble undoubtedly lies in the tubes, and if your set is battery-operated, also in the batteries. Have the tubes tested and replace those that do not show a normal reading. B-voltages must also be kept up to normal. It is a general fault or rather peculiarity of tuned radio-frequency sets to have greater volume on lower wave-length or high-frequency signals, than on higher wave-length or low-frequency stations, and as soon as the efficiency of the set is decreased, this peculiarity becomes pronounced, as it is in your case.

"Let's Call a Meetin'"

(Continued from page 9)

and heard WBTM signing off and WLVA coming on.

From Meyer Tuchinsky, "You might be interested in the schedule of WRAX. This station broadcasts programs in foreign languages only and is rather interesting. Their schedule is as follows: 10 a.m. and 2 p.m., German hours; 11 a.m. and 3 p.m., Polish hours; 12 noon and 4 p.m., Jewish hours; 1 p.m. and 5 p.m., Italian hours; all E.S.T. The only English spoken is the call letters every fifteen minutes and announcements each hour."

Carroll C. Foltz who wrote the article on wave-traps in the December issue adds this note: "For those readers who have trouble with receiving stations on har-

monics, I recommend a wave-trap. In the daytime I receive a harmonic of WLW on 1400 which interferes with the reception of stations properly on that wave. I have found that if I set my wave-trap to absorb the wave of 700 keys. it also eliminates the harmonic on 1400 but does not affect the reception of stations on 1400. Setting the wave-trap to absorb the 1400 frequency in order to get rid of the harmonic will not help any, for it will then absorb everything on that wave."

Regarding that contemplated booklet of Hours on the Air, Mr. Foltz writes: "I would prefer to know what hours any particular station was on the air. However, in case you print such a list you will just cut yourself a big slice of trouble. Many stations that share time reverse the hours they are on the air at intervals. By the time you could gather the information for such an issue, half of it would be incorrect because of changes. You would have to take a lot of criticism from readers who do not realize that at least half of the stations are constantly changing the hours they are on the air."

Herbert H. Seidler, 155 Hicks Street, Brooklyn, N. Y., calls attention to the fact that any schedule of time on the air of the various stations, to be of the greatest value, would have to show the time according to the four or five standards. Otherwise anyone desiring to tune in a particular station would have to first ascertain what time zone the station was in and convert that into the time of his own zone and by that time, probably, the station would be off the air.

The manifest difficulties in the way of publishing a really worth-while and accurate index of time-on-the-air make it inadvisable for us to undertake it at this time. We shall talk this over with officials of the Radio Commission in the near future.

"The stations in Halifax, N. S., are on 910," writes C. M. Falconer. "I enclose program received from the Canadian National Railways and I also have a letter from CHNS dated September 12th in which they state that they are on 910. The change occurred, I think, about September first." The October

report of the Dominion Government bearing date of September 30th, still carries the Halifax stations on 930 as does also the list of our own Department of Commerce dated December 6th. A number of readers have reported reception on 910 and we are making the changes accordingly.

Radio Station KFYZ Bismarck, N. D., writes us that we were in error in reducing their power from 1000 watts to 500 as they have a license from the Radio Commission for 1000 watts at night and 2500 watts daytime. We are therefore again showing them with 1000 watts, although the Commission's list of December 6th still shows this station with 500 watts.

George S. Buckman, South Nyack, N. Y., sends us a letter from WGBS New York City in which they state that they no longer supply verifications of their programs. "Why is it," asks Mr. Buckman, "that the big 5000 watt stations on the Pacific Coast practically always send one of their 'Thank You' cards in answer to your very, very specific request for verification? These cards are no kind of a verification and another line like 'This verifies your reception of our station' would please their listeners."

When XED came on the air on November 8th with 10,000 watts, we naturally received many letters calling our attention to the fact that we had them listed on 770 instead of 960 keys. As the November RADEX went to press on October 18th, there was no opportunity to make the change in the November issue but the new station with its proper rating, was correctly listed in December.

John Carter, 1119 West 9th Street, Erie, Pa., states that he has a card from CKAC Montreal, which gives their power as 20,000 watts and not 5000 as shown in RADEX. There are two ways of calculating power, one of them about four times the other.

J. R. Culver, 529 Concord Street, Boulder, Colo., and several others send us lists of stations which have verified for them although they have no marking in RADEX. As we have stated before, we cannot assign a symbol to these stations except upon their own written statement as we desire our rating to indicate what

the stations themselves promise, rather than the experience of our readers which is so often at variance. A large number of symbols are added in this issue as we have just sent another letter to stations not previously reporting.

"XED and CFRB interfere with each other so much I can get nothing but squealing, but as soon as the Toronto station signs off, XED comes in fine," comments Ralph Visser, Sheboygan Falls, Wis.

Ray E. Everly, 102 West Washington Street, Newton, Ill., thinks that temperature has more to do with reception than daylight. He finds that, in Illinois at least, there is less noise and better distance range between 40 and 60 degrees. He uses a 12-tube super and some of his daylight catches are the following: KNX at 6:45 p.m., E.S.T., WRUF at 12:38 p.m., CKAC at 10:15 a.m., WNAX at 6:50 a.m., KFJZ at 6:55 a.m., and WBBZ and WBIG at 7:00 a.m.

"Through WSSH Boston, I obtained the information that WMAF South Dartmouth, Mass., is no longer on the air," reports D. Ohlwiler, 19 Taft Street, Southbridge, Mass. The Commission still shows this station. Has anyone heard it recently?

WASH Grand Rapids is entitled to a big hand for announcing regularly, thinks Joseph Stokes, 7318 Woodlawn Avenue, Swisssdale, Pa., who states that names of those writing in for verification are announced over the air by that station.

Robt. L. Stillson, Lonesome Lodge, Bradenton, Fla., thinks that the rule of the Federal Commission requiring the announcement of phonograph records is just an additional aggravation, for compared to the "raw advertising, poor jazz, and the great absence of common sense" the records average much higher than the rest.

Some western targets to shoot at are given us by R. G. Smith, 14916 Greenleaf Street, Van Nuys, Calif.: "CKWX has a special program for DX purposes Wednesday and Saturday nights from 11:30 P.S.T. to 1:00 a.m. KIDO Boise has an 'Idaho Spuds' Midnight Frolic Saturday nights and continues 'until the crowd goes home in the morning.' KOH is on the air every night at 6

o'clock P.S.T. KJR is on Saturday nights until 3 a.m. P.S.T. Here are some stations that are on the air after midnight P.S.T.: KFOX, KMTR, KTW, KOL, KXL, KWJJ, KGGC, KFYZ, KJBS, KFXF, KRE and KGRS."

Station 10 BP of Wingham, Ont., writes us as follows: "Owing to many requests from American DX fans and readers of RADEX for information regarding any special DX programs from 10 BP this winter, we are glad to comply and have decided on the following periods: The 10th and 25th of December, January and February, E.S.T. from 1:00 to 2:30 a.m. We will gladly verify on proof of reception." Many thanks to 10 BP for this opportunity to work this 25-watt station on 1200 keys.

Too Many Letters

AFTER you published my letter in the November issue, I received 203 letters from DXers asking me questions about my set. It is impossible for me to answer them all and I hope you can publish the following information, which answers their questions," writes Eugene Miller, 53 Hamilton Street, Harrison, N. J.

"I am using a Victor RE-45 a.c. set. It's a combination radio and phonograph. Antenna is about 100 feet long, in one piece, insulated wire. It is 75 to 80 feet high.

"I received 2BL Sydney, Australia, and JOAK Tokyo, when the local stations were off the air, in the morning between 4:30 and 6:00 o'clock.

"Every month, I remove the chassis of my set from the cabinet. I dust out the set carefully with a fine brush. (You'd be surprised at the amount of dust that gathers in a set.) I sandpaper the prongs of my tubes, my anetna lead-in and my ground. Every four months, I have my tubes tested. I have a set of headphones installed so I can DX without interfering with the family's sleep. I do not use a short-wave set of any kind. All my records were made in the broadcast band."

Mr. Miller sends us the original verifications from several stations. 2BL Syd-

ney, Australia, writes, "Congratulations on your reception of our station." 2FC, also of Sydney, writes similarly. CKMO, Vancouver: "You were listening to one of our special DX programs." The general manager of The Radio Broadcasting Company of New Zealand writes a personal letter saying, in part: "As the particulars given check with our station log for the occasion in question, we have pleasure in verifying your reception."

The Long and Short of It

ONE of our readers who has a powerful screen-grid Philco was troubled with the local stations coming in with too great a volume. Even with the distance switch thrown to local it was necessary to turn the volume control down to the lowest possible point in order to prevent disagreeable volume. At this point reception was not satisfactory, as it was much like the wick of a lamp being turned so low that the light flickered.

To solve this difficulty, a short aerial was erected in the basement and this, as well as the long, outside aerial, was run to the set. An ordinary three-point electrical switch was secured and mounted underneath the set, out of sight. On a three-way switch there are four posts or screws but two of these are connected together, the other two being entirely separate. The aerial leads were attached to the separate posts while the common post had a lead to the antenna post of the set.

When local stations are desired, the switch is thrown to connect up the basement aerial. This cuts down the volume so that it is necessary to turn up the volume control to a point where the current is steady and does not fluctuate. When distant stations are desired, the outside aerial is brought into use.

The same result would be accomplished with an ordinary single-pole, double-throw knife-switch but the electrical device is better as it needs no insulated mounting and, reaching under the set, it is easily snapped from one setting to the other.

KEY TO CHAIN STATIONS

CFRB 960 C	KOL 1270 C	WBEN 900 N	WFAA 800 N	WJAA 900 N	WOW 590 N
CKAC 730 C	KOMO 920 N	WBRC 930 C	WFAN 1270 N	WJDX 1270 N	WOWO 1160 C
CKGW 690 N	KPO 680 N	WBT 1080 C	WFBL 1360 C	WJJD 1090 C	WPG 1100 C
KDKA 980 N	KPRC 920 N	WBZ 990 N	WFBM 1230 C	WJR 750 N	WPTF 680 N
KDYL 1290 C	KRLD 1040 C	WBZA 990 N	WFI 560 N	WJZ 760 N	WQAM 560 C
KECA 1430 N	KSCJ 1330 C	WCAE 1220 N	WFIW 940 C	WKBN 570 C	WRC 950 N
KFAB 770 N	KSD 550 N	WCAH 1430 C	WFJC 1450 N	WKBW 1480 C	WREC 600 C
KFH 1300 C	KSL 1130 N	WCAO 500 C	WGAR 1450 N	WKRC 550 C	WREN 1220 N
KFI 640 N	KSTP 1460 N	WCAU 1170 C	WFLA 620 N	WKY 900 N	WRR 1280 C
KFJF 1480 C	KTAR 620 N	WCCO 810 C	WGN 720 N	WLAC 1470 C	WRVA 1110 N
KFKX 1020 N	KTHS 1040 N	WCFL 970 N	WGR 550 C	WLBW 1260 C	WSAI 1330 N
KFPY 1340 C	KTRH 1120 C	WCKY 1490 N	WGST 890 C	WLBZ 620 C	WSB 740 N
KFRC 610 C	KTSA 1290 C	WCSH 940 N	WGY 790 N	WLIT 560 N	WSM 650 N
KFSD 600 N	KVI 760 C	WDAE 1220 C	WHAM 1150 N	WLS 870 N	WSMB 1320 N
KGO 790 N	KVOO 1140 N	WDAF 610 N	WHAS 820 N	WLW 700 N	WSPD 1340 C
KGW 620 N	KWK 1350 N	WDAY 940 C	WHEC 1440 C	WMAK 900 C	WSUN 620 N
KHJ 900 C	KYW 1020 N	WDBJ 930 C	WHK 1390 C	WMAL 630 C	WTAG 580 N
KHQ 590 N	WABC 860 C	WDBO 1120 C	WHO 1000 N	WMAQ 670 C	WTAM 1070 N
KLRA 1390 C	WADC 1320 C	WDOD 1280 C	WHP 1430 C	WMC 780 N	WTAR 780 C
KLZ 560 C	WAIU 640 C	WDSU 1250 C	WIBO 560 N	WMT 600 C	WTIC 1060 N
KMBC 950 C	WAPI 1140 N	WEAF 680 N	WIBW 580 C	WNAC 1230 C	WTMJ 620 N
KMOX 1090 C	WBAL 1060 N	WEAN 780 C	WIOD 1300 N	WNAX 570 C	WTOC 1260 C
KOA 830 N	WBAP 800 N	WEBC 1290 N	WISN 1120 C	WOAI 1190 N	WWJ 920 N
KOIL 1260 C	WBBM 770 C	WEEI 590 N	WJAR 890 N	WOC 1000 N	WWNC 570 C
KOIN 940 C	WBCM 1410 C	WENR 870 N	WJAS 1290 C	WORC 1200 C	WXYZ 1240 C

ENTER YOUR DIAL NUMBERS IN THESE SPACES

510	610	710	810	910	1010	1110	1210	1310	1410
520	620	720	820	920	1020	1120	1220	1320	1420
530	630	730	830	930	1030	1130	1230	1330	1430
540	640	740	840	940	1040	1140	1240	1340	1440
550	650	750	850	950	1050	1150	1250	1350	1450
560	660	760	860	960	1060	1160	1260	1360	1460
570	670	770	870	970	1070	1170	1270	1370	1470
580	680	780	880	980	1080	1180	1280	1380	1480
590	690	790	890	990	1090	1190	1290	1390	1490
600	700	800	900	1000	1100	1200	1300	1400	1500

WHAT'S ON THE AIR TONIGHT?

A WEEKLY CALENDAR

Leading Features of the Network Programs

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 CKGW WCAE WEEI WFI WBEN
WGY WRC

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

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

9:00-9:15 The Quaker Man
KPRC KSD KSTP KTHS KVOO WAPI
WDAF WEBC WFAA WHAS WHO WJDX
WKY WLS WMC WOAI WOC WOW
WSB WSM WSBM WTMJ

9:00-9:30 Something For Everyone
WABC KDYL KFJ KFJF KMBC KMOX
KSCJ WADC WBCM WBRK WDBJ WDOD
WHP WJAS WLAC WMAQ WMT WPG
WREC WSPD WWNC WXYZ

9:00-9:45 Morning Melodies
WEAF WAPI WGY WBEN WHAS WOW
WRC WRVA WSM WTAM WWJ

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

12:00-12:30 Yoeng's Restaurant Orchestra
WABC WHEC WLWB WPG WCAU WHP
WJAS WLWB WMAL WCAO WTAR WDBJ
WKBN WWNC WSPD WDOD WREC WSON
WFBM KSCJ WMT KMBC KLRA KOIL
WIBW KFJF KLZ KVI KOL KFPY
KFRK CFRB WORC WGR

12:30-1:00 Columbia Revue
WABC KFJF KFPY KPRC KMBC KOL
KSCJ KVI WADC WBRK WCAO WCAU
WDAY WDBJ WDOD WHEC WHP WIBW
WISN WJAS WKBN WLWB WLWB WMAL
WMT WORC WOWO WPG WREC WSPD
WTAR WWNC WXYZ WGR

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

1:30-2:00 Harold Stern and Ambassador Orchestra
WABC KFKJ KFPY WADC WAIU WBCM
WBRK WCAO WDBJ WDOD WEAN WFAN
WGR WHEC WJAS WKRC WLAC WLWB
WMAL WORC WOWO WSPD WTAR WWNC
WXYZ

2:30-3:00 American School of the Air
WABC WFBL WKBW WEAN WNAC WCAU
WBZ WLWB WMAL WCAO WDBJ WADC
WHK WKRC WWNC WGST WXYZ WSPD
WDOD WREC WLAC WBRK WDSU WOWO
WFBM WMAQ WCCO KMOX KMBC KOIL
KFJF KRLD K TSA KLZ KDYL KVI
KOL KFPY KOIN KHJ KFRK

3:00-3:30 Columbia Salon Orchestra
WABC KFJF KFPY KLZ KMBC KOL
KRLD KSCJ KVI WADC WAIU WBCM
WBRK WCAO WCAU WDAY WDBJ WDOD
WEAN WFBM WGR WHEC WHP WIBW
WISN WKBN WKRC WLAC WLWB WMAL
WMT WNAC WORC WPG WREC WSPD
WTAR WWNC WXYZ

5:00-5:30 The Lady Next Door
WEAF KSD WBEN WFAA WHAS WRC
WSM WTAG

6:05-6:45 Black and Gold Room Orchestra
WEAF WCAE WCSH WFAA WGY WHO
WJAR WOC WRC WTAG WWJ

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

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

6:45-7:00 Tony's Scrap Book
WFBL WKBW WJAS WLWB WMAL WDBJ
WAIU WKBN WWNC WXYZ WDOD WFBM
WGL WBBM KSCJ WMT KLRA KFH
KFJF KRLD KVI KOL KFPY KFRK
CFRB

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

7:30-7:45 Phil Cook, Quaker Man
WJZ KDKA KECA KFSD KGO KGW
KHQ KOA KOMO KSL KTAI KWK
WBZ WBZA WEBC WHAM WRC WREN

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

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

Sunday

1:30-1:45 Echoes of the Orient
WJZ CKGW KFAB WBAL WLW WRC
WREN

1:30-2:00 Neapolitan Days
WEAF KGO KSD KSL WCAE WDAF
WHAS WHO WIBO WOC WOW WTAM
WWJ

1:30-2:00 Conclave of Nations
 WABC KFPY KLZ KMBC KMOX KSCJ
 KVI WAU WBCM WBRC WCAO WCAU
 WDAY WDBJ WDOD WGR WHEC WHP
 WIBW WISN WKBN WLBZ WMAL WMT
 WORC WPG WREC WSPD WTAR WWNC
 WXYZ

2:00-3:00 Roxy Symphony Concert
 WJZ CKGW KDKA KFAB KSTP KWK
 KYW WBAL WBZ WBZA WEBC WFAA
 WFLA WHAM WHAS WIOD WJAX WLV
 WPTF WRC WREN WRVA WSB WSUN

2:00-3:00 Cathedral Hour
 WABC KDYL KFH KFPY KLZ KMBC
 KMOX KRLL KSCJ KVI WADC WBCM
 WBRC WCAO WCAU WCCO WDBJ WDOD
 WEAN WFBM WHEC WHP WIBW WISN
 WKBN WKRC WLAC WLBZ WMT WNAC
 WORC WPG WSPD WTAR WWNC WXYZ

2:30-3:00 NBC Artists' Service Program
 WEAJ KSD KSL WDAF WGY WLS
 WOW WTAG WWJ

3:00-4:00 National Youth Conference
 WJZ KDKA KFAB KFSB KGO KGW
 KOA KSL KTHS KVOO KWK WBAL
 WBZ WBZA WFAA WFLA WIOD WJAX
 WJDX WJR WLS WLW WOAI WPTF
 WREN WRVA WSB WSUN

3:00-5:00 New York Philharmonic Orchestra
 WABC KDYL KFH KJFF KFPY KFRC
 KHJ KLZ KMBC KMOX KRLL KSCJ
 KVI WADC WAU WBCM WBRC WCAO
 WCAU WCCO WDAY WDBJ WDOD WEAN
 WFBM WHEC WHP WIBW WISN WJAS
 WKBN WKRC WLAC WLBW WLBZ WMAQ
 WMT WNAC WORC WOWO WREC WSPD
 WTAR WWNC WXYZ WGR

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

4:00-5:00 Dr. S. Parkes Cadman
 WEAJ KGO KGW KHQ KOA KOMO
 KPO KPRC KVOO WCAE WCHS WDAF
 WEBC WEEI WFAA WFJC WFLA WBNB
 WHAS WHO WIBO WIOD WJAR WJAX
 WJDX WKY WMC WOAI WOC WOW
 WPTF WRC WRVA WSAI WSB WSUN
 WTAG WWJ

5:00-5:30 Rev. Donald Grey Barnhouse
 WABC KMOX KOIL KRLL WADC WCAU
 WFBL WJAS WKWB WKRC WMAL WMAQ
 WNAC WOWO WXYZ

5:00-6:00 Davey Hour
 WEAJ CKGW KSD WCHS WGY WHO
 WJAR WOC WOW WRC WSAI WTAG

5:00-6:00 National Vespers
 WJZ KFAB KGO KGW KHQ KOA
 KOMO KPRC KSTP KTAR KVOO KWK
 WBAL WBZ WBZA WEBC WFLA WHAM
 WIOD WJAX WJDX WLW WMC WOAI
 WPTF WRC WREN WSB WSUN

5:30-6:00 The French Trio
 KDYL KJFF KFPY KLZ KMBC KSCJ
 KVI WADC WBRC WCCO WDAY WDBJ
 WDOD WEAN WFBM WHP WIBW WJAS
 WKBN WLBW WLBZ WMAL WMT WNAC
 WORC WOWO WPG WREC WSPD WTAR
 WWNC WXYZ WGR

6:00-7:00 Catholic Hour
 WEAJ KECA KGO KGW KHQ KOA
 KOMO KPO KPRC KSD KSTP KTAR
 KVOO KYW WBAF WCAE WCHS WDAF
 WEBC WEEI WFJC WFLA WGY WKY
 WHAS WHO WIOD WJAR WJAX WJDX
 WLIT WMC WOAI WOC WRC WRVA
 WSAI WSB WSM WSMB WSUN WTAG
 WTMJ WWJ

7:00-7:35 Iodent Big Brother Club
 WEAJ KSD WCAE WCHS WEBC WEEI
 WFJC WBNB WHO WJAR WLIT WLS
 WOC WOW WRC WSAI WTAG WTMJ
 WWJ

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

7:35-8:30 Major Bowes' Family
 WEAJ KSD KSTP WCAE WCSH WDAF
 WFJC WFLA WGY WHAS WIOD WJAR
 WJDX WKY WLS WMC WOAI WRC
 WSAI WSB WSMB WSUN WTAG WWJ

8:00-8:15 The World's Business
 WABC KDYL KFPY KFRC KHJ KLZ
 KMBC KOL KRLL KSCJ WADC WAU
 WCAO WDAY WDBJ WDOD WEAN WFBM
 WGR WHEC WHP WIBW WISN WJAS
 WKBN WLAC WLBW WLBZ WMAL WMT
 WNAC WNAX WORC WREC WTAR WWNC
 WXYZ

