THE OCTOBER 1931

## RADEX INDEX

WHAT'S ON THE AIR TONIGHT?



(25°)

What About the Pentode Tube?

Complete List of World Stations
by Countries

# RADIO THEORY MODERN PRACTICE

### A New Book in Simple Terms—Profusely Illustrated

Just off the press, here is a book that we believe every person interested at all in Radio, ought to have. While the veriest novice can easily understand its simple explanations, yet it is a book which an experienced radiotrician will find of the greatest value.

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In Principles of Receiver Circuits ten different systems are described and explained, from "Regenerative" to "Super-heterodyne with second harmonic oscilator."

A chapter on Radio Circuit Diagrams gives the schematic diagrams for many of the prominent sets including Super-Zenith, General Electric, Bosch, Super-Wasp, Silver Marshall, Grebe, Stewart-Warner, RCA, Atwater Kent, Majestic, Stromberg-Carlson and others, with explanations of each and where to look and what to do for trouble.

The chapter on Short Waves is not only a complete treatise on short-wave theory and practice, but several well-known short wave sets are diagramed and explained. Other chapters which we can mention only as indicative are Aerials, Loud Speakers, Radio Instruments, Broadcasting Transmitters, Radio Troubles, Television, etc.

This book of 224 pages, printed in large type, bound in flexible cloth will be given to our readers

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### OCTOBER 1, 1931



# RADIO EX



### FRED CLAYTON BUTLER

Editor and Publisher



EIGHTH	I YEA	AR.	Con	ter	its		NUMB	ER 52
Front	ispiece	Natal	lie Tower	s, Colı	ımbia's T	relevision	Girl	
What	About	the Pentod Francis Dash	e Tube?					2
Puzzle	es and	Radio						4
Quest	tions a	nd Answers Technical E	<b>-</b>					6
In the	Worl	d of DX						8
The V	Vhy of	Call Letters  A. Corridon	8					10
The S	tory o	f Phil Cook.						12
Reade	ers Wr	ite About R	adio					14
Ted F	lusing	, Columbia's	Ace					16
Gossi E	p Back Sy "Be	of the "Mitty"	ke"					20
News	papers	and Small	Potatoes_					22
Key to	o Chai leady	n Stations_ Reference T	able for I	Dial N	umbers			31
1:	tour-b	th <b>e Air To</b> ni y-Hour Inde	ex to Cha	in Pro	grams			32
C	ross-1	Index by Findexed by I	)ial Numl	b <b>ers a</b> r	ıd Wave	Lengths		40
A Con V	n <b>plete</b> Vith K	Index by Stey to Locat	ates and ion of Sta	Cities tion o	n Broadc	ast Map		54
Comp	lete In	dex by Call	Letters.					60
Broad	casting	g Stations of	the Wor	ld by	Countries	8		65
	F	ublished M See Sul	onthly Expection				t	
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### What about the PENTODE TUBE?

T is a far cry from the first three-element (triode) radio tube developed in 1907 to the newest five-element (pentode) tube so widely acclaimed in 1931. This new power tube, which has taken the radio world by storm, has revolutionized the industry. It is just what its name implies—a thermionic tube consisting of five different electrodes and circuits. Within the tiny confines of the tube are placed a plate, filament, control-grid, screen-grid, and "suppressor" grid. The tube has been standardized by the type number -47. The prefix figure is determined by each individual manufacturer.

The first of the three-element tubes had been in use for many years before radio engineers brought out the fourelement (tetrode) tube, which, in addition to the three essential circuits of the triode, was provided with a fourth electrode-the screen-grid. Immediately this tube became a favorite, especially in radio-frequency amplification work. But it had certain inherent faults. These are now overcome in the new multi or variable-mu tubes. Then scientists discovered that by adding still another, or fifth, element—the suppressor grid the tube was capable of delivering to the loud speaker a large amount of power with a relatively weak input signal. The significance of this discovery will readily be seen.

Until recently the most satisfactory form of alternating current power tube was the -45 type. This tube went far to give good radio reception, but is now forced to stand aside for the new -47 pentode. The -45 tube required a rather powerful input voltage which called for one or more stages of audio amplification. But the new -47 pentode eliminates all extra stages and obtains its input voltage directly from the plate circuit of the detector tube. It then delivers a large quantity of amplified power without distortion directly into the speaker. The -47 tube is about four times as sensitive as the old -45 type, and twice as powerful.

### Explanation by B. Francis Dashiell

The pentode power tube is really a screen-grid tube fitted with an additional space-charge grid. It gives the same amplification as a -27 tube in the first stage and a -45 in the second and last stage. One pentode is equal to two standard stages of audio amplification. Most manufacturers are turning toward single pentode for amplification, especially in the midget receivers. A pair of -45 tubes in a push-pull amplifier is obviously more powerful than a single pentode, but a first stage is necessary. A pair of -47 pentodes in push-pull eliminates this question and will give considerably more power than a pair of -45 tubes using the same hook-up. The use of a pair of pentodes in push-pull will give very high quality reproduction when operated directly from a power detector. The newer sets are using this conbination with satisfaction. Between the detector and the pentodes a single tuned audio push-pull transformer is used.

Both the -47 and -45 tubes use 2.5 volts on the filament which in turn heats the cathode, and consume 1.5 amperes. The bulb dimensions are identical, being  $5\frac{5}{8}$  inches high and  $2\frac{3}{16}$  inches in diameter. But the -45 tube requires a large UX socket to receive its four prongs while the -47 pentode takes a standard UY socket for five prongs. The heater filament, plate and control-grid prongs and socket leads are the same as for the -27 type tube. The screen-grid lead, however, is brought out through the prong used for the cathode connection in cathode type tubes. The new suppressor grid of the pentode has no external connection through the tube base, for it is attached within the tube to the filament or cathode and assumes the potential of the filament. The pentode tube, therefore, is not interchangeable with the -45 tube unless difficult alterations are made within the set.

The five elements or circuits of the pentode tube require some elaboration in order that the reader may understand what is happening within the new tube.

### The Five Elements

The filament. This is the "A" circuit of a battery tube, or the heater and cathode circuit of the a. c. tube. The filament is heated either by alternating or direct current. In the former case, however, the hot filament heats a separated cathode so as to eliminate the hum of the alternations within the filament. The cathode therefore becomes a source of electronic energy because streams of electrons—particles of negative electricity—pass across the space between the cathode and the plate. When this space conducts a great current of electricity the tube is said to have a large power output.

The plate. The "B" circuit of all This element is a positively charged electrode because it is connected to the positive terminal of the B battery or rectifier built in the set. The filament or cathode is connected to the negative end. When current flows between the filament and plate within the tube the circuit is completed. This flow will operate the speaker or some intervening resistor, inductance or transformer. Since power is furnished by the plate circuit it is known as the output circuit. When the output is considerable, such as in the case of the pentode, it reaches as much as 2.5 watts. Compare this with the small energy of only 7 milliwatts (.007 watts) of the tiny WD-11 tube!

The grid. The "C" circuit of most tubes. This grid is the controlling element for the flow of "B" or plate current; it continuously changes potential because of variations in the incoming signals. In turn, the grid becomes a "trigger" that controls the flow of electrons from the filament to the plate. These variations cause changing impulses which correspond to sound waves and, consequently, produce actual sound in the speaker. The control-grid is always placed between the filament and the plate. When the grid voltage is very small, but able to control large changes in the plate current or output of the tube, we then say that the tube has a

high Mu, which simply means a large amplification factor.

The screen-grid. The fourth element of a tetrode tube. It is a fine screen placed between the control-grid and the plate. Its purpose is to reduce the small but serious condenser-like capacity existing between the grid and the plate. It also prevents somewhat the flow of positive electricity in the form of ions



"Sammy Goldberg" himself If you aren't listening regularly to "The Rise of the Goldbergs" (NBC-WEAF, daily 7:45-8:00 p.m., EST) you are missing one of the descreedly popular features. Alfred Corn, who plays the part of "Sammy," also acts in a number of other NBC dramatic programs.

from the plate back to the grid and filament and the creation of what is known as a space-charge. In the three-element tube there is a feed-back from the plate to the control-grid which causes squealing and howling in the speaker. The screen-grid of the tetrode tube is given a positive charge, but at a much lower potential than the plate. The filament-emitted electrons are pulled through the screen to the plate.

The suppressor-grid. This is the new and fifth element of the pentode tube. It is an additional grid placed in the narrow confines between the screen-grid and the plate. It has no external base (Continued on page 21)

### BRAIN TEASERS for RADIO FANS

Get Your November RADEX FREE

If this keeps on much longer, we will have to raise the white flag. We are nearly swamped with correct solutions for the puzzles that appeared in September. We thought one or two of these would surely hold our puzzlers, but we are beginning to think that nothing will, although that Mexican state in June did take a lot of them off the free list.

Evidently more and more of our readers are becoming intrigued by these radio puzzles. "Many thanks for RADEX and the joy that the puzzles bring," writes Arthur H. Hardy, Chicago. "Right or wrong. I certainly enjoy these puzzles. I read your magazine from cover to cover," is Harold L. King's comment (Groton, N. Y.). "Never worked so hard in my life to save a quarter but get a great kick out of your puzzles," says C. Eugene Perry, Van Wert, Ohio. "I was just about to give up in the 'state and principal city' puzzle when I happened to glance at the RADEX map. There was the solution staring me right in the face. That is about the best map I have ever had for radio use," comments T. J. Johnson, Bowlegs, Okla.

Now for the correct solutions of the September teasers. The calls in No. 1, the code puzzle, were XEFE-CFCF-KFEL-WEXL.

In No. 2, the correct order for the cross-call puzzle was as follows:

CRCK
WMPC
WRAW
CCPW
WADC
WRAK
CNRW
WELK
GWWK

The code puzzle using station calls both ways translates to

XEX WBT CMCR CMK XEW KTM KGIR KTBI No. 4 was properly filled as follows:

CKCK WKRC KGEK WGY

Unfortunately the last two could be solved in several different ways.

And here are the October puzzles which we respectfully refer to the class in radio problems. Get the correct solutions of all these puzzles to us by the 20th of October and receive a copy either of the November RADEX or the map of North America. Subscriptions may be extended one issue for correct solutions provided request is made. All calls used in these puzzles appeared in the regular indices of the September issue unless otherwise specified.

No. 1 this month is a code or cipher puzzle, It consists of four station calls. Each letter stands for one of the ten digits. You are to turn these letters into figures so that, added together, they give the sum as shown.

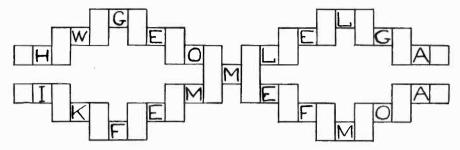
KFAB CKGW WGBC WKBW

Just to give you a start: If A plus B equals C and B plus C equals A, what does B equal?

Problem No. 2 is a simple little thing with seven squares so arranged that when seven letters are filled in, seven station calls will appear, all reading left to right, no calls being reversed.



No. 3 is another small problem in code. Each of the figures stands for a letter which, when properly deciphered, will give four station calls. All will read horizontally, left to right.



Problem No. 4 was submitted by Paul K. C. McAfee, Salina, Kans. One letter is to be placed in each of the twenty-two spaces so that twenty-one station calls will appear horizontally, reading left to right. No calls are reversed and none is used twice. This puzzle has been very well designed and should prove most interesting.

### Finding and Measuring Noises

A NEW device, called a "Radio Noise Meter," for the investigation of noises which may affect radio reception and which promises to be of material assistance in trouble hunting, has been developed by the General Engineering Laboratory of the General Electric Company.

The meter locates the source of the noise and measures its intensity. Efforts to improve radio receiving conditions have been hampered by the lack of a standard testing instrument and the standard of measurement. The noise meter makes possible a comparison of the test results of different investigators and provides invaluable data upon which fair and reasonable requirements for radio reception may be based.

