

THE FEBRUARY 1931

RADIO INDEX

The Magazine that Doubles the Pleasure of Radio



25^c

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

No. 46

N. S. E.



One of these Boys Will Fail - IF

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,
14053 Bogue Building,
1147 N. Illinois St., Indianapolis, Ind.

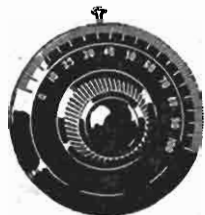
Enclosed is 10 cents for which please send me the book "Stammering—Its Cause and Cure"—and full information regarding the Bogue Unit Method for the cure of stammering and stuttering.

Name

Address

THE FEBRUARY 1931

1930



RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



SEVENTH YEAR

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THE RADEX PRESS

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REDUCING the Effect of STATIC

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

Long Aerial Magnifies

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

The Worst Enemy of Radio

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

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

SEVEN PUZZLING PROBLEMS

To Test Your Knowledge of Radio

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

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

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

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

Correct solutions of the January puzzle are as follows:

TUBE-WFBE-WLBW-GLOW.

PUSH-KUSD-KPSN -WISN -WILL -

PULL. In place of KUSD, WCSH

may be used and in place of KPSN,

any of the following with WCSH:

WCFL, WMSG, WGST, WBSO,

WCAC, WLSI or WPSC. WISJ

would answer in place of WISN.

RAID-WAIU-KFIU (or WIBU)

KFRC (or WABC) WORC-WOMT-

ROUT.

DIAL-WBAL-WBOW-WAAW-

WACO-WOWO-KONO-SONG. In

place of WBOW, any of the follow-

ing may be used: WJAC, WMAL,

WCAC, WBEN or WBBC. In place

of WAAW: WICC-WBSO-WAAF.

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

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

Key

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

T H E M A G A Z I N E

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

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

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

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

SOLO

TRIO

No. 2

KCYS

--	--	--	--	--

MTRS

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

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

WISH

DEED

SLOW

FAST

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

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

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

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

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

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

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

PATH

ROAD

LONG

HIGH

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

Horizontal

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

Vertical

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

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

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

What Makes the Buzz?

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

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

SICK SETS and their SYMPTOMS

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

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

Station Blankets Dial

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

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

More Remedies by the Radio Doctor

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

Tube Shorted

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

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

Changing to Short Waves

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

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

Broad Tuning

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



A Brand New 1931 Model

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

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

Preliminary Squeal

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

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

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

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

(Continued on page 20)

MEXICO, CUBA and their Interference

Heterodynes in Spanish

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

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

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

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

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

A New Station

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

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

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

A Lesson in Spanish

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

Mr. Foster, who states that he is



Did You Hear It

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

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

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

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

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

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

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

The Cuban Situation

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

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THINGS Our Readers Want to KNOW

About This and That

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

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

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

Harmonics

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

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

Stations Testing

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

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

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

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

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

All Cleared Waves

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

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

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

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

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



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

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

(Continued on page 22)

STALKING Elusive STATIONS

With the Midnight Dialers

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

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

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

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

Foreign Reception

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

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

Aerial for Portables

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

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



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

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

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

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

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

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

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

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

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

An Old-Timer

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

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

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

DX Listeners

Why have your verification
questioned?

USE LOVE'S Standard Verification Cards

Designed by a DX fan with the one idea of making it easy to secure lots of iron-clad verifications. Love's Standard Verification Cards are easiest for the DX listener, because—He has only to fill in blank spaces on cards, sign, and mail to broadcast station. Easiest on Broadcaster, because—He has only to check DX report with his own records, sign on back of card, and return to sender. (This means prompt station response.) Completed verification contains, on one card, $3\frac{1}{2} \times 6\frac{3}{4}$ inches, full program log including exact time when heard and is OKed and signed on back by proper authority at broadcast station, making an ideal verification. Cards are arranged to be filed alphabetically by call letters.

Special Introductory Offer

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

Address—

PAUL LOVE
Mission Ranch Phoenix, Arizona

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

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

Some Targets

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

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

Some DX Records

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

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

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

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

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

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

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

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

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EXPERIMENTS with Aerial and Ground

Many try the
Grounded Aerial

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

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

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

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

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

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

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

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



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

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

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

An Aerial Fence

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

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

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

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

Salt Helps Reception

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

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

The other clipping concerns Merle
(Continued on page 24)

The "Unexpectuoso" of the Columbia



Virginia Arnold

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

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

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

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

At college Virginia started radio work.

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

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

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

Ground Sometimes Vital

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

RADIO Comes in MANTEL SETS

New Models
of 1931

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

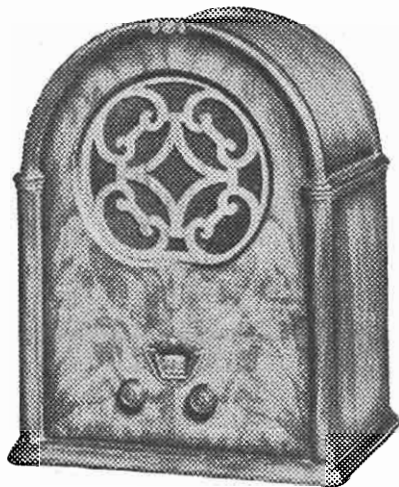
Came then the Henry the 8th period with the sets becoming huge articles of furniture slightly smaller than a four-poster bedstead. After that began to appear sets which were really beautiful, but they still remained rather massive, especially for the small homes and apartments.

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

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

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

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



Sterling

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

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



Home-Pal

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

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



Auto-Pal

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

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



Gloritone

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

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

(Continued on page 24)

Symptoms of Sick Sets

(Continued from page 7)

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

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

Making a Milliammeter

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

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

Oscillation Troubles

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

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

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

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

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

Using Aerial with Loop

I have a Radiola No. 28 in combination with a Victor Electrola, which was put on the market about six years ago. The phonograph uses the amplifying unit of the radio, which has two 281 tubes, replacing 216B tubes. The machine is completely self-

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

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

Magnetic or Dynamic Speaker

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

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

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

A Second Speaker

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

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

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

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

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

Cuba and Mexico

(Continued from page 9)

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

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

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

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

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

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

Our Readers Want to Know

(Continued from page 11)

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

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

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

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

Police and Airports

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

Unintentional Synchronization

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

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

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

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

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

Stalking Stations

(Continued from page 14)

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

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

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

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

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

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

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

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

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

From Harry Durand, 216 No. Main



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

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

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

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

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

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

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

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

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

Aerial and Ground

(Continued from page 16)

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

The U. S. Standard Ground

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

Radio in Mantel Sets

(Continued from page 19)

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



The Mozart

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

The Mozart lists at \$69.50 complete with tubes.

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

THIS MONTH'S CHANGES

New Stations:

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

Power

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

Frequencies

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

Deletions

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

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

Call

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

Locations

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

Owners

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

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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.

THE TELEVISION BAND

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

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

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

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

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

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

WHAT'S ON THE AIR TONIGHT?

A WEEKLY CALENDAR

Leading Features of the Network Program

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

Programs of the National Broadcasting Company begin with 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)

8:00-8:15 Gene and Glenn — Quaker Early Birds	WEAF WJAR WHEE WTAG WCSH WFI WRC WGY WCAE WTAM WWJ WSAI CKGW WRVA WPTF WJAX WIOD WFLA WSUN	2:30-3:00 American School of the Air	WABC WFBL WKBW WEAN WNAC WCAU WJAS WLBW WMAL WCAO WTAR WDBJ WADC WHK WKRC WUNC WGST WXYZ WSPD WDOD WREC WLAC WBRC WDSU WOWO WFBM WMAQ WCOO KMOX KMBC KOIL KFJF KRLD K TSA KLZ KDYL KVI KOL KPFP KOIN KHJ KPRC
8:15-8:30 Morning Devotions	WEAF WRC WCAE WGY WHAS WOV WFI WCSH WJAR WWJ WPTF WIOD WAPI WFLA WSUN WTAG WGN WJAX WJDX WRVA WBEN WSMB WFI	3:00-3:30 Columbia Salon Orchestra	WABC WHEC WLBZ WEAN WNAC WORC WPG WHP WLBW WMAL WCAO WTAR WDBJ WHK WKRC WAIU WUNC WXYZ WBCM WSPD WDOD WREC WLAC WBRC KSCJ WMT KMBC WDAY KOIL WIBW KFJF KRLD KTRH KLZ CFRB
8:30-9:00 Cheerio	WEAF WEEI WCKY WRC WCSH WWJ WHO WOC WDAF WAPI KPRC WFI WSB WSM WJAX WPTF WTAG WOAI WBEN WRVA CKGW WIOD WHAS WFLA WSUN WTAM WMC WJDX WJAR WGY WOW WCAE WIBO	5:00-5:30 The Lady Next Door	WEAF WRC KSD WTAG WSM WHAS WKY KPRC WTAM
9:00-9:15 Something for Everyone	WABC WHEC WPG WCAU WHP WJAS WDBJ WUNC WXYZ WBCM WDOD WREC WLAC WBRC KSCJ WMT KMOX KMBC KOIL KFH KFJF KTRH CFRB	6:05-6:30 Black and Gold Room Orchestra	WEAF WCAE WCSH WWJ WJAR WBEN
9:02-9:45 Morning Melodies	WEAF WRC WWJ WHAS WTAM WAPI WSM WGN WRVA WBEN KSD WOC WHO WOV WTMJ KSTP WBCB	6:45-7:00 Uncle Abe and David	WEAF WEEI WJAR WCSH WFI WRC WTMJ WSM WERC WCAE WGY WTAG WTAM WDJF WSAI KSD WOC WHO WOW WDAF WSB WAPI WSMB WJDX WENR WHAS
9:45-10:00 A. & P. Program	WEAF WJAR WTAG WCSH WRC WGY WCAE WTAM WWJ WOC KSD WHO WDAF WTMJ WERC WRVA WPTF WIOD WFLA WSUN WHAS WSM WMC WSB WAPI WSMB WJDX KVOO WBAP KPRC WOAI WKY WBEN WOV WFI KSTP	6:45-7:00 Literary Digest Topics	WJZ WBZ WBZA WHAM WBAL KDKA WRVA WPTF WJAX WIOD WLW WFLA WSUN
11:15-11:30 Radio Household Institute	WEAF WJAR WTAG WCSH WLIT WRC WHAS WSM WSB WCAE WWJ WSAI KFJK WTAM KSD WTMJ KSTP WBCB WAPI WSMB WOAI KTHS KVOO KPRC WKY WEEI WGY WMC WBEN	7:00-7:15 Amos 'n' Andy	WJZ WHAM KDKA WBZ WBZA WRC CKGW WRVA WPTF WJAX WIOD WCKY WFLA WSUN WLW WJR WGAR
12:00-12:30 Paul Tremaine and His Orchestra	WABC WHEC WLBZ WORC WPG WCAU WHP WJAS WLBW WMAL WCAO WTAR WDBJ WHK WKRC WAIU WUNC WDOD WREC WLAC WBRC KSCJ WMT KMBC WDAY KOIL WIBW KFJF KLZ	7:30-7:45 Phil Cook — Quaker Man	WJZ WBZ WBZA WHAM KDKA WREN KWK WTMJ WERC KOA KSL KGO KECA KGW WRC KOMO KHQ KFSD KTAR WGAR WSMB WSB WPTF WJAX WIOD WFLA WHAS WSM WMC WJDX KTHS KPRC WOAI
12:30-1:00 Columbia Revue	WABC WLBZ WORC WPG WCAU WHP WJAS WLBW WMAL WCAO WTAR WXYZ WBCM WDOD WREC WLAC WBRC KSCJ WMT KMBC WDAY WIBW KFJF KLZ	8:00-8:15 Literary Digest Topics	WFBL WGR WJAS WADC WHK WGST WXYZ WSPD WREC WBRC WDSU WFBM WGL WMAQ WCOO WMOX KMBC KOIL KFJF WRR K TSA
12:30-1:30 National Farm and Home Hour	WJZ WHAM WJR KSTP WRVA WHAS WREN WFAA WERC WIOD WAPI WOW WMC WSB WGAR KVOO WKY WOAI WRC WHO WDAF WJDX WBAL WSMB KWK KOA WBZ WBZA WOC KTHS WFLA WSUN WJAX KFAB KPRC KDKA WLW KFJK WPTF WSM	11:00-11:15 Amos 'n' Andy	WMAQ WREN KWK WDAF WTMJ WHAS WSM WSB WKY WENR KSTP WSMB WJDX KTHS KPRC WERC WOAI WMC KOA KFAB WBAP
1:30-2:00 Ambassador Hotel Orchestra	WABC WHEC WLBZ WEAN WPG WFAJ WJAS WLBW WMAL WCAO WTAR WDBJ WKRC WAIU WUNC WXYZ WBCM WDOD WLAC WBRC	11:30-11:45 Amos 'n' Andy	KECA KSL KGO KOMO KHQ KGW KFSD

Sunday

1:30-2:00 Conclave of Nations	WABC WHEC WPG WHP WMAL WCAO WTAR WDBJ WAIU WUNC WXYZ WBCM WDOD WREC WLAC WBRC WBBM WCOO KSCJ WMT KMOX KMBC WDAY KOIL WIBW KFJF K TSA KLZ
1:30-2:00 Neapolitan Days	WEAF WWJ WDAF WTAM WIBO WCAE

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

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

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

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

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

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

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

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

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

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

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

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

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

9:30-10:00 General Motors Family Party
 WEAJ WEEL WJAR WCHS WTAG WLIT
 WRC WGY WCAE WTAM WJW WGN
 KSD WOC WQOW WSAI WDAF KSTP
 WTMJ WHAS WSM WMC WSB KPRC
 WJAX WFAA WQAI WKY KOA KSL
 KGO KGW KFI KOMO KHQ WTIC
 WHO WBEN WCAE

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

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

10:00-10:30 Stromberg-Carlson Program
 WJZ WBZ WBZA WHAM KDKA
 KWK WREN WEBC WRVA WJA
 WHAS WSM WMC WSB WSMJ
 KOA KPRC KGO KFI WCI
 KHQ KOMO WJDX WFLA WSI
 KTRAR KFSD WAPI WKY WG

10:00-10:30 Adventures of Sherlock Holmes
 WEAJ WJAR WCHS WWJ W
 WLIT WTAM WSAI WRC W
 WHO WBEN WCAE

10:30-11:00 Empire Builders
 WJZ WBZ WBZA WHAM
 WLW KYW KWK WREN
 KSTP WREC KOA KSL
 KGW KOMO KHQ KTRAR
 WBAP KPRC WGAR

Monday

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

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

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

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

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

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

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

7:00-7:15 Current Events
 WDBJ WKRC WNNC WXYZ WBCM WDOD
 WBRC KSCJ WMT WDAY KOIL WABC
 WHEC WLBZ WORC WHP WJAS WLBW
 WMAL WCAO WTAR WIBW KFH KFJF
 KTRH KOL KFRC