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

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

8:30-9:00 Chase & Sanborn Choral Orchestra
 WEAJ KPRC KSD KSTP KTHS KVOO
 WCAE WCHS WDAF WEBC WFJC WFLA
 WGY WHAS WHO WIBO WIOD WJAR
 WJDX WKY WLIT WMC WOAI WOC
 WOW WRC WSAI WSB WSB WSMB
 WSUN WTAG WTAM WTIC WTMJ WWJ
 WBNB

9:00-9:15 Our Government, David Lawrence
 WEAJ KSD WCAE WCHS WEBC WEEI
 WFAA WFJC WFLA WGY WHAS WMC
 WIOD WJAR WJDX WKY WLIT WHO
 WOAI WOC WOW WPTF WRC WSAI
 WSB WSM WSMB WSUN WTAG WTIC
 WWJ

9:00-9:30 Majestic Curiosity Shop
 WABC CFAB CKAC KDYL KFH KFJF
 KFPY KPRC KHJ KLRA KLZ KMBC
 KOIL KOIN KOL KRLL KTA KVI
 WADC WBBM WBRC WBT WCAO WCAU
 WCCO WDBJ WDEL WDOD WDSU WFAA
 WFBM WFBM WHK WIBW WISN WJAS
 WKWB WKRC WLAC WLBW WLBZ WMAL
 WNAC WORC WPG WREC WSAZ WSPD
 WTAR WWNC WXYZ

9:15-10:15 Atwater Kent Hour
 WEAJ CKGW KFI KGW KHQ KOA
 KOMO KPO KSD KSL KSTP KVI
 WCAE WDAF WEEI WFAA WFI WGN
 WBNB WGY WHAS WHO WKY WMC
 WOAI WOC WOW WRC WSAI WSB
 WSM WSMB WTAM WWJ

9:30-10:00 Tone Pictures
 WABC KJFF KFPY KLRA KLZ KMBC
 KMOX KOIL KOL KRLL KSCJ WADC
 WBCM WBRC WCAO WCCO WDAY WDBJ
 WDOD WEAN WFLB WHEC WIBW WISN
 WJAS WKWB WKRC WLAC WLBW WMAL
 WMT WNAC WNAX WORC WREC WSPD
 WTAR WWNC WXYZ

10:00-10:30 Jesse Crawford
 WABC WFBM WRBW WEAN WNAC WCAU
 WLBW WMAL WCAO WADC WHK WKRC
 WGST WXYZ WSPD WLAC WOWO WBBM
 KMOX KMBC KOIL WRR KDYL KOL
 KFPY KOIN KHJ KFRC WJAS

10:15-10:45 Studebaker Champions
 WEAJ KFI KGO KGW KHQ KOA
 KOMO KSTP WCAE WCHS WDAF WEBC
 WEEI WFI WGN WBNB WGY WJAR
 WOW WRC WTAG WTAM WTIC WTMJ
 WWJ

10:30-11:00 Around the Samovar
 WABC WADC WCAO WCAU WDBJ WEAN
 WHEC WHK WJAS WKBN WLBW WLBZ

WMAL WNAC WORC WPG WSPD WTAR
 WXYZ
 10:30-11:00 **Low White, Organist**
 WJZ CKGW KDKA KWK WBZ WBZA
 WHAM WJAX WJDX WJR WREN WRVA
 10:45-11:15 **Sunday at Seth Parker's**
 WFAF CKGW KFSD KGO KGW KHQ
 KOA KOMO KPRC KSTP KRTAR KYW
 WCAE WCSH WDAF WEEC WEEI WFI
 WFJC WBEN WGY WHAS WHO WIOD
 WJAX WJDX WKY WMC WOC WOW
 WRC WSB WSM WTAM WTMJ WWJ
 11:00-11:30 **Kaffee Hag Slumber Music**
 WJZ KDKA KWK WBZ WBZA WENR
 WHAM WJR WLW WREN
 11:00-12:00 **Back Home Hour**
 WABC KFJF KFJF KFPY KHJ KMBC
 KMOX KRLL WCCO WDAY WDBJ WDOD
 WFBM WHEC WIBW WISN WKBN WKRC
 WMAL WMT WNAF WPG WREC WTAR
 WXYZ
 11:30-12:00 **Russian Cathedral Choir**
 WFAF CKGW KOA KSTP WBAP WEEC
 WFJC WBEN WGY WHAS WIOD WOW
 WRC WSB WTAM WWJ

Monday

3:00-3:30 **Phil Napoleon and His Band**
 WJZ KDKA KPRC KWK WBAL WBZ
 WBZA WHAM WREN WSB WSM
 3:30-4:00 **Sixteen Singers**
 WFAF CKGW KSD KSTP WBEN WFJC
 WEO WOC WRC WTAM
 4:00-4:30 **Hotel Cosmopolitan Orchestra**
 WJZ CKGW KGO KOA KOMO KSTP
 KYW WAPI WBAL WFAA WHAM WJAX
 WJR WLW WREN WSB WSM WTMJ
 4:00-4:30 **Ballad Hour**
 WABC KDYL KFJF KFPY KFRC KHJ
 KLZ KMBC KMOX KOL KRLL KSCJ
 KVI WADC WAIU WBCM WBRG WCAO
 WCAU WCCO WDAY WDBJ WDOD WEAN
 WGR WEEC WIBW WISN WKRC WLAC
 WLZB WMAL WMT WNAF WORC WPG
 WREC WSPD WTAR WUNC WXYZ
 4:30-5:00 **Wardman Park Hotel Orchestra**
 WABC KDYL KFJF KFPY KFRC KLZ
 KMBC KMOX KOL KRLL KSCJ KVI
 WADC WAIU WBCM WBRG WCAO WCCO
 WDAY WDBJ WDOD WEAN WFAN WGR
 WHP WIBW WISN WLAC WLZB WMAL
 WMT WNAF WORC WPG WREC WSPD
 WTAR WUNC WXYZ
 6:00-6:30 **WSPD Commodores**
 WABC KFJF KFPY KFRC KLRA KLZ
 KOL KRLL WAIU WBBM WBCM WBRG
 WCCO WDAY WDBJ WDOD WFAN WFLB
 WHP WKBW WLW WMAL WMT WREC
 WSPD WTAR WUNC
 6:15-6:45 **Mormon Tabernacle Choir**
 WJZ CKGW KDKA KFAB KFSD KGO
 KGW KOA KOMO KPO KSL KSTP
 KRTAR KWK WAPI WBAL WHAS WLW
 WRC WSM
 7:00-7:15 **Current Events**
 WABC KFJF KFJF KFPY KFRC KLZ
 KOL KSCJ KVI WBCM WCAU WDAY
 WDBJ WDOD WFBM WHEC WHP WIBW
 WISN WJAX WLW WLZB WMAL WMT
 WORC WREC WSPD WTAR WUNC WXYZ
 7:30-8:00 **Colonial Beaconlights**
 WFAF WBEN WCSH WEEI WGY WJAR
 WTAG
 7:45-8:00 **Anheuser-Busch Program**
 KFJF KLRA KMBC KMOX KOIL KRLL
 KTRH WAIU WDOD WDSU WFBM WHK
 WMAQ WMT WREC WSPD WXYZ
 7:45-8:30 **Roxy's Gang Program**
 WJZ CKGW KFAB KGO KGW KWK
 WBZ WBZA WHAM WIBO WSB WSM
 8:15-8:30 **Fifteen Minutes in Nation's Capital**
 WFAF KECA KFSD KGO KGW KOA
 KOMO KPRC KSD KVOO KYW WCAE
 WDAF WFJC WFLA WHAS WHO WIOD

WJAR WJAX WJDX WKY WOAI WOC
 WOW WPTF WRC WSAI WSBM WSUN
 WTAG WTIC WWJ
 8:15-8:30 **Voice of Columbia**
 WABC WFLB WKBW WLBZ WPG WJAX
 WLW WMAL WTAR WDBJ WADC WUNC
 WBCM WDOD WREC WLAC WISN WGL
 WCCO KSCJ WMT KLRA WNAX WIBW
 KFJF KFJF KRLL KFPY WORC
 8:30-9:00 **Ingram Shavers**
 WJZ CKGW KDKA KFAB KOA KPRC
 KTHS KVOO KWK KYW WBZ WBZA
 WEEC WFAA WFLA WHAS WIOD WJAX
 WJR WKY WLW WMC WOAI WREN
 WRVA WSB WSM WSBM WSUN WTMJ
 8:30-9:00 **Arabesque**
 WABC KFJF KFPY KLRA KMOX KOIL
 KRLL WBCM WCCO WDAY WDBJ WDOD
 WEAN WFLB WGR WJAX WKRC WLW
 WMAL WMAQ WMT WNAF WNAF WNAF
 WREC WUNC WXYZ
 8:30-9:30 **A & P Gypsies**
 WFAF KSD WCAE WCSH WDAF WEEI
 WGN WBEN WGY WHO WJAR WLIT
 WOC WOW WRC WSAI WTAG WTAM
 WTIC WWJ
 9:00-9:30 **Maytag Orchestra**
 WJZ KDKA KECA KGO KGW KHQ
 KOA KOMO KPRC KSL KSTP KTHS
 KVOO KWK KYW WBZ WBZA WCKY
 WEEC WHAM WJDX WJR WKY WMC
 WOAI WREN WSB WSM WSBM
 9:00-9:30 **Mardi Gras**
 WABC KDYL KFPY KFRC KMBC KRLL
 KSCJ WADC WBCM WCCO WDAY WDBJ
 WDOD WEAN WGR WIBW WISN WJAX
 WKRC WLAC WLW WLZB WMAL WMAQ
 WNAF WNAF WORC WTAR WUNC WXYZ
 9:30-10:00 **Chesapeake Real Folks**
 WJZ CKGW KDKA KWK KYW WBZ
 WBZA WHAM WJR WLW WREN
 9:30-10:00 **Bourjois—Evening in Paris**
 WABC KDYL KFJF KFPY KFRC KHJ
 KLZ KMBC KMOX KOIL KOIN KOL
 KRLL WADC WBBM WBT WCAO WCAU
 WCCO WDSU WEAN WFLB WGST WHK
 WJAX WKBW WKRC WLW WMAL WNAF
 WOWO WPG WSPD WXYZ
 9:30-10:00 **General Motors Family Party**
 WFAF KECA KFI KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 WCAE WCSH WDAF WEEI WFAA WGN
 WBEN WGY WHAS WHO WJAR WJAX
 WKY WLIT WMC WOAI WOC WOW
 WRC WSAI WSB WSM WTAG WTAM
 WTIC WTMJ WWJ
 10:00-10:30 **Robert Burns Panatela Program**
 WABC KDYL KFJF KFPY KFRC KHJ
 KLZ KMBC KMOX KOIL KOIN KOL
 KRLL KTRH KTSA KVI WADC WBT
 WCAO WCAU WCCO WEAN WFLB WFBM
 WHK WJAX WKBW WKRC WLW WMAL
 WMAQ WNAF WOWO WPG WSPD WXYZ
 10:00-10:30 **Stromberg-Carlson Program**
 WJZ KDKA KFI KFSD KGO KGW
 KHQ KOA KOMO KPRC KTRAR KWK
 KYW WAPI WBZ WBZA WCKY WEEC
 WFLA WHAM WHAS WIOD WJAX WJDX
 WJR WKY WMC WOAI WREN WRVA
 WSB WSM WSBM WSUN
 10:00-10:30 **Adventures of Sherlock Holmes**
 WFAF WCAE WCSH WEEI WGN WJAR
 WLIT WRC WSAI WTAG WTAM WWJ
 10:30-11:00 **Empire Builders**
 WJZ KDKA KECA KFSD KGO KGW
 KHQ KOA KOMO KPRC KSL KSTP
 KTRAR KWK KYW WBAP WBZ WBZA
 WEEC WHAM WJR WKY WLW WOAI
 WREN WTMJ
 10:30-11:00 **American Maize Program**
 KDYL KFPY KFRC KHJ KLZ KNX
 KOIL KOL KSCJ WADC WBBM WCAH
 WCAU WDAY WHK WHP WISN WJAX
 WKBN WKRC WLW WMT WNAF WSPD

10:30-11:00 Symphonic Rhythm Makers
 WFAF WCAE WCSH WDAF WEEI WJAR
 WJDX WMC WOV WRC WSB WTAG
 WTAM WWJ WBN

11:00-11:15 Musical Aviators Orchestra
 WABC WKBW WLBZ WPG WCAU WLBW
 WCAO WTAR WDBJ WADC WKRC WKBN
 WWCN WXYZ WBCM WOOD WREC WBRC
 WISN WFBM WCCO WMT KMOX KMBC
 KLRA WNAX KOIL WIBW KFJF KFJF
 KOL KFPY CFRB WORC

11:00-11:30 Florence Richardson and Her Orchestra
 WFAF WGY WCAE WSAI KSD WTMJ
 WSM WOC WHO WJDX WMC WSB
 WOV

11:30-12:00 Horace Heidt and His Orchestra
 WFAF WWJ WDAF KSTP WOV WOC
 WHO WEBC KSD WGY

11:30-12:00 Fletcher Henderson and His Orchestra
 WABC WKBW WLBZ WLBW WMAL WCAO
 WTAR WDBJ WKRC WKBN WWCN WXYZ
 WBCM WDOE WREC WBRC WISN WFBM
 WCCO KSCJ WMT KMOX FMBC KLRA
 WNAX KOIL WIBW KFJF KFJF KLZ
 KFPY CFRB WORC

12:00-1:00 Phil Spitalny and His Orchestra
 WFAF KSD KSTP KYW WDAF WFJC
 WHO WKY WOC WRC WSM WTAM
 WWJ

Tuesday

10:15-10:30 Through the Looking Glass
 WJZ CKGW KDKA KFAB KFJF KPRC
 KVOO KWK WBZ WBZA WHAM WJR
 WKY WLW WOA I WREN

3:30-4:00 Golden Gems
 WFAF KSD KSTP WEEI WFJC WFLA
 WJAX WOV WSN WTAM WTIC

4:00-4:30 Italian Idyll
 WABC KDYL KFJF KFPY KFRC KLZ
 KMBC KMOX KRLL KSCJ KVI WADC
 WAU WBCM WBRC WCAO WCAU WCCO
 WDBJ WDOE WEAN WHK WIBW WISN
 WKRC WLAC WLBZ WMAL WMT WNAC
 WORC WOV WPG WREC WTAR WWCN
 WXYZ WGR

4:00-5:00 Pacific Vagabonds
 WJZ KFAB KFSD KGO KOA KSTP
 WAPI WHAM WJAX WJR WLW WSM

5:00-5:15 Rhythm Kings
 WABC KDYL KFJF KFJF KLZ KMBC
 KMOX KRLL KSCJ WAU WBCM WBRC
 WCAO WCCO WDOE WFBM WHP WISN
 WKBW WLBZ WMAL WMT WREC WTAR
 WWCN WXYZ WGR

7:30-7:45 Musical Aviators Orchestra
 KFJF KFJF KFPY KFRC KLRA KLZ
 KOIL KRLL KSCJ WAU WBRC WCCO
 WDAY WDBJ WDOE WFLB WGR WHEC
 WHP WIBW WISN WJAS WKRC WLAC
 WLBW WMT WORC WREC WTAR WWCN
 WXYZ

7:30-8:00 Soconyland Sketches
 WFAF WBN WCSH WEEI WGY WJAR
 WTAG

8:00-8:15 Troika Bells
 WFAF WDAF WEEI WFI WRC WSAI
 WWJ

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

8:00-8:30 Blackstone Program
 WABC KMBC KMOX KOIL WADC WAU
 WBT WCAH WCAO WCAU WCCO WEAN
 WFLB WHEC WHK WHP WJAS WKBW
 WLBW WLBZ WMAL WMAQ WMT WNAC
 WORC WPG WSPD WXYZ

8:30-9:00 Florasheim Frolic
 WFAF KOA KPRC KSD KAL KSTP
 KTHS KVOO WBAP WCAE WCSH WDAF
 WEBC WFI WFLA WGN WBN WGY
 WHAS WHO WIOD WJAR WJAX WJDX

WKY WMC WOA I WOC WOV WRC WSB WSM WTAM
8:45-9:00 Premier Salad Dressers
 WABC KDYL KFPY KFRC KHJ KLZ
 KMBC KMOX KOIL KOIN KOL KTRH
 KVI WADC WBT WCAO WCAU WCCO
 WDAE WDOE WDSU WEAN WFLB WGST
 WHK WJAS WKBW WKRC WLAC WLBW
 WMAL WMAQ WNAC WOV WPG WQAM
 WSPD WTOC WXYZ

9:00-9:30 Works of Great Composers
 WJZ WBZ WBZA WBAL WHAM KDKA
 KYW KWK WREN WCKY CKGW

9:00-9:30 Henry George
 WABC KFJF KMBC KMOX KOIL WADC
 WBMM WCAO WCAU WCCO WEAN WFLB
 WFBM WHK WHP WISN WJAS WKBW
 WKRC WLBW WMAL WNAC WOV WSPD
 WXYZ WBN

9:00-9:30 Eveready Program
 WFAF KGO KGW KHQ KOA KOMO
 KSD KSL WCAE WCSH WEBC WEEI
 WPI WRJC WGN WGY WHA WHO
 WJAR WJDX WMC WOC WOV WRC
 WSAI WSB WSM WSMB WTAM WWJ

9:30-10:00 Happy Wonder Bakers
 WFAF KECA KGO KGW KHQ KOA
 KOMO KFRC KSD KSL KSTP KOA
 WBAP WCAE WCSH WDAF WBEBC WEEI
 WPI WFJC WBN WGY WEAS WHO
 WIBO WJAR WJDX WKY WOC WOC
 WOV WRC WRVA WSAI WSB WSM
 WTAM WTMJ WWJ

9:30-10:00 Philco Symphony Concert
 WABC CFRB KFJF KFJF KMBC KMOX
 KOIL KRLL KTRH KTSA WADC WBRC
 WBT WCAO WCAU WCCO WDOE WDSU
 WEAN WFLB WFBM WGST WHEC WHK
 WISN WJAS WKBW WKRC WLAC WLBW
 WMAL WMAQ WMT WNAC WOV WPG
 WREC WSPD WTAR WXYZ

10:00-10:15 Enna Jettick Songbird
 WFAF KSD WCAE WCSH WDAF WEEI
 WPI WFJC WBN WGY WHO WIBO
 WJAR WOC WOV WRC WSAI WTAG
 WTMJ WWJ

10:00-10:15 Graybar, Mr. and Mrs.
 WABC KDYL KFJF KFJF KFPY KFRC
 KHJ KLRA KLZ KMBC KMOX KOIL
 KOIN KOL KRLL KTRH KTSA KVI
 WADC WAU WBBM WBRC WBT WCAO
 WCAU WCCO WDBJ WDSU WEAN WFLB
 WFBM WGST WHEC WHK WISN WJAS
 WKBW WKBW WKRC WLAC WLBW WMAL
 WNAC WOV WPG WREC WSPD WTAR
 WWCN WXYZ

10:00-10:30 Westinghouse Salute
 WJZ KDKA KECA KFSD KGO KGW
 KHQ KOMO KFRC KSL KSTP KTR
 KWK KYW WAPI WBAL WBZA WOD
 WCKY WEBC WFLA WHAM WHAS WIOD
 WJAX WJR WKY WMC WOA I WREN
 WRVA WSB WSM WSMB WSN WTMJ

10:15-11:00 Lucky Strike Orchestra
 WFAF KECA KFSD KGO KGW KHQ
 KOA KOMO KSD KTR KTR WCAE WCSH
 WDAF WEBC WEEI WPI WFJC WFLA
 WBN WHAS WHO WIBO WIOD WJAR
 WJAX WJDX WKY WMC WOA I WOC
 WRC WRVA WSAI WSB WSM WSMB
 WSN WTAM WWJ

10:30-11:00 Paramount Publix Radio Playhouse
 WABC CFRB KDYL KFJF KFJF KFPY
 KFRC KHJ KLRA KLZ KMBC KMOX
 KOIL KOIN KOL KSCJ KTRH KTSA
 WADC WBBM WBCM WNRG WBT WCAO
 WCAU WCCO WDAE WDAY WDBJ WDOE
 WDOE WDSU WEAN WFLB WFBM WGST
 WHEC WHK WHP WIBW WISN WJAS
 WKBW WKBW WKRC WLAC WLBW WLBZ
 WMAL WMT WNAC WNAX WOV WPG
 WQAM WREC WRR WSPD WTAR WTCO
 WWCN WXYZ

10:30-11:00 Cuckoo
WJZ KDKA WBZ WBZA WCKY WJR
WREN

11:00-11:30 Yeong's Restaurant Orchestra
WHEC WGR WLBZ WEAN WNAC WORC
WCAU WHP WLWB WCAO WJAR WDBJ
WADC WWNC WXYZ WBCM WSPD WDOD
WRCC WBRC WISN WFBM WCCO KMOX
KMBC KLRA WNAX KOIL WIBW KFH
KFJF KOL KPFP KFRC CFRB

11:00-11:30 Duke Ellington and His Orchestra
WEAF KOA KSD KSTP WCAE WDAF
WFI WFJC WGY WHAS WJDX WMC
WOW WSAI WSB WSM WTMJ WWJ

11:30-12:00 Vincent Lopez and His Orchestra
WEAF CKGW KOA KSTP WFI WHO
WJDX WOC WOW WRC

Wednesday

11:45-12:00 The Recitalists
WJZ KFAB KOA KWK WBAL WHAM
WSM

12:00-12:15 Elgin Program
WEAF CKGW KOA KSD KTHS KVOO
KYW WAPI WCAE WCHS WDAF WBCB
WEEL WFJC WFLA WHAS WHO WIOD
WJAR WJAX WJDX WKY WLW WMC
WOAI WOC WPTF WRC WRVA WSAI
WSB WSMB WSUN WTAG WWJ

3:00-3:30 Matinee Gems
WJZ KDKA KWK WBAL WBZ WBZA
WHAM WJAX WJDX WREN WRVA

3:30-4:00 Syncopated Silhouettes
WABC KDYL KFJF KPFP KLZ KMBC
KSCJ KVI WADC WAU WBCM WBRC
WCAO WCAU WCCO WDAY WDBJ WDOD
WGR WHEC WHK WHP WBM WISN
WKBN WKRC WLAC WLWB WMAL WMT
WORC WPG WREC WJAR WWNC WXYZ

3:30-4:00 Evening Stars
WEAF CKGW KOA KPRC KSD
KSL KSTP KTHS KYW WAPI WBAP
WBEN WCAE WBCB WEEI WFI WFJC
WFLA WGY WHAS WHO WIOD WJAX
WJDX WKY WMC WOAI WOC WPTF
WRC WRVA WSAI WSB WSM WSMB
WSUN WTAG WTAM WWJ