The noise meter consists of two parts—a receiver unit to detect and indicate radio noises and a calibrating unit to measure the intensity.

The receiver is enclosed in an aluminum box and weighs thirty pounds. Six tubes are used. The pick-up is obtained with a rod antenna, two meters long.

The instrument creates a standard noise itself. By means of this it becomes possible to determine the intensity of the noise which is being measured. In operation the instrument is adjusted until the standard noise reads the same on the meter as the radio noise. The intensity is then read from a curve.

The portability of the instrument makes it readily applicable to tests in the field, in the home, or wherever the radio noise may occur.



"What is a reverse encore"? Here is Billy Scholtz demonstrating one while Phil Brac unlosses a "Mammy" song in the approved manner. Formerly known as "The Jolly Jugglers," the pair is now heard as "Doc and Tony" each Thursday at 5.30,p.m. EST over Columbia.

### Simple ANSWERS to Difficult QUESTIONS

### B. Francis Dashiell Technical Editor

#### Power Houses Ruin Reception

I live within two blocks of two power houses from which I get considerable noise on my new Atwater Kent receiver. Can you advise me what to do? I have heard that filters will stop this interference.

It is questionable whether the noise from the power house can be eliminated, for such interferences are best fought at the source. Even then a sensitive receiver will pick up entirely too much of this form of static. Perhaps it would be wise to talk the matter over with the chief electrician of the plants to see whether remedial measures can be attempted.

There are a number of static and noise filters on the market. It is obvious that we cannot recommend any one of them as being suitable. The performances of noise filters are far from being satisfactory, and, because they connect between the antenna and receiver, tend to diminish the strength of the signals being received. Rather fair results are claimed for buried or "subantennas." Also, devices known as capacity aerials, which take the place of outdoor antennas, are said to reduce external noises and increase the selectivity of the set.

It is suggested that, as an experiment on your part, you reduce the length of your antenna by at least one-half. It should not be pointed toward the power plant, but at right angles to a line connecting the receiver and the plants.

### Super-Heterodyne and Standard Circuits

What is the difference between the circuit used in a superheterodyne receiver and that used in most other types of standard receivers?

The super-heterodyne method of reception is entirely different from any other. Current is generated by a local oscillating tube which, when combined with the original signal current, is converted into a "beat" or intermediate frequency current. This beat current, which is low in frequency, can be ampli-

fied almost indefinitely with little loss. It then passes into a detector tube, as well as audio-amplifying tubes, before entering the loud speaker. The frequency of the beat current is the numerical difference of the combining frequencies of the oscillator and incoming signal currents. The entire radio-frequency circuit of the super-heterodyne receiver is set for a single frequency and this state of resonance is permanent. The great sensitivity of the superheterodyne is due to the fact that the local oscillator tube forces the incoming weak signals through the receiver by producing an extremely powerful beat current.

The so-called standard circuits make no provision for intensified heterodyne currents. The signal comes in the antenna and is passed through the radiofrequency coils by tuning them to resonance for the desired signal. Each tube takes up the signal and passes it along for additional amplification until it reaches the loud speaker. The super-heterodyne circuit is the most powerful and sensitive of all radio receiving circuits.

#### Variable-Mu Tubes

What are the advantages of the new multi-mu tubes over the older types. Can I change over to the new tubes?

The advantage of the new variable-mu tube (Type -35) over the older type -24 tube is that its amplification is controlled not by the screen-grid voltage, but by variations in the "C" or negative bias. The range of "C" bias is from -3 to -50 volts. The lower this negative voltage the greater the volume of the tube. The -35 variable-mu tetrode tube has been designed to eliminate the defects of the -24 tube. These defects were distortion, cross-talk, and other modulation disturbances, due to the large number of broadcasting stations operating at one time and the inability of most receivers entirely to separate stations so close together. The new -35 (some manufacturers use type number -51) tube also reduces the hum and receiver noises.

No changes are required in the receiver when switching over to the new tubes in place of the -24 type other than the matter of furnishing the proper grid bias required for volume control. This calls for a slight alteration in circuit wiring depending upon the particular scheme used in individual receivers.

### Pentode Tube Superiority

Is a set with one pentode tube better than one having two other tubes?

You will find a complete answer to your question in the article on the pentode tube elsewhere in this issue of RADEX.

#### Radio Corporation of America

What does the expression "Licensed by RCA" mean when marked on radio

receivers and other apparatus?

As is the case in most large industries the control of valuable patents and rights eventually becomes vested in the hands of some parent organization. The Radio Corporation of America is the controlling industry in the radio world. It has bought in many of the essential patents. If a manufacturer wishes to build and sell some piece of radio apparatus he must first obtain the permission of the Radio Corporation of America if that organization holds the rights to the circuits, tubes, and methods employed in the new proposition. In this case the manufacturer or person pays a stated royalty to the Radio Corporation of America. In some few cases prolonged fights in the law courts of America have resulted from revolt at paying trubute in order to use radio methods and inventions.

#### Our Short Wave Adapter

In the May issue of RADEX you published a diagram of a short wave adapter using the -27 tube for detector. My set uses a -24 tube for detector. How can I construct an adapter for this tube? What changes will be necessary in your diagram?

No changes are necessary to operate this adapter whether the receiver uses a -24 screen-grid detector or a -27 detector. The prongs and socket connections for both tubes are identical as far as this short wave set is concerned. The grid prong of the adapter plug is left open



Major Edward Bowes in the spotlight. The popular managing director of the eapitol Theater recently celebrated his sixth anniversary of broad-casting. With the Capitol Family each Friday esening at 7:00 p.m. EST over the NBC-WEAF network.

when the -27 detector is used. This same prong on the -24 tube is the screen-grid. and the corresponding hole in the socket is the positive lead to the screen-grid. These connections are not used. The adapter plug connects only to the two heater leads, the plate, and the cathode. But you must procure a -27 detector tube to use in the detector socket of the short wave set. Note the answer to a question on page 8 of the September issue of RADEX regarding a correction in the design of the plug-in coils.

### Lightning Arresters

Should I keep my lightning arrester in the circuit all year? Will it prevent the flow of electrostatic fields during winter and summer, and filter out static? Mu arrester has a choke coil and condenser mounted within.

It makes no difference whether the arrester remains in the antenna and receiver circuit all year or not. Provided (Continued on page 25)

### WHAT'S DOING IN DX?

### Readers' Reports and Chatty Comment

INCE writing you last I have had verifications from JOAK Tokio, Japan, and from 2FC and 2BL Sydney, Australia," advises Hugo L. Markland, P. O. Box 232, Steamboat Springs, Colo. "I asked JOAK for a list of Japanese stations as RADEX did not have a Japanese station listed in the vicinity of 600 kcs, and I continued to get the call letters of JOAK close to that frequency. However the list furnished cleared that up as a twin station of JOAK has an experimental wave at 590 kcs." Mr. Markland constructed a little crystal set on which he receives WOAI San Antonio about six hundred miles

"I have two stations from over the Atlantic, namely 2LO London and Stuttgart, Germany (no call letters), both verified," reports Clyde Ham, 1002 S. Lafayette St., Shelby, N. C. "The best time is around 5:30 to 6:30 a.m. EST. My log is around 450 stations now. I started verifying all the best catches in 1928 and they run like this: JOGK Kuamoto, KGBU Alaska, KGMB Honolulu, CKMO Vancouver, VAS Nova Scotia, CFCY P. E. I., WKAQ Porto Rico. I have a verification due me from JOIK. Have heard KGU but failed to get enough for verification."

#### Some Good Records

"Although I live away up here in Maine, I have picked up 231 stations," says Carl Hansman, Bethel, Maine. KOA Denver, KSL Salt Lake, KFI Los Angeles, XED Reynosa, and XEN, XEW and XEB are among his catches. "Although I live quite near WKAV Laconia, N. H., I have been able to hear it well only a few times," comments Mr. Hansman. "I often hear it heterodyning with WNBJ New Bedford. It seems to be on the air from 7:30 to 9:00 p.m. every day but Sunday, when it doesn't go on at all."

"With a Radiola 46—and RADEX—I have logged 370 stations in the last 15

months," reports Chester Dodge, Lexington, Nebr. JOAK, VAS and 2YA are included.

Harold E. Shade, 611 Washington St., Waterloo, Iowa, has a verification from the unlicensed KTST Seymour, Texas, which is using 1210 kcs. and 50 watts without permission of the Radio Commission. He needs Nevada, Vermont and Delaware to complete his geography. Mr. Shade uses for a ground a ten-foot pipe driven into the ground about nine feet. This pipe he keeps filled with water, the lower end being plugged.

E. L. Peters, Box 65, Westport, Nova Scotia, has logged 530 stations with his Crosley three-tube including the station in Stuttgart, Germany, which came in at one a.m. AST. Mr. Peters would like to know who won the cash prizes for distance that were offered by XEH Monterrey, Mexico. The broadcast was on March 4th. Mr. Peters received a verification but never heard about the prize.

George B. Holland, Jr., 1340 Baker Ave., Schenectady, reports the same situation with WOKO and WHEC as referred to in another item respecting WWVA and WOWO. The same explanation will cover. "I now have a log of 251 stations," adds Mr. Holland. "I have only eight on the West Coast but hope to remedy that this winter. I notice that the 910 and 1030 channels seem to be stickers with many DXers. The highest frequency, 1500, seems to be rather tough too."

"From October 15th, 1930, until March 24th," writes Paul K. C. McAfee, R. F. D. 4, Salina, Kansas, "I succeeded in logging 414 broadcasting stations on my Philco 9. This list is made up entirely of recognized broadcasting stations. I have fifteen Mexicans, four Cubans, Porto Rico, Six Japanese, one Argentine, one Australian, one New Zealand and ZBW in Hong Kong."

Benjamin Contreras, Box 74. Marina Sta., Mayaguez, Porto Rico, writes: "I have had my Majestic eight-tube superheterodyne since last February and

since that time, although atmospheric conditions have been very bad, I have been able to hook 115 stations located in nine different countries. My best catch is LR3, a 1000-watt station in Buenos Aires, Argentina" Mr. Contreras agrees "it doubles the pleasure of radio"

Chas. E. Summers, Sr., of 28 Gallatin Ave., Buffalo, N. Y., reports he has logged about 300 stations since last March, his best catch being KFPM Greenville, Texas, on fifteen watts. He has had trouble getting verifications from over forty stations all of which advise that they verify.

"I have been using RADEX since I bought my 1928 Model 70 Majestic and I have over 300 stations, including 44

states, Mexico, Cuba, Haiti and Canada. I have 59 of the CBS and all but KECA and KOMO of the NBC," reports Andrew F. Crane, Jr., 703 American Bldg., Baltimore, Md.

E. Black, Jr., 576 Manor Lane, Pelham, N. Y., has had 213 stations in the BC band and reports he nearly had heart failure when he tuned in 2BL Sydney, Australia at 5:30 a.m. recently on a second-hand Radiola he had just bought. Mr. Black would like to correspond with DXers anywhere.

"Under a great handicap of a near-by railroad division headquarters with lots of interference, I have logged 290 stations in the last seven months with my RCA 82," writes Richard Walker,

(Continued on page 27)



The Ponce Sisters are one of the most successful harmonizing "sister teams" on the air. They have risen steadily since they began broadcasting a few years ago. They have made a number of feature shorts for talking pictures. Frequently heard in NBC-WJZ programs. (Dorothea is on the left and Ethel on the right.)

### The "WHY" of CALL LETTERS

Their Origin and History Traced

By L. A. Corridon

Radio Division, U.S. Dept. of Commerce

O doubt there are thousands of radio enthusiasts who have deliberated as to why call letters are assigned to radio stations, especially broadcasting stations, and as to what significance there is in the different groups of these letters.

In the early days of radio, or wireless, as this science of communication at one time was called, there was not very much system in the use of these calls for station identification.