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

7:30-8:00 Colonial Beaconsights
 WEAJ WEEL WJAR WTAG WCHS WGY
 WBEN

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

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

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

10:30-11:00 Don Amaizo
 WACU WHP WJAS WLWB WADC WHK
 WKRC WCAH WKBN WSPD WISN WBBM
 WCCO KSCJ WMT WDAY WNAK KOIL
 KLZ KDYL KOL KFJF KOIN KHJ
 KFRC KNX

11:00-11:15 Musical Aviators Orchestra
 WABC WLWB WORC WPG WCAU WLWB
 WCAO WJAR WDBJ WNBC WXYZ WBCM
 WSPD WDDO WREC WLAC WBRB WFBM
 WCCO KSCJ WMT KMOX KMBC WDAY
 WNAX KOIL WIBW KFH KFJF KTRH
 KLZ

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

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

11:30-12:00 Fletcher Henderson and His Orchestra
 WABC WLWB WORC WLWB WMAL WCAO
 WJAR WDBJ WHK WKRC WNBC WXYZ
 WBCM WDDO WREC WLAC WBRB WFBM
 WCCO KSCJ WMT KMBC WDAY WNAX
 KOIL WIBW KFH KFJF KTRH CFRB

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

Tuesday

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

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

4:00-4:30 Italian Idyll
 WABC WLWB WEAN WNAC WORC WPG
 WCAU WLWB WMAL WCAO WJAR WDBJ
 WKRC WAIU WNBC WXYZ WSPD WDDO
 WREC WLAC WBRB WBBM WCCO KSCJ
 WMT KMOX KMBC WDAY KOIL KFJF
 KTRH K TSA KLZ KFRC CFRB

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

5:00-5:30 Rhythm Kings
 WABC WHEC WFAN WHP WLWB WMAL
 WCAO WJAR WAIU WNBC WXYZ WBCM
 WDDO WREC WLAC WBRB WCCO KSCJ
 WMT KMBC WDAY KFJF KRLD KTRH
 K TSA KLZ

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

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

8:00-8:30 Rhythm Choristers
 WABC WLWB WORC WPG WCAU WJAS
 WLWB WMAL WCAO WJAR WDBJ WKRC
 WNBC WXYZ WSPD WDDO WREC WLAC
 WCCO WMT KMBC WDAY WNAX KOIL
 WIBW KFH KFJF KTRH K TSA KOL
 KFRC

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

8:00-8:30 Blackstone Plantation
 WFAF WCAE WTAM WWJ WSAI WBO
 KSD WOC WHO WOW WDAF KOA
 WEEI WJAR WTAG WCSH WFI WRC
 WGY WBEN

8:30-9:00 Florsheim Frolic
 WFAF WTAG WFI WRC WGY WCAE
 WWJ WSAI WGN KSD WDAF WEBC
 WRVA KVOO WJAX WIOD WSUN WFLA
 WSM WMC WSB WSBM WJDX KPRC
 WOI WKY KOA KSL KTHS WJAR
 WHAS WCSH WBAP WBEN KSTP

8:45-9:00 Premier Salad Dressers
 WABC WFBL WKBW WEAN WDRG WNAC
 WCAU WJAS WMAL WCAO WADC WHK
 WGST WTOC WQAM WDBO WDAE WXYZ
 WSPD WLAC WDSU WOWO WCCO KMOX
 KMBC KOIL KTRH KLZ KDYL KVI
 KOL KFJF KOIN KHJ KFRC

9:00-9:30 McKesson Musical Magazine
 WFAF WEEI WJAR WTAG WCSH WFI
 WRC WBEN WTAM WSAI KSD WOW
 WTMJ WEBC WRVA WIOD WFLA WSUN
 WSM WMC WSB WSBM WJDX KPRC
 WKY KOA KSL KGO KECA K TAR
 KFSD KGW KOMO KHQ KVOO WOI

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

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

9:30-10:00 The Philco Symphony Concert
 WABC WFBL WHEC WKBW WEAN WDRG
 WNAC WCAU WJAS WMAL WCAO WTPD
 WADC WHK WKRC WGST WXYZ WSPD
 WDDO WREC WLAC WBRB WDSU WISN
 WOWO WFBM WMAQ WCCO WMT KMOX
 KMBC KOIL KFH KFJF KRLD KTRH
 K TSA CFRB

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

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

10:00-10:15 Graybar — Mr. and Mrs.
 WADC WCAO WNAC WKBW WBBM WKRC
 WHK WXYZ WOWO KMBC WABC WLWB
 KOIL WCAU WJAS WEAN KMOX WFBL
 WSPD WMAL WNBC WGST WBRB KRLD
 KLZ KTRH WFBM WIRA WCCO WISN
 WREC WJAR WLAC WDSU KFJF WHEC
 WDBJ K TSA KDYL KFH WKBN KHJ
 KOIN KFRC KOL KFJF

10:00-10:30 Westinghouse Pioneers
 WJZ WBZ WBZA WBAL KDKA KYW
 KWK KPRC WEBC WJAX WHAS WSM
 WMC WSBM KGW KOA KSL KGO
 KHQ WTMJ KOMO WREN WRVA WOI
 WSB WIOD WCKY WFLA WSUN KECA
 KSTP K TAR KFSD WJR WAPI WGAR
 WFAA WHAM WCKY

10:00-11:00 Lucky Strike Dance Orchestra
 WFAF WEEI WJAR WTAG WCSH WFI
 WRC WCAE WWJ WSAI KSD WOC
 WHO WTMJ WEBC WRVA WJAX WIOD
 WFLA WSUN WHAS WSM WMC WSB
 WSBM WJDX WOI WKY KOA KGO
 KECA KGW KHQ KOMO K TAR KFSD
 WBO WDAF WTAM WAPI WBEN

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

10:30-11:00 Paramount Public Playhouse
 WABC WFBL WHEC WKBW WLWB WEAN
 WDRG WNAC WPG WCAU WEP WJAS

WMAL WCAO WTAR WDBJ WADC WHK
 WKRC WKBN WWNC WBT WGST WTOG
 WQAM WDBO WDAE WXYZ WBCM WSPD
 WDOD WREC WLAC WBRC WDSU WISN
 WOWO WFBM WBBM WCCO KSCJ WMT
 KMOX KLRA WDAY WNAK KOIL WIBW
 KFH KFJF KRLL KTRH K TSA KLZ
 KDYL KOL KFPY KOIN KEJ KFRC
 KNX CFRB

11:00-11:30 Duke Ellington and His Orchestra
 WEAFF WFI WRC WFJC KSD WWJ
 WSAI WOC WHO CKGW WEI WBEN
 WDAF

11:00-11:30 Paul Tremaine and His Orchestra
 WABC WHEC WLZB WEAN WNAK WORC
 WCAU WHP WLWB WCAO WTAR WDBJ
 WWNC WXYZ WSPD WDOD WREC WLAC
 WFBM WCCO WMT KMOX KMBC WDAY
 WNAK KOIL WIBW KFH KFJF KTRH
 KLZ KOL CFRB

11:30-12:00 Vincent Lopez and His Orchestra
 WEAFF WFI KOA WRC KSTP WOC
 WHO WOW WJDX KSD WTAM WDAF
 WBEN

Wednesday

11:45-12:00 The Recitalists
 WJZ WBAL KFAB WECB WKY KOA
 WGAR

11:45-12:00 Sunny Side Up
 WEAFF WEI WJAR WTAG WSSH WLIT
 WRC WBEN WCAE WWJ WSAI WDAF
 WTAM KFXX

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

3:30-3:45 Syncoated Silhouettes
 WABC WHEC WLZB WORC WPG WCAU
 WHP WLWB WMAL WCAO WTAR WDBJ
 WHK WKRC WAIU WWNC WXYZ WBCM
 WSPD WDOD WREC WLAC WBRC WFBM
 WBBM WCCO KSCJ WMT KMBC WDAY
 WIBW KFJF KTRH KLZ CFRB

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

5:00-5:30 Asbury Park Casino Orchestra
 WABC WHEC WFAN WHP WLWB WCAO
 WTAR WAIU WWNC WXYZ WBCM WDOD
 WREC WLAC WBRC WCCO KSCJ WMT
 WDAY KFH KFJF KRLL KTRH K TSA
 KLZ

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

7:00-7:30 Morton Downey — With Freddie Rich
 WABC WHEC WLZB WEAN WNAK WORC
 WCAU WHP WJAS WLWB WMAL WCAO
 WTAR WDBJ WKRC WAIU WWNC WXYZ
 WBCM WDOD WLAC WBRC KSCJ WDAY
 WIBW KFJF KTRH KOL KFRC

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

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

7:45-8:00 The Vagabonds
 WABC WHEC WLZB WEAN WNAK WORC
 WCAU WJAS WLWB WMAL WTAR WDBJ
 WKRC WAIU WWNC WXYZ WBCM WDOD

WREC WLAC WBRC WFBM WMAQ WCCO
 KSCJ KMOX KMBC WDAY KFJF KRLL
 KTRH KFRC
8:00-8:15 Listerine Program—Bobby Jones
 WEAFF WEI WTIC WJAR WTAG WSSH
 WLIT WRC WBEN WTAM WWJ WSAI
 KSD WOC WHO WOW WPTF WIOD
 WFLA WSUN WHAS WSM WSB WSMB
 WJDX WFAA WOAI KOA

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

8:15-8:30 Radiotron Varieties
 WEAFF WTIC WJAR WTAG WRC WBEN
 WTAM WSAI WIMO KSD WOW WIOD
 WSM WSB WSMB WJDX WOI KOA
 KHQ KOMO KFSD KTAR KECA KSL
 KGO KOA KVOO

8:15-8:30 U.S. Marine Band
 WABC WLZB WEAN WNAK WORC WJAS
 WLWB WMAL WTAR WDBJ WWNC WXYZ
 WBCM WSPD WDOD WREC WLAC WBRC
 WFBM KSCJ WMT KMOX KMBC WDAY
 WNAK KFJF KRLL K TSA KOL KFRC
 CFRB

8:30-9:00 Mobiloil Concert
 WEAFF WEI WJAR WTAG WSSH WLIT
 WRC WSAI KSD WOV WTAM KOA
 KVOO WFAA WOAI WKY KPRC WTC
 KSL WGY WGN WECB WDAF WCAE
 WIO WOC WWJ WBEN

8:30-9:00 Tosca Seidel and Concert Orchestra
 WABC WLZB WNAK WORC WPG WCAU
 WJAS WLWB WMAL WTAR WDBJ WWNC
 WXYZ WBCM WSPD WDOD WREC WLAC
 WMAQ KSCJ WMT KMOX KMBC WDAY
 WNAK KOIL KFH KFJF KRLL KTRH
 K TSA KLZ KFRC CFRB

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

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

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

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

9:30-10:00 La Palina Smoke Dreams
 WABC WFBL WKBW WEAN WNAK WCAU
 WJAS WLWB WMAL WCAO WADN WHK
 WKRC WXYZ WSPD WREC WBSN WOWO
 WBBM WCCO KMOX KMBC KOIL

10:00-10:30 Crescendo
 WABC WHEC WLZB WEAN WNAK WORC
 WPG WCAU WJAS WLWB WMAL WTAR
 WDBJ WKRC WWNC WXYZ WBCM WSPD
 WDOD WLAC WBRC WFBM WMAQ KSCJ
 WMT KMOX KMBC WDAY WNAK WIBW
 KFJF KTRH K TSA KLZ KOL CFRB

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

10:30-11:00 Coca Cola Program
 WEAFF WEI WTIC WJAR WTAG WSSH

WLIT	WRC	WCAE	WSAI	WOC	WEBC	WCAU	WJAS	WMAL	WCAO	WADC	WKRC
WKY	KYW	KSD	WRVA	KSTP	WJAX	WKXY	WSPD	WISN	WFWM	WJDD	WCCO
WIOD	WSM	WSMB	KTHS	KPRC	WOAI	KMOX	KMBC	KOIL			
KOA	KSL	KGO	KECA	KGW	KHQ						
KOMO	WDY	WGY	WDAF	WHAS	WTAM						
WEO	WOW	KFSD	WMC	WSB	WWJ						
WAPI	WBEN										
11:00-11:30	Guy Lombardo and His Orchestra										
WABC	WHEC	WLBZ	WEAN	WNAC	WORC	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WPG	WCAU	WLBW	WCAO	WTAR	WDBJ	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WHK	WWNC	WXYZ	WBCM	WSPD	WDOD	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WREC	WFBM	WCCO	KSCJ	WMT	KMOX	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KMBC	WDAY	WNAX	KOIL	WIBW	KFH	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KFJF	KTRH	KLZ	KOL	CFRB		WRC	WCAU	WJAS	WMAL	WCAO	WADC
11:00-11:30	Vincent Lopez and His Orchestra										
WEAF	WFLA	WSUN	WRC	WCAE	KSD	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WOW	WJDX	WGY	WLIT	(WWJ)	WTAM	WRC	WCAU	WJAS	WMAL	WCAO	WADC
off 11:15)		(WSM	WOC	WHO	WDAF	WRC	WCAU	WJAS	WMAL	WCAO	WADC
on 11:15)						WRC	WCAU	WJAS	WMAL	WCAO	WADC
11:30-12:00	Musical Aviators' Orchestra										
WABC	WHEC	WLBZ	WEAN	WNAC	WORC	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WCAU	WLBW	WCAO	WTAR	WDBJ	WKRC	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WWNC	WXYZ	WBCM	WDOD	WREC	WBRC	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WFBM	WCCO	KSCJ	WMT	KMBC	WDAY	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WNAX	KOIL	WIBW	KFH	KFJF	KTRH	WRC	WCAU	WJAS	WMAL	WCAO	WADC
CFRB						WRC	WCAU	WJAS	WMAL	WCAO	WADC