5:00-5:30 Asbury Park Casino Orchestra
WABC KFH KFJF KLRA KLZ KRLD
KSCJ WAU WBCM WBRC WCAO WCCO
WDAY WDOD WFAN WFBL WGR WHP
WISN WLWB WMAL WMT WREC WSPD
WTAR WWNC WXYZ

6:15-6:25 Smith Ballou and His Orchestra
WJZ KFAB WSM KOA GGO KTAR
KGW WBAL

7:00-7:30 Musical Aviators Orchestra
WABC WHEC WLWB WORC WCAU WJAS
WLWB WMAL WJAR WDBJ WAU WWNC
WXYZ WBCM WDOD WBRB WISN KSCJ
KLRA KFJF KVI KOL KPFP KFRC
CFRB

7:30-7:45 Evangeline Adams, Astrologer
WABC CFRB KFJF KLRA KMBC KMOX
KOIL KTRH WADC WAU WBRB WBT
WCAO WCAU WCCO WDBJ WDOD WDSU
WEAN WFBL WFBM WGST WHEC WIK
WISN WKBW WKRC WLAC WLWB WMAL
WMAQ WNAC WREC WRR WSPD WTAR
WWNC WXYZ

7:45-8:00 Back of the News in Washington
WEAF KECA KFSD KGO KGW KOA
KOMO KSD KSL WAPI WCAE WDAF
WFJC WGY WHO WIBO WKY WOC
WOW WRC WRVA WSAI WSM WTAG

7:45-8:00 Eskimo Pie Program
WABC CKAC KMBC KMOX KRLD WBRB
WBT WCAO WCAU WCCO WGST WHEC
WHK WJAS WKBW WKRC WLAP WMAL
WMAQ WNAC

7:45-8:00 Fifth Avenue Knights
WJZ KDKA KYW WBZ WBZA WHAM

8:00-8:30 Yeast Foamers
WJZ KDKA KFAB KSTP KWK KYW
WBZ WBZA WBCB WHAM WJR WREN

8:00-8:15 Rodeaver Sing
WEAF KGO KOA KJDX WOW KSD
WWJ WTAM WIOD WEEI WJAR WTAG

8:15-8:30 Radiotron Varieties
WEAF WTIC WJAR WTAG WRC WREN
WTAM WSAI WIBO KSD WOW WIOD
WSM WSB WSBM WJDX WOAI KOA
KHQ KOMO KFSD KTAR KECA KSL
KGO KOA

8:15-8:30 U.S. Marine Band
WABC WGR WLBZ WEAN WNAC WORC
WJAS WLWB WMAL WJAR WDBJ WADC
WWNC WXYZ WBCM WSPD WDOD WREC
WLAC WBRC WCCO KSCJ WMT KMBC
KLRA WNAX KFJF KPFP KFRC CFRB

8:30-9:00 Toscha Seidel and Concert Orchestra
WABC WGR WLBZ WEAN WNAC WORC
WPG WJAS WLWB WMAL WJAR WDBJ
WKRC WWNC WXYZ WBCM WSPD WDOD
WBRC WOWO WMAQ WMT KSCJ KMOX
KMBC KLRA WNAX WIBW KFH KFJF
KRLD KPFP KFRC CFRB

8:30-9:00 Luden Novelty Orchestra
WJZ CKGW KDKA KWK KYW WBZ
WBZA WHAM WREN

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

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

9:30-10:00 Gold Medal Fast Freight
WABC KDYL KFBC KFH KFJF KPFP
KFRC KHJ KLZ KMBC KMOX KOIL
KOLN KOL KRLD KSCJ WADC WBBM
WBT WCAO WCAU WCCO WDBJ WEAN
WFBL WFBM WHK WISN WJAS WKBW
WKRC WLAC WLAP WLWB WMAL WNAC
WOWO WPG WREC WSPD WJAR WXYZ

9:30-10:00 La Palina Smoker
WABC KMBC KMOX KOIL WADC WBBM
WBT WCAO WCAU WCCO WREC WFBM
WHK WISN WJAS WKBW WKBW WLWB
WMAL WNAC WOWO WPG WREC WSPD
WXYZ

9:30-10:30 Camel Pleasure Hour
WJZ KDKA KWK KYW WBZ WBZA
WHAM WJR WLW WREN WRVA WSJS

9:30-10:30 Palmolive Hour
WEAF KECA KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP KVOO
WAPI WCAE WCHS WDAF WEEI WFAA
WGN WBEN WGY WHAS WHO WJAR
WJAX WLIT WMC WOAI WOC WOW
WRC WSAI WSB WSM WSMB WTAG
WTIC WTMJ WWJ

10:00-11:00 Detroit Symphony Orchestra
WABC KFH KFJF KPFP KLRA KMBC
KOIL KSCJ WADC WBCM WBRB WCAO
WCAU WCCO WDAY WDBJ WDOD WEAN
WFBL WFBM WGR WHEC WIBW WISN
WJAS WKBW WKRC WLAC WMAL WMAQ
WMT WNAC WNAX WORC WPG WREC
WSPD WTAR WWNC WXYZ

10:30-11:00 Coca Cola Program
WEAF CKGW KECA KFSD KGO KGW
KHQ KOA KOMO KPRC KSD KSL
KSTP KTHS KVOO KYW WAPI WCAE
WCHS WDAF WBCB WEEI WBEN WGY
WHAS WHO WIOD WJAR WJAX WJDX
WKY WLIT WMC WOAI WOC WOW

WRC WRVA WSAI WSB WSMB WTAG
WTAM WTIC WWJ

11:00-11:30 **Guy Lombardo and His Orchestra**
WABC WHEC WGR WLBZ WEAN WNAC
WORC WPG WCAU WLBW WCAO WTAR
WDBJ WADC WKRC WNBC WXYZ WBCM
WSPD WDDO WREC WBRC WISN WOWO
WFBM WCCO KSCJ WMT KMBC KLRA
WNAX KOIL WIBW KFH KFJF KFPY

11:00-11:30 **Vincent Lopez and His Orchestra**
WEAF KOA KSD KSTP WCAE WDAF
WFJC WFLA WGY WHAS WHO WIOD
WJDX WLIT WMC WOC WOW WRC
WSAI WSB WSM WSMB WSUN WTAM
WWJ

11:30-12:00 **California Melodies**
WABC KFH KFPY KHJ KMBC KSCJ
WBCM WBRC WCAO WCCO WDBJ WIOD
WEAN WFBM WHEC WHK WIBW WSUN
WKBN WKRC WLBW WMAL WMT WNAC
WNAX WORC WREC WTAR WNBC WXYZ

Thursday

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

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

10:30-11:00 **The Manhatters**
WJZ KDKA KFAB KWK WHAM WIBO
WLW WREN WSMB

4:30-5:00 **The Crockett Mountaineers**
WABC WGR WLBZ WEAN WNAC WORC
WPG WFNAN WHP WLBW WMAL WCAO
WTAR WDBJ WAIU WNBC WBCM WSPD
WDDO WREC WBRC WISN WGL WCCO
KSCJ WMT KMOX KMBC KLRA KOIL
WIBW KFJF KRLL KLZ KVI KOL

5:00-5:30 **In the Spotlight**
WEAF KFSD KGO KOA KOMO KSD
KTAR WCAE WBEN WHAS WHO WJAR
WKY WOC WRC WSAI WSM WSMB
WTAG WTAM WTIC

5:30-5:45 **The Toddy Party**
WEAF CKGW KSD KYW WCAE WCSH
WEEI WFJC WBEN WGY WJAR WLIT
WRC WSAI WTAG WTIC WWJ

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

7:30-8:00 **Ward's Tip Top Club**
WABC KMOX WCAO WCAU WEAN WFBL
WHK WJAS WKBN WNAC WXYZ

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

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

8:15-8:30 **Poets Gold**
WABC WGR WLBZ WORC WPG WFNAN
WJAS WLBW WMAL WTAR WDBJ WADC
WNBC WXYZ WBCM WSPD WDDO WREC
WLAC WBRC WISN KSCJ WMT KMBC
KLRA WNAX KFPY WIBW KFH KFJF
KRLL

8:30-8:45 **Kaltenborn Edits the News**
WABC KMBC KMOX KOIL WADC WBT
WCAO WCAU WCCO WEAN WFBL WJAS
WKBW WKRC WLBW WMAL WMAQ WNAC
WOWO WPG WSPD WXYZ

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

9:00-9:30 **Rhythm Choristers**
WABC WHEC WKBW WLBZ WEAN WNAC
WORC WPG WHP WJAS WLBW WMAL
WTAR WDBJ WADC WNBC WXYZ WBCM
WSPD WISN KSCJ WMT KMBC KLRA
WNAX KOIL WIBW KFH KFJF KLZ
KOL KFPY KPRC

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

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

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

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

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

10:00-10:30 **Lutheran Laymen League Program**
WABC KDYL KFPY KPRC KHJ KLZ
KMOX KOIL KOIN KOL KRLL WADC
WBBM WCAO WCAU WCCO WDSU WEAN
WFBL WHK WJAS WKBW WKRC WLBW
WMAL WMT WNAC WOWO WSPD WXYZ

10:00-11:00 **Victor Herbert Opera Series**
WJZ CKGW KDKA KWK WBAL WBZ
WBZA WHAM WREN

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

10:30-11:00 **Melody Moments**
WABC WFBL WHEC WGR WLBZ WEAN
WNAC WORC WFNAN WHP WJAS WLBW
WMAL WCAO WTAR WDBJ WADC WKRC
WKBW WNBC WXYZ WBCM WSPD WDDO
WLAC WISN WCCO KSCJ WMT KMBC
KLRA WNAX KOIL WIBW KFJF KRLL
KLZ KFPY

11:00-11:30 **Ben Bernie and His Orchestra**
WABC WHEC WKBW WLBZ WEAN WNAC
WORC WPG WHP WLBW WMAL WCAO
WTAR WDBJ WADC WNBC WXYZ WBCM
WSPD WDDO WREC WBRC WISN WFBM
WMT KMOX KMBC KLRA WNAX KOIL
WIBW KFH KFJF KOL KFPY CFRB

11:00-11:30 **Florence Richardson's Orchestra**
WEAF WCAE WFI WRC WBEN WJDX
KSTP CKGW (WWJ WSAI off 11:15) (KSD
WOW WSM WSMB on 11:15)

11:30-11:45 Duke Ellington and His Orchestra
 WFAF CKGW KSD KSTP WDAF WFI
 WFJC WJDX WOW WRC WWJ

WCAU WEAN WFBL WHK WJAS WKBW
 WKRC WLWB WMAL WMAQ WNAC WOWO
 WSPD WXYZ

Friday

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

4:00-4:45 Dancing Melodies
 WFAF WEEL WTAG WCAE WFJC WTAM
 WWJ WOC WHO WOW WDAF WBEN

7:00-7:30 Howard Lanin's St. Moritz Orchestra
 WABC WFBL WGR WLWB WEAN WORC
 WHP WJAS WLWB WMAL WTAR WDBJ
 WUNC WXYZ WBCM WDOD WBRC WISN
 WCCO KSCJ WMT KLRA WIBW KFJF
 KLZ KOL KFPY KPCC

7:45-7:55 The Vagabonds
 WABC WHEC WLWB WORC WHP WJAS
 WLWB WCAO WTAR WDBJ WHK WUNC
 WXYZ WBCM WDOD WBRC WISN WGL
 WMAQ WCCO KSCJ WMT KMBC KLRA
 KFJF KRLD KLZ KFPY KPCC CFRB

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

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

8:00-9:00 Cities Service Concert Orchestra
 WFAF CKGW KECA KGO KGW KHQ
 KOA KOMO KPCC KSD KSL KSTP
 KYW WCAE WCSH WDAF WEBC WEEI
 WFAA WBN WHO WJAR WKY WLIT
 WOAI WOC WOW WRC WSAI WTAG
 WTAM WVIC WTMJ WWJ

8:15-8:30 Grand Opera Miniatures
 WABC KDYL KFH KFJF KFPY KPCC
 KEJ KLZ KMBC KRLD KSCJ KVI
 WADC WAIU WBCM WDAY WDBJ WDOD
 WHFC WHP WIBW WISN WJAS WKRC
 WLAC WLWB WLWB WMAL WMAQ WMT
 WNAX WORC WREC WSPD WTAR WUNC
 WXYZ WGR

8:30-9:00 Weed Tire Chain Program
 WABC KFJF KMBC KMox KOIL KRLD
 WADC WCAO WCAU WCCO WEAN WFBL
 WJAS WKBW WKRC WLWB WMAL WMAQ
 WNAC WOW WSPD WXYZ

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

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

9:00-9:30 Cliquot Club Eskimos
 WFAF KSD WCAE WCSH WDAF WEEI
 WBN WGY WHO WIBO WJAR WLIT
 WOC WOW WRC WSAI WTAG WVIC
 WWJ

9:00-10:00 True Story Hour
 WABC KMBC KMox KOIL WADC WCAO

9:30-10:00 Del Lampe's Eversharp Orchestra
 WFAF KSD WCAE WCSH WDAF WEEI
 WFJC WGN WBN WGY WHO WJAR
 WLIT WOC WOW WRC WSAI WTAG
 WVIC WWJ

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

10:00-10:30 Crime Prevention Program
 WFAF KSD WCAE WCSH WJAR WRC
 WTAG

10:00-10:30 Armstrong Quakers
 WJZ KDKA KFI KGO KGW KHQ
 KOA KOMO KPCC KSL KSTP KWK
 KYW WPAB WJBZ WBZA WCKY WEBC
 WHAM WHAS WJR WKY WMC WOAI
 WREN WSB WSMB WTMJ

10:00-10:30 Radio Follies, Guy Lombardo
 WABC KDYL KFJF KFPY KPCC KHJ
 KLZ KMBC KMox KOIL KOIN KOL
 KVI WADC WBT WCAO WCAU WCCO
 WDSU WEAN WFBL WGST WHEC WHK
 WHP WJAS WKBW WKRC WMAL WMAQ
 WNAC WORC WOWO WPG WRR WSPD
 WTAR WXYZ

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

10:30-11:00 L'Orpheon de Montreal
 WABC WHEC WLWB WEAN WNAC WORC
 WJAS WMAL WCAO WTAR WDBJ WADC
 WKRC WUNC WXYZ WBCM WSPD WDOD
 WLAC WBRC WISN WGL WCCO KSCJ
 WMT KMBC KLRA WNAX KOIL WIBW
 KFJF KLZ KOL KFPY

11:00-11:30 Musical Aviators Orchestra
 WHEC WKBW WLWB WEAN WNAC WORC
 WLWB WCAO WTAR WDBJ WADC WUNC
 WXYZ WBCM WSPD WDOD WREC WBRC
 WISN WCCO WMT KMBC KLRA WNAX
 KOIL WIBW KFH KOL

11:00-12:00 Vincent Lopez and His Orchestra
 WFAF CKGW KOA KSD KSTP WCAE
 WDAF WFJC WGY WHAS WHO WJDX
 WLIT WMC WOC WOW WRC WSB
 WSM WSMB WVIC WWJ

11:30-12:00 Romanelli and His Orchestra
 WABC KDYL KFH KFJF KFPY KLZ
 KMBC KMox KOL WBCM WBRC WCAO
 WCCO WDAY WDBJ WDOD WBN WHK
 WIBW WISN WKRC WLWB WLZ WMAL
 WMT WNAC WNAX WORC WREC WSPD
 WTAR WUNC WXYZ

Saturday

10:30-11:00 New World Salon Orchestra
 WABC KDYL KFJF KMBC KRLD KSCJ
 WADC WAIU WBCM WCAO WCAU WDAY
 WDBJ WDOD WEAN WFBM WHEC WHK
 WISN WJAS WKBN WLAC WLZ WMAL
 WMT WNAC WREC WUNC WXYZ

1:30-2:00 Savoy Plaza Orchestra
 WABC KLRA WADC WBCM WBRC WCAO
 WDBJ WDOD WEAN WFBL WGR WHP
 WJAS WKRC WLAC WMAL WSPD WTAR
 WUNC WXYZ

3:30-4:00 **The Marionettes**
WEAF KGO KOA KTAR WBEN WCAE
WGY WRC

4:30-5:00 **Spanish Serenade**
WABC WGR WLBZ WEAN WNAC WORC
WPG WFAN WHP WMAL WCAO WTAR
WDBJ WADC WAIU WNNC WXYZ WBCM
WSPD WDOD WREC WLAC WISN WCCO
KSCJ WMT KMOX KMBC KLRA KOIL
WIBW KFJF KRLD KLZ KVI KOL
KFPY KFRC

5:30-6:00 **Blue Aces**
WJZ KWK WHAM WHAS WMC WSB
WSMB

6:00-6:15 **The Jameses**
WEAF CKGW KGO KGW KOA KSD
KTAR WCAE WFI WGY WHAS WJAR
WMC WOW WRC WWJ

6:00-6:15 **Tom, Dick and Harry**
WABC KDYL KFH KFJF KFPY KLZ
KMOX KRLD KSCJ WADC WAIU WBCM
WBRC WCCO WDAY WDBJ WDOD WFAN
WHEC WHK WHP WIBW WISN WKBN
WLBW WMT WREC WTAR WNNC WGR

6:15-6:40 **Smith Ballou and His Orchestra**
WJZ KFAB KWK WBZ WBZA

7:00-7:15 **Yoeng's Restaurant Orchestra**
WABC WFBL WHEC WKBW WLBZ WORC
WHP WJAS WLBW WMAL WTAR WDBJ
WADC WKRC WAIU WKBW WNNC WXYZ
WBCM WDOD WBRC WISN WFBM KSCJ
KLRA WIBW KFH KFJF KVI KOL
KFPY KFRC CFRB

7:00-7:30 **Peter van Steeden and Orchestra**
WEAF WJAR WFI WWJ WOC WHO
WCSH WTAM WOW WSAI KSTP KOA
KGO

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

7:30-8:00 **Necco Surprise Party**
WABC WEAN WFBL WHEC WKBW WLBZ
WNAC WORC

7:30-8:00 **Silver Flute**
WEAF CKGW KSD KSTP WCSH WDAF
WECB WEEL WFI WBEN WHO WJAR
WOC WOW WRC WSAI WTAG WWJ

7:45-8:00 **Pickard Family**
WJZ CKGW KDKA KFAB KWK KYW
WBZ WBZA WHAM WLW WREN

8:00-8:15 **Dixies Circus**
WJZ KDKA KPRC KSTP KVOO KYW
WBAL WBZ WBZA WHAM WXY WLW
WOAI

8:00-8:15 **Rodeaveer Sing**
WEAF KGO KGW KTAR KOA WJDX
WSMB WFLA WSUN WOW KSD WWJ
WTAM WGY WCSH

8:15-8:30 **Radiotron Varieties**
WEAF WEEL WJAR WCSH WGY WREN
WCAE WTAM WWJ WSAI WIBO KSD
WDAF WRVA WJAX WIOD WFLA WSUN
WSM WMC WSB WSMB WJDX KPRC
WOAI WKY KOA KSL KGO KGW
KECA KOMO KHQ KTAR KPSD

8:15-8:30 **Dixie Echoes**
WABC KDYL KFH KFJF KFPY KHJ
KMBC KSCJ WADC WBCM WCAO WDAY
WDBJ WDOD WFAN WHK WIBW WISN
WJAS WKBW WKRC WLAC WLBW WLBZ
WMAL WMT WNAX WORC WOWO WREC
WSPD WTAR WNNC WXYZ WGR

8:30-9:00 **Dancing Yesterdays**
WABC KFH KFJF KFPY KFRK KLRA
KMBC KOIL KSCJ WADC WBCM WCAO
WCAU WDBJ WDOD WEAN WFBL WGR
WIBW WISN WJAS WKRC WLAC WLBW
WMAL WMT WNAC WNAX WORC WPG
WSPD WTAR WNNC WXYZ

8:30-9:00 **Fuller Man**
WJZ CKGW KDKA KECA KFAB KGO
KGW KHQ KOA KOMO KPRC KWK
WBAL WBZ WBZA WHAM WIBO WJR
WKY WLW WREN

9:00-9:30 **Carborundum Hour**
WABC KMOX WCAU WHK WKBW WMAQ
WNAC WXYZ

9:00-10:00 **General Electric Hour**
WEAF KFI KFSD KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR WAPI WBP WCAE WCSH WDAF
WECB WEEL WFI WBEN WHAS WHO
WIBO WJAR WJAX WKY WMC WOAI
WOC WOW WRC WRVA WSAI WSB
WSMB WTAG WTAM WTMJ WWJ

9:30-10:00 **Dutch Masters Minstrels**
WJZ KDKA KWK KYW WBAL WBZ
WBZA WHAM WJR WLW WREN

9:30-10:00 **Columbia Educational Features**
WABC KFH KFJF KFPY KHJ KLRA
KLZ KMBC KOIL KOL KSCJ WADC
WBCM WCAO WCAU WCCO WDBJ WDOD
WEAN WFBL WFBM WHP WIBW WISN
WJAS WKBW WKRC WLAC WLBW WMAL
WMAQ WMT WNAC WNAX WORC WSPD
WTAR WNNC WXYZ

10:00-11:00 **Lucky Strike Orchestra**
WEAF KFI KFSD KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR KVOO WAPI WCAE WCSH WDAF
WECB WEEL WFAA WFI WFJC WFLA
WGN WBEN WGY WHAS WHO WIOD
WJAR WJAX WJDX WKY WMC WOAI
WOC WOW WRC WRVA WSAI WSB
WSMB WSUN WTAG WTMJ WWJ

10:00-11:00 **Hank Simmons' Show Boat**
WABC KDYL KFH KFJF KFPY KFRK
KHJ KLZ KMBC KMOX KOL KSCJ
WADC WBCM WCAO WCAU WCCO WDAY
WDBJ WDOD WEAN WHK WHP WIBW
WISN WJAS WKBW WKRC WLAC WLBW
WLBZ WMAL WMAQ WMT WNAC WNAX
WORC WOWO WPG WREC WSPD WTAR
WNNC WXYZ

10:00-11:00 **Chicago Civic Opera**
WJZ KDKA WBAL WBZ WBZA WHAM

11:00-11:15 **Troubadour of the Moon**
WEAF KSTP WDAF WFI WHO WIOD
WJDX WOC WOW WRC WSAI WTAM
WWJ

11:00-11:30 **Jack Denny and His Orchestra**
WABC KDYL KFJF KFPY KFRK KLZ
KMBC KOL KRLD KSCJ WBCM WBRB
WCAO WDAY WDBJ WDOD WEAN WFAN
WFBM WHEC WHK WHP WIBW WISN
WLBW WLBZ WMAL WMT WNAC WNAX
WORC WPG WREC WSPD WTAR WNNC
WXYZ

11:15-12:00 **Horace Heidt and His Orchestra**
WEAF WFI WTAM WOC WHO WOW
KSTP KOA WCAE KSD WSMB WJDX
WFJC WTMJ

11:30-12:00 **Guy Lombardo and His Orchestra**
WABC KFJF KFPY KFRK KLZ KMBC
KMOX KOL KRLD KSCJ WBCM WBRB
WCAO WCAU WCCO WDAY WDBJ WDOD
WFBM WHEC WHK WHP WIBW WISN
WKRC WLBW WLBZ WMAL WMT WNAC
WNAX WORC WPG WREC WSPD WTAR
WNNC WXYZ

12:00-1:00 **Rudy Vallee and his Orchestra**
WEAF KOA KSD KSTP WDAF WFJC
WJDX WRC WSB WWJ

INDEX BY FREQUENCIES AND DIAL NUMBERS

NOTICE OF COPYRIGHT

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KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: * Verifies receptions 2c; sends station stamp 10c; † Verifies 2c; no stamp; ‡ Did 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.