After the establishment of the Radio Division of the Department of Commerce, on July 1, 1911, to enforce the provisions of the Radio Act of June 24, 1910, which was the first radio act enacted in the United States and following the ratification of the Berlin Convention of 1908, this country was allocated all combinations beginning with N, W and all of the K combinations with the exception of certain calls then assigned to stations of other countries. Subsequently, all the K, N and W calls, with the exception of the groups beginning with KA, KB and KC, were reserved for the United States.

The Radio Division, in order that the identification of stations may more readily be ascertained, allocated all K calls to land stations on the Pacific coast and to ships plying the Atlantic Ocean and Gulf of Mexico stations. The W calls were allocated to Atlantic and Gulf coast stations and stations on the Great Lakes. Ships plying the Pacific Ocean were also assigned W calls. This practice worked smoothly until the opening of the Panama Canal. From that time on, with ships going from one ocean to the other, either K or W calls were of necessity used and assigned to vessels in both oceans.

During the infancy of radio practically all land stations were on the coast, as all communication was done between shipto-shore stations, there being no pointto-point communication between sta-

tions within the country. K calls at the time of the beginning of broadcasting were assigned to inland stations east or west of the Mississippi River; however, after the first broadcasting stations were erected, that river was made the dividing line of K and W calls. KDKA, East Pittsburgh, and KYW, Chicago, are among the pioneer broadcasting stations which accounts for these stations having K calls assigned to them.

Along about 1917, when this country entered the world conflict, the call combination of three letters were exhausted. making it necessary for the grouping of an additional letter. The International Radiotelegraph Conference held at Washington in 1927 allocated the remaining combinations beginning with KA, KB and KC to the United States, due to the arrangement decided upon to assign only three-letter calls to stations in the international service, that is, land stations communicating with ships at sea and land stations communicating with foreign countries. The number of stations of this category had increased tremendously. Four-letter calls under the Convention are now assigned to ships and land stations in domestic point-to-point service and five-letter calls are given to radio-equipped aircraft.

### Fitting Calls to Stations

Shortly after the inception of broadcasting, the idea of giving calls to broadcasting stations that would have some special significance was conceived and, to begin with, assigned KOP to a station of the Detroit police department which since then has been placed out of commission. With the popularity of this call came a deluge of requests for calls designating the initials of a slogan, the owner's name, the name of a city, or state in which a station may be located. The station of the Radio Corporation in Washington, asked for WRC, which readily can be seen to stand for Washington Radio Corporation. Then along came a number of others, including WGN, Chicago, which stands for the slogan of the Chicago Tribune; WCCO.

St. Paul, Washburn-Crosby Co.; WACO, Waco, Texas, as one can observe, spells the name of the city in which this station is located; WJJD, Mooseheart, Ill., forgetting the initial letter which must be assigned, stands for James J. Davis, Director General of the Loyal Order of Moose, former Secretary of Labor and now junior Senator from Pennsylvania; WMMN, Fairmount, W. Va., stands for Senator Mansfield M. Neely, of that state; WGP, Atlantic City. World's Greatest playground, is very appropriate.

stormy experiences. KGB, now assigned to a station, the transmitter of which is located in San Diego and the studio in Los Angeles, was at one time used by the steamer D. N. Luckenbach, sunk by a submarine off the French coast in 1917. KOB, State College, New Mexico, was formerly used by the steam screw Princess Anne up to the time she broke in two on Rockaway Shoals, New York, with a cargo loss of \$500,000. Radio played an important part in the rescue of the 106 persons on board.



Miss Lee Morse, one of the leading exponents of blues and southern Mammy songs. Formerly a musical comedy star, she has made dozens of phonograph records and appeared in a number of motion pictures. Scheduled for several NBC programs.

There are many others using exceptionally appropriate calls. In Florida, at Miami Beach, officials could not assign the call requested, but, thinking of Florida's semi-tropical climate, assigned WIOD which became the initial letters of that station's slogan, viz., "Wonderful Isle of Dreams." The corporate name of this station is now Isle of Dreams Broadcasting Company. A number of broadcasting stations which are incorporated have used their call letters for their corporate name or as the name of ownership.

A number of the calls used today were formerly assigned to stations now out of existence, some of which have had In each of the three-letter call groups allocated, it will be seen that there are 676 combinations and in each of the four-letter groups there are 26 times that number, or 17,576, making a total of 54,756 combinations available for assignment to United States stations.

With the growth of aviation and the installation of radio transmitting equipment on the larger mail and passenger aircraft, all calls beginning with the letters KH were reserved for stations of this class. In addition to KH call signals of aircraft must have three other letters, making a total of five letters in the complete signal.

### PHIL COOK



PHIL COOK grins at his own jokes. So do other people, so it is all right. He has to work hard to be funny, but that's understandable, too, when one remembers that he writes two original fifteen-minute radio programs every day but Sunday.

Two years ago he almost deserted the National Broadcasting Company because he didn't have enough work to do. Then he decided to stick around and see what happened. Today, he is one of the highest-salaried radio stars.

He never went to college, but he is big enough to wear a 'coon skin coat. He's six feet up and down and could play guard on any football team. No excess fat, either.

Married. Crazy about his wife. They met when they were in grammar school in East Orange. N. J. Been sweethearts ever since, and will soon celebrate their fifteenth wedding anniversary. Have a daughter not quite a year old. Named her Phyllis, because if the baby had been a boy, Mrs. Cook was going to call it Phil, Jr. Cook gets slightly incoherent

when he talks about his child. Almost misses engagements because he forgets time when he plays with her.

Will only buy one pair of shoes at a time. When they wear out buys another pair. Insists on soft, plain-toe shoes. Indifferent about his clothes, but is always well dressed because Mrs. Cook insists.

Played the violin when he was a youngster and still plays it. His parents thought he would be a second Kreisler, but he earned his first pay-check as a commercial artist. Made a good living at commercial art "and played around with writing in his spare time. Wrote musical comedies and three of them had Broadway runs.

Says he went into radio to surprise his family. Started as a ukulele player. His present instrument looks like the result of a mating between a uke and a mandolin. It's called a tiple.

He was born in Coldwater, Mich., but East Orange is still the old home town to him.

Lets his wife handle all his finances and draws enough cash to pay for lunches, car fare and cigarettes. Saving his money and hopes to retire and spend the rest of his life painting worthwhile pictures.

Admits some of his jokes are terrible, but claims that the percentage of people who will laugh at anything is surprisingly high.

Writes all the songs he sings in his programs. Once made claim he had never sung anything but his own material. Records show he once sang "Home, Sweet Home" at a radio banquet.

Has a slight choke in his voice that he uses effectively. When he is broadcasting keeps one eye on the man in the control room. If he can make that hard-boiled person smile or laugh, he knows he is clicking. Works his own sound effects whenever possible and uses his voice for a ferry boat whistle.

Seldom takes less than six characters during a broadcast. Rings the various characters with different colored pencil marks in order to keep them straight. Writes his own stuff, using the "huntand-peck" system, and doesn't make a carbon copy.

Is one of the best-looking men in radio, but isn't conscious of it. Speaks very softly at all times. Grins a lot and remembers faces.

Some day he plans to write a book of stories for children and do his own illustrations.

He doesn't belong to any clubs or organizations. Has a prejudice against "jining."

Tries to read all his own fan mail and lets his wife read it. Even the mash notes.

Does his work at all hours of the day and night and even writes lyrics on the subway.

Doesn't like making personal appearances and hates to put on make-up.

He sits down when he broadcasts.

His favorite gag is the one he uses every day. "All the News That's Print to Fit." Gets fifteen letters a week telling him he is still making the same mistake on that phrase.

Whistles during his broadcast, but if something strikes him as funny, he has to smile so he has an understudy available if his whistle is erased by a grin.

Eats his breakfast between his two broadcasts in the morning, Likes lots of coffee.

He likes to work.

### Light on LKO at Oslo

THE following interesting comment on foreign station reception comes from Don Townsend, 1421 Arch Street, Berkeley, Calif.

"I have a letter from radio headquarters at Oslo, Norway, which reads as follows: "There never was a station LKO at Oslo operating on 608 kcs. In fact, there is not and never was any station in Oslo operating on the regular broadcast band. Our high-powered Oslo station, using 75 kilowatts operates on the low frequency of 280 kilocycles, and hence cannot be received in America. Furthermore no European stations announce call letters, aside from commercial code

stations. We are sure that there must be some mistake about anybody ever having heard a station LKO at Oslo, and are positive that no verification has ever been sent out for such a station. Our relay station at Trondheim, on whose program you have reported, operates on 608 kilocycles with only 13.5 kilowatts, so your reception is remarkable indeed considering the vast stretch of land between the statue of Liberty and the Golden Gate.'

"Those fans who have heard a station that they believe to be Oslo on 608 meters and have no verification might try writing to Trondheim for one, as it might have been that station they heard instead of Oslo. They sent me a very nice verification together with a complete list of Europe's two hundred and forty odd broadcasting stations in operation at the present time with their wave length and power. At any rate, the above letter seems to establish the fact definitely that there is not and never was any high-powered station at Oslo, and I am quite sure it is correct coming directly from the Norwegian radio headquarters at Oslo.

"Although I have received eight European stations with verifications for the six mentioned above, all three of my aerials are strongly favorable to Australia and trans-Pacific stations. This, together with a favorable location out here on the coast has been largely responsible for the sixteen stations in Australia which I have verified—every one of them during the last year. Station 3.G.L., at Geelong, Victoria, Australia, has asked me to mention their station to my radio friends, and ask them to report on their programs if they are successful in picking them up. Although they say they are only using 50 watts of power, they have a wonderful location, and come in over here as loud as 3.A.R. who uses 5000. They are operating on 214.2 meters daily from 1:15 to 4:30 a.m. A verification that is well above the ordinary, it is well worth the trouble of reporting to them should any fans succeed in picking them up. Reception on all Australian stations is at its best around 3:00 to 3:30 a.m., PST."

### RADIO NEWS from Our Readers

THY do you not list programs from the NBC key studios in Chicago which are WLS in the daytime and WENR during the evening," asks Lorne Chaput, Kapuskasing, Ont. "During a recent talk they claimed to have stations assigned to their network." While the greater part of the NBC features take the air through WEAF and WJZ and are carried to other stations on the network by telephone wires, yet many of their programs originate in Chicago studios. Many others are picked up in various other cities such as Salt Lake City, Cleveland and others. It is immaterial where a program originates. No one can possibly tell whether it is taking the air from Chicago and then going to New York by wire or going to New York by wire first and thence to Chicago by wire again. The programs come from all stations on the net simultaneously. RADEX enters all programs for which it has space regardless of where they may originate. To print all the programs of the NBC and CBS chains would require every page of this magazine. We must necessarily eliminate some of them giving preference to those during the evening hours and those with five or more stations on the chain.

### **Experiments With Grounds**

G. A. Doerflinger, 419 Wyomissing Blvd., Berkshire Heights, Pa., has been conducting very extensive experiments with grounds. Among those he has tried are the cold-water pipe. Ford radiator. copper fire extinguishers, U.S. Standard, 12-way pipe, iron pipe filled with water, iron pipe filled with salt, B-batteries, A-battery and copper plate buried in rock salt. "About a month ago," he writes, "I decided to try Ollie Ross' ground of copper tubing and test it against some of the grounds I have experimented with. In direct competitive tests this ground gave an extremely low background noise—almost negligible. The reason lies in the condenser effect which takes place after signal has passed through receiver to ground. The

### What the Mail Man Brings Us

Ross ground has a high degree of sensitivity and selectivity with tonal quality beyond compare. I can readily see where a large part of Mr. Ross' success in his DX record lay as this ground combines several excellent features which make it revolutionary. It is the closest thing to perfection I have experimented with so far. I would like to say in behalf of Mr. Ross: 'He knows his radio'.'