Thursday

10:00-10:15	Ceresota Program										
WEAF	WJAR	WTAG	WCBS	WFI	WRC	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WGY	WCAE	WWJ	WSAI	KYW	KSTP	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WRVA	WTAM	WBEN	WOC	WHO		WRC	WCAU	WJAS	WMAL	WCAO	WADC
11:30-11:45	Odorono-Cutex Program										
WJZ	WHAM	KDKA	KWK	WREN	WLW	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WIBO	KPRC	WKY	WOAI	WBZ	WBZA	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KVOO	WJR	WFAA				WRC	WCAU	WJAS	WMAL	WCAO	WADC
3:00-4:00	U.S. Navy Band										
WABC	WHEC	WLBZ	WEAN	WNAC	WORC	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WCAU	WHP	WLBW	WMAL	WCAO	WTAR	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WDBJ	WHK	WKRC	WAU	WWNC	WXYZ	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WBCM	WSPD	WDOD	WREC	WBRC	WFBM	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WBBM	WCCO	KSCJ	WMT	KMOX	KMBC	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WDAY	KOIL	WIBW	KFJF	KRLD	KTRH	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KLZ	CFRB					WRC	WCAU	WJAS	WMAL	WCAO	WADC
3:30-3:45	Chicago Serenade										
WJZ	KDKA	WJR	WREN	KFAB	KOA	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WLW	WSM	WMC	WAPI	WFLA	WSUN	WRC	WCAU	WJAS	WMAL	WCAO	WADC
CKGW						WRC	WCAU	WJAS	WMAL	WCAO	WADC
4:30-5:00	U. S. Army Band										
WJZ	WLW	KWK	WREN	KFAB	WJAX	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WSM	KSTP	WSMB				WRC	WCAU	WJAS	WMAL	WCAO	WADC
5:30-5:45	Rinso Talkie										
WEAF	WEEI	WTIC	WTAG	WJAR	WLIT	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WRC	WGY	WBEN	WCAE	WTAM	WWJ	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KSD	WOC	WHO	WSAI	KYW		WRC	WCAU	WJAS	WMAL	WCAO	WADC
7:00-7:30	Mid-Week Federation Hymn Sing										
WEAF	WMC	WIBO	WWJ	WHAS	WOC	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WHO	KOA	WBEN				WRC	WCAU	WJAS	WMAL	WCAO	WADC
7:30-8:00	Voice of Columbia										
WABC	WLBZ	WEAN	WNAC	WORC	WCAU	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WJAS	WLBW	WCAO	WTAR	WDBJ	WKRC	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WWNC	WXYZ	WBCM	WDOD	WREC	WLAC	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WBRC	WFBM	WMAQ	KSCJ	WMT	KMOX	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KMBC	WDAY	KFJF	KTRH	KFRC		WRC	WCAU	WJAS	WMAL	WCAO	WADC
7:45-8:00	Friendly Five Footnotes										
WJZ	WBZ	WBZA	WREN	KWK	KFAB	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WHAS	WSM	WMC	WSB	WAPI	WSMB	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WJDX	WRVA	WPTF	WJAX	WIOD	WFLA	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WSUN	KGO	KECA	KOMO	KHQ	KTR	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KFSD	WBAL	KDKA	WIBO	KOA	KSL	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WGAR						WRC	WCAU	WJAS	WMAL	WCAO	WADC
8:00-9:00	Fleischmann Hour — Rudy Vallee										
WEAF	WEEI	WTAG	WJAX	WIOD	WJDX	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WJAR	WCBS	WFI	WRC	WGY	WCAE	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WHO	WOW	WDAF	WWJ	WHAS	KTR	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WMC	WSB	WSMB	WEBC	KOA	WRVA	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KSL	KOMO	WOAI	WSM	WOC	WAPI	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KGO	KHQ	KECA	KSD	CKGW	WTAM	WRC	WCAU	WJAS	WMAL	WCAO	WADC
.KGW	KSTP	WGN	KPRC	WBEN	(WTMJ)	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KTHS	WSAI	WBAP	WKY	of 8:30)		WRC	WCAU	WJAS	WMAL	WCAO	WADC
8:15-8:30	Barbasol Program										
WABC	WFBL	WKBW	WEAN	WDRC	WNAC	WABC	WFBL	WGR	WEAN	WDRC	WNAC

8:30-8:45	Kaltenborn Edits the News										
WABC	WFBL	WGR	WEAN	WDRC	WNAC	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WRC	WCAU	WJAS	WMAL	WCAO	WADC	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WKK	WKRC	WXYZ	WSPD	WOWO	WMAQ	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WCCO	KMOX	KMBC	KOIL			WRC	WCAU	WJAS	WMAL	WCAO	WADC
8:45-9:00	The Hamilton Watchman										
WABC	WFBL	WGR	WEAN	WDRC	WNAC	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WJAS	WLBW	WMAL	WCAO	WADC	WCAU	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WKRC	WXYZ	WSPD	WOWO	WJDD	KMOX	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KMBC	KOIL					WRC	WCAU	WJAS	WMAL	WCAO	WADC
9:00-9:30	Knox-Dunlap Orchestra										
WJZ	WBZ	WBZA	WBAL	WHAM	KDKA	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WIBO	KWK	WREN	WCKY			WRC	WCAU	WJAS	WMAL	WCAO	WADC
9:00-9:30	Savino Tone Pictures										
WABC	WHEC	WLBZ	WRC	WFAN	WHP	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WJAS	WLBW	WMAL	WCAO	WTAR	WDBJ	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WHK	WKRC	WWNC	WXYZ	WBCM	WSPD	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WDOD	WLAC	WBRC	WFBM	WCCO	KSCJ	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WMT	WDAY	WNAX	KOIL	KFH	KFJF	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KRLD	KTSA	KLZ	KOL	KFRC		WRC	WCAU	WJAS	WMAL	WCAO	WADC
9:00-9:30	Arco Birthday Party										
WEAF	WEEI	WJAR	WTAG	WCBS	WFI	WRC	WCAU	WJAS	WMAL	WCAO	WADC
CKGW	WRC	WGY	WSB	WSM	WIOD	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WJAX	WOAI	KOA	KSL	WKY	WBAP	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WRVA	WSTP	WWJ	WSAI	KSD	WDAF	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KYW	WCAE	WEBC	WOW	WSMB	WJDX	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WOC	WFJC	WTMJ	WMC	WHO	KGO	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KECA	KOMO	KHQ	KGW	WAPI	WTAM	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WBEN						WRC	WCAU	WJAS	WMAL	WCAO	WADC
9:30-10:00	Jack Frost's Melody Moments										
WEAF	WJAR	WTAG	WCBS	WFI		WRC	WCAU	WJAS	WMAL	WCAO	WADC
WRC	WCAE	WSAI	WTAM	WIBO	WGY	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WBEN						WRC	WCAU	WJAS	WMAL	WCAO	WADC
9:30-10:00	Detective Story Magazine										
WABC	WFBL	WKBW	WEAN	WDRC	WNAC	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WCAU	WJAS	WMAL	WCAO	WADC	WRC	WCAU	WJAS	WMAL	WCAO	WADC	WDRC
WKRC	WXYZ	WSPD	WOWO	WBBM	KMOX	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KMBC	KOIL					WRC	WCAU	WJAS	WMAL	WCAO	WADC
9:30-10:00	Maxwell House Ensemble										
WJZ	WBZ	WBZA	WBAL	WLW	KSTP	WJZ	WBZ	WBZA	WBAL	WLW	KSTP
WKY	WTMJ	WEBC	WHAS	WSM	WJAX	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KPRC	KOA	WRVA	WSB	WBAP	KYW	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KWK	WREN	WIOD	WJR	WSMB	WOAI	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KECA	KGW	KOMO	KHQ	WAPI	WMC	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WHAM	KDKA	KSL	KGO			WRC	WCAU	WJAS	WMAL	WCAO	WADC
10:00-10:30	The Lutheran Hour										
WABC	WFBL	WKBW	WEAN	WDRC	WNAC	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WCAU	WJAS	WMAL	WCAO	WADC	WRC	WCAU	WJAS	WMAL	WCAO	WADC	WDRC
WKRC	WXYZ	WSPD	WDSU	WOWO	WBBM	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WCCO	WMT	KMOX	KMBC	WNAX	KOIL	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KRLD	KLZ	KDYL	KOL	KFPY	KOIN	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KHJ	KFRC					WRC	WCAU	WJAS	WMAL	WCAO	WADC
10:00-11:00	Lucky Strike Dance Orchestra										
WEAF	WEEI	WJAR	WTAG	WCBS	WFI	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WRC	WGY	WCAE	WWJ	WSAI	WBEN	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KSD	WOW	WKY	WOAI	KOA	KSL	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WTMJ	WOD	WHAS	WSM	WMC	WSMB	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KYW	KVOO	WDAF	WJAX	KPRC	WEBC	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WRVA	WFLA	WSUN	WSB	WFAA	KFSD	WRC	WCAU	WJAS	WMAL	WCAO	WADC
KTR	(KGO)	KGW	KFI	KOMO	KHQ	WRC	WCAU	WJAS	WMAL	WCAO	WADC
off 10:30)		(WOC	WHO	KTHS	on 10:30)	WRC	WCAU	WJAS	WMAL	WCAO	WADC
10:30-11:00	Poet's Gold										
WABC	WHEC	WLBZ	WEAN	WNAC	WORC	WABC	WFBL	WGR	WEAN	WDRC	WNAC
WCAU	WHP	WJAS	WLBW	WMAL	WCAO	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WTAR	WDBJ	WWNC	WXYZ	WBCM	WSPD	WRC	WCAU	WJAS	WMAL	WCAO	WADC
WDOD	WLAC	KSCJ									

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

Friday

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

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

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

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

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

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

8:00-9:00 Cities Service Concert Orchestra
WEAF WEEL WITC WLIT WRC WCAE
WJAR WCSH WOV KYW KSD WDAF
KSTP WTMJ WKY WOC KOA WBCB
WOAI KOMO EGO KGW KHQ KSL
WTAG CKGW KECA WHO WSAI WTAM
WBEN WWJ (WFAA KPRC off 8:30)

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

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

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

9:00-9:30 Clicquot Club Eskimos
WEAF WEEL WITC WJAR WTAG WCSH
WLIT WRC WOV WCAE WSAI WIBO
KSD WWJ WDAF WOC WHO WGY
WBEN

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

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

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

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

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

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

10:00-10:30 Columbia Male Chorus
WABC WHEC WEAN WDRC WNAC WORC
WPG WJAS WCAO WTAR WADC WHK
WKRC WWNC WSPD WDOD WLAC WSN
WOWO WMAQ WCCO KSCJ KMOX KLRa
WDAY WNAX KOIL KFJF KRLD KTSa
KLZ

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

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

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

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

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

Saturday

10:30-11:00 New World Salon Orchestra
WABC WHEC WLBZ WEAN WDRC WNAC
WORC WJAS WMAL WDBJ WAU WWNC
WXYZ WDOD WBCM WREC WLAC WFBM
KSCJ WMT KMBC WDAY KOIL KFJF
KRLD KTSa CFRB

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

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

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

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

540 kilocycles 555.6 meters

CKX † 500 --- Brandon, Manitoba

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Manitoba Telephone System

550 kilocycles 545.1 meters

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

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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.
 WPCC * 500 3S Chicago, Ill.
 WQAM * 1000 C Miami, Fla.

3		
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Magnolia Petroleum Co.
 Reynolds Radio Co., Inc.
 Associated Broadcasters
 Strawbridge & Clothier
 Nelson Bros. Bond & Mortgage Co.
 Lit Brothers
 Sterchi Bros.
 North Shore Congregational Church
 Miami Broadcasting Co.

570 kilocycles 526.0 meters

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

168		
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Wichita Falls Broadcasting Co.
 KMTR Radio Corp.
 American Radio Tel. Co.
 Ohio State University
 W. P. Williamson, Jr.
 Clive B. Meredith
 Knickerbocker Broadcasting Co., Inc.
 House of Gurney, Inc.
 Dept. of Plants and Structures
 Clive B. Meredith
 Citizens Broadcasting Co., Inc.

580 kilocycles 516.9 meters

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

113		
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Dominion Battery Co.
 Christian and Missionary Alliance
 The Dominion Battery Co.
 Canadian National Carbon Co., Ltd.
 University of Alberta
 Dana McNeil
 State Agricultural College
 Topeka Broadcasting Assn., Inc.
 WOBW, Inc.
 WSAZ, Inc.
 Telegram Publishing Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

137		
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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. ✓
 WOW * 1000 1N Omaha, Nebr. ✓
 XEZ * 500 588 Mexico City ✓

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

KCYS.
670
 MTRS.
447.5
 DIAL

600 kilocycles 499.7 meters

137		
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CJRM † 500 4 Moose Jaw, Sask.
 CJRW -- 500 4 Fleming, Sask.
 CNRO -- 500 3 Ottawa, Ont.
 KFSD * 500 +N San Diego, Cal. ✓
 WCAC -- 250 2+ Storrs, Conn.
 WCAO -- 250 C Baltimore, Md.
 WGBS † 250 2+ New York City
 WMT * 500 C Waterloo, Iowa ✓
 WOAN -- 500 1 Lawrenceburg, Tenn.
 WREC * 500 1+C Memphis, Tenn. ✓

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

610 kilocycles 491.5 meters

137		
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KFCR * 1000 C San Francisco, Cal. ✓
 WDAF * 1000 N Kansas City, Mo. ✓
 WFAN * 500 2C Philadelphia, Pa. ✓
 WIP * 500 2 Philadelphia, Pa. ✓
 WJAY † 500 D Cleveland, Ohio ✓

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

620 kilocycles 483.6 meters

145		
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KGW * 1000 +N Portland, Ore. ✓
 KTAR * 500 +N Phoenix, Arizona ✓
 WFLA * 1000 1+N Clearwater, Fla. ✓
 WLWB * 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

147		
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CFTT * 500 --- Victoria, B. C.
 CJGX -- 500 --- Yorkton, Sask.
 CNRA * 500 --- Moncton, N. B.
 KFUR * 500 1 Columbia, Mo. ✓
 WCBF † 500 1 Evansville, Ind. ✓
 WMAL * 250 1+C Washington, D. C.
 WOS * 500 1 Jefferson City, Mo. ✓
 XFE -- 350 632 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

150		
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KFI -- 5000 NX Los Angeles, Cal. ✓
 WAIU * 500 C Dn Columbus, Ohio ✓
 WOI * 5000 D Ames, Iowa ✓
 XFG -- 2000 638 Mexico City ✓

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

650 kilocycles 461.3 meters

151		
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KPCB -- 100 Dn Seattle, Wash.
 WSM * 5000 N Nashville, Tenn. ✓

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

660 kilocycles 454.3 meters

135		
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CMCO -- 50 --- Buen Retiro, Cuba
 WAAW * 500 D Omaha, Neb.
 WEAF † 50000 N New York City ✓

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

KOL 570 kilocycles 447.5 meters

152		
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WMAQ * 5000 C Chicago, Ill. ✓
 KOMCO -- 101 674 Mexico City ✓

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.
 XETF -- 500 --- Veracruz, Mex.

123

Serogin & Co., Bank
 Hale Bros. & The Chronicle
 Durham Life Insurance Co.
 Manuel Angel Fernandez & Cia.