540 kilocycles 555.6 meters

CKX † 500 --- Brandon, Manitoba

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Manitoba Telephone System

550 kilocycles 545.1 meters

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

W 7		
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S. D. State College
 Concordia Theological Seminary
 Meyer Broadcasting Co.
 State Agricultural College
 Pulitzer Publishing Co.
 Buffalo Broadcasting Co.
 WKRC Incorporated
 Partido Socialista del Sureste

560 kilocycles 535.4 meters

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

W 7		
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Magnolia Petroleum Co.
 Reynolds Radio Co., Inc.
 Associated Broadcasters
 Strawbridge & Clothier
 Nelson Bros. Bond & Mortgage Co.
 Lit Brothers
 Storch 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
 WNAK * 1000 C Yankton, S. D.
 WNYC -- 500 3 New York City
 WSYR -- 250 2 Syracuse, N. Y.
 WWNC * 1000 C Asheville, N. C.

W 7		
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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
 Gurnerbocker Broadcasting Co., Inc.
 Gurney Seed & Nursery Co.
 Dept. of Plants and Structures
 Clive B. Meredith
 Citizens Broadcasting Co., Inc.

580 kilocycles 516.9 meters

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

W 7		
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Dominion Battery Co.
 Christian and Missionary Alliance
 The Dominion Battery Co.
 Canadian National Carbon Co., Ltd.
 University of Alberta
 Canadian National Railways
 Dana McNeil
 State Agricultural College
 Topeka Broadcasting Assn., Inc.
 WOBW, Inc.
 WSAZ, Inc.
 Telegram Publishing Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

✓ CMW	--	1000	588	Havana, Cuba
✓ KHQ	--	1000	+N	Spokane, Wash.
✓ WCAJ	*	500	1	Lincoln, Nebr.
WEEI	†	1000	N	Boston, Mass.
✓ WKZO	*	1000	D	Berrien Springs, Mich.
✓ WOV	*	1000	1N	Omaha, Nebr.
✓ XEZ	--	500	588	Mexico City
----	--	500	CP	Lynchburg, Va.

WAF		
Columbus Commercial & Radio Co.		
Louis Wasmer, Inc.		
Nebraska Wesleyan University		
Edison Elec. Illuminating Co.		
WKZO, Inc.		
Woodmen of the World		
Joaquin Zamacona		
Abe Cohen		

KCY.S.
670
MTRS.
447.5
DIAL

600 kilocycles 499.7 meters

CFCH	--	250	3	Iroquois Falls, Ont.
CJRM	--	500	4	Moose Jaw, Sask.
CJRW	--	500	4	Fleming, Sask.
CNRO	†	500	3	Ottawa, Ont.
KFSD	*	500	+N	San Diego, Cal.
WCAC	--	250	2+	Stors, Conn.
WCAO	*	250	C	Baltimore, Md.
WGBS	†	250	2+	New York City
WMT	*	500	C	Waterloo, Iowa
WOAN	--	500	1	Lawrenceburg, Tenn.
WREC	*	500	1+C	Memphis, Tenn.

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

610 kilocycles 491.5 meters

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

wt		
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.

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

630 kilocycles 475.9 meters

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

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

640 kilocycles 468.5 meters

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

wt		
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.

wt		
Wescoast Broadcasting Co.		
National Life & Accident Ins. Co.		

660 kilocycles 454.3 meters

WAAW	*	500	D	Omaha, Neb.
✓ WEAJ	†	50000	N	New York City

wt		
Omaha Grain Exchange		
National Broadcasting Co., Inc.		

670 kilocycles 447.5 meters

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

wt		
WMAQ, Inc.		
F. Armida y Cia.		

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

680 kilocycles 440.9 meters

✓ KFEQ	*	2500	D	St. Joseph, Mo.
✓ KPO	†	5000	N	San Francisco, Cal.
✓ WPTF	*	1000	N Dn	Raleigh, N. C.

2074		
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Scroggin & Co., Bank
Hale Bros. & The Chronicle
Durham Life Insurance Co.

690 kilocycles 434.5 meters

CFAC	--	500	1	Calgary, Alta.
CFCN	--	500	1	Calgary, Alta.
CHCA	--	500	1	Calgary, Alta.
CJCI	--	500	1	Calgary, Alta.
CJSC	--	5000	4	Toronto, Ont.
✓ CKGW	--	5000	2N	Toronto, Ont.
✓ CNRC	--	500	1	Calgary, Alta.
✓ CTRY	--	5000	2N	Toronto, Ont.
✓ NAA	--	1000	---	Arlington, Va.
✓ VAS	--	10000	685	Glace Bay, N. S.

2074		
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The Calgary Herald
Western Broadcasting Co.
The Western Farmer
Albertan Publishing Co., Ltd.
The Evening Telegram
Gooderham & Worts, Ltd.
Canadian National Railways
Canadian Pacific Railways
U. S. Navy
Canadian Marconi Co.

700 kilocycles 428.3 meters

✓ WLW	*	50000	N	Cincinnati, Ohio
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2074		
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Crosley Radio Corp.

710 kilocycles 422.3 meters

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

2074		
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R. S. MacMillan
Bamberger Broadcasting Service, Inc.

720 kilocycles 416.4 meters

✓ WGN	--	25000	N	Chicago, Ill.
XEN	†	1000	---	Mexico City
8WMC	--	500	722	St. Johns, N. F.

2074		
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Chicago Tribune
Compania Civil de Inversiones Urbanas
Wesley United Church

730 kilocycles 410.7 meters

CHLS	--	50	1	Vancouver, B. C.
CHYC	--	5000	2	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	--	2000	---	Havana, Cuba
✓ CNRM	*	5000	2--	Montreal, Que.

2074		
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W. G. Hassell
Northern Electric Co., Ltd.
La Presse Publishing Co., Ltd.
Vancouver Daily Province
United Church of Canada
Sprott-Shaw Radio Co.
A. Holstead & Wm. Hanlon
Cuban Broadcasting Co., Hotel Plaza
Canadian National Railways

740 kilocycles 405.2 meters

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

2074		
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The M. M. Johnson Co.
Atlanta Journal Co.

750 kilocycles 399.8 meters

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

2074		
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WJR, The Goodwill Station, Inc.

760 kilocycles 394.5 meters

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

2074		
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Puget Sound Broadcasting Co., Inc.
St. Louis University
National Broadcasting Co., Inc.

770 kilocycles 389.4 meters

✓ CMI	--	500	775	Havana, Cuba
✓ KFAB	*	5000	1N	Lincoln, Nebr.
✓ WBBM	*	25000	1C	Chicago, Ill.
✓ WJBT	--	25000	1S	Chicago, Ill.

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Instituto Provincial
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.
WMC	--	500	+N	Memphis, Tenn.
WPOR	--	500	1	Norfolk, Va.
WTAR	*	500	1C	Norfolk, Va.
XEW	--	5000	---	Mexico City

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

790 kilocycles 379.5 meters

CMHC	--	500	791	Tuinucu, Cuba
KGO	†	7500	N	San Francisco, Cal.
WGY	†	50000	N	Schenectady, N. Y.

W74		
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Frank H. Jones
National Broadcasting Co., Inc.
General Electric Co.

800 kilocycles 374.8 meters

WBAP	†	10000	1XN	Fort Worth, Texas
WFAA	--	50000	1N	Dallas, Texas
XEU	--	101	---	Veracruz, Mex.
XFC	--	350	805	Jalapa, Mex.

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

KCY5.
880
MTRS.
340.7
DIAL

810 kilocycles 370.2 meters

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

W77		
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Northwestern Broadcasting, Inc.
Eastern Broadcasters, Inc.

820 kilocycles 365.6 meters

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

W78		
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Courier-Journal & Times
Sria. de Ind., Comercio y Trabajo

830 kilocycles 361.2 meters

CMGA	--	300	834	Colon, Cuba
KOA	†	12500	N	Denver, Colo.
WHDH	--	1000	D	Boston, Mass.
WRUF	*	5000	Dn	Gainesville, Fla.

W79		
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Leopoldo V. Figueros
National Broadcasting Co., Inc.
Matheson Radio Co., Inc.
University of Florida

840 kilocycles 356.9 meters

CFCA	†	500	1	Toronto, Ont.
CHCT	--	1000	---	Red Deer, Alta.
CKLC	--	1000	2	Red Deer, Alta.
CMC	--	500	---	Havana, Cuba
CNRD	--	1000	2	Red Deer, Alta.
CNRT	*	500	1	Toronto, Ont.
XEM	--	500	841	Tampico, Mex.

W80		
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Star Publishing & Ptg. Co.
G. F. Tull & Ardern, Ltd.
Alberta Pacific Grain Co., Ltd.
Cuban Telephone Co.
Canadian National Railways
Canadian National Railways
Herbert A. Denny y Cia.

850 kilocycles 352.7 meters

KWKH	*	10000	1	Shreveport, La.
NBA	--	750	846	Balboa, Canal Zone
WWL	*	5000	1	New Orleans, La.

W81		
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Hello World Broadcasting Corp.
United States Navy
Loyola University

860 kilocycles 348.6 meters

KMO	--	500	+ Dn	Tacoma, Wash.
WABC	*	5000	XC	New York City
WBOQ	--	5000	---	New York City
WHB	*	500	D	Kansas City, Mo.
XEJ	--	101	857	C. Juarez, Chih.
XFX	--	500	---	Mexico City, Mex.

W82		
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KMO, Inc.
Atlantic Broadcasting Corp.
Atlantic Broadcasting Corp.
WHB Broadcasting Co.
Juan G. Buttner
Secretaria de Educacion Publica

870 kilocycles 344.6 meters

WENR	--	50000	1N	Chicago, Ill.
WLS	†	5000	1XN	Chicago, Ill.

W83		
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Great Lakes Broadcasting Co.
Agricultural Broadcasting Co.

880 kilocycles 340.7 meters

CHCS	--	10	4	Hamilton, Ont.
CHML	--	50	4	Hamilton, Ont.
CHRC	--	100	3	Quebec, Que.
CJCB	--	50	---	Sydney, N. S.
CKCI	--	22.5	3--	Quebec, Que.
CKCV	†	50	3	Quebec, Que.
CKOC	--	50	4	Hamilton, Ont.
CNRQ	†	50	3	Quebec, Que.
KFKA	†	500	2+	Greeley, Colo.
KLX	--	500	---	Oakland, Cal.

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

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

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

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

890 kilocycles 336.9 meters

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

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

900 kilocycles 333.1 meters

CMCF	†	250	1	Havana, Cuba
CMX	*	250	1	Havana, Cuba
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.

<i>W H</i>		
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Casa Karman
Francisco Lavin
Alaska Radio & Service Co.
Don Lee, Inc.
KSEI Broadcasting Association, Inc.
Buffalo Evening News
City of Jacksonville
WKY Radiophone Co.
Wisconsin Dept. of Markets

910 kilocycles 329.6 meters

CFQC	--	500	1	Saskatoon, Sask.
CHNS	*	500	3	Halifax, N. S.
CJGC	*	1000	2	London, Ont.
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.
KFXF	†	500	1	Denver, Colo.
KOMO	†	1000	N	Seattle, Wash.
KPRC	*	1000	+N	Houston, Texas
WAAF	--	500	D	Chicago, Ill.
WBSO	--	500	D	Wellesley Hills, Mass.
WWJ	†	1000	N	Detroit, Mich.
XFF	--	250	915	Chihuahua, Mex.

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

930 kilocycles 322.4 meters

CJCA	*	500	4	Edmonton, Alta.
CFRC	--	500	---	Kingston, Ont.
CKIC	--	50	---	Wolfville, N. S.
CKPR	--	50	3	Midland, Ont.
KFWI	--	500	1	San Francisco, Cal.
KGBZ	--	500	2+	York, Nebr.
KMA	--	500	2+	Shenandoah, Iowa
KROW	--	500	1+C	Oakland, Cal.
WBRC	--	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WIBG	*	50	D	Elkins Park, Pa.

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

940 kilocycles 319.0 meters

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

<i>W H</i>		
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Marion A. Mulrony
KOIN, Inc.
Bremer Broadcasting Corp.
Congress Square Hotel Co.
WDAY, Inc.
WFIW, Inc.
University of Wisconsin

INDEX BY FREQUENCIES AND DIAL NUMBERS

950 kilocycles 315.6 meters

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

<i>WJH</i>		
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Andres Martinez
Warner Bros. Broadcasting Corp.
Northwestern Auto Supply Co., Inc.
Midland Broadcasting Co., Inc.
National Broadcasting Co., Inc.

960 kilocycles 312.3 meters

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

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

970 kilocycles 309.1 meters

KJR	*	5000	---	Seattle, Wash.
WCFL	--	1500	N Dn	Chicago, Ill.
XEG	--	2000	---	Mexico City

<i>WJH</i>		
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Northwest Broadcasting System, Inc.
Chicago Federation of Labor
G. Gutierrez, Jr.

KCYS.
1040
MTRS.
288.3
DIAL

980 kilocycles 305.9 meters

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

990 kilocycles 302.8 meters

WBZ	*	15000	1NY	Springfield, Mass.
WBZA	*	500	1NY	Boston, Mass.

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Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.

1000 kilocycles 299.8 meters

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

<i>WJH</i>		
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Los Angeles Broadcasting Co.
Central Broadcasting Co.
Central Broadcasting Co.
Carlos Gutierrez M.
Arturo Martinez

1010 kilocycles 296.8 meters

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

<i>WJH</i>		
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Radio Association
John Patterson
Manuel y G. Salas
Powell & Platz
Pacific Agricultural Foundation, Ltd.
Marcus Loew Booking Agency
South Carolina Broadcasting Co., Inc.
University of Oklahoma
Calvary Baptist Church
Calvary Baptist Church
Aviation Radio Station, Inc.

1020 kilocycles 293.9 meters

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

<i>WJH</i>		
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Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.
WRAX Broadcasting Co.

1030 kilocycles 291.1 meters

CFCF	--	500	---	Montreal, Que.
CNRV	--	500	---	Vancouver, B. C.

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Canadian Marconi Co.
Canadian National Railways

1040 kilocycles 288.3 meters

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

<i>WJH</i>		
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KRLD Radio Corp.
Chamber of Commerce
Michigan State College
Buffalo Broadcasting Corp.

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1050 kilocycles 285.5 meters

✓KFKB	*	5000	Dn	Milford, Kansas
✓KNX	*	5000	X	Hollywood, Cal.

<i>WJTB</i>		
KFKB Broadcasting Assn., Inc. Western Broadcast Co.		

1060 kilocycles 282.8 meters

✓KWJJ	--	500	Dn	Portland, Ore.
✓WBAL	*	10000	1N	Baltimore, Md.
✓WJAG	*	1000	Dn	Norfolk, Nebr.
✓WTIC	†	50000	1N	Hartford, Conn.

<i>WJTB</i>		
KWJJ Broadcast Co., Inc. Consolidated Gas Elec. & Pwr. Co. Norfolk Daily News Travelers Broadcasting Service Corp.		

1070 kilocycles 280.2 meters

✓KJBS	*	100	D	San Francisco, Cal.
✓WCAZ	--	50	D	Carthage, Ill.
✓WDZ	†	100	D	Tuscola, Ill.
✓WTAM	*	50000	N	Cleveland, Ohio
✓XER	--	101	1071	Mexico City

<i>WJTB</i>		
Julius Brunton & Sons Co. Superior Broadcasting Service James L. Bush National Broadcasting Co., Inc. F. Armida y Cia		

1080 kilocycles 277.6 meters

✓WBT	*	5000	C	Charlotte, N. C.
✓W CBD	*	5000	1 Dn	Zion, Ill.
✓WMBI	--	5000	1 Dn	Chicago, Ill.

<i>WJTB</i>		
Station WBT, Inc. Wilbur Glenn Voliva Moody Bible Institute		

1090 kilocycles 275.1 meters

✓KMOX	*	50000	1CX	St. Louis, Mo.
✓XEB	†	1000	1091	Mexico City
✓XEL	--	10	---	Saltillo, Coah.

<i>WJTB</i>		
Voice of St. Louis, Inc. El Buen Tono, S. A. Antonio Garza Castro		

1100 kilocycles 272.6 meters

✓KGDML	*	250	DX	Stockton, Cal.
✓WLWL	*	5000	1	New York City
✓WPG	--	5000	1C	Atlantic City, N. J.
✓XETA	--	500	---	Mexico City

<i>WJTB</i>		
E. F. Peffer Missionary Society of St. Paul WPG Broadcasting Corp.		

1110 kilocycles 270.1 meters

✓KSOO	*	2000	Dn	Sioux Falls, S. D.
✓WRVA	*	5000	N	Richmond, Va.

<i>WJTB</i>		
Sioux Falls Broadcasting Assn., Inc. Larus & Bros. Co., Inc.		

1120 kilocycles 267.7 meters

✓CFJC	--	15	---	Kamloops, B. C.
✓CHGS	*	100	---	Summerside, P. E. I.
✓CJOC	*	50	---	Lethbridge, Alta.
✓KFIO	†	100	D	Spokane, Wash.
✓KFSG	*	500	3	Los Angeles, Cal.
✓KMCS	*	500	3Y	Inglewood, Cal.
✓KRSC	†	50	D	Seattle, Wash.
✓KTRH	*	500	2C	Houston, Texas
✓WDBO	*	500	+C	Orlando, Fla.
✓WDEL	†	250	+X	Wilmington, Del.
✓WHAD	*	250	1	Milwaukee, Wis.
✓WISN	--	250	1C	Milwaukee, Wis.
✓WTAW	*	500	2	College Station, Texas
-----	--	150	CP	Rayne, La.
-----	--	10	CPD	Haynesville, La.

<i>WJTB</i>		
N. S. Dalgleish & Sons R. T. Holman, Ltd. Harold R. Carson Spokane Broadcasting Corp. Echo Park Evang. Assn. Dalton's, Inc. Radio Sales Corp. Rice Hotel Orlando Broadcasting Co., Inc. WDEL, Inc. Marquette University Evening Wisconsin Co. Agricultural & Mech. College Ber, Killmer & Bailey C. C. Crawford		

1130 kilocycles 265.3 meters

✓CMBC	--	150	---	Havana, Cuba
✓CMQ	--	150	---	Havana, Cuba
✓CSL	*	5000	N	Salt Lake City
✓WJJD	*	20000	C Dn	Mooseheart, Ill.
✓WQV	--	1000	D	New York City
✓XEC	--	50	1133	Toluca, Mex.
✓XEF	--	105	1131	Oaxaca, Oax.
✓XEH	--	101	1132	Monterrey, Mex.

<i>WJTB</i>		
Domingo Fernandez Cruz Jose Fernandez Radio Service Corp. of Utah Loyal Order of Moose International Broadcasting Corp. Jesus R. Benavides Frederico Zorrilla Ing. Constantino de Tarnava		

1140 kilocycles 263.0 meters

✓KVOO	*	5000	1N	Tulsa, Okla.
✓WAPI	--	5000	1N	Birmingham, Ala.

<i>WJTB</i>		
Southwestern Sales Corp. Alabama Polytechnic Institute		

INDEX BY FREQUENCIES AND DIAL NUMBERS

1150 kilocycles 260.7 meters

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

CUH		
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Jose Gandux
Stromberg-Carlson Tel. Mfg. Co.

1160 kilocycles 258.5 meters

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

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Main Auto Supply Co.
West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

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

W-H		
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Norman Baker
Universal Broadcasting Co

1180 kilocycles 254.1 meters

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

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

1190 kilocycles 252.0 meters

WICC	*	500	D	Bridgeport, Conn.
WOAI	*	50000	N	San Antonio, Texas

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Bridgeport Broadcasting Station, Inc.
Southern Equipment Co.