#### Dr. Brinkley's New Station

In spite of the statement of the builders of his new station, as published in the June RADEX, Dr. John R. Brinkley, former owner of KFKB, Milford, Kansas, denies that he has any intention of operating his new Mexican station on WDAF's frequency. Mr. Eugene Martin, Radio Editor of the Wichita Eagle, sends us a clipping of an interview with Brinkley in which he says: "How anybody could think that Mrs. Brinkley and I would disgrace ourselves by usings 610 kcs. is more than I can understand." The new Brinkley station, XER, will have a split frequency, 665 kcs., thus coming halfway between WEAF on 660 and WMAQ on 670. The station is licensed by the Mexican government for 100,000 watts, but will go on the air with 65,000, thus making it the most powerful station on the continent. It is now being installed at Villa Acuna on the south bank of the Rio Grande, with studios on both the American and Mexican sides. The opening date is set for early October.

#### The Ross Record

A defense of the record of Ollie Ross comes from David F. Thomas, Proctorville, Ohio, himself a prominent DXer, when he writes:

"A word about total number of stations that our friend Mr. Ollie Ross claims. Some of your readers seem to be of the opinion that this includes every station in the world on the broadcast band. Mr. Ross could add several hundred more and still not have all stations that broadcast on the broadcast

band. How many of your readers ever had FN on the broadcast band? WKK, DV, GI, VAR, OA, DD and dozens of others. How many ever had AW5, BEI and several more located right here in the United States, using special call letters, besides N, W or K. These are all licensed stations, not amateur nor experimental. So you see it was easy for Mr. Ross to log 1309 or even more stations on the broadcast band. He is an honest DXer I am sure, if not, he would never have admitted that he traveled all over the country.

### Two Stations at Once

"Why do WOWO Ft. Wayne and WWVA Wheeling, broadcast at the same time in the evenings when they are both on the same wave length?" inquires Robt. L. Rankins, 116 Holmes Ave., Springfield, Ohio. "Eight o'clock p.m. and the Camel Quarter Hour is just ended and I can't tell which station broadcast it is as both stations announced at the same time." Many stations operating on the same wave are given permission to broadcast simultaneously during the daytime. After a certain hour they must divide time. This hour is later in summer than in winter. After September first the division of time between WOWO and WWVA is as follows:

DAY: Both stations operate simultaneously until 6:45 p.m. EST.

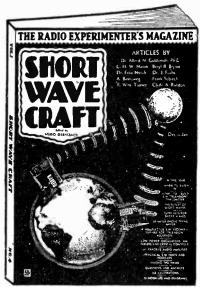
NIGHT: WWVA operates alone from 6:45 p.m. to 8:30 p.m. EST daily and from 10:30 p.m. to 1:00 a.m. EST on Mondays, Wednesdays and Saturdays. WOWO operates alone daily except Sunday from 8:30 to 10:30 p.m. EST and from 10:30 p.m. to 1:00 a.m. on Sundays, Tuesdays, Thursdays and Fridays.

"I wonder if any one else has had this experience when DXing," asks 'Miss B.', of Illinois. "About 9:30 p.m. Sunday, August 16th, I tuned in WGY. Almost at once I heard a voice say 'From the NBC in New York' followed by two other voices, one "This is KGO San Francisco, California' and the other 'WGY Schenectady, New York.' Evidently it was a chain broadcast taken by both KGO and WGY, and I, near (Continued on page 28)

### The Radio Experimenter's MAGAZINE

SHORT WAVE CRAFT, Mr. Hugo Gernsback's latest radio magazine, has been called his greatest achievement in radio magazine publishing. SHORT WAVE CRAFT is the one and only real big magazine on short waves you have wished for so long. HERE IS PROOF!

ON ALL LARGE NEWS STANDS



Size Large 9" x 12"

**50c** the Copy

Among the contributors to SHORT WAVE CRAFT, we find Lee de Forest, F. H. Schnell, "Bob" Hertzberg, C. W. Palmer, H. W. Secor, Clyde Flich, R. Wm. Tanner, Dr. Alfred N. Goldsmith, Beryl B. Bryant, C. W. H. Nason and others.

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

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

Name	
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City	

### TED HUSING



HEN Queen Marie of Roumania got lost in New York on her way to the studios of the Columbia Froadcasting System, Ted Husing took the microphone and filled the awkward moment with a flow of lively chatter which completely satisfied a large and expectant audience. Columbia sat back beaming and said with pride, "Our Ted." When Helen Morgan was ill at ease before broadcasting for Columbia, Husing—judge of human nature and connoisseur of celebrities—made La Morgan comfortable by slipping a piano beneath her and a handkerchief in her hand.

Not many years, but much experience, has developed in him this trick of doing the right thing at the right moment. Edward Britt Husing was born twenty-eight years ago in a town just nicely inside the border at Deming, N. M. He grew up in Gloversville, N. Y.

Here young Ted developed sturdy lungs and an active body. The Erie canal, built for shipping, is equally excellent for swimming and skating. It was only a step to the banks of the canal and Ted was in the thick of everything—swimming, wrestling, boxing, football and baseball. He became the leader of his gang and Husing's gang won all the Gloversville championships.

When his family moved to New York, Ted went to Stuyvesant High School. In spite of the fact that he had to study hard he starred at baseball, basketball, soccer and football. Football was his forte. Twice in succession he was selected as all-scholastic center.

When he was preparing to enter college, the United States went into the World War. Ted added a few years to his age and landed not on the western front, but in the intelligence service on Governor's Island, New York, where he distinguished himself as a boxer and was retained to teach other soldiers to box. The Armistice left him without a single inspiration for the future. College he considered out of the question and business he would not consider.

For a year he played professional football and basketball, but gave it up to sell furniture. He had not mastered the quick jab and thrust of his fighting tongue and was fired when his employer found it was easier for him to dance for his customers than to sell chairs. His next job was teaching aviation to the New York police force. This came to an abrupt end in a smash when his ship slipped out of control and went into a nose dive. The future announcer emerged dripping mud and pollywogs.

#### Real Estate to Radio

Still in search of a vocation edged with excitement, Husing went to Florida. Instead of selling real estate, however, he taught gymnastics and Charleston dancing.

The call of the South soon palled and Husing headed back to New York. He arrived in time to join 609 other applicants for the job of announcer at station WJZ. He got the job and his success was immediate. Within six months he was introducing the President of the United States to 50,000,000 people. He became one of the speediest "ad lib" announcers in the country. The secret of his tre-

mendous speed is softness of tone. Ted likes to regulate his pace to the tempo of the event he is describing. He has kept up with the whistle during a basketball game, one of the fastest of sports. In the studio one day, he improvised an imaginary prize fight for the entertainment of visitors. So convincing was his performance that his listeners placed bets on the outcome.

Husing regards his report of the Floyd Bennett funeral as his best achievement in radio work. It was almost an impossible task at the outset. The plans were made only the evening before and permission had to be obtained from Government officials, the director of Arlington Cemetery and Mrs. Bennett.

On the morning of the funeral he

received Mrs. Bennett's wired consent, whereupon he hastened to Arlington to supervise the laying of 17,000 feet of wire over hill, stream, and forest to the nearest transmitter. From a small tent, which offered scanty shelter from the wind and rain, and with his hat shielding the microphone, Husing gave an unforgettable description of the ceremonies. Thousands of letters were received from listeners. These were appreciated because for two weeks Ted was in bed with the grippe.

His very good friend Paul Whiteman gave Ted a portable victrola and every night as he works on forthcoming programs, including his own "Sportslants," he plays band records over and over

again.



He is the first announcer to describe a golf match stroke by stroke. For the nation's golf fans he broadcast a complete account of the National Open Golf Championship at Minneapolis. Husing carried a knapsack transmitter on his back and a microphone in his hand. It was worth a lame back he said. Columbia again took a deep breath and exclaimed with "Our pride. Ted!"

2

And here is Ted hard at work looking completely fatigued with the day's labor. The young women are some of the entrants in the bathing beauty contest of the Eastern Michigan Water Carnival at Bay City. It's a hard life, wot?

### "Best Minds" WANT RADIO CONTROL

### Plan to Educate Us

ACCORDING to the National Advisory Committee on Radio in Leducation, the American people do not know what they want in radio and ought not to have it if they do. According to some of these professional educator-lobbyists, nothing should be allowed over the radio which is not educational or at least informative. They think American radio should be placed in governmental hands with censors composed of our "best minds" such as the gentlemen of the N. A. C. on R. I. E. As a starter they have had a bill introduced by Senator Fess of Ohio, chairman of the National Republican Committee. which would set aside fifteen per cent of the broadcast band, or 13.5 frequencies. for the use of educational institutions.

Mr. Armstrong Perry, director of the Committee, believes that "the use of radio would increase if the state governments, the federal governments, the institutions of higher learning, the public schools and educational organizations could have reserved channels so that they would have an opportunity to develop programs which would be free from even the suspicion of commercial objectives." We can just imagine people hastening home after the day's toil to tune in an address by Mr. Perry on "The Quest of the Ultimate" or the "Joy of the Higher Life." What these censors would do to poor old Amos 'n' Andy is awful to contemplate. For once give these self-appointed leaders fifteen per cent of the radio field and they would immediately start lobbying for the other eighty-five. Without the least doubt, their objective is censorship of all radio programs.

These lobbyists are trained workers in impressing Congressmen that the people are back of them. They depend upon the people, that is you and I, being too busy or too indifferent to let our representatives know that we are not.

The minimum consequences of enacting the Fess bill would at one extreme mean putting out of existence about 30 stations on clear channels, most of them on high power representing large investments, in view of the fact that no additional wave lengths are yet available and that the wave lengths sought would have to be cleared of their present occupants to make way for the proposed educational services. At the other extreme, the report continues, it would force the elimination of 240 local stations of 100 watts or less, plus about 50 regional stations of from 250 to 1.000 watts.

"Between the two extremes a large number of variations would, of course, be possible. It is difficult to calculate the loss both financially to station owners and in terms of broadcasting to the listening public. Many communities that now receive only one program would find themselves without any service (except possibly one of continuous educational matter). Other communities that now have a choice of two or three programs (e.g., one from either of the network systems and a local program) would find themselves exceedingly reduced.

Even if given the 13.5 channels sought, the educators, according to the committee, could not use them to afford satisfactory reception to more than a comparatively small fraction of the area of the United States. Sponsors of the Fess bill, who have been centering their attack largely around charges of overcommercialism and monopoly in radio, are said to have no plan or program for putting their proposal into effect, and are charged with conducting their campaign for wave lengths "on the strength of plausible utterances which, if carefully studied, would be declared unsound by the departments of physics of every one of the educational institutions in behalf of which they profess to speak."

### Special Far North Broadcasts

The Saturday night broadcasts to the Far North from Station KDKA Pittsburgh, and its short wave auxiliary, W8XK, will be expanded on October 7 to include similar programs from WBZ, Springfield, and WBZA, Boston, and their short wave auxiliary, W1XAZ. The latter stations will broadcast messages to missionaries, fur trappers, mounted police and others dwelling in the Arctic every Wednesday night at 11:15 EST.

Anyone having relatives or friends living in the isolated regions of the North may send messages to the stations to be read into the microphone. In addition, KDKA is embarking on a special schedule, beginning October 3, of similar programs destined to be heard by United Presbyterian missionaries in India, Ethiopia and other countries. Not only those to whom the messages are destined, but the regular audiences of KDKA, WBZ and WBZA can tune in the programs. The Westinghouse Company has furnished this service from KDKA for the last eight years.

### Chicago Stations Go to Court

HREE of Chicago's leading broadover the issuance of temporary casting stations have gone to court licenses to them by the Federal Radio Commission as an outgrowth of the highpower radio controversy. Appeals from the Commission's action of July 7, inserting conditional clauses in the renewal licenses of Stations WENR, WLS and WGN, have been taken to the Court of Appeals of the District of Columbia. The wave length occupied by the former two stations is being sought by Station WTMJ, at Milwaukee. while WGN's channel has been applied for by Station WCFL, of the Chicago Federation of Labor.

Because it has not yet decided the high power case, in which more than two dozen stations are seeking the eight vacant assignments for the 50,000-watt maximum power, the Commission inserted the temporary clauses in the licenses, dated August 1.