690 kilocycles 434.5 meters

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

120

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

112

Crosley Radio Corp.

710 kilocycles 422.3 meters

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

R. S. MacMillan
 Bamberger Broadcasting Service, Inc.

720 kilocycles 416.4 meters

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

111

Chicago Tribune
 Wesley United Church

730 kilocycles 410.7 meters

CHLS -- 50 1 Vancouver, B. C.
 CHYC * 5000 2C 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 -- 5000 --- Havana, Cuba
 CNRM * 5000 2 Montreal, Que.
 XEN † 1000 732 Mexico City

108

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

740 kilocycles 405.2 meters

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

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

750 kilocycles 399.8 meters

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

107.101

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

1014

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

770 kilocycles 389.4 meters

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

99

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

780 kilocycles 384.4 meters

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

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

WISJ	--	250	+	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

73		
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CMBS	--	150	---	Havana, Cuba
CMHC	--	500	791	Tuinucu, Cuba ✓
KGO	†	7500	N	San Francisco, Cal. ✓
WGY	†	50000	N	Schenectady, N. Y. ✓

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

800 kilocycles 374.8 meters

91		
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WBAP	†	10000	1XN	Fort Worth, Texas ✓
WFAA	--	50000	1N	Dallas, Texas ✓
XEU	--	50	---	Veracruz, Mex.
XFC	--	350	805	Jalapa, Mex.

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

KCYS.
880
MTRS.
340.7
DIAL

810 kilocycles 370.2 meters

89		
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WCCO	*	7500	C	Minneapolis, Minn. ✓
WPCB	*	500	D	New York City

Northwestern Broadcasting, Inc.
Eastern Broadcasters, Inc.

820 kilocycles 365.6 meters

81		
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WHAS	†	10000	N	Louisville, Ky. ✓
XFI	--	1000	818	Mexico City ✓

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

830 kilocycles 361.2 meters

83		
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CMGA	--	300	834	Colon, Cuba
KOA	†	12500	N	Denver, Colo. ✓
WHDH	--	1000	D	Boston, Mass.
WRUF	*	5000	Dn	Gainesville, Fla. ✓
XBG	--	2000	829	Mexico City, Mex. ✓

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

840 kilocycles 356.9 meters

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CFCFA	†	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.

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

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

Hello World Broadcasting Corp.
United States Navy
Loyola University

860 kilocycles 348.6 meters

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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.
XFZ	--	500	859	Mexico City, Mex.

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

870 kilocycles 344.6 meters

77+		
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WENR	--	50000	1N	Chicago, Ill. ✓
WLS	†	5000	1XN	Chicago, Ill. ✓

Great Lakes Broadcasting Co.
Agricultural Broadcasting Co.

880 kilocycles 340.7 meters

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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. ✓
KFA	--	500	---	Oakland, Cal.

The Hamilton Spectator
Maple Leaf Radio Co., Ltd.
E. Fontaine
N. Nathanson
Le "Soleil," Ltd.
G. A. Vandy
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

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

890 kilocycles 336.9 meters

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

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

900 kilocycles 333.1 meters

CMCF	†	250	---	Havana, Cuba
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.

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

910 kilocycles 329.6 meters

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

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

920 kilocycles 325.9 meters

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

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

930 kilocycles 322.4 meters

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

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

940 kilocycles 319.0 meters

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

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

950 kilocycles 315.6 meters

CMCO	*	1000	955
KFWB	**	1000	---
KGHL	**	1000	---
KMBC	**	1000	C
WRC	†	500	N

Havana Cuba
Hollywood, Cal.
Billings, Mont.
Kansas City, Mo.
Washington, D. C.

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
CFRB	*	4000	2C
CHCK	--	30	1
CHWC	**	500	3
CJBR	**	500	3
CKKC	†	500	3
CNRR	--	500	3
CNRX	*	4000	2
XED	*	10000	961

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

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	---
WCFL	--	1500	N Dn

Seattle, Wash.
Chicago, Ill.

Northwest Broadcasting System, Inc.
Chicago Federation of Labor

980 kilocycles 305.9 meters

KDKA	--	50000	N
XER	--	100	984

Pittsburgh, Pa.
Mexico City, Mex.

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

990 kilocycles 302.8 meters

CMBD	--	150	995
WBZ-A	†	15000	1N Y

Havana, Cuba
Springfield, Mass.

Luis Perez Garcia
Westinghouse Elec. & Mfg. Co.

1000 kilocycles 299.8 meters

KFVD	*	250	Dn
WHO	**	5000	1N
WOC	**	5000	1N
XEI	*	101	999
XEK	--	101	---

Culver City, Cal.
Des Moines, Iowa
Davenport, Iowa
Morelia, Mexico
Mexico City

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

1010 kilocycles 296.8 meters

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

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

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

1020 kilocycles 293.9 meters

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

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

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

1030 kilocycles 291.1 meters

CFCF	†	500	---
CNRV	†	500	---
XEB	†	1000	---

Montreal, Que.
Vancouver, B. C.
Mexico City, Mex.

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

1040 kilocycles 288.3 meters

KRLD	*	10000	1C
KTHS	§	10000	1N
WKAR	*	1000	D
WMAK	*	1000	Dn
XEV	--	101	1035

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

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

KCY5.
1040
MTRS.
288.3
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1050 kilocycles 285.5 meters

CMKC * 150 1045
 KFQB * 5000 Dn
 KNX * 5000 X

Santiago de Cuba
 Milford, Kansas
 Hollywood, Cal.

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

1060 kilocycles 282.8 meters

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

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

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

1070 kilocycles 280.2 meters

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

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

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

1080 kilocycles 277.6 meters

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

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

Station WBT, Inc.
 Wilbur Glenn Voliva
 Moody Bible Institute

1090 kilocycles 275.1 meters

KMOX * 50000 1CX
 XEL -- 10 1091

St. Louis, Mo.
 Saltillo, Coah.

Voice of St. Louis, Inc.
 Antonio Garza Castro

1100 kilocycles 272.6 meters

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

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

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

1110 kilocycles 270.1 meters

KSOO * 2000 Dn
 WRVA * 5000 N

Sioux Falls, S. D.
 Richmond, Va.

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

1120 kilocycles 267.7 meters

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

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

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

1130 kilocycles 265.3 meters

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

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

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
 WAPI -- 5000 1N

Tulsa, Okla.
 Birmingham, Ala.

Southwestern Sales Corp.
 Alabama Polytechnic Institute

2-1-1937 Review

INDEX BY FREQUENCIES AND DIAL NUMBERS

1150 kilocycles 260.7 meters

CMHJ -- 200 1154
WHAM * 5000 N

Cienfuegos, Cuba
Rochester, N. Y. ✓

40

--	--	--

Jose Ganduxe
Stromberg-Carlson Tel. Mfg. Co.

1160 kilocycles 258.5 meters

WOWO * 10000 1C
WWVA * 5000 1

Ft. Wayne, Ind. ✓
Wheeling, W. Va. ✓

39

--	--	--

Main Auto Supply Co.
West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

KTNT * 5000 Dn
WCAU * 10000 C

Muscatine, Iowa ✓
Philadelphia, Pa. ✓

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--	--	--

Norman Baker
Universal Broadcasting Co

1180 kilocycles 254.1 meters

KEX * 5000 2
KOB * 20000 2
WDGY * 1000 1 Dn
WHDI * 500 1 Dn

Portland, Ore. ✓
State College, N. M. ✓
Minneapolis, Minn. ✓
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
WOAI * 50000 N
XEX -- 500 --

Bridgeport, Conn. ✓
San Antonio, Texas ✓
Mexico City, Mex. ✓

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--	--	--

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

1200 kilocycles 249.9 meters

CFCH -- 50
KBTM -- 100 D
KFJB † 100 +
KFWF † 100 5
KGCU 100
KGDE * 100 +
KGDY 100
KGEK † 50 9
KGEW † 100 9
KGFJ † 100
KGHI † 100
KGY † 10 +
KMLB -- 50 D
KSMR -- 100
KVOS * 100
KWG * 100
WABI † 100
WABZ * 100 1
WBBZ * 100
WCAT † 100
WCAX * 100 2
WCLO † 100
WCOD † 100 3
WEHC * 100 +
WEPS † 100
WFBC * 50
WFBE 100 +
WHBC † 10 4S
WHBY † 100
WIBX † 100 +
WIL * 100 5+
WJBC * 100 6
WJBL † 100 6
WJBW * 100 1
WKJC * 100 3
WLAP † 100 +
WLBG * 100 +
WNBO * 100 4
WNBW † 10
WNBX † 10 2
WORC * 100 CX
WRAF * 100 8
WRBL † 50
WWAE -- 100 8
XEA -- 101
10-BP † 25

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

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

KCYC.
1200
MTRS.
249.9
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

32		
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CFCO	*	100	---	Chatham, Ont.
CFNB	*	50	---	Fredrickton, 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, Neb.
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.
WCBS	*	100	2	Springfield, Ill.
WCOH	*	100	3	Yonkers, N. Y.
WCRW	*	100	4	Chicago, Ill.
WDWF	*	100	5	Providence, R. I.
WEBO	†	100	6	Harrisburg, Ill.
WEBC	†	100	4	Chicago, Ill.
WGBB	†	100	3	Fairport, 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	---	Richmond, Va.
WMRJ	*	100	3	Jamaica, N. Y.
WOCJ	*	25	---	Jamestown, N. Y.
WOMT	*	100	---	Manitowish, Wis.
WPAW	*	100	5	Pawtucket, R. I.
WQDX	*	50	---	Thomasville, Ga.
WRBO	†	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.

Western Ontario "Better Radio" Clut
 James S. Neill & Sons, Ltd.
 Chilliwack Broadcasting Co., Ltd.
 G. C. Chandler
 R. L. MacAdam
 Metal Shingle & Siding Co.
 Donald Lewis Hathaway
 KDLR, Inc.
 Howard A. Shuman
 Hirsch Battery & Radio Co.
 J. C. & E. W. Lee
 Cutler's Radio Brdcastg. Service, Inc.
 Bryant Radio & Electric Co.
 Dodge City Broadcasting Co.
 James McClatchy Co.
 Pasadena Presbyterian Church
 Hello World Broadcasting Corp.
 Roy. W. Waller
 John H. Stenger, Jr.
 H. L. Dewing & Chas. Messter
 Westchester Broadcasting Corp.
 Clinton R. White
 Dutee W. Flint
 First Trust & Savings Bank
 Emil 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

33		
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CMCA	--	100	1225	Havana, Cuba
KFKU	*	500	1	Lawrence, Kans.
KWSC	*	1000	+	Pullman, Wash.
WCAD	*	500	D	Canton, N. Y.
WCAE	*	1000	N	Pittsburgh, Pa.
WDAE	*	1000	C	Tampa, Fla.
WREN	*	1000	1N	Lawrence, Kans.

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

1230 kilocycles 243.8 meters

32		
----	--	--

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.

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

31		
----	--	--

CMKX	†	1000	1	Holguin, Cuba
KTAT	†	1000	1	Ft. Worth, Texas
WACO	†	1000	1C	Waco, Texas
WXYZ	†	1000	C	Detroit, Mich.

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

W.K.H.C.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1250 kilocycles			239.9 meters			30		
KFMX	--	1000	2	Northfield, Minn.	✓	Carleton College		
KFOX	*	1000	---	Long Beach, Cal.	✓	Nichols & Warinner, Inc.		
KIDO	--	1000	---	Boise, Idaho		Boise Broadcasting Station		
WAAM	*	1000	1+X	Newark, N. J.		WAAM, Inc.		
WCAL	*	1000	2	Northfield, Minn.		St. Olaf College		
WDSU	--	1000	C	New Orleans, La.	✓	Jos. H. Uhalt		
WGCP	--	250	1	Newark, N. J.	✓	May Radio Broadcast Corp.		
WLB	†	1000	2	St. Paul, Minn.	✓	University of Minnesota		
WODA	--	1000	1	Paterson, N. J.		Richard E. O'Dea		
WRHM	*	1000	2	Minneapolis, Minn.	✓	Minnesota Broadcasting Corp.		

1260 kilocycles			238.0 meters			29		
KOIL	*	1000	C	Council Bluffs, Iowa	✓	Mona Motor Oil Co.		
KRGV	*	500	1	Harlingen, Texas		KRGV, Inc.		
KVOA	--	500	D	Tucson, Ariz.		Robert M. Riculfi		
KWVG	* 500	1		Brownsville, Texas		Herald Pub. Co.		
WLBW	* 500	C+		Oil City, Pa.		Radio-Wire Program Corp.		
WTOC	* 500	C		Savannah, Ga.		Savannah Broadcasting Co.		

1270 kilocycles			236.1 meters			28		
KFUM	*	1000	---	Colorado Springs, Colo.	✓	W. D. Corley		
KGCA	--	50	2D	Decorah, Iowa		Charles W. Greenley		
KOL	†	1000	3C	Seattle, Wash.		Seattle Broadcasting Co., Inc.		
KTW	--	1000	3	Seattle, Wash.		First Presbyterian Church		
✓ KWLC	*	100	2D	Decorah, Iowa		Luther College		
WASH	* 500	1		Grand Rapids, Mich.		WASH Broadcasting Corp.		
WEAI	* 1000	D		Ithaca, N. Y.		Cornell University		
WFBR	--	500	---	Baltimore, Md.	✓	Baltimore Radio Show, Inc.		
WJDX	--	1000	N	Jackson, Miss.	✓	Lamar Life Insurance Co.		
WOOD	--	500	1	Grand Rapids, Mich.		Walter B. Stiles, Inc.		