1200 kilocycles 249.9 meters

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

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

KCYS.
1200
MTRS.
249.9
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

CFCO	---	100	---	Chatham, Ont.
CFNB	---	50	---	Fredericton, N. B.
CHWK	+	5	---	Chilliwack, B. C.
CJOR	*	50	---	Sea Island, B. C.
CKMC	---	15	---	Cobalt, Ont.
CKPC	+	50	+	Preston, Ont.
KDFN	+	100	---	Casper, Wyo.
KDLR	---	100	---	Devils Lake, N. D.
KFOR	---	100	+	Lincoln, Nebr.
KFVS	---	100	6	Cape Girardeau, Mo.
KFXM	---	100	9	San Bernardino, Cal.
KGCR	---	100	---	Watertown, S. D.
KGMP	---	100	---	Elk City, Okla.
KGNO	---	100	---	Dodge City, Kans.
KMJ	---	100	---	Fresno, Cal.
KPPC	---	50	9	Pasadena, Cal.
KWEA	*	100	---	Shreveport, La.
WALR	*	100	---	Zanesville, Ohio
WBAX	*	100	1	Wilkes-Barre, Pa.
WBBL	+	100	7S	Richmond, Va.
WCBS	*	100	2	Springfield, Ill.
WCOH	*	100	3	Yonkers, N. Y.
WCRW	*	100	4	Chicago, Ill.
WDWF	---	100	5	Providence, R. I.
WEBQ	---	100	6	Harrisburg, Ill.
WEDC	---	100	4	Chicago, Ill.
WGBB	---	100	3	Freeport, N. Y.
WGCM	---	100	---	Gulfport, Miss
WHBF	---	100	---	Rock Island, Ill.
WHBU	+	100	---	Anderson, Ind.
WIBU	---	100	---	Poynette, Wis.
WJBI	---	100	3	Red Bank, N. J.
WJBU	*	100	1	Lewisburg, Pa.
WJBY	*	50	---	Gadsden, Ala.
WJW	*	100	---	Mansfield, Ohio
WLCI	*	50	---	Ithaca, N. Y.
WLSI	---	100	5	Providence, R. I.
WMBG	---	100	7	Richmond, Va.
WMRJ	*	100	3	Jamaica, N. Y.
WOCL	*	25	---	Jamestown, N. Y.
WOMT	---	100	---	Manitowoc, Wis.
WPAW	---	100	5	Pawtucket, R. I.
WQDX	*	50	---	Thomasville, Ga.
WRBQ	+	100	+	Greenville, Miss.
WSBC	*	100	4	Chicago, Ill.
WSEN	+	100	---	Columbus, Ohio
WSIX	---	100	---	Springfield, Tenn.
WSOC	---	100	---	Gastonia, N. C.
WTAX	+	100	2	Springfield, Ill.
XETF	---	---	---	Veracruz, Mex.

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

1220 kilocycles 245.8 meters

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.
WRN	*	1000	1N	Lawrence, Kans.

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

1230 kilocycles 243.8 meters

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

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

1240 kilocycles 241.8 meters

KTAT	+	1000	1	Ft. Worth, Texas
WACO	+	1000	1	Waco, Texas
WXYZ	+	1000	C	Detroit, Mich.

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1250 kilocycles 239.9 meters

KFMX	--	1000	2
KFOX	*	1000	---
KIDO	--	1000	---
WAAM	*	1000	1+X
WCAL	--	1000	2
WDSU	**	1000	C
WGCP	--	250	1
WGMS	--	1000	2
WLB	†	1000	2
WODA	--	1000	1
WRHMH	**	1000	2
-----	--	500	CP

Northfield, Minn.
Long Beach, Cal.
Boise, Idaho
Newark, N. J.
Northfield, Minn.
New Orleans, La.
Newark, N. J.
St. Paul, Minn.
St. Paul, Minn.
Paterson, N. J.
Minneapolis, Minn.
Little Rock, Ark.

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

1260 kilocycles 238.0 meters

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

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

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

1270 kilocycles 236.1 meters

KFUM	*	1000	---
KGCA	--	50	2D
KOL	†	1000	3C
KTW	**	1000	3
KWLC	**	100	2D
WASH	*	500	1
WEAI	*	1000	D
WEER	--	500	---
WJDX	--	1000	N
WOOD	--	500	1

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

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

1280 kilocycles 234.2 meters

CMCE	--	100	1285
KFBF	--	1000	+
WCAM	--	500	1
WCAP	*	500	1
WDOD	*	1000	+C
WIBA	--	500	---
WOAX	--	500	1
WRR	--	500	C

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

W	H		
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Julio E. Power
Burrey Broadcast, Inc.
City of Camden
Radio Industries Broadcast Co.
WDOD Broadcasting Corp.
Capital Times Co.
WOAX, Inc.
City of Dallas

1290 kilocycles 232.4 meters

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

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

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

1300 kilocycles 230.6 meters

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

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

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

1310 kilocycles 228.9 meters

KCRJ	†	100	---
KFBK	--	100	---
KFGQ	--	100	7
KFIU	--	10	---
KFJY	§	100	7

Jerome, Ariz.
Sacramento, Cal.
Boone, Iowa
Juneau, Alaska
Ft. Dodge, Iowa

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

KCYC.

1310

MTRS.

228.9

DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

KFPL	†	100	---	Dublin, Texas
KFPF	*	15	---	Greenville, Texas
KFPF	---	100	8	Denver, Colo.
KFXJ	---	50	8XY	Edgewater, Colo.
KFXR	---	100	+	Oklahoma City
KGBX	*	100	---	St. Joseph, Mo.
KGCX	---	100	+	Wolf Point, Mont.
KGEZ	†	100	C	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.
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.
WDFW	*	100	---	Flint, Mich.
WGAL	*	100	5	Lancaster, Pa.
WGH	*	100	C	Newport News, Va.
WHAT	†	100	4X	Philadelphia, Pa.
WJAC	---	100	3	Johnstown, Pa.
WJAK	*	50	6	Marion, Ind.
WKAV	*	100	---	Laconia, N. H.
WKBW	*	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	*	50	5XZ	Reading, Pa.
WRBI	---	20	---	Tifton, Ga.
WROL	†	100	---	Knoxville, Tenn.
WSAJ	*	100	---	Grove City, Pa.
WSJS	---	100	---	Winston-Salem, N. C.
WTEL	*	50	4X	Philadelphia, Pa.

C. C. Baxter
The New Furniture Co.
Fitzsimmons General Hospital
Western Slope Broadcasting Co.
Exchange Ave. Baptist Church
KGBX Inc.
First State Bank of Vida
Chamber of Commerce
O. F. Sothman and R. H. McConnell
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.
Banks of Wabash, Inc.
Louis G. Baltimore
WCLS, Inc.
Eagle Broadcasting Co.
Howell Broadcasting Co., Inc.
Royal Oak Broadcasting Co.
Wm. F. Gable Co.
Frank D. Fallain
WGAL, Inc.
Hampton Roads Broadcasting Corp.
Independence Broadcasting Co.
Johnstown Automobile Co.
Marion Broadcasting Co.
Laconia Radio Club
Sanders Bros. Radio Station
R. B. Broyles Furniture Co.
Permil N. Nelson
Donald A. Burton
Radio Service Laboratories
New Bedford Broadcasting Co.
Tittsworth's Radio & Music Shop
American Broadcasting Co.
Reading Broadcasting Co.
Kent's Furniture & Music Store
Stewart Broadcasting Co.
Grove City College
Winston-Salem Journal Co.
Foulkrod Radio Engineering Co.

1320 kilocycles 227.1 meters

KGHF	---	250	X+	Pueblo, Colo.
KGIQ	---	250	1+	Twin Falls, Idaho
KGMB	†	500	---	Honolulu, Hawaii
KJD	---	250	1+	Idaho Falls, Idaho
WADC	†	1000	C	Akron, Ohio
WSMB	*	500	N	New Orleans, La.

CO-11

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

1330 kilocycles 225.4 meters

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

CO-12

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

1340 kilocycles 223.7 meters

KFPW	---	50	D	Fort Smith, Ark.
KFPY	---	1000	C	Spokane, Wash.
WCOA	*	500	---	Pensacola, Fla.
WSPD	*	500	C+	Toledo, Ohio

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John Brown Schools
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
WCDA	---	250	1	New York City
WKBQ	---	250	1	New York City
WMSG	---	250	1	New York City

CO-13

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

207		
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CMKC	*	150	1364	Santiago de Cuba
KGIR	**	1000	4	Long Beach, Cal.
KGIR	--	500	---	Butte, Mont.
KPSN	--	1000	4	Pasadena, Cal.
WGSC	**	500	---	Charleston, S. C.
WFBL	**	1000	C+X	Syracuse, N. Y.
WGES	**	500	1+	Chicago, Ill.
WJKS	**	1000	1+	Gary, Ind.
WQBC	--	300	CPD	Vicksburg, Miss.

M. P. Martinez
C. Merwin Dobyns
KGIR, Inc.
Pasadena Star-News
Jordan & Burk
Onondaga Radio Broadcasting Corp.
Oak Leaves Broadcasting Station, Inc.
Johnston-Kennedy Radio Corp.
Delta Broadcasting Co., Inc.

1370 kilocycles 218.7 meters

2071		
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KCRC	†	100	2+	Enid, Okla.
KFBL	--	50	3	Everett, Wash.
KFJI	--	100	---	Astoria, Ore.
KFJM	†	100	---	Grand Forks, N. D.
KFJZ	--	100	X	Ft. Worth, Texas
KFLX	--	100	---	Galveston, Texas
KGAR	*	100	+	Tucson, Ariz.
KGDG	†	100	---	Mitchell, S. D.
KCFG	†	100	2	Oklahoma City
KGFL	†	50	---	Raton, N. M.
KGKL	†	100	---	San Angelo, Texas
KMAC	--	100	5	San Antonio, Tex.
KONO	†	100	5	San Antonio, Texas
KORS	--	100	---	Marshfield, Ore.
KRE	--	100	6	Berkeley, Cal.
KVL	--	100	3	Seattle, Wash.
KWKC	--	100	---	Kansas City, Mo.
KZM	†	100	6	Hayward, Cal.
WBCF	†	50	---	Glens Falls, N. Y.
WBFM	†	100	7	Darville, Va.
WCBM	--	100	+Z	Baltimore, Md.
WELK	--	100	+	Philadelphia, Pa.
WFDV	--	100	---	Rome, Ga.
WGL	*	100	C	Fort Wayne, Ind.
WHBD	*	100	---	Mount Orab, Ohio
WHBQ	--	100	---	Memphis, Tenn.
WHDF	†	100	†	Calumet, Mich.
WIBM	--	100	1	Jackson, Mich.
WJBK	--	50	1	Detroit, Mich.
WLEY	--	100	†	Lexington, Mass.
WLVA	†	100	7	Lynchburg, Va.
WMBR	†	100	---	Tampa, Fla.
WPOE	†	100	---	Patchogue, N. Y.
WQDM	*	100	D	St. Albans, Vt.
WRAK	*	50	---	Williamsport, Pa.
WRBJ	†	10	---	Hattiesburg, Miss.
WRBT	†	100	---	Wilmington, N. C.
WRJN	--	100	---	Racine, Wis.
WSVS	--	50	---	Buffalo, N. Y.
WRDO	§	100	CP	Augusta, Me.

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

1380 kilocycles 217.3 meters

2078		
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KOH	†	500	---	Reno, Nevada
KOV	†	500	2	Pittsburgh, Pa.
KSO	*	500	1	Clarinda, Iowa
WKBH	*	1000	1	La Crosse, Wis.
WSMK	--	200	2	Dayton, Ohio

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

1390 kilocycles 215.7 meters

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

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

KCYS.

1390

MTRS.

215.7

DIAL

CUT OUT ON
DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1400 kilocycles 214.2 meters

074		
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CMBY	--	200	1405
KLO	*	500	X
KOCW	*	250	+
WBAA	†	500	1+
WBBC	*	500	2
WCGU	*	500	2
WCMA	--	500	1
WKBF	*	500	1
WLTH	*	500	2
WSDA	--	500	2
WSGH	--	500	2

Havana, Cuba
Ogden, Utah
Chickasha, Okla.
Lafayette, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.
Culver, Ind.
Indianapolis, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.
Brooklyn, N. Y.

Lino E. Cosculluela
Peery Building Co.
College for Women
Purdue University
Brooklyn Broadcasting Corp.
U. S. Broadcasting Corp.
General Broadcasting Corp.
Indianapolis Broadcasting, Inc.
The Voice of Brooklyn, Inc.
Paramount Broadcasting Co.
Paramount Broadcasting Co.

1410 kilocycles 212.6 meters

074		
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KFLV	†	500	4
KGRS	--	1000	1
WBCM	*	500	C
WDAG	--	250	1X
WHBL	*	500	4
WLEX	--	500	2
WMAF	--	500	2
WODX	*	500	3
WRBX	*	250	---
WSFA	†	500	3
WSSH	†	500	2

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

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

1420 kilocycles 211.1 meters

074		
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KBPS	--	100	4
KFLZ	*	100	---
KFQU	*	100	5X
KFQW	--	100	---
KFXD	--	100	XY
KFXV	--	100	---
KFYO	--	100	+
KGFF	--	100	Y
KGCG	--	100	5
KGIW	--	100	---
KGIX	--	100	---
KGKX	--	100	---
KGYO	--	100	CPD
KICK	*	100	---
KLPM	†	100	---
KORE	--	100	---
KTAP	--	100	---
KXL	--	100	4
KXYZ	--	100	X
WEDH	*	30	X
WEHS	--	100	2
WELL	--	50	X
WFDW	--	100	---
WHDL	*	10	DX
WHFC	--	100	---
WHIS	†	100	---
WIAS	--	100	---
WIBR	*	50	---
WILM	--	100	---
WJBO	--	100	---
WKBI	--	100	2
WLBV	--	100	---
WMBC	--	100	X+
WMBH	--	100	+
WPAD	†	100	---
WSPA	--	100	---
WTBO	*	100	+

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

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
Daily Telegraph
Poling Electric 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

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KECA	†	1000	N
KGNF	†	500	D
WBAK	†	500	1X+
WCAH	†	500	1C
WGBC	*	500	2
WHP	*	500	1CX
WNBR	*	500	2

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

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1440 kilocycles 208.2 meters

KLS	*	250	D	Oakland, Cal.
WBIG	*	500	---	Greensboro, N. C.
WCBA	**	250	---	Allentown, Pa.
WHCC	*	500	1	Rochester, N. Y.
WMBD	*	500	2C	Peoria Heights, Ill.
WOKO	--	500	3+	Poughkeepsie, N. Y.
WSAN	--	250	2Y	Allentown, Pa.
WTAD	†	500	3	Quincy, Ill.

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

1450 kilocycles 206.8 meters

KTBS	*	1000	---	Shreveport, La.
WBMS	*	250	1	Hackensack, N. J.
WGAR	†	500	N	Cleveland, Ohio
WHOM	*	250	1	Jersey City, N. J.
WKBO	*	250	1	Jersey City, N. J.
WNJ	*	250	1	Newark, N. J.
WSAR	*	250	---	Fall River, Mass.
WTFI	--	500	---	Toccoa, Ga.

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

1460 kilocycles 205.4 meters

KSTP	*	10000	NX	St. Paul, Minn.
WJSV	*	10000	---	Alexandria, Va.

WJH			
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National Battery Broadcasting Co.
Independent Publishing Co.

1470 kilocycles 204.0 meters

KGA	†	5000	---	Spokane, Wash.
WLAC	*	5000	1C	Nashville, Tenn.
WTNT	--	5000	1	Nashville, Tenn.

WJH			
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Northwest Broadcasting System, Inc.
Life & Casualty Insurance Co.
Tennessee Publishing Co.

1480 kilocycles 202.6 meters

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

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

1490 kilocycles 201.2 meters

WCHI	--	5000	1N	Chicago, Ill.
WCKY	**	5000	1N	Covington, Ky.
WJAZ	**	5000	1	Chicago, Ill.

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

1500 kilocycles 199.9 meters

KDB	*	100	---	Santa Barbara, Cal.
KGFI	--	100	†	Corpus Christi, Texas
KGFK	†	50	---	Moorhead, Minn.
KGIZ	†	50	---	Grant City, Mo.
KGKB	--	100	---	Brownwood, Texas
KGKY	*	100	---	Scottsbluff, Nebr.
KPJM	*	100	---	Prescott, Ariz.
KPO	†	50	---	Wenatchee, Wash.
KREG	†	100	---	Santa Ana, Cal.
KUJ	--	100	3Y	Longview, Wash.
KUT	--	100	---	Austin, Texas
KXO	--	100	---	El Centro, Cal.
WCLB	--	100	1	Long Beach, N. Y.
WDLX	--	100	---	Tupelo, Miss.
WKBV	--	100	†	Connersville, Ind.
WKBZ	†	50	---	Ludington, Mich.
WLBX	--	100	1	Long Island City, N. Y.
WLOE	*	100	2+	Boston, Mass.
WMBA	--	100	---	Newport, R. I.
WMBJ	†	100	---	Pittsburgh, Pa.
WMBQ	*	100	1	Brooklyn, N. Y.
WMPC	†	100	---	Lapeer, Mich.
WNBFB	--	100	---	Binghamton, N. Y.
WQPI	--	100	---	Bristol, Tenn.
WFEN	--	100	†	Philadelphia, Pa.
WRDWB	*	100	---	Augusta, Ga.
WRRL	--	100	1	Woodside, N. Y.
WSYB	†	100	CP	Rutland, Vt.

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

KCYS.
1500
MTRS.
199.9
DIAL

INDEX BY LOCATIONS WITH MAP KEY

	Watts	Kcys.				
ALABAMA						
Birmingham O-21	5000	WAPI 1140	San Jose J-1	500	KQW	1010
	500	WBRC 930	Santa Ana M-3	100	KREG	1500
	100	WKBC 1310	Santa Barbara M-2	100	KDB	1500
Gadsden O-21	50	WJBY 1210	Santa Maria L-2	100	KSMR	1200
Mobile O-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	CANAL ZONE			
ALASKA			Balboa FF-26	750	NBA	850
Anchorage	100	KFQD 1230	COLORADO			
Juneau	10	KFIU 1310	Colorado Springs K-11	1000	KFUM	1270
Ketchikan	500	KGBU 900	Denver K-11	500	KFEL	920
ARIZONA				100	KFUP	1310
Flagstaff M-7	100	KFXY 1420		500	KFXF	920
Jerome M-6	100	KCRJ 1310		1000	KLZ	560
Phoenix N-6	500	KOY 1390		12500	KOA	830
	500	KTAR 620	Edgewater K-10	500	KPOF	880
Prescott M-6	100	KPJM 1500	Fort Morgan J-11	100	KEXJ	1310
	100	KGAR 1370	Greeley J-11	500	KGEW	1200
Tucson O-7	500	KVOA 1260	Pueblo L-11	250	KGFA	880
ARKANSAS			Trinidad L-11	100	KGHF	1320
Blytheville M-19	50	KLCN 1290	Yuma J-12	50	KGIW	1420
Fayetteville M-16	1000	KUOA 1390			KGEK	1200
Fort Smith N-16	50	KFPW 1340	CONNECTICUT			
Hot Springs N-17	10000	KTHS 1040	Bridgeport H-27	500	WICC	1190
Little Rock N-17	100	KGHI 1200	Hartford H-27	500	WDRG	1330
	250	KGJF 890		50000	WTIC	1060
	1000	KLRA 1390	Storrs H-28	250	WCAC	600
	500	KLTA 1250	DELAWARE			
Paragould M-18	100	KBTM 1200	Wilmington J-26	250	WDEL	1120
				100	WILM	1420
CALIFORNIA			DISTRICT OF COLUMBIA			
Berkeley J-2	100	KRE 1370	Washington J-26	250	WMAL	630
Burbank M-3	500	KELW 780		500	WRG	950
Culver City M-3	250	KFVD 1000		100	WOL	1310
El Centro N-4	100	KXO 1500	FLORIDA			
Fresno K-2	100	KMJ 1210	Clearwater R-24	1000	WFLA	620
Hayward J-1	100	KZM 1370	Gainesville Q-24	5000	WRUF	830
Hollywood M-3	1000	KFWB 950	Jacksonville Q-24	1000	WJAX	900
	5000	KNX 1050	Miami T-25	1000	WQAM	560
Holy City K-1	100	KFOU 1420	Miami T-25	1000	WIOD	1300
Inglewood M-3	500	KMCS 1120	Orlando R-24	500	WDBO	1120
Long Beach M-3	1000	KFOX 1250	Pensacola Q-21	500	WCOA	1340
	1000	KGER 1360	St. Petersburg S-24	1000	WSUN	620
Los Angeles M-3	1000	KECA 1430	Tampa R-24	1000	WDAE	1220
	5000	KFI 640		100	WMBR	1370
	500	KFSG 1120	GEORGIA			
	1000	KGEF 1300	Atlanta O-22	250	WGST	890
	100	KGFJ 1200		5000	WSB	740
	1000	KHJ 900	Augusta O-23	100	WRDW	1500
	500	KMPK 710	Columbus O-22	50	WRBL	1200
	500	KMTR 570	Macon O-23	250	WMAX	890
	1000	KTM 780	Rome N-22	100	WFDV	1370
Oakland J-1	250	KTBI 1300	Savannah O-24	500	WTQC	1260
	500	KLS 1440	Thomasville Q-22	50	WQDX	1210
	500	KLX 880	Tifton P-23	20	WRBI	1310
Pasadena M-3	50	KROW 930	Toccoa N-23	500	WTFI	1450
	1000	KPPC 1210				
	1000	KPSN 1360	HAWAII			
Sacramento J-2	100	KFBK 1310	Honolulu	500	KGMB	1320
San Bernardino M-3	100	KFXM 1210		1000	KGU	940
San Diego N-3	500	KFSM 600	IDAHO			
	250	KGB 1330	Boise G-5	1000	KIDO	1250
San Francisco J-1	1000	KFRC 610	Idaho Falls G-7	250	KID	1320
	500	KFWI 930	Nampa G-5	50	KFXD	1420
	100	KGGC 1420	Pocatello H-7	250	KSEI	900
	7500	KGO 790	Sand Point D-6	100	KGKX	1420
	100	KJBS 1070	Twin Falls H-6	250	KGIQ	1320
	5000	KPO 680				
	1000	KTAB 560				
	1000	KYA 1230				

INDEX BY LOCATIONS WITH MAP KEY

ILLINOIS

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

INDIANA

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

IOWA

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

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

KANSAS

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

KENTUCKY

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

LOUISIANA

Haynesville P-17	10		1120
Monroe P-18	50	KMLB	1200
New Orleans R-19	100	WABZ	1200
	1000	WDSU	1250
	100	WBO	1420
	100	WBW	1200
	500	WSMB	1320
	5000	WWL	850
Rayne Q-18	150		1120
Shreveport P-17	50	KRMD	1310
	1000	KTBS	1450
	100	KTSL	1310
	100	KWEA	1210
	10000	KWKH	850

MAINE

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

MARYLAND

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

MASSACHUSETTS

Boston G-28	1000	WBIS	1230
	500	WBZA	990
	1000	WEET	590
	1000	WHDH	830
	100	WLOE	1500
	1000	WNAC	1230
	500	WSSH	1410
Fall River H-28	250	WSAR	1450
Lexington G-28	500	WLEX	1410
	100	WLEY	1370
New Bedford H-28	100	WNBH	1310
S. Dartmouth H-28	500	WMAF	1410
Springfield H-27	15000	WBZ	990
Wellesley Hills G-28	500	WBOS	920
Worcester G-28	100	WEPS	1200
	100	WORC	1200
	250	WTAG	580