Louis Titus, representing both Station WENR, operated by the National Broadcasting Co., and WLS, operated by the Agricultural Broadcasting Co. under a working arrangement with the N. B. C., and Louis G. Caldwell, representing WGN, operated by the Chicago Tribune, in their appeals challenge the Commission's authority to issue conditional licenses without hearing. They also challenge the constitutionality of the action, claiming it violates the Fifth Amendment to the Constitution, in that the stations may not be deprived of property without compensation and due process of law. In addition, Mr. Caldwell contends that the clause is void because the action was not taken by a quorum of the Commission, but by one commissioner. The Commission adjourned over the summer on June 26, he said, and the action was outside the scope of less than a quorum of its membership.

### Did She Sing It?

To Natalie Towers, Columbia's "Miss Television," belongs the distinction of winning what is perhaps television's first proffer of a "date." An electrical engineer in a nearby city, who had been tuning in the visual signals of W2XAB, New York, wrote to Miss Towers that seeing and hearing her "has won my heart." Then the romantic youth asked her to show evidence that she was interested by singing "Lover Come Back to Me" on one of her programs. If she did, he said, he would wire when he would come to New York and meet her.

#### NEW STATION IN MONTE CARLO

Europe's tiniest independency, Monaco, home of Monte Carlo, is planning to erect a powerful new broadcasting station.

### GOSSIP from BEHIND THE "MIKE"

By "Betty"

YOL. STOOPNAGLE and Budd, otherwise known as the Tastyeast Gloom Chasers, must have their jokes even at the expense of their colleagues at the Columbia studios. "Something just awful," sobbed the Colonel, "happened to Arthur Pryor tonight." "Why, what was that?" asked Budd sympathetically. "Didn't you hear?" came back Stoopnagle, "Somebody stole a march on him." These two irrepressible wags, by the way, have received an elaborately prepared fan letter bearing an intricately painted coat-of-arms and much Chinese writing, as well as a discourse on the death of Schultz, signed by a gentleman who calls himself "Ay Fuey," which must have taken much time to prepare. And speaking of television brings to light another gag from the famous Colonel. "Well," a friend asked him, "What do you think of television?" Just then the beautiful and blonde Harriet Lee passed by. "I don't know much about it," replied Stoopnagle, "but I can certainly tell-avision when I see one."

You may see Ann Leaf in the movies soon, as she has just made a series of shorts. "Little Organ Annie," as she is playfully called by her studio friends, has among her souvenirs, the latest book of the novelist, A. Hamilton Gibbs, one of her favorite writers, inscribed, "To Ann Leaf, who can say it on the organ better than I can on the typewriter." Incidentally, these two have never met. Another admirer of the diminutive Ann is the famous Phil Baker, vaudevillian and accordionist, who admits that she is the only radio performer to whom he ever addressed a fan letter.

Artells Dickson, who is the McHeather of the Nit-Wits and Mr. Fixit, is an accomplished performer of dialect songs of all types, especially the songs of the cowboys of his native Oklahoma, and Scotch ballads. After one of his concerts

in Chicago a reviewer paid him the compliment of saying that he closed his eyes and imagined he was listening to the eminent Sir Harry Lauder. Artells is much in demand for television, being programmed as "The Wandering Vagabond."

Andre Baruch, one of Columbia's rising young announcers, was one of Columbia University's best athletes not so very long ago. . . Henry Burbig refers to announcer John Mayo as Mr. Mayonnaise. . . . It was through Burbig that John got his start in radio.

The Boswell Sisters are on a road tour, appearing on the stage of the RKO theaters in Cincinnati, Chicago, Cleveland, St. Louis, Pittsburgh and New Orleans. The last named is their home town, and it will be their first visit there since they skyrocketed to radio fame. This is not bad news, however, for their fans, as they will continue their regular broadcasts, to originate in the Columbia studios of the various cities visited. It was in Chicago that this trio scored their first success after leaving their native New Orleans several years ago.

Jack Miles, cheerful leader of the Hollywood Gardens Orchestra, whose danceable tunes are heard on the Columbia chain, was for a long time trombonist with Guy Lombardo's Royal Canadians. He is the only musician ever to play with that band who is not still with the Lombardos, whom he left to start his own organization. . . Saxophonist Victor, the youngest of the Lombardos, has become engaged, and thus romance has struck a member of the orchestra the second time in a month or so.

Bert Lown, director of the Biltmore Hotel orchestra, can't read or write a note of music, yet he has composed three song hits within a year—"Bye Bye Blues," "By My Side," and "You're the One I Care For." He has sixteen

other dance units working under his direction. He's only 27 and is an excash register salesman. Bert has one of the longest contracts ever allotted an orchestra leader, if not the longest. New York's Biltmore Hotel signed him to a ten-year contract, and he's now in his second year.

Bing Crosby, baritone, newcomer to radio stardom, can be heard in six programs weekly over the Columbia network. Bing is noted for the intriguing quality of his "torch" ballads. Back of the signing of Crosby is an unusual story. Last June Mr. Wm. S. Paley, President of Columbia, took a trip abroad to seek out new foreign talent, and while aboard the S.S. Europa, heard one of Bing's phonograph records, and immediately dispatched radiograms to New York for information concerning this unusual baritone. Crosby was working busily in California, where he and his orchestra were in demand at clubs, recording studios and the movie lots where shorts were being made. Back in New York finally, Mr. Paley arranged with a motion picture company to preview a series of reels just completed by Crosby. A few minutes later a Columbia representative in California received certain definite instructions, and the next day Crosby started east.

Jesse Crawford, the well-known organist, is to be heard nightly over NBC coast-to-coast network. Crawford, now completing his fifth year with the Paramount Theatre in New York, has signed for exclusive radio appearances from the theatre where he will soon play his 250th weekly program on Broadway. Crawford married Helen Anderson, of Chicago, in 1923. Mrs. Crawford is also a recognized organist and composer. They have a daughter, Jessie Darlene, five years old.

Professional entertainers and artists have been thriving during the depression, judging from the report of a single booking agency which reveals that returns from engagements secured for its artists have totalled \$10,000,000

during the past year. Three hundred performers have profited from these booking returns. They include concert artists, lecturers, dancers, popular orchestras, radio stars, vaudeville entertainers, and public personalities representing the fields of exploration, aviation, literature and science. George Engles. director of NBC Artists reports that those mostly in demand are Post and Gatty, Sir Hubert Wilkins, Frank Hawks, Irvin Cobb and Deems Taylor. Rudy Vallee leads in his particular field in popularity. He has more invitations for appearances than he can fill. "Seth Parker," radio character created by Phillips Lord, has built up a following of millions in a brief span of two years. He is booked to make a transcontinental tour of twelve weeks with his Jonesport folks. Floyd Gibbons is also an enormously popular figure both in person and over the radio.

Daddy and Rollo. Nick Dawson, the "Daddy," was christened in Vineland, N. J., as George C., but he's never been called George since his third grade teacher told him he was worse than Old Nick. Nick was a second lieutenant in the United States Infantry. . . . Studied portrait painting at the Pennsylvania Academy of Fine Arts, then got a job painting scenery for a theatrical stock company, and graduated from scene painting to leading man in one night. Donald Hughes, 11 years old, "Rollo" is one of the youngest radio performers to have been put under exclusive contract with a broadcasting company. His hobbies are stamp collecting, swimming, fishing and reading hair-raising scientific fiction; he also likes the movies and baseball. He's not superstitious, but never tires of having his horoscope charted, his palm read, or his fortune told by cards. Does it just to see if they all come out the same. He played part of Kurt in Channing Pollack's "The Enemy," and thereafter named a succession of assorted dogs, Kurt I. Kurt II, etc. He also appeared in "Street Scene" for two weeks in Chicago, but says he prefers radio work to the stage.

(Continued on page 30)

### Newspapers and SMALL POTATOES

"NE of the most annoying things that has happened in Radio lately," comments E. O. Cutler, New York City, "is the action of newspapers in not naming the sponsors of programs.

"Personally, and I think it is the same with most listeners, I always think of a program as 'the General Electric,' 'the Lucky Strike,' 'the Westinghouse,' etc. I don't know and don't give a darn whether they have Itchkzy's, or Solomon's or Tony Macaroni's orchestras. 'Palm Olive' and 'Cities Service' are synonymous with certain programs and we look for them automatically under those names.

"The New York papers go so far as to give in their radio columns the 'Palm Olive' program as 'Virginia Rea,' which happens to be the real name of Olive Palmer, which latter is her radio name by which she is known to millions, yet the papers will not use even 'Olive Palmer.'

"This confusion in identifying the real programs with the artist's names is being discussed everywhere. What do you think of it?"

As the title of this little article indicates, we think it is pretty "small potatoes" on the part of the newspapers. Except in a few instances the names of the artists or the names of the orchestras mean nothing to newspaper readers. The papers might just as well give every program a number of a "nom de plume" of their own and they wouldn't confuse their readers any more. Of course our newspapers are conducted by the "great minds" of the world and who are we to criticize them?

This new policy of hiding the identity of certain programs is nation-wide and this indicates that it is the result of a policy adopted by the newspaper associations. Imagine a meeting of big business men debating how they can muddy up their news columns so as to prevent giving Atwater Kent, for instance, any credit for the beautiful programs he gives to the people. After long and due deliberation the mountain labored and

### Should Readers have Radio Programs?

brought forth this mouse—they solemnly decided to cut out Atwater Kent's name and bill the program as "Osternick's Orchestra" or some such designation. Shades of Horace Greeley!

If the publishers of a newspaper could look into the homes of their readers they would find one single section of their paper laid aside for the evening's reference—the radio section. Other parts are used to wrap up the garbage but the radio section is carefully saved. Yet when the reader of that paper looks for the "Dutch Master's" program they find only "9:30 Walter Scanlon."

Evidently they fear that Mr. Atwater Kent may somehow make a profit if they mention his name. Next they will delete the names of the orchestras and artists for their incomes grow with their reputations and their reputations are created by publicity. Perhaps soon the newspapers will index the evening's programs as "8:30 Songs. 9:00 Music. 9:30 Talk."

Mr. Cutler goes on, "You have in RADEX several pages under the title 'What's On the Air Tonight?" Will it be too complicated to carry on as in the past with the sponsor's name but put in brackets the name of leading artists or name of orchestra, when such are available?"

It is the policy of this magazine to give the programs the title by which they are best known, whether it be "Rudy Vallee" on one hand or "Gold Medal Fast Freight" on the other. This we will continue to do and wherever possible we will follow Mr. Cutler's suggestion and give both. As the newspapers refuse to give their readers proper information, those interested in radio will look more and more to this magazine for the complete and unexpurgated programs of the evening's entertainment.