1280 kilocycles			234.2 meters					
CMCH	--	15	1285	Havana, Cuba		Hernani Torralbas		
KFBB	--	1000	+	Great Falls, Mont.		Buttreby Broadcast, Inc.		
WCAM	--	500	1	Camden, N. J.		City of Camden		
WCAP	--	500	1	Asbury Park, N. J.		Radio Industries Broadcast Co.		
WDDO	* 1000	+C		Chattanooga, Tenn.	✓	WDDO Broadcasting Corp.		
WIBA	*	500	---	Madison, Wis.	✓	Capital Times Co.		
WOAX	--	500	1	Trenton, N. J.		WOAX, Inc.		
WRR	--	500	C	Dallas, Texas	✓	City of Dallas		

1290 kilocycles			232.4 meters			26		
KDYL	*	1000	C	Salt Lake City	✓	Intermountain Broadcasting Corp.		
KFUL	--	500	1	Galveston, Texas		Will H. Ford		
KLCN	--	50	D	Blytheville, Ark.		C. L. Lintzenich		
KTSA	†	1000	1+C	San Antonio, Texas	✓	Lone Star Broadcast Co.		
WEBC	* 1000	+N		Superior, Wis.		Head of Lake Broadcasting Co.		
WJAS	* 1000	C+		Pittsburgh, Pa.		Pittsburgh Radio Supply House		
WNBZ	--	50	D	Saranac Lake, N. Y.		Smith & Mace		

1300 kilocycles			230.6 meters			25		
KFH	*	1000	2C	Wichita, Kansas	✓	Radio Station KFH Co.		
KFJR	* 500	3		Portland, Ore.		Ashley C. Dixon & Son		
KGEF	* 1000	4		Los Angeles, Cal.		Trinity Methodist Church		
KTBI	* 1000	4		Los Angeles, Cal.		Bible Institute of Los Angeles		
KTBR	--	500	3	Portland, Ore.		M. E. Brown		
WBBR	* 1000	1		Brooklyn, N. Y.		People's Pulpit Association		
WEVD	* 500	1		New York City		Debs Memorial Radio Fund, Inc.		
WHAP	* 1000	1		New York City		Defenders of Truth Society, Inc.		
WHAZ	* 500	1		Troy, N. Y.		Rensselaer Polytechnic Institute		
WIOD	* 1000	N		Miami, Fla.		Isle of Dreams Broadcasting Corp.		
WOQ	* 1000	2		Kansas City, Mo.	✓	Unity School of Christianity		

1310 kilocycles			228.9 meters			24		
✓ KCRJ	†	100	---	Jerome, Ariz.		Chas. C. Robinson		
KFBK	†	100	---	Sacramento, Cal.		Jas. McClatchy Co.		
KFGQ	†	100	7	Boone, Iowa		Boone Biblical College		
KFIU	--	10	---	Juneau, Alaska		Alaska Electric Light & Power Co.		
KFJY	* 100	7		Ft. Dodge, Iowa		C. S. Tunwall		

KCYS.
1310
MTRS.
228.9
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

KFPL	†	100	---	Dublin, Texas	C. C. Baxter
KFPF	†	15	---	Greenville, Texas	The New Furniture Co.
KFUP	--	100	8	Denver, Colo.	Fitzsimmons General Hospital
KFXJ	--	50	8XY	Edgewater, Colo.	Western Slope Broadcasting Co.
KFXR	†	100	+	Oklahoma City	Exchange Ave. Baptist Church
KGBX	*†	100	+	St. Joseph, Mo.	KGBX Inc.
KGCX	†	100	+	Wolf Point, Mont.	First State Bank of Vida
KGEZ	†	100	C	Kalispell, Mont.	Chamber of Commerce
KGFW	†	100	---	Ravenna, Neb.	Central Nebraska Broadcasting Corp.
KIT	†	50	---	Yakima, Wash.	Carl E. Haymond
KMED	†	50	---	Medford, Ore.	Mrs. W. J. Virgin
KRMD	†	50	9	Shreveport, La.	Robert M. Dean
KTLC	*	100	X	Houston, Tex.	Houston Broadcasting Co.
KTSL	†	100	9	Shreveport, La.	G. A. Houseman
KTSM	*	100	2	El Paso, Texas	W. S. Bledsoe & W. T. Blackwell
KWCR	†	100	7	Cedar Rapids, Iowa	Harry F. Paar
KXRO	†	75	---	Aberdeen, Wash.	KXRO, Inc.
WBOW	†	100	---	Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE	†	100	---	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	--	100	1	Joliet, Ill.	WCLS, Inc.
WDAH	†	100	2	El Paso, Texas	Eagle Broadcasting Co.
WEBR	†	100	+	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WEXL	†	50	---	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG	†	100	3	Altoona, Pa.	Wm. F. Gable Co.
WFDF	*	100	---	Flint, Mich.	Frank D. Fallain
WGAL	*	100	5	Lancaster, Pa.	WGAL, Inc.
WGH	*	100	C	Newport News, Va.	Hampton Roads Broadcasting Corp.
WHAT	†	100	4X	Philadelphia, Pa.	Independence Broadcasting Co.
WJAC	†	100	3	Johnstown, Pa.	Johnstown Automobile Co.
WJAK	*	50	6	Marion, Ind.	Marion Broadcasting Co.
WKAV	*	100	1	Laconia, N. H.	Laconia Radio Club
WKBB	*	100	1	Joliet, Ill.	Sanders Bros. Radio Station
WKBC	*	100	---	Birmingham, Ala.	R. B. Broyles Furniture Co.
WKBS	*	100	---	Galesburg, Ill.	Permil N. Nelson
WLBC	†	50	6	Muncie, Ind.	Donald A. Burton
WMBO	†	100	---	Auburn, N. Y.	Radio Service Laboratories
WNBH	*	100	---	New Bedford, Mass.	New Bedford Broadcasting Co.
WOBT	†	100	+	Union City, Tenn.	Pittsworth's Radio & Music Shop
WOL	†	100	---	Washington, D. C.	American Broadcasting Co.
WRAW	*	50	5XZ	Reading, Pa.	Reading Broadcasting Co.
WRBI	†	20	---	Tifton, Ga.	Kent's Furniture & Music Store
WROL	†	100	---	Knoxville, Tenn.	Stewart Broadcasting Co.
WSAJ	*	100	---	Grove City, Pa.	Grove City College
WSJS	†	100	---	Winston-Salem, N. C.	Winston-Salem Journal Co.
WTEL	*	50	4X	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
-----	--	100	CP	Marquette, Mich.	C. C. McLeod

1320 kilocycles 227.1 meters

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

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1330 kilocycles 225.4 meters

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

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1340 kilocycles 223.7 meters

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

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1350 kilocycles 222.1 meters

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

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INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

20

20		
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KGEB	*	1000	4	Long Beach, Cal.
KGIR	†	500	---	Butte, Mont.
KPSN	*	1000	4	Pasadena, Cal.
WCSC	*	500	---	Charleston, S. C.
WFBL	*	1000	C+X	Syracuse, N. Y.
WGES	*	500	1+	Chicago, Ill.
WJKS	*	1000	1+	Gary, Ind.
WQBC	--	300	CPD	Vicksburg, Miss.

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

1370 kilocycles 218.7 meters

19

19		
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KCRC	†	100	2+	Enid, Okla.
KFBL	*	50	3	Everett, Wash.
KFJI	†	100	---	Astoria, Ore.
KFJM	†	100	---	Grand Forks, N. D.
KFJZ	*	100	X	Ft. Worth, Texas
KFLX	*	100	---	Galveston, Texas
KGAR	*	100	+	Tucson, Ariz.
KGDA	†	100	---	Mitchell, S. D.
KGFG	†	100	2	Oklahoma City
KGFL	†	50	---	Raton, N. M.
KGKL	†	100	---	San Angelo, Texas
KMAC	†	100	5	San Antonio, Tex.
KONO	*	100	5	San Antonio, Texas
KOOS	*	100	---	Marshfield, Ore.
KRE	--	100	6	Berkeley, Cal.
KVL	--	100	3	Seattle, Wash.
KWKC	†	100	---	Kansas City, Mo.
KZM	†	100	6	Hayward, Cal.
WBGF	†	50	---	Glens Falls, N. Y.
WBTM	†	100	7	Danville, Va.
WCBM	--	100	+Z	Baltimore, Md.
WELK	--	100	+	Philadelphia, Pa.
WFDV	--	100	---	Rome, Ga.
WGL	*	100	C	Fort Wayne, Ind.
WHBD	*	100	---	Mount Orab, Ohio
WHBQ	*	100	---	Memphis, Tenn.
WHDF	†	100	+	Calumet, Mich.
WIBM	*	100	1	Jackson, Mich.
WJBK	*	50	1	Detroit, Mich.
WLEY	*	100	+	Lexington, Mass.
WLVA	†	100	7	Lynchburg, Va.
WMBR	†	100	---	Tampa, Fla.
WPOE	†	100	---	Patchogue, N. Y.
WQDM	*	100	D	St. Albans, Vt.
WRAK	*	50	---	Williamsport, Pa.
WRBJ	†	10	---	Hattiesburg, Miss.
WRBT	†	100	---	Wilmington, N. C.
WRJN	†	100	---	Racine, Wis.
WSVS	*	50	---	Buffalo, N. Y.
WRDO	§	100	CP	Augusta, Me.

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

1380 kilocycles 217.3 meters

18

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

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

1390 kilocycles 215.7 meters

17

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KLRA	*	1000	IC	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



INDEX BY FREQUENCIES AND DIAL NUMBERS

1400 kilocycles 214.2 meters

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

Havana, Cuba
Ogden, Utah
Chickasha, Okla. ✓
Lafayette, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.
Culver, Ind.
Brooklyn, N. Y.
Indianapolis, Ind. ✓
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.
Paramount Broadcasting Co.
Indianapolis Broadcasting, Inc.
The Voice of Brooklyn, Inc.
Paramount Broadcasting Co.

1410 kilocycles 212.6 meters

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

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

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

1420 kilocycles 211.1 meters

KBPS	--	100	4
KFIZ	*	100	---
KFOU	*	100	5X
KFOW	*	100	---
KFXD	*	100	XY
KFXV	*	100	---
KFYO	†	100	+
KGFF	*	100	Y
KGGC	†	100	5
KGJW	†	100	---
KGIX	†	100	---
KGKX	†	100	---
KGVO	†	100	CPD
KICK	*	100	---
KLPM	†	100	---
KORE	†	100	---
KTAP	†	100	---
KXL	†	100	4
KXYZ	†	100	X
WEDH	*	100	---
WEHS	*	100	2
WELL	†	50	X
WFDW	*	100	---
WHDL	*	10	DX
WHFC	†	100	2
WIAS	†	100	---
WIBR	*	50	---
WILM	*	100	---
WJBO	*	100	---
WKBI	*	100	2
WLBF	*	100	---
WMBG	*	100	X+
WMBH	*	100	+
WPAD	†	100	---
WSPA	*	100	+
WTBO	*	100	---

Portland, Ore.
Fond 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.
Cicero, Ill.
Battle Creek, Mich.
Talladega, Ala.
Tupper Lake, N. Y.
Cicero, Ill.
Ottumwa, Iowa
Steubenville, Ohio
Wilmington, Del.
New Orleans, La.
Chicago, Ill. ✓
Kansas City, Kas.
Detroit, Mich.
Joplin, Mo.
Paducah, Ky.
Spartanburg, S. C.
Cumberland, Md.

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

1430 kilocycles 209.7 meters

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

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

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

208.2 meters

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

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

1450 kilocycles

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

206.8 meters

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

--	--	--

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

1460 kilocycles

KSTP	*	10000	NX
WJSV	*	10000	---

205.4 meters

St. Paul, Minn.
Alexandria, Va.

--	--	--

National Battery Broadcasting Co.
Independent Publishing Co.

1470 kilocycles

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

204.0 meters

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

--	--	--

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

1480 kilocycles

KFJF	*	5000	C
WKBW	*	5000	C

202.6 meters

Oklahoma City
Buffalo, N. Y.

--	--	--

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

1490 kilocycles

WCHI	*	5000	I
WCKY	*	5000	1N
WJAZ	--	5000	I

201.2 meters

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

--	--	--

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

1500 kilocycles

KDB	*	100	---
KGFI	*	100	+
KGFK	†	50	---
KGIZ	†	50	---
KGKB	*	100	---
KGKY	*	100	---
KPJM	*	100	---
KPO	†	50	---
KREG	†	100	---
KUJ	*	100	Y
KUT	†	100	---
KXO	*	100	---
WCLB	--	100	I
WDIX	--	100	---
WKBV	*	100	+
WKBZ	†	50	---
WLBX	*	100	I
WLOE	*	100	+
WMBA	--	100	---
WMBJ	†	100	---
WMBQ	*	100	I
WMPC	†	100	---
WNBF	*	100	---
WQPI	*	100	---
WPEN	--	100	+
WRDW	*	100	---
WRWL	*	100	I
WSYB	†	100	CP

199.9 meters

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

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Dwight Faulding
Eagle Broadcasting Co., Inc.
Red River Broadcasting Co., Inc.
Grant City Park Corp.
Eagle Publishing Co.
Hilliard Co., Inc.
Miller & Klahn
Wescoast Broadcasting Co.
Pacific Western Broadcasting
Columbia Broadcasting Co., Inc.
Driskill Hotel
E. R. Irely and F. M. Bowles
Arthur Faske
North Mississippi Broadcasting Corp.
Knox Battery & Electric Co.
K. L. Ashbacher
John N. Brahy
Boston Broadcasting Co.
LeRoy Joseph Beebe
Rev. J. W. Sprout
Paul J. Gollhofer
First M. P. Church
Howitt-Wood Radio Co., Inc.
Radiophone Brcdstg. 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

ALABAMA

	Watts		Keys.
Birmingham O-21	5000	WAPI	1140
	500	WBRC	930
	100	WKBC	1310
Gadsden O-21	50	WJBY	1210
Mobile O-20	500	WODX	1410
Montgomery P-21	500	WSFA	1410
Talladega O-21	100	WFDW	1420

ALASKA

Anchorage	100	KFQD	1230
Juneau	10	KFIU	1310
Ketchikan	500	KGBU	900

ARIZONA

Flagstaff M-7	100	KFXY	1420
Jerome M-6	100	KCRJ	1310
Phoenix N-6	500	KOY	1390
	500	KTAR	620
Prescott M-6	100	KPJM	1500
	100	KGAR	1370
Tucson O-7	500	KVOA	1260

ARKANSAS

Blytheville M-19	50	KLCN	1290
Fayetteville M-16	1000	KUOA	1390
Fort Smith N-16	50	KFPW	1340
Hot Springs N-17	10000	KTHS	1040
Little Rock N-17	100	KGHI	1200
	250	KGJF	890
	1000	KLRA	1390
Paragould M-18	100	KBTM	1200

CALIFORNIA

Berkeley J-2	100	KRE	1370
Burbank M-3	500	KELW	780
Culver City M-3	250	KFVD	1000
El Centro N-4	100	KXO	1500
Fresno K-2	100	KMJ	1210
Hayward J-1	100	KZM	1370
Hollywood M-3	1000	KFWB	950
	5000	KNX	1050
Holy City K-1	100	KFOU	1420
Inglewood M-3	500	KMIC	1120
Long Beach M-3	1000	KFOX	1250
	1000	KGER	1360
Los Angeles M-3	1000	KECA	1430
	5000	KFI	640
	500	KFSG	1120
	1000	KGEF	1300
	100	KGFJ	1200
	1000	KHJ	900
	500	KMPC	710
	500	KMTR	570
	500	KTM	780
Oakland J-1	1000	KTBI	1300
	250	KLS	1440
	500	KLX	880
	500	KROW	930
Pasadena M-3	50	KPPC	1210
	1000	KPSN	1360
Sacramento J-2	100	KFBK	1310
San Bernardino M-3	100	KFXM	1210
San Diego N-3	500	KFSB	600
	250	KGB	1330
San Francisco J-1	1000	KFRC	610
	500	KFWI	930
	100	KGGC	1420
	7500	KGO	790
	100	KJBS	1070
	5000	KPO	680
	1000	KTAB	560
	1000	KYA	1230