INDEX BY LOCATIONS WITH MAP KEY

MICHIGAN				NEBRASKA			
	Watts		Kcys.		Watts		Kcys.
Battle Creek I-21	50	WELL	1420	Clay Center	1000	KMMJ	740
Bay City H-22	500	WBCM	1410	Lincoln J-15	5000	KFAB	770
Berrien Springs I-20	1000	WKZO	590		100	KFOR	1210
Calumet E-19	100	WHDf	1370	Norfolk I-15	500	WCAJ	590
Detroit H-22	50	WJBK	1370	North Platte J-13	1000	WJAG	1060
	5000	WJR	750	Omaha J-15	500	KGNF	1430
	100	WMBC	1420		500	WAAW	660
	1000	WWJ	920	Ravenna J-14	100	WOW	590
	1000	WXYZ	1240	Scottsbluff I-11	100	KGFw	1310
East Lansing H-21	1000	WKAR	1040	York J-15	500	KGvJ	1500
Flint H-22	100	WFDf	1310			KGBZ	930
	100	WPDF	1200				
Grand Rapids H-21	500	WASH	1270				
	500	WOOD	1270				
Jackson I-21	100	WIBM	1370				
Lapeer H-22	100	WMPC	1500				
Ludington H-20	50	WKBZ	1500				
Royal Oak H-22	50	WEXL	1310				
MINNESOTA				NEVADA			
Fergus Falls F-15	100	KGDE	1200	Las Vegas L-5	100	KGIX	1420
Minneapolis G-17	7500	WCCO	810	Reno I-3	500	KOH	1380
	1000	WDGY	1180				
	500	WHDI	1180				
	1000	WRHM	1250				
Moorhead F-15	50	KGFK	1500				
Northfield G-17	1000	KFMX	1250				
	1000	WCAL	1250				
St. Paul G-17	1000	WGMs	1250				
	1000	WLB	1250				
	10000	KSTP	1460				
MISSISSIPPI				NEW HAMPSHIRE			
Greenville O-19	100	WRBO	1210	Laconia G-28	100	WKAV	1310
Gulfport Q-19	100	WGCM	1210				
Hattiesburg Q-19	10	WRBJ	1370				
Jackson P-19	1000	WJDx	1270				
Meridian P-20	500	WCOC	880				
Tupelo N-20	100	WDIX	1500				
Vicksburg P-18	300	WQBC	1360				
MISSOURI				NEW JERSEY			
Cp. Girardeau L-19	100	KFVS	1210	Asbury Park I-27	500	WCAP	1280
Columbia K-17	500	KFRU	630	Atlantic City J-27	5000	WPG	1100
Grant City J-16	50	KGIZ	1500	Camden I-26	500	WCAM	1280
Jefferson City L-17	500	WOS	630	Hackensack I-27	250	WBMS	1450
Joplin M-16	100	WMBH	1420	Jersey City I-27	300	WAAT	940
Kansas City K-16	1000	KMBC	950		250	WHOM	1450
	100	WKWC	1370		250	WKBO	1450
	1000	WDAF	610	Newark I-27	1000	WAAM	1250
	500	WHB	860		250	WGCP	1250
	1000	WOQ	1300		250	WNJ	1450
St. Joseph K-16	2500	KFEQ	680		5000	WOR	710
	100	KGBX	1310	Paterson I-27	1000	WODA	1250
	500	KFUO	550	Red Bank I-27	100	WJBI	1210
St. Louis L-18	100	KFWF	1200	Trenton I-26	500	WOAX	1280
	5000	KMOX	1090				
	500	KSD	550				
	1000	KWK	1350				
	1000	WEW	760				
	100	WIL	1200				
MONTANA				NEW MEXICO			
Billings F-9	1000	KGHL	950	Albuquerque N-7	250	KGGM	1230
Butte F-7	500	KGIR	1360	Raton M-11	50	KGFL	1370
Great Falls E-8	1000	KFBB	1280	State College P-9	20000	KOB	1180
Kalispell D-7	100	KGEZ	1310				
Missoula E-7	100	KGVO	1420				
Wolf Point E-11	100	KGcX	1310				
				NEW YORK			
				Auburn H-25	100	WMBO	1310
				Binghamton H-26	100	WNEF	1500
				Brooklyn I-27	500	WBBC	1400
					1000	WBRR	1300
					500	WCGU	1400
					500	WLTH	1400
					100	WMBQ	1500
					500	WSDA	1400
					500	WSGH	1400
				Buffalo H-24	1000	WBEN	900
					100	WEBR	1310
					1000	WGR	550
					5000	WKBW	1480
					1000	WMAK	1040
					50	WSVS	1370
				Canton F-26	500	WCAD	1220
				Freeport I-27	100	WGBB	1210
				Glens Falls G-27	50	WBGf	1370
				Ithaca H-25	1000	WEAI	1270
					50	WLCl	1210
				Jamaica H-27	100	WMRJ	1210
				Jamestown H-24	25	WOCL	1210
				Long Island City I-27	100	WLbX	1500
				Long Beach I-27	100	WCLB	1500

INDEX BY LOCATIONS WITH MAP KEY

New York City I-27	5000	WABC	860	OKLAHOMA	Watts	Kcys.
	250	WAWZ	1350	Alva M-14	100	KGFF 1420
	5000	WBOQ	860	Chickasha N-14	250	KCOW 1400
	250	WCDA	1350	Elk City N-13	100	KGMP 1210
	5000	WEAF	660	Enid M-15	100	KCRC 1370
	500	WEVD	1300	Norman N-15	500	WNAD 1010
	250	WGBS	600	Oklahoma N-15	5000	KFJF 1480
	1000	WHAP	1300		100	KFXR 1310
	250	WHN	1010		100	KGFG 1370
	3000	WJZ	760		1000	WKY 900
	250	WKBQ	1350		100	WBBZ 1200
	5000	WLWL	1100	Ponca City M-15	100	WBGZ 1010
	500	WMCA	570	S. Coffeyville M-16	500	KGGF 1010
	250	WMSG	1350	Tulsa M-16	5000	KVOO 1140
	500	WNYC	570	OREGON		
	1000	WOV	1130	Astoria D-2	100	KFJI 1370
	250	WPAP	1010	Corvallis E-2	1000	KOAC 550
	500	WPCH	810	Eugene F-2	100	KORE 1420
	250	WQAO	1010	Marshfield F-1	100	KOOS 1370
	250	WRNY	1010	Medford G-2	50	KMED 1310
Patchogue I-27	100	WPOE	1370	Portland E-3	5000	KEX 1180
Poughkeepsie H-27	500	WOKO	1440		100	KBPS 1420
Rochester G-25	5000	WHAM	1150		500	KFJR 1300
	500	WHEC	1440		1000	KGW 620
Saranac Lake F-26	50	WNBZ	1290		1000	KOIN 940
Schenectady G-27	5000	WGY	790		500	KTBR 1300
Syracuse G-25	1000	WFBL	1360		500	KWJJ 1060
	250	WMAC	570		100	KXL 1420
	250	WSYR	570	PENNSYLVANIA		
Troy G-27	500	WHAZ	1300	Allentown I-26	250	WCBA 1440
Tupper Lake F-26	10	WHDL	1420		250	WSAN 1440
Utica G-26	100	WIBX	1200	Altoona I-25	100	WFBG 1310
Woodside I-27	100	WVRL	1500	Carbondale H-26	10	WNBW 1200
Yonkers I-27	100	WCOH	1210	Elkins Park I-26	50	WIBG 930
				Erie H-24	30	WEDH 1420
NORTH CAROLINA				Grove City I-26	100	WSAJ 1310
Asheville M-23	1000	WWNC	570	Harrisburg I-25	500	WBAK 1430
Charlotte M-24	5000	WBT	1080		100	WCOD 1200
Gastonia M-24	100	WSOC	1210	Johnstown J-24	100	WHP 1430
Greensboro M-24	500	WBIG	1440	Lancaster I-25	100	WGAL 1310
Raleigh M-25	1000	WPTF	680		100	WKJC 1200
Wilmington N-26	100	WRBT	1370	Lewisburg I-26	100	WJBU 1210
Winston-Salem M-24	100	WSJS	1310	Oil City I-24	500	WLBW 1260
				Philadelphia I-26	1000	WCAU 1170
					100	WELK 1370
NORTH DAKOTA					500	WFAN 610
Bismarck F-13	1000	KFYR	550		500	WFI 560
Devils Lake E-14	100	KDLR	1210		100	WHAT 1310
Fargo F-15	1000	WDAY	940		500	WIP 610
Grand Forks E-15	100	KFJM	1370		500	WLIT 560
Mandan F-13	100	KGCU	1200		100	WPEN 1500
Minot E-13	100	KLPM	1420		250	WRAX 1020
					50	WTEL 1310
OHIO				Pittsburgh J-24	5000	KDKA 980
Akron I-23	1000	WADC	1320		500	KQV 1380
Canton I-23	10	WHBC	1200		1000	WCAE 1220
Cincinnati K-22	100	WFBE	1200		1000	WJAS 1290
	1000	WKRC	550	Reading I-26	100	WMBJ 1500
	5000	WLW	700	Scranton H-26	50	WRAW 1310
	500	WSAI	1330		250	WGBI 880
Cleveland I-23	500	WGAR	1450		250	WQAN 880
	1000	WHK	1390	State College I-25	500	WPSC 1230
	500	WJAY	610	Washington J-24	100	WNBO 1200
	5000	WTAM	1070	Wilkes-Barre I-26	100	WBAX 1210
Columbus J-22	500	WAIU	640		100	WBRE 1310
	500	WCAH	1430	Williamsport I-25	50	WRAK 1370
	750	WEAO	570			
	100	WSEN	1210	PORTO RICO		
	200	WSMK	1380	San Juan W-34	500	WKAQ 890
Dayton J-22	100	WJW	1210			
Mansfield J-22	100	WHBD	1370	RHODE ISLAND		
Mount Orab K-22	100	WIBR	1420	Newport H-28	100	WMBA 1500
Steubenville J-23	50	WSPD	1340	Pawtucket H-28	100	WPAW 1210
Toledo I-22	500	WKBN	570			
Youngstown I-23	500	WALR	1210			
Zanesville J-23	100					

INDEX BY LOCATIONS WITH MAP KEY

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	50	KGDA	1370		
Pierre G-13	200	KGFX	580		
Rapid City H-12	100	WCAT	1200		
Sioux Falls I-15	2000	KSOO	1110		
Vermillion I-15	500	KUSD	890		
Watertown G-15	100	KGCR	1210		
Yankton I-15	1000	WNAX	570		
TENNESSEE					
Bristol L-23	100	WOPI	1500		
Chattanooga N-21	1000	WDOO	1280		
Knoxville M-22	50	WFBC	1200		
	1000	WNOX	560		
	100	WROL	1310		
Lawrenceburg N-20	500	WOAN	600		
Memphis M-19	500	WGBC	1430		
	100	WHBQ	1370		
	500	WMC	780		
	500	WNBR	1430		
	500	WREC	600		
Nashville M-20	5000	WLAC	1470		
	5000	WSM	650		
	5000	WTNT	1470		
Springfield M-20	100	WSIX	1210		
Union City M-19	100	WOBT	1310		
TEXAS					
Abilene P-13	100	KFYO	1420		
Amarillo N-12	1000	KGRS	1410		
	250	WDAG	1410		
Austin Q-14	100	KUT	1500		
Beaumont R-17	500	KFDM	560		
Brownsville U-15	500	KWWG	1260		
Brownwood P-14	100	KGKB	1500		
College Sta. Q-15	500	WTAW	1120		
Corpus Christi S-14	100	KGFI	1500		
Dallas P-15	10000	KRLD	1040		
	50000	WFAA	800		
	500	WRR	1280		
Dublin P-14	100	KFPL	1310		
El Paso P-9	100	KTSM	1310		
	100	WDAH	1310		
Fort Worth P-15	100	KFJZ	1370		
	1000	KTAT	1240		
	10000	WBAP	800		
Galveston R-16	100	KFLX	1370		
	500	KFUL	1290		
Greenville O-15	15	KFPM	1310		
Harlingen T-14	500	KRGV	1260		
Houston R-16	1000	KPRC	920		
	100	KTLC	1310		
	500	KTRH	1120		
	100	KXYZ	1420		
San Angelo Q-13	100	KGKL	1370		
San Antonio R-14	100	KMAC	1370		
	100	KONO	1370		
	100	KTAP	1420		
	1000	KTSA	1290		
	50000	WOAI	1190		
Waco Q-15	1000	WACO	1240		
Wichita Falls O-14	250	KGKO	570		
UTAH					
Ogden I-7	500	KLO	1400		
Salt Lake City I-7	1000	KDYL	1290		
	5000	KSL	1130		
VERMONT					
				Watts	Kcys.
Burlington F-27	100	WCAX	1200		
Rutland G-27	100	WSYB	1500		
St. Albans F-27	100	WQDM	1370		
Springfield G-27	10	WNBX	1200		
VIRGINIA					
Alexandria J-26	10000	WJSV	1460		
Arlington J-25	1000	NAA	690		
Danville L-25	100	WBTM	1370		
Emory L-23	100	WEHC	1200		
Lynchburg L-25	100	WLVA	1370		
	500		590		
Newport News L-26	100	WGH	1310		
Norfolk L-26	500	WPOR	780		
	500	WTAR	780		
Petersburg L-26	100	WLBG	1200		
Richmond K-26	100	WBBL	1210		
	100	WMBG	1210		
	5000	WRVA	1110		
Roanoke L-24	250	WDBJ	930		
	250	WRBX	1410		
WASHINGTON					
Aberdeen D-2	75	KXRO	1310		
Bellingham C-3	100	KVOS	1200		
Everett C-3	50	KFBL	1370		
Lacey D-3	10	KGY	1200		
Longview D-3	100	KUJ	1500		
Pullman E-5	1000	KWSC	1220		
Seattle C-3	100	KFQW	1420		
	5000	KJR	970		
	1000	KOL	1270		
	1000	KOMO	920		
	100	KPCB	650		
	50	KRSC	1120		
	1000	KTW	1270		
	100	KVL	1370		
	500	KXA	570		
Spokane D-5	100	KFIO	1120		
	1000	KFPY	1340		
	5000	KGA	1470		
	1000	KHQ	590		
Tacoma D-3	500	KMO	860		
	1000	KVI	760		
Wenatchee D-4	50	KPQ	1500		
Yakima D-4	50	KIT	1310		
WEST VIRGINIA					
Bluefield L-24	100	WHIS	1420		
Charleston K-23	250	WOBU	580		
Fairmont J-24	250	WMMN	890		
Huntington K-23	250	WSAZ	580		
Wheeling J-24	5000	WWVA	1160		
WISCONSIN					
Eau Claire G-18	1000	WTAQ	1330		
Fond du Lac H-19	100	KFIZ	1420		
Green Bay G-19	100	WHBY	1200		
Janesville I-19	100	WCLO	1200		
La Crosse H-18	1000	WKBH	1380		
Madison H-19	750	WHA	940		
	500	WIBA	1280		
	250	WISJ	780		
Manitowoc H-20	100	WOMT	1210		
Milwaukee H-20	250	WHAD	1120		
	250	WISN	1120		
	1000	WTMJ	620		
Poynette H-19	100	WIBU	1210		
Racine I-20	100	WRJN	1370		
Sheboygan H-20	500	WHBL	1410		
Stevens Pt. G-19	2000	WLBL	900		
Superior F-17	1000	WEBC	1290		
WYOMING					
Casper H-10	100	KDFN	1210		

INDEX BY LOCATIONS WITH MAP KEY

CANADA				QUEBEC			
	Watts		Keys		Watts		Keys
ALBERTA				Montreal E-26			
Calgary B-7	500	CFAC	690		500	CFCF	1030
	500	CFCN	690		5000	CHYC	730
	500	CHCA	690		5000	CKAC	730
	500	CJ CJ	690	Quebec D-27	5000	CNRM	730
	500	CNRC	690		100	CHRC	880
Edmonton A-8	250	CHMA	580		22	CKCI	880
	500	CJCA	930		50	CKCV	880
	500	CKUA	580		50	CNRQ	880
	500	CNRE	580	SASKATCHEWAN			
Lethbridge C-8	50	CJOC	1120	Fleming C-13	500	CJRW	600
Red Deer A-8	1000	CHCT	840	Moose Jaw C-11	500	CJRM	600
	1000	CKLC	840	Pilot Butte	500	CHWC	960
	1000	CNRD	840	Regina C-12	500	CJBR	960
					500	CKCK	960
					500	CNRR	960
BRITISH COLUMBIA				Saskatoon B-11	500	CFQC	910
Chilliwack B-3	5	CHWK	1210		500	CNRS	910
Kamloops B-5	15	CFJC	1120	Yorkton C-13	500	CJGX	630
Sea Island	50	CJOR	1210	HAITI			
Vancouver B-3	50	CHLS	730	Port au Prince X-30	1000	HHK	920
	50	CKCD	730	MEXICO			
	50	CKFK	730	Chihuahua, Chih. R-9	250	XFF	915
	50	CKMO	730	Ciudad Juarez P-9	1000	NEQ	750
	100	CKWX	730	Guadalajara, Jal. X-10	101	XEA	1200
Victoria C-3	500	CNRV	1030	Jalapa, Ver. Y-14	350	XFC	805
	500	CFCT	630	Juarez, Chih.	101	XEJ	857
MANITOBA				Merida, Yuc. X-19	105	XEY	547
Brandon D-14	500	CKX	540	Mexico City Y-13	1000	XEB	1091
Winnipeg D-15	5000	CKY	780		2000	XEG	970
		CNRW	780		101	XEK	1000
NEW BRUNSWICK					1000	XEN	719
Fredericton D-29	50	CFNB	1210		101	XEO	674
Moncton D-30	500	CNRA	630		101	XER	1071
St. John D-30	50	CFBO	890		500	XETA	1100
NEWFOUNDLAND					5000	XEW	780
St. Johns A-35	500	8WMC	720		500	XEX	1300
NOVA SCOTIA					500	XEZ	588
Glace Bay C-32	1000	VAS	690		2000	XFG	638
Halifax E-31	500	CHNS	910		1000	XFI	818
	500	CNRH	910	Monterrey, N. L. U-13	500	XFX	860
Sydney C-32	50	CJCB	880		101	XEH	1132
Wolfville D-31	50	CKIC	930		500	XET	890
ONTARIO				Morelia, Mich. Y-12	101	XEI	1000
Chatham H-22	100	CFCO	1210	Oaxaca, Oax. AA-14	105	XEF	1132
Cobalt E-23	15	CKMC	1210	Puebla Z-13	101	XEV	1035
Hamilton H-24	10	CHCS	880	Reynosa, Tams. T-14	10000	XED	960
	50	CHML	880	Saltillo, Coah. U-12	10	XEL	1091
	50	CKOC	880	Tampico, Tams. W-14	501	XEM	841
	250	CFCH	600		500	XES	890
Iroquois Falls F-26	500	CFRC	930	Toluco, Mex. Y-12	50	XEC	1133
Kingston G-25	1000	CJGC	910	Veracruz, Ver. Y-14	---	XETF	1210
London H-23	500	CNRL	910		101	XEU	800
	50	CKPR	930	Villahermosa, Tab.	250	XFE	632
Midland G-23	100	CKCO	890	CUBA			
Ottawa F-25	500	CNRO	600	Caibarien W-25	250	CMHD	920
	50	CFCL	1010	Cienfuegos W-25	200	CMHA	1150
Prescott F-25	50	CKPC	1210	Colon W-24	300	CMGA	830
Preston G-23	500	CFCA	840	Havana W-23	150	CMBC	1130
Toronto G-24	500	CFCL	580		200	CMBY	1405
	4000	CFRB	960		150	CMBZ	1010
	5000	CJSC	690		500	CMC	840
	500	CKCL	580		100	CMCE	1280
	5000	CKGW	690		250	CMCF	900
	500	CKNC	580		1000	CMCQ	950
	500	CNRT	840		500	CMI	770
	4000	CNRX	960		2000	CMK	730
	5000	CPRY	690		150	CMQ	1130
Waterloo G-23	50	CKCR	1010		1000	CMW	588
Wingham G-23	25	10-BP	1200		250	CMX	900
PRINCE EDWARD ISLAND				Santiago X-28	150	CMKC	1360
Charlottetown C-31	250	CFCY	960	Tuinucu	500	CMHC	790
	30	CHCK	960	COSTA RICA			
Summerside C-31	100	CHGS	1120	San Jose FF-23	50	TIX	750