KOCW, Oklahoma College for Women, Chickasha, Okla., is granted permission to be off the air for indefinite time. THE following information regarding time on the air has been secured from the stations concerned, from newspaper clippings, and from our readers. The times shown can be quickly converted into your own time by use of the following table:

	onowing	table.		
Your Zone	EST	Vhere Time i CST	s Given as MST	PST
EST CST MST PST	Subt. 1 hr. Subt. 2 hrs. Subt. 3 hrs.	Add 1 hr. Subt.1 hr. Subt.2 hrs.	Add 2 hrs. Add 1 hr. Subt. 1 hr.	Add 3 hrs. Add 2 hrs. Add 1 hr.
State		City	Call K	cys. Watts
California	Burl	oank l	CELW 2	780 500
	Los	0 p.m1 a.r Angeles I	C RCT	340 5000
	Los . (Bev	5 p.m., PST. Angeles erly Hills) I set; 9 p.m1 and I	KMPC 7	10 500
	, 7 a.mSuns Oakl	set; 9 p,m1 and I	a.m., PST. KLX 8	880 500
	ıy, 11 a.m1 , 7 a.m12 m	1 p.m., PST. aidaight.		
Colorado Sunda Daily	Den y, 7:30 a.m. 6:30 a.m1	-11 p.m., MS	KLZ 5 ST.	560 1000
Florida	Miai		VQAM 5 ST.	560 1000
Illinois	Chic	1000	WIDO 5	660 1000 m · 12-1:30
a.m Doily	. CST. 6:30 a.m1	.m.; 12:30-6	, ,	, 12 1.00
Indiana	Ever	navilla V	VGBF 6	530 500
Mond Tuesd Satur	ay, Wednesd ay, Thursda lay, 6:30 a n	:30 p.m., CS lay, Friday, y, 6:30 a.m a12 midnig	6:30 a.m6:4	45 p.m.
Iowa Sunda	Wate	erloo V -11 p.m., CS	VMT=6	500 500
Miccouri	Colo	mbia L	GFRU 6	30 500
Mon., Wedne Sature	Tues., Thur esday, Friday lav. 6-9 a.m.	-noon; 5-6:15 -, 6-9 a.m.; 4 y, 6-9 a.m.; 4-6 p.m.; 7	1-6 p.m.; 7-8 1-6 p.m. 1-9 p.m.	p. <b>m</b> ,
	St. Je 6 a.m. to su	OSCIAI I	CFEQ 6	2500
North Car	olina Ashe	ville V	WNC 5	70 1000
	Rale	idnight, CS igh V :15 p.m., ES :15 p.m.	VPTF 6	80 1000
Daily, Oregon	6:45 a.m9: Corv			50 1000
Mon., Thurs	Tues., Wed.	ams r , Fri., 12-3:30 n.; 6:30-8 p.: n.; 6:30-7 p.r	0 p.m.; 6:30-1 m.	8 p.m. PST.
South Dak	ota Broo	kings E	CFDY 5	50 500
Sunda	except Sund Yank y, 8 a.m12	lay), 12:30-2 tton V midnight, C	P.M., CST. VNAX 5 ST.	70 1000
Washingto:	n Seatt	midnight, C idnight.	TPCB 6	50 100
Sunda	Taco y, 10 a.m3:	30 p.m., PS'	CMO 8	60 500
		a Walla - K		70 100
West Virgi	nia Char	n.; 5-9 p.m., leston V	VOBU 5	80 250
Daily,	9 a.m12 no	30 p.m., ES oon; 2-4 p.m	.; 8:30-12 mi	dnight.

World B	roadcas	ting S	tation	S
(Con	tinued from	n page 68)	1	
Country and City	Call	Keys.	Meters	Watts
Djokjakarta	PK2AF	5996	50	500
Makassar	PK6KZ	7313	41	500
Malabar Palembang	PLF PK4PA	17640 59964	17 5	240
Semarang	PK2AG	33304		240
Surabaya	PK2AG PK3CH	6662	45	250
SIAM		2142	140	500
Bangkok	HSPI	967	310	2500
	HSP2	7890 7313	38)	2500
	an.	7313	41)	
	HS2PJ HS11PJ	10167 882	29.5 340	500 400
TURKEY	1151113	002	340	400
Angora	11111	150	2000	5000
Istanbul	21221	250	1200	5000
AUSTRALIA	OCEAN	A		
Adelaide	5AD	1310	229	300
	SCI.	1310 730	411	1000
	5DN	960	313	100
Albury	5KA 2AY	1200 1320	250 227	200 50
Ballarat	3RA	1300	231	50
	3BZ	1144		0.121
Bathurst Brisbane	2MK	1155 1290	260 233	50
Drisbane	4BC 4BK	1380	217	200 40
	40G	760	393	2500
Canberra Carlton	2CA 3KZ	1350	222	200
Geelong	3GL	1400	214	50 50
Gunnedah	2MO	1330	226	50
Hobart	7HO	890	337	50
Launceston	7ZL 7LA	580 1100	517 273	600 20
Lismore	2XN	1340	224	50
Mackay	4MK		484	
Melbourne	3AR 3DR	620 1180	255	1000 100
	3DB 3LO	∫9369	32	1000
		\ 800	375∫	
Moss Vale	3UZ 2MV	930 1221	322 246	100 50
Newcastle	2HD	1415	212	200
	2NC	1245	241	2000
Perth	6WF 6ML	690 1010	435 297	1000 300
Rockhampton	4RK	930	322	2000
Sydney	2BL	(9225	32.5	1000
	2FC	\ 855 ∫10520	351 28.5	1000
	ZFC	665	451	1000
	2GB	950	316	600
	2KY 2UE	1070	280	300
	2UE 2UW	1025 1125	293 267	50 100
Toowoomba	4GR	1020	294	50
Trafalgar	3TR 3WR	1000		50
Wangaratta FIJI	3WK	1260	238	50
Suva			(Short)	
NEW ZEALAND	174	010	***	***
Auckland	1YA 1ZB	910 1090	329 275	500 18
	1ZJ	1320	227	26
	1ZQ	1190	252	13
Christchurch	1ZR 3YA	1090 980	275 306	40 500
On istenuien	3YA 3ZC	1200	250	250
	2ZU	1100	273	7.5
Dunedin	4YA 4ZB	648 1080	461 279	500 20
	42 B 42 L	1220	219 246	20 180
	4ZM	1080	278	45
Ekatehuana	4ZO 2ZE	1080	278 248	30 5
	tinued on r	1210	448	э

(Continued on next page)

(Conti	nued from	page 23)		
Country and City	Call	Keys.	Meters	Watts
Gisborne	27. J	1150	261	20
0.000	2ZM	1147	261	110
Greymouth	3ZR	820	366	20
Hamilton	1ZH	630	480	50
Hastings	271	1330	226	15
	2ZL	1330	226	10
Invercargill	4ZI	1160	259	5
Manurewa	1ZM	1210	248	15
Masterton	2ZD	1180	254	2.8
Napier	2ZH	1260	238	15
New Plymouth	2YB	1230	244	100
North Invercargill	4ZP	1160	259	16
Palmerston North	2ZF	1050	286	150
	220	1050	286	10
Wairoa	2ZP	820	366	4
Wangunui	2ZK	600	500	120 5000
Wellington	ZYA	720	416	150
	2ZR	600	500	150
ALGERIA	AFRICA			
Algiers		824	364	2400
CANARY ISLANDS		824	304	2400
Las Palmas	EAR5	1071	280	500
EGYPT	CARJ	1011	200	300
Cairo		869	342	
Cano		909	330	
KENYA		303	550	
Nairobi	7LO	(9640	31.1	1000
		750	400	
MADAGASCAR			,	
Tananarive		7495	40	500
MOROCCO				
Casablanca	AIN	5870	51	
	CNO	983	305	25
Rabat		∫6877	43.6	2000
		724	414	
TUNISIA				
Carthage	TNU	162	1850	11
Constantine	8KR	7005	42.8	63.44
Tunis	TUA	240	1250	500
UNION OF SOUTH				
Cape Town	ZTC	800	375	1000
Durban	ZTD	789	407	1000
Johannesburg	ZTJ	9369	32	15000
		\ 666	450∫	

### Atwater Kent's Plans

THOUGH his plans are indefinite at this time, A. Atwater Kent, the radio manufacturer, through his Washington representative, announces that he has no intention of deserting his sponsorship of classical programs on the radio. The Atwater Kent Sunday night concerts on the N. B. C. network, suspended June 21 as a measure of economy after having continued an unbroken weekly schedule for nearly six years, will be resumed in latter September.

"The frequency and character of the programs have not been determined," the representative said. "But Mr. Kent has no intention of deserting grand opera, though he may alternate the classical programs with programs of a different kind. However, he has already engaged such artists as Martinelli, Lily

Pons, Rosa Ponselle and others, and they will be featured in network programs to be offered on a regular schedule."

### The Pentode Tube

(Continued from page 3)

or socket connection, for it is attached directly to the center of the filament or cathode. This suppressor-grid assumes the potential of the filament. It prevents all slow speed electrons and ions from leaving the plate and reaching the surrounding screen or screen-grid. This phenomenon takes place when the plate reaches a certain potential, and is known as secondary emission. It retards the development of full power in fourelectrode tubes, but the removal of such limitations in the pentode tube through the addition and action of the suppressor-grid has greatly extended the range of usefulness of power tubes in radio receivers. The fourth element, or screen-grid of the tetrode tube, because of the new suppressor-grid of the pentode tube, can be operated at a positive potential equal to that of the plateabout 250 volts.

The pentode -47 tube far exceeds any other in power sensitivity. Therefore, it is possible to eliminate the first audio stages and pass the detector output directly into the pentode control-grid, usually through some conventional external coil or resistance coupling. The output of the pentode then passes directly into the speaker circuit or output transformer, A push-pull amplifier with a pair of -47 tubes may be used if greater power output is required. This, however, is seldom necessary, except in large multi-tube sets such as some superhetrodynes. The high power-sensitivity of the pentode is of great economic importance, and a comparison of power tubes and their sensitivity shows the fact that the pentode leads its nearest rival by 400 per cent! The pentode tube (-47 type) has a relative sensitivity of .133; the -45 power tube has only .036, while the type -71A has .029.

A midget receiver, using a single power tube immediately following the detector, benefits greatly by the introduction of the pentode tube. It is necessary to deliver a maximum supply of plate current directly to the speaker coils without distortion. The -47 tube meets this requirement fully.

In addition to the -47 type of pentode, made especially for use on a. c. sources in connection with other a. c. tubes in all-electric sets, a battery pentode has also been developed. It is known as the -33 type, and may be used in connection with other 2-volt battery tubes—the -30, -31 and -32 types. It has a power output of 650 milliwatts (.650 watt) as compared to its power tube counterpart (-31 tube), which has an output of only 170 milliwatts (.170 watts). The base used is the standard UY.

For automobile purposes another pentode has been brought to the market. It is the -38 type and takes its place with the family group of -36 and -37 types. They are designed primarily for use in d. c. automotive receivers, or on d. c. house supplies. The -38 pentode has a power output of 375 milliwatts (.375 watt) which is considerably less than the -33 2-volt type tube. These automobile tubes give a very good putput considering the 6.3 volts automobile battery supply available and limited plate battery. Overcharges in voltage from the charging generator do no harm to the tubes. The battery drain is an important item in automotive radio equipment. The socket for the -38 tube is the same as used for the -47 and -33 tubes-the standard UY.

### Questions and Answers

(Continued from page 7)

the device is clean and properly adjusted no harm can result. No lightning arrester can filter static or eliminate electric fields that may happen to surround the receiver. If the grounded electrode is nicely adjusted it will carry off any static sparks induced by lightning nearby and thus save the set possible damage. The choke coil and condenser mounted in your arrester cannot possibly filter static, and if in the antenna circuit it will interfere with the passage of radio signals. If the set works well with the lightning arrester connected to

the antenna it is just as well to allow it to remain for all time. Make sure that all connections in the antenna circuit are electrically and mechanically perfect. The arrester ground should be well made, the wire large, and the earth connections beyond question. This wire, of course, should be entirely out of doors.

### Redesigning a Receiver

Tell me how to get more service out of my Crosley 8-tube set. Can I change the coils or get new coils to make the set more selective? If I add more wire to the primary and secondary I am sure I will get greater distance.

We are unable to suggest a change in the wiring of the coils in your receiver so as to get greater distance. Adding wire to the secondaries and primaries of the coils increases the wave length to which the coils will respond; removing some of the wire cuts down the wave lengths. The amount of wire determines only the impedance or high frequency resistance of the coils. Distance is determined by the sensitivity of the set as a whole. The set you refer to should be quite satisfactory, and perhaps it is not working as well as it might. Have you tested the tubes, speaker, and operating voltages? Have you a good aerial and ground? Have your dealer test the set alongside satisfactory ones of the same make. Are you expecting too much of the receiver? You have not stated what results are now being obtained.

#### What Rectifier to Use

I have a model A-250 Argus receiver. Please tell me what rectifier to use in this set and where to obtain one.