San Jose J-1	500	KQW	1010
Santa Ana M-3	100	KREG	1500
Santa Barbara M-2	100	KDB	1500
Santa Maria L-2	100	KSMR	1200
Stockton J-2	250	KGDM	1100
	100	KWG	1200

CANAL ZONE

Balboa FF-26	750	NBA	850
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COLORADO

Colorado Springs K-11	1000	KFUM	1270
Denver K-11	500	KFEL	920
	100	KFUP	1310
	500	KFXF	920
	1000	KLZ	560
	12500	KOA	830
	500	KPOF	880
Edgewater K-10	50	KFXJ	1310
Fort Morgan J-11	100	KGEW	1200
Greeley J-11	500	KFKA	880
Pueblo L-11	250	KGHF	1320
Trinidad L-11	100	KGIW	1420
Yuma J-12	50	KGEK	1200

CONNECTICUT

Bridgeport H-27	500	WICC	1190
Hartford H-27	500	WDRG	1330
	50000	WTIC	1060
Storrs H-28	250	WCAC	600

DELAWARE

Wilmington J-26	250	WDEL	1120
	100	WILM	1420

DISTRICT OF COLUMBIA

Washington J-26	250	WMAL	630
	500	WRC	950
	100	WOL	1310

FLORIDA

Clearwater R-24	1000	WFLA	620
Gainesville Q-24	5000	WRUF	830
Jacksonville Q-24	1000	WJAX	900
Miami T-25	1000	WQAM	560
Miami T-25	1000	WTOG	1300
Orlando R-24	500	WDBO	1120
Pensacola Q-21	500	WCOA	1340
St. Petersburg S-24	1000	WSUN	620
Tampa R-24	1000	WDAE	1220
	100	WMBR	1370

GEORGIA

Atlanta O-22	250	WGST	890
	5000	WSB	740
Augusta O-23	100	WRDW	1500
Columbus O-22	50	WRBL	1200
Macon O-23	250	WMVZ	890
Rome N-22	100	WFDV	1370
Savannah O-24	500	WTOG	1260
Thomasville Q-22	50	WQDX	1210
Tifton P-23	20	WRBI	1310
Toccoa N-23	500	WTFI	1450

HAWAII

Honolulu	500	KGMB	1320
	1000	KGU	940

IDAHO

Boise G-5	1000	KIDO	1250
Idaho Falls G-7	250	KID	1320
Nampa G-5	50	KFXD	1420
Pocatello H-7	250	KSEI	900
Sand Point D-6	100	KGKX	1420
Twin Falls H-6	250	KGIQ	1320

INDEX BY LOCATIONS WITH MAP KEY

ILLINOIS

	Watts	WCAZ	1070	Keys.
Carthage J-18	50	WCAZ	1070	
Chicago I-20	10000	KFKX	1020	
	10000	KYW	1020	
	500	WAAF	920	
	25000	WBBM	770	
	1500	WCFL	970	
	5000	WCHI	1490	
	100	WCRW	1210	
	100	WEDC	1210	
	50000	WENR	870	
	500	WGES	1360	
	25000	WGN	720	
	1000	WIBO	560	
	5000	WIAZ	1490	
	25000	WJBT	770	
	100	WKBI	1420	
	5000	WLS	870	
	5000	WMAQ	670	
	5000	WMBI	1080	
	500	WPCC	560	
Cicero I-20	100	WSBC	1210	
	100	WEHS	1420	
Decatur K-19	100	WHFC	1420	
	100	WJBL	1200	
	100	WKBS	1310	
Galesburg J-18	100	WEBQ	1210	
Harrisburg L-19	100	WCLS	1310	
Joliet I-19	100	WKBB	1310	
	100	WJBC	1200	
La Salle J-19	100	WJJD	1130	
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
Connorsville 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	WSJY	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	WLBZ	1420
Lawrence K-16	500	KFKU	1220
	1000	WREN	1220
Manhattan K-15	500	KSAC	580
Milford K-14	5000	KFKB	1050
Topeka K-16	1000	WIBW	580
Wichita L-15	1000	KFH	1300

KENTUCKY

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

LOUISIANA

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

MAINE

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

MARYLAND

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

MASSACHUSETTS

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

MICHIGAN

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

INDEX BY LOCATIONS WITH MAP KEY

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

NORTH CAROLINA

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

NORTH DAKOTA

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

OHIO

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

OKLAHOMA

Alva M-14	100	KGFF	1420
Chickasha N-14	250	KOCW	1400
Elk City N-13	100	KGMP	1210
Enid M-15	100	KCRC	1370
Norman N-15	500	WNAD	1010
Oklahoma N-15	5000	KFIF	1480
	100	KFXR	1310
	100	KGFG	1370
	1000	WKY	900
Ponca City M-15	100	WBBZ	1200
S. Coffeyville M-16	500	KGFF	1010
Tulsa M-16	5000	KVOO	1140

OREGON

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

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

PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
	100	WFBG	1310
Altoona I-25	10	WNBW	1200
Carbondale H-26	10	WNBW	1200
Elkins Park I-26	50	WIBG	930
Erie H-24	30	WEDH	1420
Grove City I-26	100	WSAJ	1310
Harrisburg I-25	500	WBAK	1430
	100	WCOD	1200
	500	WHP	1430
Johnstown J-24	100	WJAC	1310
Lancaster I-25	100	WGAL	1310
	100	WKJC	1200
Lewisburg I-26	100	WJBU	1210
Oil City I-24	500	WLBW	1260
Philadelphia I-26	10000	WCAU	1170
	100	WELK	1370
	500	WFAN	610
	500	WFI	560
	100	WHAT	1310
	500	WIP	610
	500	WLIT	560
	100	WPEN	1500
	250	WRAX	1020
	50	WTEL	1310
Pittsburgh J-24	50000	KDKA	980
	500	KQV	1380
	1000	WCAE	1220
	1000	WJAS	1290
	100	WMBJ	1500
Reading I-26	50	WRAW	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
State College I-25	500	WPSC	1230
Washington J-24	100	WNBO	1200
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	50	WRAK	1370

PORTO RICO

San Juan W-34	500	WKAQ	890
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RHODE ISLAND

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

SOUTH CAROLINA

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

SOUTH DAKOTA

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

INDEX BY LOCATIONS WITH MAP KEY

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

INDEX BY LOCATIONS WITH MAP KEY

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

CFAC 690	CJSC 690	CMHD 920	KFAB 770
Calgary, Alta.	Toronto, Ont.	Caibarien, Cuba	Lincoln, Nebr.
CFBO 890	CKAC 730	CMHJ 1154	KFBB 1280
St. John, N. B.	Montreal, Que.	Cienfuegos, Cuba	Great Fls., Mont.
CFCA 840	CKCD 730	CMJC 1350	KFBK 1310
Toronto, Ont.	Vancouver, B.C.	Camaguey, Cuba	Sacramento, Cal.
CFCF 1030	CKCI 880	CMR 730	KFBL 1370
Montreal, Que.	Quebec, Que.	Havana, Cuba	Everett, Wash.
CFCH 1200	CKCK 960	CMKC 1045	KFDM 560
North Bay, Ont.	Regina, Sask.	Santiago, Cuba	Beaumont, Tex.
CFCL 580	CKCL 580	CMKD 1100	KFDY 550
Toronto, Ont.	Toronto, Ont.	Santiago, Cuba	Brookings, S.D.
CFCN 690	CKCO 890	CMKK 1240	KFEL 920
Calgary, Alta.	Ottawa, Ont.	Holguin, Cuba	Denver, Colo.
CFCO 1210	CKCR 1010	CMQ 1130	KFEQ 680
Chatham, Ont.	Waterloo, Ont.	Havana, Cuba	St. Joseph, Mo.
CFCT 630	CKCV 880	CMW 590	KFGQ 1310
Victoria, B. C.	Quebec, Que.	Havana, Cuba	Boone, Iowa
CFCY 960	CKFC 730	CMX 910	KFH 1300
Ch'lottet'n, P.E.I.	Vancouver, B.C.	Havana, Cuba	Wichita, Kansas
CFJC 1120	CKGW 690	CNRA 630	KFI 640
Kamloops, B. C.	Toronto, Ont.	Moncton, N.B.	Los Angeles, Cal.
CFCL 1010	CKIC 930	CNRC 690	KFIO 1120
Prescott, Ont.	Wolfville, N.S.	Calgary, Alta.	Spokane, Wash.
CFNB 1210	CKLC 840	CNRD 840	KFU 1310
Fredericton, N.B.	Red Deer, Alta.	Red Deer, Alta.	Juneau, Alaska
CFQC 910	CKMC 1210	CNRE 930	KFJZ 1420
Saskatoon, Sask.	Cobalt, Ont.	Edmonton, Alta.	Fond du Lac, Wis
CFRB 960	CKMO 730	CNRH 910	KFJB 1290
Toronto, Ont.	Vancouver, B.C.	Halifax, N. S.	Marshalltown, Ia.
CFRC 930	CKNC 580	CNRL 910	KFFJ 1480
Kingston, Ont.	Toronto, Ont.	London, Ont.	Oklahoma City
CHCA 690	CKOC 880	CNRM 730	KFJI 1370
Calgary, Alta.	Hamilton, Ont.	Montreal, Que.	Astoria, Ore.
CHCK 960	CKPC 1210	CNRO 600	KFJM 1370
Ch'lottet'n, P.E.I.	Preston, Ont.	Ottawa, Ont.	Grd. Forks, N.D.
CHCS 880	CKPR 930	CNRQ 880	KFJR 1300
Hamilton, Ont.	Midland, Ont.	Quebec, Que.	Portland, Ore.
CHCT 840	CKUA 580	CNRR 960	KFJY 1310
Red Deer, Alta.	Edmonton, Alta.	Regina, Sask.	Fort Dodge, Ia.
CHGS 1120	CKWX 730	CNRS 910	KFJZ 1370
Sum'rside, P.E.I.	Vancouver, B.C.	Saskatoon, Sask.	Ft. Worth, Tex.
CHLS 730	CKX 540	CNRT 840	KFKA 880
Vancouver, B.C.	Brandon, Man.	Toronto, Ont.	Greeley, Colo.
CHMA 580	CKY 780	CNRV 1030	KFKB 1050
Edmonton, Alta.	Winnipeg, Man.	Vancouver, B.C.	Milford, Kansas
CHML 880	CMBC 1130	CNRW 780	KFKU 1220
Hamilton, Ont.	Havana, Cuba	Winnipeg, Man.	Lawrence, Kans.
CHNS 910	CMBD 995	CNRX 960	KFKX 1020
Halifax, N.S.	Havana, Cuba	Toronto, Ont.	Chicago, Ill.
CHRC 880	CMBS 790	CPRY 690	KFLV 1410
Quebec, Que.	Havana, Cuba	Toronto, Ont.	Rockford, Ill.
CHWC 960	CMBT 1070	HHK 920	KFLX 1370
Regina, Sask.	Havana, Cuba	Port au Prince, H.	Galveston, Tex.
CHWK 1210	CMBW 1010	KBPS 1420	KFMX 1250
Chilliwick, B.C.	Marianao, Cuba	Portland, Ore.	N'thfield, Minn.
CHYC 730	CMBY 1405	KBMT 1200	KFNF 890
Montreal, Que.	Havana, Cuba	Paragould, Ark.	Shenandoah, Ia.
CJBR 960	CMBZ 1010	KCRC 1370	KFOR 1210
Regina, Sask.	Havana, Cuba	Enid, Okla.	Lincoln, Nebr.
CJCA 930	CMC 840	KCRJ 1310	KFOX 1250
Edmonton, Alta.	Havana, Cuba	Jerome, Ariz.	Long Beach, Cal.
CJCB 880	CMCA 1225	KDB 1500	KFPL 1310
Sydney, N.S.	Havana, Cuba	S. Barbara, Cal.	Dublin, Texas
CJCI 690	CMCB 1070	KDFN 1210	KFPM 1310
Calgary, Alta.	Havana, Cuba	Casper, Wyo.	Greenville, Tex.
CJGC 910	CMCF 900	KDKA 980	KFPW 1340
London, Ont.	Havana, Cuba	Pittsburgh, Pa.	Ft. Smith, Ark.
CJGX 630	CMCH 1285	KDLR 1210	KFPY 1340
Yorlton, Sask.	Havana, Cuba	Devils Lake, N.D.	Spokane, Wash.
CJOC 1120	CMCO 660	KDYL 1290	KFQD 1230
Lethbridge, Alta.	BuenRetiro, Cuba	Salt Lake City	Anchorage, Alas.
CJOR 1210	CMCQ 955	KECA 1430	KFQU 1420
Sea Island, B.C.	Havana, Cuba	Los Angeles, Cal.	Holy City, Cal.
CJRM 600	CMGA 830	KELW 780	KFQW 1420
Moose Jaw, Sask.	Colon, Cuba	Burbank, Cal.	Seattle, Wash.
CJRW 600	CMHC 790	KEX 1180	KFRC 610
Fleming, Sask	Tuinucu, Cuba	Portland, Ore.	San F'ncisco, Cal.