CFAC 690	CJRM 600	CMR 730	KBFL 1370
Calgary, Alta.	Moose Jaw, Sask.	Havana, Cuba	Everett, Wash.
CFBO 890	CJRW 600	CMKC 1360	KFDM 560
St. John, N. B.	Fleming, Sask.	Santiago, Cuba	Beaumont, Tex.
CFCA 840	CJSC 690	CMQ 1130	KFDY 550
Toronto, Ont.	Toronto, Ont.	Havana, Cuba	Brookings, S.D.
CFCF 1030	CKAC 730	CMW 590	KEEL 920
Montreal, Que.	Montreal, Que.	Havana, Cuba	Denver, Colo.
CFCH 600	CKCD 730	CMX 900	KEEQ 680
Iroq's Falls, Ont.	Vancouver, B.C.	Havana, Cuba	St. Joseph, Mo.
CFCL 580	CKCI 880	CNRA 630	KFGQ 1310
Toronto, Ont.	Quebec, Que.	Moncton, N.B.	Boone, Iowa
CFCN 690	CKCK 960	CNRC 690	KFH 1300
Calgary, Alta.	Regina, Sask.	Calgary, Alta.	Wichita, Kansas
CFCO 1210	CKCL 580	CNRD 840	KFI 640
Chatham, Ont.	Toronto, Ont.	Red Deer, Alta.	Los Angeles, Cal.
CFCT 630	CKCO 890	CNRE 580	KFIO 1120
Victoria, B. C.	Ottawa, Ont.	Edmonton, Alta.	Spokane, Wash.
CFCY 960	CKCR 1010	CNRH 910	KFJU 1310
Ch'lottet'n, P.E.I.	Waterloo, Ont.	Halifax, N. S.	Juneau, Alaska
CFJC 1120	CKCV 880	CNRL 910	KFJZ 1420
Kamloops, B. C.	Quebec, Que.	London, Ont.	Fond du Lac, Wis.
CFLC 1010	CKFC 730	CNRM 730	KFJB 1200
Prescott, Ont.	Vancouver, B.C.	Montreal, Que.	Marshalltown, Ia.
CFNB 1210	CKGW 690	CNRO 600	KFFJ 1480
Fredericton, N.B.	Toronto, Ont.	Ottawa, Ont.	KFFJ 1480
CFQC 910	CKIC 930	CNRQ 880	Oklahoma City
Saskatoon, Sask.	Wolfville, N.S.	Quebec, Que.	KFJI 1370
CFRB 960	CKLC 840	CNRR 960	Astoria, Ore.
Toronto, Ont.	Red Deer, Alta.	Regina, Sask.	KFJM 1370
CFRC 930	CKMC 1210	CNRS 910	Grd. Forks, N.D.
Kingston, Ont.	Cobalt, Ont.	Saskatoon, Sask.	KFJR 1300
CHCA 690	CKMO 730	CNRT 840	Portland, Ore.
Calgary, Alta.	Vancouver, B.C.	Toronto, Ont.	KFJY 1310
CHCK 960	CKNX 580	CNRV 1030	Fort Dodge, Ia.
Ch'lottet'n, P.E.I.	Toronto, Ont.	Vancouver, B.C.	KFJZ 1370
CHCS 880	CKOC 880	CNRW 780	Ft. Worth, Tex.
Hamilton, Ont.	Hamilton, Ont.	Winnipeg, Man.	KFKA 880
CHCT 840	CKPC 1210	CNRX 960	Greeley, Colo.
Red Deer, Alta.	Preston, Ont.	Toronto, Ont.	KFKB 1050
CHGS 1120	CKPR 930	CPRY 690	Milford, Kansas
Sum'rside, P.E.I.	Midland, Ont.	Toronto, Ont.	KFKU 1220
CHLS 730	CKUA 580	HHK 920	Lawrence, Kans.
Vancouver, B.C.	Edmonton, Alta.	Port au Prince, H.	KFKX 1020
CHMA 580	CKWX 730	KBPS 1420	Chicago, Ill.
Edmonton, Alta.	Vancouver, B.C.	Portland, Ore.	KFLV 1410
CHML 880	CKX 540	KBTM 1200	Rockford, Ill.
Hamilton, Ont.	Brandon, Man.	Paragould, Ark.	KFLX 1370
CHNS 910	CKY 780	KCRC 1370	Galveston, Tex.
Halifax, N.S.	Winnipeg, Man.	Enid, Okla.	KFMX 1250
CHRC 880	CMBC 1130	KCRJ 1310	N'thfield, Minn.
Quebec, Que.	CMBY 1400	Jerome, Ariz.	KFNF 890
CHWC 960	Havana, Cuba	KDB 1500	Shenandoah, Ia.
Pilot Butte, Sask.	CMBZ 1010	S. Barbara, Cal.	KFOR 1210
CHWK 1210	Havana, Cuba	KDFN 1210	Lincoln, Nebr.
Chilliwick, B.C.	CMC 840	Casper, Wyo.	KFOX 1250
CHYC 730	Havana, Cuba	KDKA 980	Long Beach, Cal.
Montreal, Que.	CMCE 1280	Pittsburgh, Pa.	KFPL 1310
CJBR 960	Havana, Cuba	KDLR 1210	Dublin, Texas
Regina, Sask.	CMCF 900	Devils Lake, N.D.	KFPM 1310
CJCA 930	Havana, Cuba	KDVL 1290	Greenville, Tex.
Edmonton, Alta.	CMCQ 950	Salt Lake City	KFPV 1340
CJCB 880	Havana, Cuba	KECA 1430	Ft. Smith, Ark.
Sydney, N.S.	CMGA 830	Los Angeles, Cal.	KFPY 1340
CJCJ 690	Colon, Cuba	KELW 780	Spokane, Wash.
Calgary, Alta.	CMHA 1150	Burbank, Cal.	KFQD 1230
CJGC 910	Cienfuegos, Cuba	KEX 1180	Anchorage, Alas.
London, Ont.	CMHC 790	Portland, Ore.	KFQU 1420
CJGX 630	Tuinucuu, Cuba	KFAB 770	Holy City, Cal.
Yorkton, Sask.	CMHD 920	Lincoln, Nebr.	KFQW 1420
CJOC 1120	Caibarien, Cuba	KFBB 1280	Seattle, Wash.
Lethbridge, Alta.	CFMI 770	Great Fls., Mont.	KFRG 610
CJOR 1210	Havana, Cuba	KFBK 1310	San F'nscisco, Cal.
Sea Island, B.C.		Sacramento, 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'nisco, Cal.
KFXD 1420
Nampa, Idaho
KFXF 920
Denver, Colo.
KFXJ 1310
Edgewater, Colo.
KFXM 1210
San Ber'd'no, Cal.
KFXR 1310
Oklahoma City
KFXY 1420
Flagstaff, Ariz.
KFYO 1420
Abilene, Texas
KFYR 550
Bismarck, N.D.
KGA 1470
Spokane, Wash.
KGAR 1370
Tucson, Ariz.
KGB 1330
San Diego, Cal.
KGBU 900
Ketchikan, Al'ka.
KGBX 1310
St. Joseph, Mo.
KGBZ 930
York, Nebr.
KGCA 1270
Decorah, Iowa
KGCN 1210
Watertown, S.D.
KGCU 1200
Mandan, N.D.
KGCX 1310
Wolf P't, Mont.
KGDA 1370
Mitchell, S. D.
KGDE 1200
Ferg's F'ls, Minn
KGDH 1100
Stockton, Cal.
KGDY 1200
Huron, S. D.
KGEF 1300
Los Angeles, Cal.
KGEK 1200
Yuma, Colo.
KGER 1360
Long Beach, Cal.
KGEW 1200
Ft. Morgan, Colo.
KGEZ 1310
Kalispell, Mont.
KGFF 1420
Alva, Okla.

KGFG 1370
Oklahoma City
KGFJ 1500
Corpus Ch'sti, Tex
KGFJ 1200
Los Angeles, Cal.
KGFK 1500
Moorhead, Minn.
KGFL 1370
Raton, N. M.
KGFV 1310
Ravenna, Nebr.
KGFY 580
Pierre, S. D.
KGGC 1420
San F'nisco, Cal.
KGGF 1010
Coffeyville, Kans.
KGGM 1230
Alb'g'rque, N.M.
KGGH 1320
Pueblo, Colo.
KGGI 1200
Little Rock, Ark.
KGGJ 950
Billings, Mont.
KGGK 1320
Twin Falls, Ida.
KGGM 1360
Butte, Mont.
KGIW 1420
Trinidad, Colo.
KGIY 1420
Las Vegas, Nev.
KGIW 1500
Grant City, Mo.
KGIJ 890
Little Rock, Ark.
KGIK 1500
Brownwood, Tex.
KGIK 1370
San Angelo, Tex.
KGIK 570
Wichita Flls., Tex
KGIK 1420
Sand Point, Ida.
KGIK 1500
Scottsbluff, Nebr.
KGIK 1320
Honolulu, T. H.
KGIK 1210
Elk City, Okla.
KGIK 1430
No. Platte, Neb.
KGIK 1210
Dodge City, Kans.
KGIK 790
San F'nisco, Cal.
KGIK 1410
Amarillo, Texas
KGIK 940
Honolulu, Hawaii
KGIK 1420
Missoula, Mont.
KGIK 620
Portland, Ore.
KGIK 1200
Lacey, Wash.
KGIK 900
Los Angeles, Cal.
KGIK 590
Spokane, Wash.
KGIK 1420
Red Oak, Iowa
KGIK 1320
Idaho Falls, Ida.

KIDO 1250
Boise, Idaho
KIT 1310
Yakima, Wash.
KJBS 1070
San F'nisco, 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
Inglewood, 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.
KOB 1180
State Coll., N.M.
KOCW 1400
Chickasha, Okla.
KOH 1380
Reno, Nevada
KOIL 1260
Council Bluffs, Ia.
KOIN 940
Portland, Ore.
KOL 1270
Seattle, Wash.
KOMO 920
Seattle, Wash.
KONO 1370
San Antonio, Tex
KOOS 1370
Marshfield, Ore.
KORE 1420
Eugene, Ore.
KOY 1390
Phoenix, Ariz.
KPCH 650
Seattle, Wash.

KPJM 1500
Prescott, Ariz.
KPO 680
San F'nisco, Cal.
KPOF 880
Denver, Colo.
KPCC 1210
Pasadena, Cal.
KPQ 1500
Wenatchee, Wash
KPRC 920
Houston, Texas
KPSN 1360
Pasadena, Cal.
KQV 1380
Pittsburgh, Pa.
KQW 1010
San Jose, Cal.
KRE 1370
Berkeley, Cal.
KREG 1500
Santa Ana, Cal.
KRGV 1260
Harglingen, Texas
KRLD 1040
Dallas, Texas
KRMD 1310
Shreveport, La.
KROW 930
Oakland, Cal.
KRSC 1120
Seattle, Wash.
KSAC 580
Manh't'n, Kans.
KSCJ 1330
Sioux City, Ia.
KSD 550
St. Louis, Mo.
KSEI 900
Pocatello, Idaho
KSL 1130
Salt Lake City
KSMR 1200
Santa Maria, Cal.
KSO 1380
Clarinda, Iowa
KSOO 1110
Sioux Falls, S.D.
KSTP 1460
St. Paul, Minn.
KTAB 560
San F'nisco, Cal.
KTAP 1420
San Antonio, Tex.
KTAR 620
Phoenix, Ariz.
KTAT 1240
Ft. Worth, Tex.
KTBI 1300
Los Angeles, Cal.
KTBR 1300
Portland, Ore.
KTBS 1450
Shreveport, La.
KTHS 1040
Hot Spgs., Ark.
KTLC 1310
Houston, Texas
KTM 780
Los Angeles, Cal.
KTNT 1170
Muscatine, Iowa
KTRH 1120
Houston, Texas
KTSA 1290
San Antonio, Tex.

KTSL 1310	WABC 860	WCAH 1430	WDEL 1120
Shreveport, La.	New York City	Columbus, Ohio	Wilmington, Del.
KTSM 1310	WABI 1200	WCAJ 590	WDGY 1180
El Paso, Texas	Bangor, Maine	Lincoln, Nebr.	Minneap., Minn.
KTW 1270	WABZ 1200	WCAL 1250	WDIX 1500
Seattle, Wash.	New Orleans, La.	Northfield, Minn.	Tupelo, Miss.
KUJ 1500	WACO 1240	WCAM 1280	WDOD 1280
Longview, Wash.	Waco, Texas	Camden, N. J.	Chattan'ga, Tenn
KUOA 1390	WADC 1320	WCAO 600	WDRC 1330
Fayetteville, Ark.	Akron, Ohio	Baltimore, Md.	Hartford, Conn.
KUSD 890	WAIU 640	WCAP 1280	WDSU 1250
Vermillion, S. D.	Columbus, Ohio	Asbury Pk., N. J.	New Orleans, La.
KUT 1500	WALR 1210	WCAT 1200	WDWF 1210
Austin, Texas	Zanesville, Ohio	Rapid City, S. D.	Providence, R. I.
KVI 760	WAPI 1140	WCAU 1170	WDZ 1070
Tacoma, Wash.	Birmingham, Ala.	Philadelphia, Pa.	Tuscola, Ill.
KVL 1370	WASH 1270	WCAX 1200	WEAF 660
Seattle, Wash.	Gr. Rapids, Mich.	Burlington, Vt.	New York City
KVOA 1260	WAWZ 1350	WCAZ 1070	WEAL 1270
Tucson, Arizona	New York City	Carthage, Ill.	Ithaca, N. Y.
KVOO 1140	WBAA 1400	WCBA 1440	WEAN 780
Tulsa, Okla.	Lafayette, Ind.	Allentown, Pa.	Providence, R. I.
KVOS 1200	WBAK 1430	WCBD 1080	WEAO 570
Bellingh'm, Wash.	Harrisburg, Pa.	Zion, Ill.	Columbus, Ohio
KWCR 1310	WBAL 1060	WCBM 1370	WEBC 1290
Cedar Rapids, Ia.	Baltimore, Md.	Baltimore, Md.	Superior, Wis.
KWEA 1210	WBAP 800	WCBS 1210	WEBQ 1210
Shreveport, La.	Fort Worth, Tex.	Springfield, Ill.	Harrisburg, Ill.
KWG 1200	WBAX 1210	WCCO 810	WEER 1310
Stockton, Cal.	Wilkes-Barre, Pa.	Minneap., Minn.	Buffalo, N. Y.
KWJJ 1060	WBBC 1400	WCDA 1350	WEDC 1210
Portland, Ore.	Brooklyn, N. Y.	New York City	Chicago, Ill.
KWK 1350	WBBL 1210	WCFL 970	WEDH 1420
St. Louis, Mo.	Richmond, Va.	Chicago, Ill.	Erie, Pa.
KWKC 1370	WBMM 770	WCGU 1400	WEBI 590
Kansas City, Mo.	Chicago, Ill.	Brooklyn, N. Y.	Boston, Mass.
KWKH 850	WBBR 1300	WCHI 1490	WEHC 1200
Shreveport, La.	Brooklyn, N. Y.	Chicago, Ill.	Emory, Va.
KWLC 1270	WBBZ 1200	WCKY 1490	WEHS 1420
Decorah, Iowa	Ponca City, Okla.	Covington, Ky.	Evanston, Ill.
KWSC 1220	WBCM 1410	WCLB 1500	WELK 1370
Pullman, Wash.	Bay City, Mich.	Long Beach, N. Y.	Philadelphia, Pa.
KWWG 1260	WBEN 900	WCLO 1200	WELL 1420
Brownsville, Tex.	Buffalo, N. Y.	Janesville, Wis.	BattleCreek, Mich
KXA 570	WBGF 1370	WCLS 1310	WENR 870
Seattle, Wash.	Glens Falls, N. Y.	Joliet, Ill.	Chicago, Ill.
KXL 1420	WBIG 1440	WCMA 1400	WEPS 1200
Portland, Ore.	Greensboro, N.C.	Culver, Ind.	Worcester, Mass.
KXO 1500	WBIS 1230	WCOA 1340	WEVD 1300
El Centro, Cal.	Boston, Mass.	Pensacola, Fla.	New York City
KXRO 1310	WBMS 1450	WCOC 880	WEW 760
Aberdeen, Wash.	Hackensack, N.J.	Meridian, Miss.	St. Louis, Mo.
KXYZ 1420	WBOQ 860	WCOD 1200	WEXL 1310
Houston, Texas	New York City	Harrisburg, Pa.	Royal Oak, Mich.
KYA 1230	WBOW 1310	WCOH 1210	WFAA 800
San F'necisco, Cal.	Terre Haute, Ind.	Yonkers, N. Y.	Dallas, Texas
KYW 1020	WBRC 930	WCRW 1210	WFAN 610
Chicago, Ill.	Birmingham, Ala.	Chicago, Ill.	Philadelphia, Pa.
KZM 1370	WBRE 1310	WCSC 1360	WFBC 1200
Hayward, Cal.	Wilkes-Barre, Pa.	Charleston, S. C.	Knoxville, Tenn.
NAA 690	WBSS 920	WCSSH 940	WFBE 1200
Arlington, Va.	Well'Ty'H'ls, Mass	Portland, Maine	Cincinnati, Ohio
NBA 850	WBT 1080	WDAE 1220	WFBG 1310
Balboa, C. Z.	Charlotte, N. C.	Tampa, Fla.	Altoona, Pa.
TIX 750	WBTM 1370	WDAF 610	WFL 1360
San Jose, C. R.	Danville, Va.	Kansas City, Mo.	Syracuse, N. Y.
VAS 690	WBZ 990	WDAG 1410	WFBM 1230
Glace Bay, N. S.	Springfield, Mass.	Ama'illo, Texas	Indianapolis, Ind.
WAAF 920	WBZA 990	WDAH 1310	WFR 1270
Chicago, Ill.	Boston, Mass.	El Paso, Texas	Baltimore, Md.
WAAM 1250	WCAC 600	WDAY 940	WFDF 1310
Newark, N. J.	Storrs, Conn.	Fargo, N. D.	Flint, Mich.
WAAT 940	WCAD 1220	WDBJ 930	WFDV 1370
Jersey City, N. J.	Canton, N. Y.	Roanoke, Va.	Rome, Ga.
WAAW 660	WCAE 1220	WDBO 1120	
Omaha, Nebr.	Pittsburgh, Pa.	Orlando, Fla.	

WFDW 1420
Talladega, Ala.
WFI 560
Philadelphia, Pa.
WFIW 940
Hopkinsville, Ky.
WFLA 620
Clearwater, Fla.
WGAL 1310
Lancaster, Pa.
WGAR 1450
Cleveland, Ohio
WGBB 1210
Freeport, N. Y.
WGBC 1430
Memphis, Tenn.
WGBF 630
Evansville, Ind.
WGBI 880
Scranton, Pa.
WGBS 600
New York City
WGCM 1210
Gulfport, Miss.
WGCP 1250
Newark, N. J.
WGES 1360
Chicago, Ill.
WGH 1310
Newp't News, Va.
WGL 1370
Ft. Wayne, Ind.
WGMS 1250
St. Paul, Minn.
WGN 720
Chicago, Ill.
WGR 550
Buffalo, N. Y.
WGST 890
Atlanta, Ga.
WGY 790
Schenec'd'y, N.Y.
WHA 940
Madison, Wis.
WHAD 1120
Milwaukee, Wis.
WHAM 1150
Rochester, N.Y.
WHAP 1300
New York City
WHAS 820
Louisville, Ky.
WHAT 1310
Philadelphia, Pa.
WHAZ 1300
Troy, N. Y.
WHB 860
Kansas City, Mo.
WHBC 1200
Canton, Ohio
WHBD 1370
Mt. Orab, O.
WHBF 1210
Rock Island, Ill.
WHBL 1410
Sheboygan, Wis.
WHBQ 1370
Memphis, Tenn.
WHBU 1210
Anderson, Ind.
WHBY 1200
Green Bay, Wis.
WHDF 1370
Calumet, Mich.
WHDH 830
Boston, Mass.

WHDI 1180
Minneapolis, Minn.
WHDL 1420
TupperLake, N.Y.
WHEC 1440
Rochester, N. Y.
WHFC 1420
Cicero, Ill.
WHIS 1420
Bluefield, W. Va.
WHK 1390
Cleveland, Ohio
WHN 1010
New York City
WHO 1000
Des Moines, Ia.
WHOM 1450
Jersey City, N. J.
WHP 1430
Harrisburg, Pa.
WIAS 1420
Ottumwa, Iowa
WIBA 1280
Madison, Wis.
WIBG 930
Elkins Park, Pa.
WIBM 1370
Jackson, Mich.
WIBO 560
Chicago, Ill.
WIBR 1420
Steubenville, O.
WIBU 1210
Poynette, Wis.
WIBW 580
Topeka, Kansas
WIBX 1200
Utica, N. Y.
WICC 1190
Bridgeport, Conn.
WIL 1200
St. Louis, Mo.
WILL 890
Urbana, Ill.
WILM 1420
Wilmington, Del.
WIOD 1300
Miami, Fla.
WIP 610
Philadelphia, Pa.
WIS 1010
Columbia, S. C.
WISJ 780
Madison, Wis.
WISN 1120
Milwaukee, Wis.
WJAC 1310
Johnstown, Pa.
WJAG 1060
Norfolk, Nebr.
WJAK 1310
Marion, Ind.
WJAR 890
Providence, R. I.
WJAS 1290
Pittsburgh, Pa.
WJAX 900
Jacksonville, Fla.
WJAY 610
Cleveland, Ohio
WJAZ 1490
Chicago, Ill.
WJBC 1200
La Salle, Ill.
WJBI 1210
Red Bank, N. J.

WJBK 1370
Detroit, Mich.
WJBL 1200
Decatur, Ill.
WJBO 1420
New Orleans, La.
WJBT 770
Chicago, Ill.
WJBU 1210
Lewisburg, Pa.
WJBW 1200
New Orleans, La.
WJBY 1210
Gadsden, Ala.
WJDX 1270
Jackson, Miss.
WJDD 1130
Mooseheart, Ill.
WJKS 1360
Gary, Ind.
WJR 750
Detroit, Mich.
WJSV 1460
Alexandria, Va.
WJW 1210
Mansfield, Ohio
WJZ 760
New York City
WKAQ 890
San Juan, P. R.
WKAR 1040
E. Lansing, Mich.
WKAV 1310
Laconia, N. H.
WKBB 1310
Joliet, Ill.
WKBC 1310
Birmingham, Ala.
WKBF 1400
Indianapolis, Ind.
WKBH 1380
La Crosse, Wis.
WKBI 1420
Chicago, Ill.
WKBN 570
Youngstown, O.
WKBO 1450
Jersey City, N. J.
WKBQ 1350
New York City
WKBS 1310
Galesburg, Ill.
WKBV 1500
Connersville, Ind.
WKBW 1480
Buffalo, N. Y.
WKBZ 1500
Ludington, Mich.
WKJC 1200
Lancaster, Pa.
WKRC 550
Cincinnati, O.
WKY 900
Oklahoma City
WKZO 590
Be'n Spgs., Mich.
WLAC 1470
Nashville, Tenn.
WLAP 1200
Louisville, Ky.
WLB 1250
St. Paul, Minn.
WLCB 1310
Muncie, Ind.
WLDF 1420
Kansas City, Ks.