Practically all modern receivers now use the -80 type of full wave rectifying tube. It has four prongs and is designed for use in the standard UX socket. The socket has two filament connections, and one for the plate and one for an additional plate. The half-wave rectifier, type -81, uses only one plate connection and the remaining socket terminal is left open. The -80 rectifier may be substituted for most any kind of older full-wave rectifier. Your receiver is not listed in the sets provided with tubes by leading manufacturers, so we cannot

give definite advice. Your local dealer can fit the necessary rectifier in your set after an examination of the socket and wiring as outlined above.

#### Short Wave Adapter Wiring

In the diagram for a short-wave adapter in the May issue should not the tickler coil be attached directly to the plate instead of through the choke coil? Which ends of the tickler, primary and secondary connect to the plate, antenna and grid, respectively? When is the closest coupling between the tickler and plug-in coil obtained?

The diagram of the short-wave adapter as published in the May issue of RADEX is in error. The radio frequency currents from the plate of the detector tube do not pass through the radio-frequency choke coil before passing to the tickler. A wire should run from the plate directly to the tickler, and another to one end of the choke, The other end of the choke connects to the plate prong of the adapter. This method keeps the high frequency current out of the audio circuits and forces them into the tickler where they are needed to give regeneration.

Either end of the tickler may be connected to the plate, but if regeneration is not obtained, these ends should be reversed. The lower end of the primary goes to the ground, and the lower end of the secondary—the high tension end—connects to the grid. The closest coupling is when the tickler encircles the secondary at its lower end.

#### More Short Wave Troubles

I have built a short wave adapter and can only get two stations on the regular broadcast coil. I have tried the Pilot short wave coils with the same results. The Pilot Wasp hook-up makes no improvement.

Broadcast waves between 200-500 meters are not received satisfactorily on short-wave sets. Such receivers are built primarily for short-wave reception—below 200 meters. A coil that covers the range of regular broadcasting is always furnished because by its use one should be able to listen to local stations and a few of the more powerful stations not too far distant. The circuit of a short-wave set precludes any possibility of

efficient reception between 200 and 550 meters. Your inability to receive many broadcast stations is, therefore, not unusual. However, it seems to us that somewhat better results ought to be obtained, but we cannot offer you much encouragement. You have failed to state what results are had on the short waves. for which the set was designed. Tuning stations on the short wave is a tedious matter, and requires patience and care. The commercial receiver you mention is very efficient, and one of the best obtainable. Have you a small aerial, good connections, sound tubes and proper battery current?

### Pilot Light Out

The pilot light in my Brandes B-15 receiver went on and off. I put in a new one which does not light at all. The set operates satisfactorily, but will the light being out injure the set?

No harm can come to the set because the pilot light is out provided there is no short circuit in the wires coming from the "A" current supply to the light socket. If this was the case it would be indicated immediately through a failure of the set. As long as the set operates you can be assured that the socket is defective or there is a break in one of the wires leading to the socket from the transformer or switch. Check over the wiring and the socket and repair the connection. If the light burns out each time then the trouble is either that the light is too low a voltage or the supply current to the socket is accidently too high.

#### Whistles and Howls

My set howls and even whistles at times and then stops. It seems to appear for about 30 seconds after turning on. It stops when I put my hand on the tube. Have installed a new screen-grid tube, but with no success.

Many a. c. sets howl when first turned on. Try retarding the control for volume as this sometimes prevents preliminary squeals. The fact that your hand with its capacity stops the howl leads us to believe that a "howl arrester" slipped over the tube in question will stop the nuisance. A grid lead to one of the tubes may be open or imperfect. Insufficient

plate voltage on the radio-frequency and detector tubes is also a cause. Try reducing the plate voltage on the detector tube as a last resort, for some tubes will not operate on much plate voltage. This is unusual, as a rule. Then again, the radio frequency tubes tend to oscillate if the plate voltage is too great. Our guess is, however, that the trouble is microphonic and the metal tube-covering suggested above should quiet the set.

### DX Doings

(Continued from page 9)

Box 514, Lafayette, La. "I received KSRO Lincoln, Nebr., on 1210 kcs.; why isn't it listed in RADEX?" Anybody know KSRO?

"With only a three-tube set I have had KFI without an aerial and with a fifteen-foot inside aerial, I picked up KOA and KFXF Denver, KTM, KGO and KPO California," reports Nick Birchick, 47 Komorn St., Newark, N. J. He uses 199 tubes.

"Using a Philco consolette No. 20 (seven tubes), I have received 236 stations since last April," writes Oliver W. Todd, 5646 Haddington St., Philadelphia. Mr. Todd would like to correspond with other DXers.

Joe Ziglinsky, 37 River Ave., Natrona, Pa., with 276 stations on his log, would like to exchange hints with other DXers.

All states but Wyoming and Vermont is the record of Miss Pearl Wilkinson, R. F. D. 7, Box 132, Durham, N. C.

#### Notes and Comments

"I have a verification from experimental station W9XV on 1604 kcs. with only two watts power," says S. R. Lewis, Route 3, Box 688a, Toledo, Ohio. "They are located in Centerville, Mo., and are on the air almost every morning from five to six a.m. I have a very nice letter from TIC San Jose, Costa Rica. They are on from 6:30 to 10:30 p.m. EST." Mr. Lewis has verifications from every state in the U.S. He has verified CKMO. a fifty-watter of British Columbia, KPQ in Wenatchee, Wash., and four hundredwatters on the Pacific Coast. He uses a wave-trap of his own make which he finds increases both volume and selectivity.

Because of world-wide requests for information regarding the hour of Vatican broadcasts the Vatican has issued the following statement:

"We do not or will not, have regular broadcast programs, We have, however, fixed hours for radiophonic exercises, which are 11 a.m. central European time upon wave length 19.84 and again at 8 p.m., wave length 50.26. At these times we give news, notices and read letters to the missions.

"On Sunday and other feast days at 11 a.m. we read liturgical and spiritual letters aimed especially for the sick."

Le Briton Fader, 125 Henry St., Halifax, N. S., says he has heard WGN on Tuesday and Friday mornings from five to seven a.m. CDT for the last two weeks broadcasting on about 6000 kcys. We find no short waves assigned to WGN; who can answer this one? Mr. Fader asks for information also about KUX and KGWE.

"CFRB Toronto is installing new equipment to bring their power up to 15,000 watts," reports Ian Murdoch, 17 Main St., West, Grimsby, Ont., who first started DXing in 1928, but did not either log or verify until last February. Since then he has logged 434 stations in seven countries. He has all the provinces and all states in the U. S., except Nevada, Vermont and Wyoming.

"Why list Cuban and Mexican stations of less than fifty watts?" asks Sam Kiamie, 2857 Sampson Ave., New York City. "How can anyone except those living near the station receive them? I think it is useless for anyone even to try to get these stations." Mr. Kiamie likes the way WHAS verifies reception with a series of five different stamps.

William McLain, 100 Maple Tree Lane, Wheeling, W. Va., thinks that NRH Heredia, Costa Rica, is on 1010 keys. instead of 948. He reports the station is owned by Amando Cespedes Marin, whose address is Apartado 40, and that it broadcasts between 9:30 and 10:30 p.m. EST daily.

A letter from Stanley E. Wharton, Apt. 3, 315 Robert St., Hamilton, Ont., says "WWL New Orleans comes in strongly practically every night and I have had KFI Los Angeles three times

in the ten days I have had my new DeForest Crosley eight-tube 'Rondo'."

E. O. Cutler, 32 W. 40th St., New York City, reports that XEW Mexico City comes through with great volume and clarity and with fine programs and that KFI Los Angeles using 25,000 watts on its new 50,000-watt transmitter, is received nicely every decent night in New York after midnight EST.

"Tell the DX fans to try for KJBS San Francisco," writes James Hulquist, 146 East San Carlos St., San Jose, Calif. "They are on every night and early morning of the week from midnight until six a.m."

"I note you list WWO, Cleveland Airport station, at 1030 keys., but I received a verification from them stating they broadcast on 344 keys. with 1500 watts," advises George Selden, 1484 E. 107th St., Cleveland, Ohio.

How about this? David F. Thomas, Proctorville, Ohio, says, "You do not hear airport stations direct on the BC band. They are not licensed to work on the BC band. You are getting their harmonics only."

Don Townsend, 1421 Arch St., Berkeley, Calif, with sixteen verifications from Australia, contributes the following "time on the air" for the Aussy stations: 3.U.Z., Melbourne; 319 meters; 500 watts; daily 9:30 p.m. to 5:00 a.m., PST.

- 2.G.B., Sydney; 316 meters; 3000 watts; daily 11:30 p.m. to 4:00 a.m. PST.
- 2.U.W., Sydney; 267 meters; 300 watts; daily 11:15 p.m. to 4:30 a.m. PST.
- 2.K.Y., Sydney; 280 meters; 1500 watts; daily except Sunday 1:00 a.m. to 4:00 a.m. PST.
- 2.B.L., Sydney; 353 meters; 5000 watts; daily 12:15 to 4:30 a.m., Saturday to 6:00 a.m., Sunday 10:30 p.m. to 4:00 a.m.
- 2.F.C., Sydney; 451 meters; 5000 watts; daily 11:45 p.m. to 5:30 a.m. PST.
- 2.N.C., Newcastle; 241 meters; 2000 watts; daily 11:45 p.m. to 5:00 a.m. PST.
- 4.Q.G., Brisbane; 395 meters; 5000 watts; daily 12:00 to 5:00 a.m. PST.
- 5.A.D., Adelaide; 229 meters; 1000 watts; daily 12:00 to 5:00 a.m. PST.

- 6.W.F., Perth; 435 meters; 5000 watts; 2:00 a.m. to 7:00 a.m. PST.
- 3.L.O., Melbourne; 375 meters; 5000 watts; 11:45 p.m. to 5:30 a.m. PST.
- 3.A.R., Melbourne; 484 meters; 5000 watts; 12:15 to 5:00 a.m. PST.
- 2.H.D., Melbourne; 270 meters; 500 watts; 2:00 a.m. to 4:00 a.m. PST.
- 3.D.B., Melbourne; 229 meters; 500 watts; 11:30 p.m. to 4:45 a.m. PST.
- 2.U.E., Sydney; 293 meters; 500 watts; 1:00 a.m. to 4:15 a.m. PST.
- 7.Z.L., Hobart; 516 meters; 3000 watts; 1:00 a.m. to 5:00 a.m. PST.

Nearly all stations sign off one hour earlier on Sunday morning (Sunday night in Australia). Station 2.B.L. is by far the best received of any of them with 4.Q.G. and 2.F.C. running seconds. 3.L.O., 2.G.B. and 2.N.C. are also received quite well. There are times when 2.B.L. and 4.Q.G. break through the Japanese stations with fine volume, which is very good considering the Jap stations come in so loud they can be heard all over the house. All the above information is taken directly from the verifications received from the above stations.

### News from Readers

(Continued from page 15)

Chicago, heard all three announcements. I have tried often since but could not bring them all in again."

#### Verifications

"I certainly was glad to see Mr. Van Velsor's letter saying that G5SW takes three or four months to verify," comments Henry Whittaker, 1988 Plymouth St., Philadelphia. "I have written several letters to G5SW and it didn't look as though I were going to get any reply, but as it is only three months since I wrote my first report, I will now expect to receive a verification from them. I don't mind waiting a long time for a verification from a station like G5SW that really verifies. Some stations will send a prompt acknowledgement but that is not a verification. G5SW surely was coming in well today. I listened to them from about 4:30 to 6:00 p.m. EST and I am sending another report consisting of the title of one vocal

number and the titles of fourteen numbers played by their dance orchestra. Maybe I will receive their verification as a Christmas present!"

From Charles H. Kramer, 1906 Hanover Ave., Allentown, Pa.: "On the same day that I received my new RADEX I also received a verification that I never expected to get. It was from Patchogue. New York. I sent to them on February 14, 1931, when they were on the air with a test program and they told people to write and that they would answer promptly. I have now one station to hear from yet and I do not think it is worth the while waiting for it as many are kicking about Station XETY in Mexico. The trouble is that they said that they would answer and verify all letters in which a ten-cent piece was enclosed."