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

KTSL 1310 Shreveport, La.	WABC 860 New York City	WCAJ 590 Lincoln, Nebr.	WDEL 1120 Wilmington, Del.
KTSM 1310 El Paso, Texas	WABI 1200 Bangor, Maine	WCAL 1250 Northfield, Minn.	WDGY 1180 Minneapolis, Minn.
KTW 1270 Seattle, Wash.	WABZ 1200 New Orleans, La.	WCAM 1280 Camden, N. J.	WDIX 1500 Tupelo, Miss.
KUJ 1500 Longview, Wash.	WACO 1240 Waco, Texas	WCAO 600 Baltimore, Md.	WDOD 1280 Chattanooga, Tenn
KUOA 1390 Fayetteville, Ark.	WADC 1320 Akron, Ohio	WCAT 1280 Asbury Pk., N. J.	WDRC 1330 Hartford, Conn.
KUSD 890 Vermillion, S. D.	WAIU 640 Columbus, Ohio	WCAT 1200 Rapid City, S. D.	WDSU 1250 New Orleans, La.
KUT 1500 Austin, Texas	WALR 1210 Zanesville, Ohio	WCAU 1170 Philadelphia, Pa.	WDWF 1210 Providence, R. I.
KVI 760 Tacoma, Wash.	WAPI 1140 Birmingham, Ala.	WCAX 1200 Burlington, Vt.	WDZ 1070 Tuscola, Ill.
KVL 1370 Seattle, Wash.	WASH 1270 Gr. Rapids, Mich.	WCAZ 1070 Carthage, Ill.	WEAF 660 New York City
KVOA 1260 Tucson, Arizona	WAWZ 1350 New York City	WCBA 1440 Allentown, Pa.	WEAI 1270 Ithaca, N. Y.
KVOO 1140 Tulsa, Okla	WBAA 1400 Lafayette, Ind.	WCBD 1080 Zion, Ill.	WEAN 780 Providence, R. I.
KVOS 1200 Bellingh'm, Wash.	WBAK 1430 Harrisburg, Pa.	WCBM 1370 Baltimore, Md.	WEO 570 Columbus, Ohio
KWCR 1310 Cedar Rapids, Ia.	WBAL 1060 Baltimore, Md.	WCBS 1210 Springfield, Ill.	WEBC 1290 Superior, Wis.
KWEA 1210 Shreveport, La.	WBAP 800 Fort Worth, Tex.	WCCO 810 Minneapolis, Minn.	WEHQ 1210 Harrisburg, Ill.
KWG 1200 Stockton, Cal.	WBAX 1210 Wilkes-Barre, Pa.	WCDA 1350 New York City	WEHR 1310 Buffalo, N. Y.
KWJJ 1060 Portland, Ore.	WBBC 1400 Brooklyn, N. Y.	WCFL 970 Chicago, Ill.	WEDC 1210 Chicago, Ill.
KWK 1350 St. Louis, Mo.	WBBM 770 Chicago, Ill.	WCGU 1400 Brooklyn, N. Y.	WEDH 1420 Erie, Pa.
KWKC 1370 Kansas City, Mo.	WBBR 1300 Brooklyn, N. Y.	WCHI 1490 Chicago, Ill.	WEI 590 Boston, Mass.
KWKH 850 Shreveport, La.	WBBZ 1200 Ponca City, Okla.	WCKY 1490 Covington, Ky.	WEHC 1200 Emory, Va.
KWLC 1270 Decorah, Iowa	WBCM 1410 Bay City, Mich.	WCLB 1500 Long Beach, N.Y.	WEHS 1420 Cicero, Ill.
KWSC 1220 Pulman, Wash.	WBEN 900 Buffalo, N. Y.	WCLO 1200 Janesville, Wis.	WELK 1370 Philadelphia, Pa.
KWWG 1260 Brownsville, Tex.	WBGF 1370 Glens Falls, N. Y.	WCLS 1310 Joliet, Ill.	WELL 1420 BattleCreek, Mich
KXA 570 Seattle, Wash.	WBIG 1440 Greensboro, N.C.	WCMA 1400 Culver, Ind.	WENR 870 Chicago, Ill.
KXL 1420 Portland, Ore.	WBIS 1230 Boston, Mass.	WCOA 1340 Pensacola, Fla.	WEPS 1200 Worcester, Mass.
KXO 1500 El Centro, Cal.	WBMS 1450 Hackensack, N.J.	WCOC 880 Meridian, Miss.	WEVD 1300 New York City
KXRO 1310 Aberdeen, Wash	WBOQ 860 New York City	WCOD 1200 Harrisburg, Pa.	WEW 760 St. Louis, Mo.
KXYZ 1420 Houston, Texas	WBOW 1310 Terre Haute, Ind.	WCOH 1210 Yonkers, N. Y.	WEXL 1310 Royal Oak, Mich.
KYA 1230 San F'nisco, Cal.	WBRC 930 Birmingham, Ala.	WCRC 1210 Chicago, Ill.	WFAA 800 Dallas, Texas
KYW 1020 Chicago, Ill.	WBRE 1310 Wilkes-Barre, Pa.	WCSC 1360 Charleston, S. C.	WFAN 610 Philadelphia, Pa.
KZM 1370 Hayward, Cal.	WBSO 920 Needham, Mass.	WCSH 940 Portland, Maine	WFBC 1200 Knoxville, Tenn.
NAA 690 Arlington, Va.	WBT 1080 Charlotte, N. C.	WDAE 1220 Tampa, Fla.	WFBE 1200 Cincinnati, Ohio
NBA 850 Balboa, C. Z.	WBTM 1370 Danville, Va.	WDAF 610 Kansas City, Mo.	WFBG 1310 Altoona, Pa.
TIC 750 San Jose, C. R.	WBZ-A 990 Springfield, Mass.	WDAG 1410 Amarillo, Texas	WFL 1360 Syracuse, N. Y.
VAS 685 Glacé Bay, N. S.	WCAC 600 Storrs, Conn.	WDAH 1310 El Paso, Texas	WFBM 1230 Indianapolis, Ind.
WAAF 920 Chicago, Ill.	WCAD 1220 Canton, N. Y.	WDAY 940 Fargo, N. D.	WFR 1270 Baltimore, Md.
WAAM 1250 Newark, N. J.	WCAE 1220 Pittsburgh, Pa.	WDBJ 930 Roanoke, Va.	WFD 1310 Flint, Mich.
WAAT 940 Jersey City, N. J.	WCAH 1430 Columbus, Ohio	WDBO 1120 Orlando, Fla.	WFDV 1370 Rome, Ga.
WAAW 660 Omaha, Nebr.			

WFDW 1420 Talladega, Ala.	WHDI 1180 Minneapolis, Minn.	WJBK 1370 Detroit, Mich.	WLBG 1200 Etrick, Va.
WFI 560 Philadelphia, Pa.	WHDL 1420 Tupper Lake, N. Y.	WJBL 1200 Decatur, Ill.	WLBL 900 Stevens Pt., Wis.
WFIW 940 Hopkinsville, Ky.	WHEC 1440 Rochester, N. Y.	WJBO 1420 New Orleans, La.	WLBW 1260 Oil City, Pa.
WFLA 620 Clearwater, Fla.	WHFC 1420 Cicero, Ill.	WJBT 770 Chicago, Ill.	WLBX 1500 L.I. City, N. Y.
WFOX 1400 Brooklyn, N. Y.	WHIS 1410 Bluefield, W. Va.	WJBU 1210 Lewisburg, Pa.	WLBZ 620 Bangor, Me.
WGAL 1310 Lancaster, Pa.	WHK 1390 Cleveland, Ohio	WJBW 1200 New Orleans, La.	WLCI 1210 Ithaca, N. Y.
WGAR 1450 Cleveland, Ohio	WHN 1010 New York City	WJBY 1210 Gadsden, Ala.	WLEX 1410 Lexington, Mass.
WGBB 1210 Freeport, N. Y.	WHO 1000 Des Moines, Ia.	WJDX 1270 Jackson, Miss.	WLEY 1370 Lexington, Mass.
WGBC 1430 Memphis, Tenn.	WHOM 1450 Jersey City, N. J.	WJDD 1130 Mooseheart, Ill.	WLIT 560 Philadelphia, Pa.
WGFB 630 Evansville, Ind.	WHP 1430 Harrisburg, Pa.	WJKS 1360 Gary, Ind.	WLOE 1500 Boston, Mass.
WGBI 880 Scranton, Pa.	WIAS 1420 Ottumwa, Iowa	WJR 750 Detroit, Mich.	WLS 870 Chicago, Ill.
WGBS 600 New York City	WIBA 1280 Madison, Wis.	WJSV 1460 Alexandria, Va.	WLSI 1210 Providence, R. I.
WGCM 1210 Gulfport, Miss.	WIBG 930 Elkins Park, Pa.	WJW 1210 Mansfield, Ohio	WLTH 1400 Brooklyn, N. Y.
WGCP 1250 Newark, N. J.	WIBM 1370 Jackson, Mich.	WJZ 760 New York City	WLVA 1370 Lynchburg, Va.
WGES 1360 Chicago, Ill.	WIBO 560 Chicago, Ill.	WKAQ 890 San Juan, P. R.	WLW 700 Cincinnati, Ohio
WGH 1310 Newsp't News, Va.	WIBR 1420 Steubenville, O.	WKAR 1040 E. Lansing, Mich.	WMLW 1100 New York City
WGL 1370 Ft. Wayne, Ind.	WIBU 1210 Poynette, Wis.	WKAV 1310 Laconia, N. H.	WMAC 570 Syracuse, N. Y.
WGN 720 Chicago, Ill.	WIBW 580 Topeka, Kansas	WKBB 1310 Joliet, Ill.	WMAK 1040 Buffalo, N. Y.
WGR 550 Buffalo, N. Y.	WIBX 1200 Utica, N. Y.	WKBC 1310 Birmingham, Ala.	WMAL 630 Washington, D.C.
WGST 890 Atlanta, Ga.	WICC 1190 Bridgeport, Conn.	WKBF 1400 Indianapolis, Ind.	WMAQ 670 Chicago, Ill.
WGY 790 Schenec'd'y, N. Y.	WIL 1200 St. Louis, Mo.	WKBH 1380 La Crosse, Wis.	WMAZ 890 Macon, Ga.
WHA 940 Madison, Wis.	WILL 890 Urbana, Ill.	WKBI 1420 Chicago, Ill.	WMBA 1500 Newport, R. I.
WHAD 1120 Milwaukee, Wis.	WILM 1420 Wilmington, Del.	WKBN 570 Youngstown, O.	WMB 1420 Detroit, Mich.
WHAM 1150 Rochester, N. Y.	WIOD 1300 Miami, Fla.	WKBO 1450 Jersey City, N. J.	WMBD 1440 Peoria Hghts, Ill.
WHAP 1300 New York City	WIP 610 Philadelphia, Pa.	WKBQ 1350 New York City	WMBG 1210 Richmond, Va.
WHAS 820 Louisville, Ky.	WIS 1010 Columbia, S. C.	WKBS 1310 Galesburg, Ill.	WMBH 1420 Joplin, Mo.
WHAT 1310 Philadelphia, Pa.	WISJ 780 Madison, Wis.	WKBV 1500 Connersville, Ind.	WMBI 1080 Chicago, Ill.
WHAZ 1300 Troy, N. Y.	WISN 1120 Milwaukee, Wis.	WKBW 1480 Buffalo, N. Y.	WMBJ 1500 Pittsburgh, Pa.
WHB 860 Kansas City, Mo.	WJAC 1310 Johnstown, Pa.	WKBZ 1500 Ludington, Mich.	WMB 1310 Auburn, N. Y.
WHBC 1200 Canton, Ohio	WJAG 1060 Norfolk, Nebr.	WKJC 1200 Lancaster, Pa.	WMBQ 1500 Brooklyn, N. Y.
WHBD 1370 Mt. Orab, O.	WJAK 1310 Marion, Ind.	WKRC 550 Cincinnati, O.	WMBR 1370 Tampa, Fla.
WHBF 1210 Rock Island, Ill.	WJAR 890 Providence, R. I.	WKY 900 Oklahoma City	WMC 780 Memphis, Tenn.
WHBL 1410 Sheboygan, Wis.	WJAS 1290 Pittsburgh, Pa.	WKZO 590 Be'n Spgs., Mich.	WMC A 570 New York City
WHBQ 1370 Memphis, Tenn.	WJAX 900 Jacksonville, Fla.	WLAC 1470 Nashville, Tenn.	WMMN 890 Fairmont, W. Va.
WHBU 1210 Anderson, Ind.	WJAY 610 Cleveland, Ohio	WLAP 1200 Louisville, Ky.	WMPC 1500 Lapeer, Mich.
WHBY 1200 Green Bay, Wis.	WJAZ 1490 Chicago, Ill.	WLB 1250 St. Paul, Minn.	WMRJ 1210 Jamaica, N. Y.
WHDF 1370 Calumet, Mich.	WJBC 1200 La Salle, Ill.	WLBC 1310 Muncie, Ind.	WMSG 1350 New York City
WDDH 830 Boston, Mass.	WJBI 1210 Red Bank, N. J.	WLB F 1420 Kansas City, Kas.	

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

Principal Broadcasting Stations of the World

Fill in your dial numbers and you will then know where these foreign stations should be received on your set