WLBG 1200
Ettrick, Va.
WLBH 900
Stevens Pt., Wis.
WLBW 1260
Oil City, Pa.
WLBX 1500
L.I. City, N.Y.
WLBZ 620
Bangor, Me.
WLCI 1210
Ithaca, N. Y.
WLEX 1410
Lexington, Mass.
WLEY 1370
Lexington, Mass.
WLFI 560
Philadelphia, Pa.
WLOE 1500
Boston, Mass.
WLS 870
Chicago, Ill.
WLST 1210
Providence, R. I.
WLTH 1400
Brooklyn, N. Y.
WLVA 1370
Lynchburg, Va.
WLW 700
Cincinnati, Ohio
WLWL 1100
New York City
WMAC 570
Syracuse, N. Y.
WMAF 1410
S. D'rtm'th, Mass.
WMAK 1040
Buffalo, N. Y.
WMAL 630
Washington, D.C.
WMAQ 670
Chicago, Ill.
WMAZ 890
Macon, Ga.
WMB 1500
Newport, R. I.
WMB 1420
Detroit, Mich.
WMBD 1440
Peoria Hghts., Ill.
WMBG 1210
Richmond, Va.
WMBH 1420
Joplin, Mo.
WMBI 1080
Chicago, Ill.
WMBJ 1500
Pittsburgh, Pa.
WMBU 1310
Auburn, N. Y.
WMBQ 1500
Brooklyn, N. Y.
WMBR 1370
Tampa, Fla.
WMC 780
Memphis, Tenn.
WMC 570
New York City
WMMN 890
Fairmont, W. Va.
WMP 1500
Lapeer, Mich.
WMRJ 1210
Jamaica, N. Y.
WMSG 1350
New York City

WMT 600	WPCC 560	WSAR 1450	WWL 850
Waterloo, Iowa	Chicago, Ill.	Fall River, Mass.	New Orleans, La.
WNAC 1230	WPCH 810	WSAZ 580	WWNC 570
Boston, Mass.	New York City	Hunt'gton, W. Va.	Asheville, N. C.
WNAD 1010	WPEN 1500	WSB 740	WWRL 1500
Norman, Okla.	Philadelphia, Pa.	Atlanta, Ga.	Woodside, N. Y.
WNAX 570	WPG 1100	WSBC 1210	WWVA 1160
Yankton, S. D.	Atl'ntic City, N. J.	Chicago, Ill.	Wheeling, W. Va.
WNBF 1500	WPOE 1370	WSBT 1230	WXYZ 1240
Bingh'm't'n, N. Y.	Patchogue, N. Y.	South Bend, Ind.	Detroit, Mich.
WNBH 1310	WPOR 780	WSDA 1400	XEA 1200
New B'd'f'd, Mass.	Norfolk, Va.	Brooklyn, N. Y.	Guadalajara, Jal.
WNBO 1200	WPSK 1230	WSEN 1210	XEB 1091
Washington, Pa.	State College, Pa.	Columbus, Ohio	Mexico City
WNBR 1430	WPTF 680	WSFA 1410	XEC 1133
Memphis, Tenn.	Raleigh, N. C.	Montgomery, Ala.	Toluca, Mex.
WNBW 1200	WQAM 560	WSGH 1400	XED 961
Carbondale, Pa.	Miami, Fla.	Brooklyn, N. Y.	Reynosa, Tams.
WNBX 1200	WQAN 880	WSIX 1210	XEF 1132
Springfield, Vt.	Scranton, Pa.	Springfield, Tenn.	XEG 970
WNBZ 1290	WQAO 1010	WSJS 1310	Mexico City
Saranacl'ke, N. Y.	New York City	Winst.-Sal., N. C.	XEH 1132
WNJ 1450	WQBC 1360	WSM 650	Monterrey, N. L.
Newark, N. J.	Vicksburg, Miss.	Nashville, Tenn.	XEI 1000
WNOX 560	WQDM 1370	WSMB 1320	Morelia, Mich.
Knoxville, Tenn.	St. Albans, Vt.	New Orleans, La.	XEJ 857
WNYC 570	WQDX 1210	WSMK 1380	Juarez, Chih.
New York City	Thomasville, Ga.	Dayton, Ohio	XEK 1000
WOAI 1190	WRAF 1200	WSOC 1210	Mexico City
San Antonio, Tex.	La Porte, Ind.	Gastonia, N. C.	XEL 1091
WOAN 600	WRAK 1370	WSPA 1420	Saltillo, Coah.
Law'nceb'g, Tenn.	Williamsport, Pa.	Spartanburg, S. C.	XEM 841
WOAX 1280	WRAW 1310	WSPD 1340	Tampico, Tams.
Trenton, N. J.	Reading, Pa.	Toledo, Ohio	XEN 720
WOBT 1310	WRAX 1020	WSSH 1410	Mexico City
Union City, Tenn.	Philadelphia, Pa.	Boston, Mass.	XEO 674
WOBU 580	WRHI 1310	WSUI 880	Mexico City
Charlest'n, W. Va.	Tifton, Ga.	Iowa City, Ia.	XEQ 750
WOC 1000	WRBJ 1370	WSUN 620	Ciudad Juarez
Davenport, Iowa	Hattiesburg, Miss.	St. Peters'g, Fla.	XER 1071
WOCL 1210	WRBL 1200	WSVS 1370	Mexico City
Jamestown, N. Y.	Columbus, Ga.	Buffalo, N. Y.	XES 890
WODA 1250	WRBQ 1210	WSYB 1500	Tampico, Tamp.
Paterson, N. J.	Greenville, Miss.	Rutland, Vt.	XET 890
WODX 1410	WRBT 1370	WSYR 570	Monterrey, N. L.
Mobile, Ala.	Wilmington, N. C.	Syracuse, N. Y.	XETA 1100
WOI 640	WRBX 1410	WTAD 1440	Mexico City
Ames, Iowa	Roanoke, Va.	Quincy, Ill.	XETF 1210
WOKO 1440	WRC 950	WTAG 580	Veracruz
P'ghkeepsie, N. Y.	Washington, D. C.	Worcester, Mass.	XEU 800
WOL 1310	WRDO 1370	WTAM 1070	Veracruz, Ver.
Washington, D. C.	Augusta, Me.	Cleveland, Ohio	XEV 1035
WOMT 1210	WRDW 1500	WTAQ 1330	Peubla
Manitowoc, Wis.	Augusta, Ga.	Eau Claire, Wis.	XEW 780
WOOD 1270	WREC 600	WTAR 780	Mexico City
Gr. Rapids, Mich.	Memphis, Tenn.	Norfolk Va.	XEX 1300
WOFI 1500	WREN 1220	WTAW 1120	Mexico City
Bristol, Tenn.	Lawrence, Kans.	College Sta., Tex.	XEY 547
WOQ 1300	WRHM 1250	WTAX 1210	Merida, Yuc.
Kansas City, Mo.	Minn'cap., Minn.	Springfield, Ill.	XEZ 588
WOR 710	WRJN 1370	WTBO 1420	Mexico City
Newark, N. J.	Racine, Wis.	Cumberland, Md.	XFC 805
WORC 1200	WRNY 1010	WTEL 1310	Jalapa, Ver.
Worcester, Mass.	New York City	Philadelphia, Pa.	XFE 920
WOS 630	WROL 1310	WTFI 1450	Villahermosa, Tab
Jeff's'n City, Mo.	Knoxville, Tenn.	Toccoa, Ga.	XFF 915
WOV 1130	WRR 1280	WTC 1060	XFG 638
New York City	Dallas, Texas	Hartford, Conn.	Mexico City
WOW 590	WRUF 830	WTMJ 620	XFI 818
Omaha, Nebr.	Gainesville, Fla.	Milwaukee, Wis.	Mexico City
WOWO 1160	WRVA 1110	WTNT 1470	XFX 860
Ft. Wayne, Ind.	Richmond, Va.	Nashville, Tenn.	Mexico City
WPAD 1420	WSAI 1330	WTOC 1260	8WMC 720
Paducah, Ky.	Cincinnati, Ohio	Savannah, Ga.	St. Johns, N. F.
WPAP 1010	WSAJ 1310	WWAE 1200	10BP 1200
New York City	Grove City, Pa.	Hammond, Ind.	Wingham, Ont.
WPAW 1210	WSAN 1440	WWJ 920	
Pawtucket, R. I.	Allentown, Pa.	Detroit, Mich.	

The World Stations by Countries

Country and City	Call	Keys.	Watts	Country and City	Call	Keys.	Watts
OCEANIA AND AFRICA				FRENCH INDO CHINA			
AUSTRALIA				Haiphong	-----	3446	2500
Adelaide	5CL	730	2500	HONG KONG			
	5DN	960	100	Victoria Peak	ZBW	857	1500
	5KA	1200	200	INDIA			
Bathurst	2MK	1155	50	Bombay	VUB	840	3000
Brisbane	4QG	760	2500	Calcutta	VUC	810	3000
Hobart	7ZL	580	600	JAPAN			
Melbourne	3AR	620	1000	Hirasio	JHBB	7995	-----
	3DB	1180	100	Hiroshima	JOFK	849	10000
	3LO	9369	1000	Kumamoto	JOGK	789	10000
		800		Nagoya	JOCK	810	10000
Newcastle	2NC	1245	2000	Osaka	JOBK	750	10000
Perth	6ML	1010	300	Sapporo	JOIK	831	10000
	6WF	690	1000	Sendai	JOHK	769	10000
Rockhampton	4RK	930	2000	Taihoku	JFAK	353	1000
Sydney	2BL	9225	1000	Taipeh	JFAB	7590	-----
		855		Tokyo	JOAK	869	10000
	2FC	10520	1000	KWANGTUNG			
		665		Dairen	JQAK	759	5000
	2GB	950	600	NETHERLAND EAST			
	2KY	1070	750	INDIES			
	2ME	10520	-----	Bandoeng	IBR	5170	1000
	2UE	1025	50	Batavia	PK1AA	3998	500
	2UW	1125	100	Djakakarta	PK2AF	5996	500
NEW ZEALAND				Makassar	PK6KZ	7313	500
Auckland	1YA	900	500	Malabar	PLF	17640	-----
	1ZQ	1188	-----	Palembang	PK4PA	59964	240
Christchurch	3YA	980	500	Semarang	PK2AG	-----	-----
	3ZC	5996	250	Surabaya	PH3CH	6662	250
		1199				2142	500
Dunedin	4YA	648	500	SOUTHERN EUROPE			
Gisborne	2ZM	1147	160	ALBANIA			
Palmerston	2ZF	1049	150	Tirana	-----	-----	300
Wellington	2YA	718	5000	AUSTRIA			
ALGERIA				Graz	-----	851	7000
Algiers	8DB	825.3	100	Innsbruck	-----	1058	500
		824	2400	Klagenfurt	-----	662	500
CANARY ISLANDS				Linz	-----	1220	500
Las Palmas	EAR5	1071	500	Vienna	-----	581	15000
EGYPT				FRANCE			
Cairo	-----	869	-----	Agen	F2BD	963.1	480
		909	-----			9761	-----
KENYA				Angers	-----	1091	250
Nairobi	7LO	9640	1000	Beziere	-----	1364.3	1500
		750		Biarritz	-----	1313	250
MOROCCO				Bordeaux	-----	1260.4	5000
Casablanca	AIN	5879	-----			986	1500
Rabat	-----	6877	2500	Caen	-----	1080	200
		724		Grenoble	-----	914.1	1500
TUNISIA				Juan les Pins	-----	1219	250
Carthage	TNU	162	-----	Lille	-----	1130	500
Constantine	8KR	7005	-----	Limoges	-----	1022	500
Tunis	TUA	240	500	Lyon	YN	644	3000
UNION OF SOUTH AFRICA					YR	1029.9	500
Cape Town	ZTC	800	1000			7462.7	-----
Durban	ZTD	789	1000	Marsan	-----	750	250
Johannesburg	ZTJ	9369	15000	Marseilles	-----	950	500
		666		Montpellier	-----	1049	200
				Nancy	-----	19355	-----
				Nice (see Juan les Pins)	-----		
ASIA				Nimes	-----	1256	500
BRITISH MALAYA				Nogent-sur-Seine	F8AV	3750	-----
Singapore	VS1AB	7260	-----	Paris	FL	9375	15000
Johore	VS3AB	7055	-----			207.5	-----
CEYLON					FPTT	671	1000
Colombo	-----	375	1750		F8GC	825	1500
CHINA						4262.3	-----
Canton	CAB	689	1000			905.2	500
Hangchow	XGY	895	250			174	13500
Harbin	COHB	674	1000			967.8	2000
Mukden	COMK	714	2000			7317.1	-----
Nanking	XGZ	606	500	Rennes	-----	1103	1500
Peking	COPK	937	1000	Rheims	-----	777.2	500
Shanghai	KRC	887	250	St. Etienne	-----	1363.6	250
Tientsin	CRC	1071	500	Toulon	-----	1200	500
	COTN	625	500	Toulouse	MIRD	1175	1500
CHOSEN (KOREA)						779	8000
Heijo (Seoul)	JODK	714	1000				

Country and City	Call	Keys.	Watts	Country and City	Call	Keys.	Watts
HUNGARY				Nauen			
Budapest	-----	545	20000	AGC	17430	-----	-----
ITALY				Norddeich			
Bolzano	IBZ	662	200	-----	-----	167	1000
Genoa	IGE	788	1200	Nuremberg	-----	1254	1000
Milan	IMI	599	7000	Schaerbeck	-----	1304	-----
Naples	INA	905.2	1500	Stettin	-----	1059	750
Rome	IRO	680	3000	Stuttgart	-----	833	4000
Turin	IRAX	6666.7	-----	IRISH FREE STATE			
	ITO	1031	7000	Cork	6CK	1337	1000
PORTUGAL				Dublin			
Lisbon	CT1AA	942	1000	2RN	-----	940	1500
	PIAA	983.6	500	LUXEMBURG			
RUMANIA				Luxemburg			
Bucharest	-----	545	12000	LOAA	1344	10000	-----
SPAIN				NETHERLANDS			
Almeria	EAJ18	1193	200	Hilversum	PFBI	1004	7000
Barcelona	EAJ1	860	7500	Huizen	PHI	1778	40000
	EAJ13	1121	10000	Scheveningen	PCF	160	1500
Madrid	EAJ2	750	750	UNITED KINGDOM			
	EAJ7	707.6	1500	Aberdeen	2BD	995	1000
	EAM	9772	-----	Belfast	2BE	1238	1000
Salamanca	EAJ22	662	-----	Bournemouth	6BM	1040	1000
San Sebastian	EAJ8	633	1000	Cardiff	5WA	968	1000
Seville	-----	815	-----	Daventry	5XX	193	25000
SWITZERLAND				Dundee			
Basel	-----	941	250	5GB	626	25000	-----
Berne	-----	743	1000	2DE	1040	130	-----
	-----	9375	-----	Edinburgh	2EH	1040	350
Geneva	-----	395	250	Glasgow	5SC	752	1000
Lausanne	-----	442	600	Hull	6KH	1040	130
Zurich	H9XD	3529.4	-----	Leeds & Bradford	2LS	1500	130
	-----	9375	-----	Liverpool	6LV	1040	130
	-----	653	630	London	2LO	842	30000
YUGOSLAVIA				Manchester			
Belgrade	-----	695	2500	2ZY	797	1000	-----
Ljubljana	-----	522	3000	Newcastle	5NO	1148	1000
Zagreb	-----	973	700	Plymouth	5PY	1040	130
	-----	-----	-----	Sheffield	6FL	1040	130
	-----	-----	-----	Stoke on Trent	6ST	1040	130
	-----	-----	-----	Swansea	5SX	1040	130
WESTERN EUROPE				NORTHERN EUROPE			
BELGIUM				CZECHOSLOVAKIA			
Brussels	ON4GT	887	100	Bratislava	OKR	1075	1250
	ON4RB	590	3600	Brunn	OKB	877	2500
Chatelineau	ON4CE	1388	200	Kosice	OKK	1023	2500
Ghent	ON4RG	1219	400	Prague	OKP	616	5000
Liege	ON4RW	1219	200	OK1MPI	5169	5000	-----
DANZIG				DENMARK			
Danzig	PTB	689	500	Copenhagen	-----	1067	1000
GERMANY				Kalundborg			
Aix la Chapelle	-----	662	700	-----	-----	260	7500
Augsburg	-----	535	700	Lyngby	-----	15300	500
Berlin	AFT	717	4000	-----	-----	9488	-----
	-----	5552	10000	Soro	-----	6057	-----
	-----	231	-----	3088	2000	-----	-----
	-----	1635	-----	ESTONIA			
	-----	1059	2000	Tallinn	-----	1013	10000
	-----	119	-----	-----	-----	250	100
Bremen	-----	950	700	Tartu	-----	735	2200
Breslau	-----	923	4000	FINLAND			
Cologne	-----	1319	4000	Abo	-----	1219	-----
Doberitz	-----	4434	-----	Bjorenborg (Pori)	-----	1219	1500
	-----	7963	-----	Helsingfors	-----	1357	10000
Flensburg	-----	1373	1500	Jakobstad	-----	1219	750
Frankfort on Main	-----	769	1500	Jyvaskyla	-----	1009	200
Freiburg	-----	527	1500	Lahti	-----	166	40000
Gleiwitz	-----	1157	3000	Tammerfors	-----	-----	700
Hamburg	-----	806	4000	Vipuri	-----	1030	750
Hanover	-----	535	750	ICELAND			
Kaiserslautern	-----	1110	4000	Akureyri	G2SH	1560	-----
Kassel	-----	1219	750	Reykjavik	-----	8995	500
Kiel	-----	1292	700	LATVIA			
Konigsberg	-----	1086	4000	Riga	YLZ	571	10000
Langenburg	-----	635	8000	LITHUANIA			
Leipzig	-----	1184	4000	Kovno	RYK	155	7000
Ludwigshaven	-----	1471	1500	NORWAY			
Magdeburg	-----	1059	-----	Aalesund	LKA	671	350
Muenster	-----	1319	1500	Bergen	LKB	824	1000
Munich	-----	563	4000	Fredrikstad	LGN	9994	-----
	-----	-----	-----	Hamar	LKF	779	700
	-----	-----	-----	-----	LKH	526	700

FAVORITE PROGRAMS

Time Station

Dials

Feature

Time Station

Dials

Feature

DAILY

WEDNESDAY

SUNDAY

THURSDAY

MONDAY

FRIDAY

TUESDAY

SATURDAY

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 WEFW in New York. First we must ascertain the frequency for this station. Look it up under WEFW 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 WEFW is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEFW is one of the two stations which have been assigned the 660 keys, frequency by the Federal Radio Commission.

We also find that it has a power of 50,000 watts, that it is located in New York City and is owned by the National Broadcasting Co., Inc.

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

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

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

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

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

Our index now becomes of great value to us in identifying programs. Let us say that we hear music at 67-65 on our dials. We refer to our Index by Frequencies and Dial Numbers and we find that we are in tune to 680 kilocycles. On this wave there are two stations: KPO at San Francisco and WPTZ 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

KFO	1000	Spokane, Wash.
WGL	500	Lima, Ohio
WEE	500	Barron, Minn.
WCM	1000	Cincinnati, Ohio
WMC	1000	Marquette Springs, Mich.

76	74
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Louis Wexner, Inc.
Nebraska Wesleyan University
Edison Elec. Illuminating Co.
Scientists of the World
Annual Missionary College

600 kilocycles 499.7 meters

CFCH	350	Inglewood Falls, Ont.
WFD	500	Laramie, Wyo.
WFO	500	San Diego, Calif.
WED	500	Baltimore, Md.
WBR	250	Delaware, Ohio
WBR	250	Jefferson City, Tenn.
WRC	500	Memphis, Tenn.
WTC	150	Hartford, Conn.

75	73
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Abilene Power & Paper Co.
Alphon N. Thomas
Allan Radio Corp.
Monumental Radio Co., Inc.
Edwin Collins
Laughlin School of Music
Wells, Inc.
Travelers Insurance Co.

610 kilocycles 491.5 meters

EPBC	1000	San Francisco, Calif.
WFP	1000	Kansas City, Mo.
WFM	1000	Philadelphia, Pa.
WFO	1000	Kansas City, Mo.

74	72
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Don Lee, Inc.
Kansas City Star Co.
Raymond Broadcasting Co., Inc.
Clifton School of Christianity
Unity School of Christianity

620 kilocycles 483.6 meters

EPAD	100	Phoenix, Ariz.
KEAW	1000	Portland, Ore.
WJIA	1000	Zanesville, Ohio
WJPD	1000	Wilmington, Del.
WJBY	500	Beverly Hills, Calif.
WJBY	1000	Milwaukee, Wis.

73	71
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Essential Publishing Co.
Oregonian Publishing Co.
Temple Publishing Co.
Rollins College, Inc.
Thompson & Greenery
Milwaukee Journal

630 kilocycles 475.9 meters

CFCT	500	Victoria, B. C.
CFBK	500	Victoria, B. C.
CFNR	500	Montreal, N. B.
CFR	500	Nashville, Tenn.
EPRI	500	Columbia, Mo.
EPRI	500	Jefferson City, Mo.
WVAL	500	Washington, D. C.
WUP	500	Jacksonville, Fla.

72	70
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Victoria Broadcasting Ass'n.
Whittier Radio Station
Canadian National Railway
Carroll-Lambert
Stephens College
Federal Bureau of Inv. Inc.
St. A. Lewis, Inc.
State Marketing Bureau

640 kilocycles 468.5 meters

KFI	500	San Francisco, Calif.
WAHU	500	Columbus, Ohio

71	69
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Earle C. Anthony, Inc.
American Insurance Union

650 kilocycles 461.3 meters

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

660 kilocycles 454.3 meters

WAAW	500	Omaha, Neb.
WEAF	5000	New York City

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

670 kilocycles 447.5 meters

WMAO	300	Chicago, Ill.
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68	66
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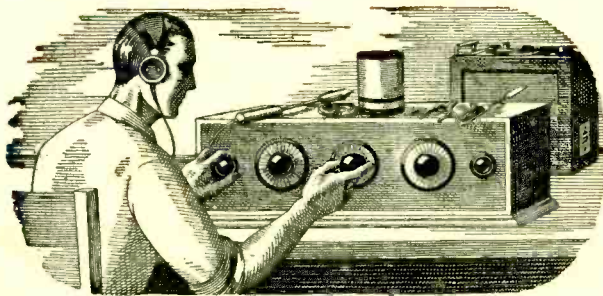
Chicago Daily News, Inc.

680 kilocycles 440.9 meters

KFO	500	San Francisco, Calif.
WFTF	500	Knoxville, Tenn.

67	65
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Nate Ross & The Chronicle
Berkman Life Insurance Co.



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

I Thought Radio Was a Plaything

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

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

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

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

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

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

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

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

"You're kidding me," I said.
"I'm not," he replied. "Take a look at this ad."

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

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

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

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

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

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

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

Take another tip — No matter what your plans are, no matter how much or how little you know about Radio — clip the coupon below and look their free book over. It is filled with interesting facts, figures, and photos, and the information it will give you is worth a few minutes of anybody's time. You will place yourself under no obligation — the book is free, and is gladly sent to anyone who wants to know about Radio. Just address J. E. Smith, President, National Radio Institute, Dept. 1A0, Washington, D. C.

J. E. SMITH, President,
National Radio Institute, Dept. 1A0,
Washington, D. C.

Dear Mr. Smith: — Please send me your 64-page free book, giving all information about the opportunities in Radio and how I can learn quickly and easily at home to take advantage of them. I understand this request places me under no obligation, and that no salesman will call on me.

Name

Address

Town

State