Keys.	Call	Watts	City	Country	Keys.	Call	Watts	City	Country
119	.....	.....	Berlin	Germany	550				
155	RYK	7000	Kovno	Lithuania	[] [] [] [] []				
160	PH9	6200	Huizen	Netherlands	553	SBD	600	Sundsvall	Sweden
162	TNU	.....	Carthage	Tunisia	563	.....	4000	Munich	Germany
166	.....	40000	Lahti	Finland	571	RA30	1000	Dneipropetrovsk	Russia
167	.....	1000	Norddeisch	Germany	571	YLZ	10000	Riga	Latvia
174	.....	13500	Paris	France	580	RA38	1000	Krasnodar	Russia
176	RA43	4000	Kharkov	Russia	580	7ZL	600	Hobart	Australia
187	.....	5000	Angora	Turkey	581	.....	15000	Vienna	Austria
193	5XX	25000	Davenport	Un. Kingdom	590	ON4RB	3600	Brussels	Belgium
202.5	.....	12000	Warsaw	Poland	599	IMI	7000	Milan	Italy
207	RAI	40000	Moscow	Russia	600				
207.5	FL	15000	Paris	France	[] [] [] [] []				
222	SBG	30000	Motala	Sweden	600	CWOV	.....	Montevideo	Uruguay
231	AFT	10000	Berlin	Germany	606	XGZ	500	Nanking	China
240	TUA	500	Tunis	Tunisia	608	LKO	60000	Oslo	Norway
250	.....	100	Tallinn	Estonia	616	OKP	5000	Prague	Czechoslovakia
250	.....	6000	Osmanie	Turkey	620	3AR	1000	Melbourne	Australia
250	SBE	600	Boden	Sweden	625	COTN	500	Tientsin	China
260	.....	7500	Kalundborg	Denmark	625	CMAB	1000	Santiago	Chile
269	RA33	4000	Novorossisk	Russia	625	RA17	1500	Vladivostok	Russia
272	RA57	500	Irkutsk	Russia	626	5GB	25000	Davenport	Un. Kingdom
278	RA67	1200	Malchik	Russia	631	RA43	4000	Kharkov	Russia
279	PCF	1500	Scheveningen	Netherlands	633	EAJ8	1000	San Sebastian	Spain
280	PFBI	7000	Hilversum	Netherlands	635	.....	8000	Langenburg	Germany
285	RA15	500	Sverdlovsk	Russia	644	YN	3000	Lyon	France
285	RA49	1200	Erivan	Russia	648	4YA	500	Dunedin	New Zealand
300	RA42	10000	Leningrad	Russia	653	.....	630	Zurich	Switzerland
307	RA40	1200	Odessa	Russia	662	IBZ	200	Bolzano	Italy
316	RA12	1200	Voronezh	Russia	662	.....	500	Klagenfurt	Austria
325	RA39	1200	Gomel	Russia	662	SCT	150	Uppsala	Sweden
333	RA22	1200	Samara	Russia	662	LKP	700	Porsbrund	Norway
343	RA41	1200	Vologda	Russia	662	.....	700	Aix la Chapelle	Germany
345	RA11	4000	Tiflis	Russia	662	EAJ22	.....	Salamanca	Spain
349	RA18	1200	Minsk	Russia	664	RUS	500	Salvador	Salvador
357	RA13	1800	Nizhni-Novgorod	Russia	665	2FC	2500	Sydney	Australia
366	RA14	4000	Rostov-on-Don	Russia	666	ZTJ	15000	Johannesburg	South Africa
375	RA7	180	Ivanovo Vosnesensk	Russia	667	RA4	300	Moscow	Russia
375	RA9	250	Sevastopol	Russia	667	RA2	500	Moscow	Russia
375	.....	1750	Colombo	Ceylon	671	FPTT	1000	Paris	France
380	RA56	1200	Artemovsk	Russia	671	LKR	.....	Rjukan	Norway
389	SBF	600	Ostersund	Sweden	671	LKA	350	Aalesund	Norway
393	RA46	2000	Petrozovodsk	Russia	674	COHB	1000	Harbin	China
395	.....	250	Geneva	Switzerland	680	IRO	3000	Rome	Italy
397	RA5	1200	Kiev	Russia	685	LT2	1000	LaPlata	Argentina
400	RA8	700	Bogorodsk	Russia	688	SBA	1000	Stockholm	Sweden
400	RA45	4000	Baku	Russia	689	PTB	500	Danzig	Danzig
411	RA77	1200	Stalino	Russia	689	CAB	1000	Canton	China
417	RA47	200	Armavir	Russia	689	SCN	250	Malmberget	Sweden
420	RA27	2000	Tashkent	Russia	690	6WF	1000	Perth	Australia
429	RA26	1000	Astrakhan	Russia	695	.....	2500	Belgrade	Yugoslavia
435	RA44	1200	Tver	Russia	698	JODK	1000	Keijo	Japan
442	.....	600	Lausanne	Switzerland	700				
462	RA16	1200	Vel Ustjuk	Russia	[] [] [] [] []				
469	RA25	1000	Orenburg	Russia	700	CWOA	1000	Montevideo	Uruguay
500					706	LS1	5000	Buenos Aires	Argentina
[] [] [] [] []					706	.....	.....	Sorocaba	Brazil
521	RA34	1000	Kourak	Russia	706	HJN	550	Bogota	Colombia
522	.....	3000	Ljubljana	Yugoslavia	707.6	EAJ7	1500	Madrid	Spain
526	LKH	700	Hamar	Norway	708	JOJK	3000	Kanazawa	Japan
527	.....	1500	Freiburg	Germany	714	RA32	200	Saratov	Russia
535	.....	700	Augsburg	Germany	714	COMK	2000	Mukden	China
535	.....	750	Hanover	Germany	714	JODK	1000	Heijo (Seoul)	Chosen (Korea)
545	RA20	1200	Stavropol	Russia					
545	.....	20000	Budapest	Hungary					
545	.....	12000	Bucharest	Rumania					

Kcys.	Call	Watts	City	Country
1110	SCO	250	Norrkoping	Sweden
1112	LS4	1000	Buenos Aires	Argentina
1121	EAJ13	10000	Barcelona	Spain
1125	2UW	100	Sydney	Australia
1129	SCQ	250	Trollhattan	Sweden
1130	.....	500	Lille	France
1147	2ZM	150	Gisborne	New Zealand
1148	SNO	1000	Newcastle	Un. Kingdom
1149	LR8	1500	Buenos Aires	Argentina
1150	2LO	30000	London	Un. Kingdom
1153	PRAC	500	Rio de Janerio	Brazil
1155	2MK	50	Bathurst	Australia
1157	.....	3000	Gleiwitz	Germany
1167	SBH	10000	Horby	Sweden
1169	CWON	200	Montevideo	Uruguay
1175	MRD	1500	Toulouse	France
1180	3DB	100	Melbourne	Australia
1184	.....	4000	Leipzig	Germany
1188	1ZQ	.....	Auckland	New Zealand
1190	LS2	1000	Buenos Aires	Argentina
1193	EAJ18	200	Almeria	Spain
1199	3ZC	250	Christchurch	New Zealand
1199.5	.....	5000	Bordeaux	France
1199	PRAG	500	Porto Alegre	Brazil

1200

Kcys.	Call	Watts	City	Country
1200	.....	500	Toulon	France
1200	5KA	200	Adelaide	Australia
1211	SCI	200	Kalmas	Sweden
1219	.....	250	Juan les Pins	France
1219	ONARW	200	Liege	Belgium
1219	ONARG	400	Ghent	Belgium
1219	.....	750	Kassel	Germany
1219	.....	.....	Abo	Finland
1219	.....	1500	Bjorenberg (Por)	Finland
1219	.....	750	Jakobstad	Finland
1219	SC1	200	Kiruna	Sweden
1220	SCB	200	Eskestuna	Sweden
1220	SCP	400	Saffie	Sweden
1220	.....	500	Linz	Austria
1224	CMAQ	100	Santiago	Chile
1229	.....	1000	Trondhjem	Norway
1238	2BE	1000	Belfast	Un. Kingdom
1245	2NC	2000	Newcastle	Australia
1254	.....	1000	Nuremberg	Germany
1256	.....	500	Nimes	France
1260.4	.....	5000	Bordeaux	France
1265	SCV	200	Orebro	Sweden
1270	LS3	1000	Buenos Aires	Argentina
1287	G4	560	Rafaela	Argentina
1292	.....	700	Kiel	Germany

1300

Kcys.	Call	Watts	City	Country
1301	SCB	600	Malmo	Sweden
1301	SCG	200	Helsingborg	Sweden
1301	SCS	200	Umea	Sweden
1304	.....	.....	Schaerbeck	Germany
1309	SCA	150	Boras	Sweden
1313	.....	250	Biarritz	France
1319	.....	1500	Muenster	Germany
1319	.....	4000	Cologne	Germany
1330	PRAO	1000	Sao Paulo	Brazil
1330	J2	400	Concordia	Argentina
1337	6CK	1000	Cork	Irish Free St.
1344	LOAA	10000	Luxemburg	Luxemburg
1351	LS7	1000	Buenos Aires	Argentina
1357	.....	10000	Helsingfors	Finland
1363.6	.....	250	St. Etienne	France
1364.3	.....	1500	Beziers	France
1373	SCW	200	Ormskoeldsvik	Sweden
1373	.....	1500	Flensburg	Germany
1375	SCK	250	Karlstad	Sweden
1388	ONACE	200	Chatelineau	Belgium
1390	SCE	200	Halmstad	Sweden

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

1500

Kcys.	Call	Watts	City	Country
1500	2LS	130	Leeds & Bradford	Un. Kingdom
1530	SCJ	250	Karlskrona	Sweden
1560	G2SH	.....	Akureyri	Iceland
1635	AFT	10000	Berlin	Germany
2000	RA51	350	Leningrad	Russia
2000	RA72	800	Smolensk	Russia
2142	.....	500	Surabaya	Netherlands
2998	.....	1500	Manaos	Brazil
3088	.....	2000	Soro	Denmark
3446	.....	2500	Haiphong	French Indo
3529.4	H9XD	.....	Zurich	Switzerland
3750	F8AV	.....	Nogent-sur-Seine	France
*998	PKIAA	500	Batabia	Netherlands
4262.3	F8GC	1500	Paris	France
4434	.....	.....	Doberitz	Germany
5169	OKIMPI	5000	Prague	Czechoslovakia
5170	IBR	1000	Bandoeng	Netherlands
5290	AGJ	.....	Nauen	Germany
5552	AFT	10000	Berlin	Germany
5879	AIN	.....	Casablanca	Morocco
5996	PK2AF	500	Djakakarta	Netherlands
5996	3ZC	250	Christchurch	New Zealand
6005	HRB	2300	Tegucigalpa	Honduras
6057	.....	500	Lyngby	Denmark
6662	PH3CH	250	Surabaya	Netherlands
6666	7IRAX	.....	Rome	Italy
6877	.....	2500	Rabat	Morocco
7005	8KR	.....	Constantine	Tunisia
7055	V3SAB	.....	Johore	Brit. Malaya
7260	V5IAB	.....	Singapore	Brit. Malaya
7313	PK6KZ	500	Makassar	Netherlands
7317.1	.....	2000	Paris	France
7462.7	YR	500	Lyon	France
7590	JFAB	.....	Taipeh	Japan
7963	.....	.....	Doberitz	Germany
7995	JHBB	.....	Hirasio	Japan
8818	.....	.....	Para	Brazil
8995	.....	500	Reykjavik	Iceland
9225	2BL	1000	Sydney	Australia
9369	ZTJ	15000	Johannesburg	South Africa
9369	3LO	1000	Melbourne	Australia
9375	.....	1000	Berne	Switzerland
9375	H9XD	.....	Zurich	Switzerland
9375	FL	15000	Paris	France
9488	.....	500	Lyngby	Denmark
9640	7LO	1000	Nairobi	Kenya
9761	F2BD	480	Agen	France
9772	EAM	.....	Madrid	Spain
9994	LGN	.....	Bergen	Norway
10520	2FC	1000	Sydney	Australia
10520	2ME	.....	Sydney	Australia
11760	SAS	.....	Karlsberg	Sweden
12490	SQBE	.....	Bahia	Brazil
15300	.....	500	Lyngby	Denmark
17430	AGC	.....	Nauen	Germany
17640	PLF	.....	Malabar	Netherlands
17778	PHI	40000	Huizen	East Indies
19355	.....	.....	Nancy	Netherlands
59964	PK4PA	240	Palembang	France
.....	.....	.....	.....	Netherlands
.....	.....	.....	.....	East Indies

FAVORITE PROGRAMS

Time Station Dials

Feature

Time Station Dials

Feature

DAILY

WEDNESDAY

10- Civil 19.11.30
NY 2 (21-2) x 100 Sunday 11/4 38+

SUNDAY

THURSDAY

MONDAY

FRIDAY

NY 2 (21-2) x 100 Sunday 11/4 38+

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 WEF in New York. First we must ascertain the frequency for this station. Look it up under WEF 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 WEF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEF is one of the two stations which have been assigned the 660 kcys. frequency by the Federal Radio Commission. We also find that it has a power of 50,000 watts, that it is located in New York City and is owned by the National Broadcasting Co., Inc.

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

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

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

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

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

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

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

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

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

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

LEO 800 Spokane, Wash.
WCAJ 800 Lincoln, Neb.
WELI 500 Boston, Mass.
WOW 800 Omaha, Neb.
WEMC 800 Barrie Springs, Mich.

76 74

Louis Wessner, Inc.
Nabrada Wexleyan University
School Elec. Illuminating Co.
Woodman of the World
Emmanuel Missionary College

600 kilocycles 499.7 meters

CFCH 250 Franconia Falls, Ont.
EFBU 800 Laramie, Wyo.
EFSD 800 San Diego, Calif.
WCAO 250 Baltimore, Md.
WEDW 250 Detroit, Mich.
WVAN 800 Lawrenceburg, Tenn.
WVOT 800 Memphis, Tenn.
WTIC 250 Hartford, Conn.

75 73

Abraham Power & Paper Co.
Bishop N. S. Thomas
Kirtan Radio Co.
Monumental Radio Co., Inc.
Bretz College
Vaughan School of Music
WELC, Inc.
Travelers Insurance Co.

610 kilocycles 491.5 meters

EFRC 1000 San Francisco, Calif.
WYF 800 Kansas City, Mo.
WFAN 800 Philadelphia, Pa.
WOO 800 Philadelphia, Pa.
WOS 800 Kansas City, Mo.

74 72

Dun Lap, Inc.
Kansas City Star Co.
Kyrreton Broadcasting Co., Inc.
Gilbert Bros., Inc.
Unit School of Christianity

620 kilocycles 483.6 meters

EFAD 300 Phoenix, Ariz.
KCW 1000 Portland, Ore.
WYU 1000 Tucson, Ariz.
WDSB 1000 Orlando, Fla.
WESZ 300 Dover-Roxbury, Ma.
WTMJ 1000 Milwaukee, Wis.

73 71

Electric Equipment Co.
Gregorian Publishing Co.
Lambert
Sollitt Publishing Co.
Thompson & Gurnsey
Milwaukee Journal

630 kilocycles 475.9 meters

CFCT 300 Victoria, B. C.
CFMT 500 Yorkton, Sask.
CNGA 300 Montreal, N. B.
EFBU 300 Charlotte, N. C.
EFSD 300 Columbus, Miss.
WAL 300 Washington, D. C.
WOS 300 Jefferson City, Mo.

72 70

Victoria Broadcasting Ass'n
Winnipeg Grain Exchange
Canadian National Railways
Carroll Linnam
Stevens College
Knoxville on the Air, Inc.
M. J. Loefer Co.
State Marketing Bureau

640 kilocycles 468.5 meters

EFT 500 Los Angeles, Calif.
WFO 500 Columbus, Ohio

Earle C. Anthony, Inc.
American Insurance Union

650 kilocycles 461.3 meters

WSM 500 Nashville, Tenn.

70 68

National Life & Accident Ins. Co.

660 kilocycles 454.3 meters

WAAX 500 Omaha, Neb.
WEAF 5000 New York City

69 67

Omaha Grain Exchange
National Broadcasting Co., Inc.

670 kilocycles 447.5 meters

WMAO 2000 Chicago, Ill.

68 66

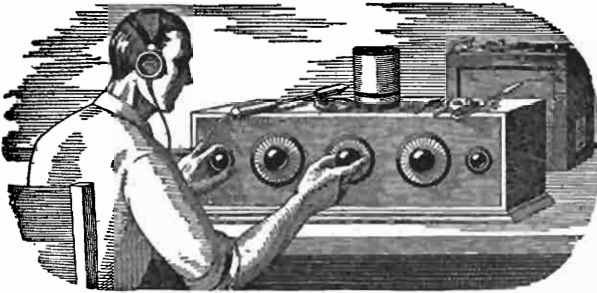
Chicago Daily News, Inc.

680 kilocycles 440.9 meters

EPO 2000 San Francisco, Ont.
WPTF 2000 Raleigh, N. C.

67 65

Hale Bros. & The Chronicle
Durham 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 or me.

I Thought Radio Was a Plaything

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

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

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

If you'd told me a year ago that in twelve months' time I would be making \$100 and more every week in the Radio business—whew! 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—no 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.

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