Meyer Tuchinsky, 3436 Filbert St., Philadelphia, reports that he has sent a report to the new hundred-watter in Presque Isle, Maine, four times and each time his letter has been returned by the post office. "Tuch" is having lots of trouble getting verifications from Cuba, neither CMCB nor CMW answering his letters. His log totals 609 stations with 453 verified.

Another Outlaw in Trouble Donald Hill, Broken Bow, Nebr., and John H. Steinhammer, 2215 20th St., Columbus, Nebr., send us newspaper clippings which read as follows:

"Edwin Miles, 17, of Gretna, and Joy P. Miller, of Ashland, today were under federal charges of operating a radio station (KMRS, Ashland) without license.

"The two radio operators were served with federal warrants last night by U. S. Marshall McClung. The warrants were drawn up by District Attorney Van Pelt.

"Charges placed against the pair were operating a radio station without a station license and broadcasting programs without operator's license.

"Interstate broadcasting was brought into the case by citation of a program heard at Pacific Junction, Iowa."

#### About This and That

A radio fan who turned Good Samaritan is Mrs. Ray Miller, 1929 Bertley Place, N. E., Canton, Ohio. "An old lady lives next to me who is a 'shut-in' so last year I had wires run over to her house and got a speaker for her so now she has music any time I do and can listen or not as she pleases," writes Mrs. Miller. "This is the way I fixed it. I put adapters with speaker cord of the necessary length, under power tube 245. I use rubbercovered wire to run from my place to hers."

### INSURE YOUR RADIO ENJOYMENT

SEND THIS BLANK TODAY The Radex Press. 5005 Euclid Avenue, Cleveland, Ohio Enclosed find \$\_\_\_\_\_\_for which send me postpaid my choice of your offers as checked below: 25c One radio map of North America 25c One copy of the next RADEX ☐ Trial subscription, next five issues of RADEX......\$1.00 One year's subscription to RADEX, 10 issues, and Radio Map free 1.75 ☐ Two subscriptions to RADEX with one leatherette cover and Radio Map, both free\_\_ 3.50 One two-year subscription with leatherette cover and Radio map, both free 3.50 □ Leatherette Cover Write Name Plainly Street and Number 52 City and State

John Malone, Sparland, Ill., has figured out a way whereby we can devote more space to DX letters (by cutting down the space devoted to What's On the Air). At the same time other readers want us to give more space to programs by cutting down on DX. We are trying to do both without cutting down either. How many noticed that RADEX celebrated its seventh birthday by adding four more pages?

"RADEX ought to put a better picture on the cover such as some great ham or pictures of radio stations—you know, with antenna masts and a little shack in the middle—instead of a girl—Blah!" Thus writes Andy Curilovic, Jr., 1008 E. 66th Place, Cleveland, Ohio. We will bet an old condenser that Andy is under sixteen.

"Why is it that so many of the large stations on the NBC network, such as WEAF, KPO, WGN, KGO, WJR, etc., do not issue stamps?" demands Fred W. Janssen, Ventura, Calif. "It sure cripples a man's stamp collection. Something ought to be done about it. Seems to me the stations couldn't lose money on issuing them at ten cents a crack."

The following readers would like to join some DX club: Sam Kiamie, 2857 Sampson Ave., New York City; Oliver W. Todd, 5646 Haddington St., Philadelphia, Pa.; Robert Emch, 1237 E. 114th St., Cleveland, Ohio; Charles H. Kramer, 1906 Hanover Ave., Allentown, Pa. Club secretaries please note.

The secretary of one of the big DX clubs writes to an inquirer: "We all use RADEX for our DX work; it is the most complete log we can find and the most accurate." With several thousand correspondents DXing all the time, how could it be otherwise?

"Kindly state in your widely read magazine," writes XEW, The Voice of Latin America from Mexico, "that we do not answer mail without return postage." Let us repeat that U. S. stamps are worthless in Mexico. Use pennies.

#### Some Questions

"Your magazine will certainly 'double the pleasure of radio' for me if you can

tell me of programs of a Czecho-Slovakian nature in the East, giving their location and time on the air," writes R. Drevojan, 634 East St., Rensselaer, N. Y. Respectfully referred to our readers.

"In answer to Major R. L. Foster, I would say that he was hearing WGY on 790," advises Walter C. Snyder, 799 State St., Schenectady, N. Y. "A considerable portion of WGY's programs originate in Albany hotels and theatres, especially during early evening and late hours of the night."

"Does WJAZ Chicago ever broadcast?" asks Richard Good, 529 Sandusky St., Ashland, Ohio. "If so can you tell me when?"

### Radio Gossip

(Continued from page 21)

Kate Smith, known as the "Songbird of the South," has made a hobby of collecting perfumes. At present she has more than 600 bottles of various styles and sizes. She has for her pets two parrots, which she keeps in her Park Avenue apartment. Because of the enthusiastic response of listeners to her daily "memory" songs, Kate has arranged to present a weekly program composed entirely of such requests for her 7 o'clock Wednesday broadcasts over Columbia. She will continue to feature one "memory" song on all her other programs. Thousands of letters a week pour in from radio listeners everywhere, asking for their favorite tunes.

James Melton, popular tenor, has been signed for the new Firestone series. . . . . Ben Bernie will make another short New York visit before his return to Chicago, for he is to appear on the stage of the Paramount after the close of the racing season at Saratoga, where he is now playing. . . . The mysterious "Street Singer" has been identified. He is Arthur Tracy, and in the short time he has been broadcasting over Columbia his voice has attracted so much attention that listeners demanded that he be unmasked.

CFCF	II	11	11	11
	KPRC	wcco	WHK	WNAX
1030 N————— CFRB	920 N KRLD		1390 C	WNOX
960 C	1040 C KSCJ	970 N	-   1000 N    WHP	560 C
730 C	1330 C	1490 N	— 1430 C———— WIBA	1190 N WOC
690 N	- 550 N	— 940 N———	1280 N	1000 N
80 N	KSL 1130 N	WDAE 1220 C	560 N	1440 C
KDYL 1290 C	KSTP   1460 N	WDAF 610 N	WIBW 580 C	WORC 1200 C
KECA 1430 N	KTAR 620 N	WDAY 940 N	WIOD 1300 N	WOW 590 N
KFAB 770 N	KTHS 1040 N	WDBJ 930 C	_   WIP 610 C	WOWO 1160 C
KFH	KTRH	WDBO	WIS 1010 C	WPG 1100 C
1300 C	1120 C	WDOD	WISN	WPTF
640 NKFJF	-   1290 C   KVI	1280 C	- 1120 C	680 N WQAM
1480 C	760 C	1330 C WDSU	890 N	560 C
1020 N————	-   1140 N	1250 C	1290 C	950 N
1340 C		660 N	900 N	-  600 C
KFRC 610 C	KWK   1350 N	WEAN 780 C	WJDX 1270 N	WREN 1220 N———
KFSD 600 N	KYW   1020 N	WEBC 1290 N	WJJD C	WRR 1280 C
KFYR 550 N	WAAB 1410 C	WEEI 590 N	WJR 750 N	WRVA    1110 N
KGB 1330 C	WABC 860 C	WENR 870 N	WJZ 760 N	WSAI 1330 N
KGO 790 N	WACO 1240 C	WFAA 800 N	WKBN 570 C-	WSB 740 N
KGW	WADC	WFAN 610 C	WKBW 1480 C	WSM 650 N
620 NKHJ	1320 C	WFBL	WKRC	WSMB 1320 N
900 C-	640 C	1360 C	550 C	WSPD 1340 C
KHQ 590 N	WAPI 1140 N	1230 C WFBR	900 N	WSUN 620 N-
KLRA 1390 C	WBAL 760 N	1270 N	WLAC 1470 C	<b>₩TAG</b>
KLZ	WBAP 800 N	560 N	-   WLAP 1010 C	580 N
560 C	WBBM	940 C	WLBW	1070 N
950 C	770 C	620 N	-   1260 C	1330 C
KMOX 1090 C	1410 C	1450 N	_  620 C	780 C
KOA 830 N	WBEN 900 N	WGL 1370 C-	560 N	WTIC 660 N
KOH 1380 C	WBRC 930 C	WGN 720 N	-   WLS 870 N	WTM J 620 N
KOIL	WBT 1080 C	WGR 550 C	WLW 700 N	- wtoc
1260 C	WBZ-A 990 N		-   WMAL 630 C	1260 C
940 C	WCAE 1220 N-		WMAQ 670 C	920 N
KOL 1270 C	WCAH 1430 C	WHAM 1150 N	WMC 780 N	570 C
KOMO 920 N	WCAO 600 C	WHAS 820 N	WMT 600 C	WWVA 1160 C
кро	WCAU	WHEC 1440 C	WNAC 1230 C	WXYZ 1240 C
680 N	-   1170 C			

### WHAT'S ON THE AIR TONIGHT?

### A WEEKLY CALENDAR

### Leading Features of the Network Programs

Time is given by Eastern Standard: For Central Time, subtract one hour; For Mountain Time two hours; and for Programs of the National Broadcasting Company begin with WEAF and WJZ; those of the Columbia Broadcasting

System with WABC.

These programs are correct to date but	are subject to change daily thereafter
Daily	5:00-5:30 The Lady Next Door (ex. Sun.) WEAF WTAG WJAR KSD WRC WTAM
	WEAF WTAG WJAR KSD WRC WTAM WENR
6:45-8:00 Tower Health Exercises (ex. Sun.) WEAF WEEI WFI WGY WCAE WRC WBEN CKGW	6:00-6:25 Waldorf-Astoria Orchestra (ex. Sun.)
8:00-8:15 Gene and Glenn (ex. Sun.) WEAF WTAM WTIC WJAR WTAG WEEI	WEAF WCAE WTAM WJAR WFI WRC WGY WOC WHO WDAY KSD WWJ
WEAF WTAM WTIC WJAR WTAG WEEI WCSH WFI WRC WGY WCAE WBEN	WKY WENR
8:15-8:30 Morning Devotions (ex. Sun.)	6:45-7:00 Swift Program—Stebbins Boys (ex. Sat. and Sun. WEAF WCAE WTIC WTAG WEEI WJAR
	WOSH WELL WERE WGV WREN WOAR
WSH WAR WWJ WFIF WIDD WFLA WSUN WTAG WGN WJAX WJDX WRVA WBEN WFI KFYR WOW WCKY WIBA	6:45-7:00 Literary Digest Topics—Lowell Thomas (ex. Su.) WJZ WBZ WBZA WHAM KDKA WLW
WBEN WFI KFYR WOW WCKY WIBA 8:30-9:00 Cheerio (ex. Sun.)	WBAL 7:00-7:15 Amos 'n' Andy (ex. Sun.)
WEAF WTIC WEEL WRC WCKY WWJ	WJZ WHAM KDKA WBZ WBZA WRC
KPRC WFI WSB WSM WJAX WPTF WTAG WOAI WBEN WRVA WIOD CKGW	CKGW WCKY WLW WBAL CFCF WRVA WPTF WJAX WIOD WFLA WSUN
WHAS WFLA WSUN WTAM WJDX WJAR	7:00-7:15 Bing Crosby — Young's Orchestra (ex. Sun.) WABC WOKO WFBL WKBW WLBZ WDRC
WGY WOW WCAE WCSH WSMB WDAF KSTP WGN WDAY KFYR WAPI	WABC WOKO WFBL WKBW WLBZ WDRC
0.45 10.00 A & P Program (av. Sup.)	WABC WORD WFBL WRBW WLBZ WDRC WABN WORC WHP WJAS WLBW WMAL WCAO WTAR WDBJ WADC WHK WKBN WWNC WBT WTOC WQAM WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WFBM KSCJ WMT KMOX WNAX KOIL WBW KFJF KRLD KTSA WACO KOH KVOR KGB KFPY KFRC KDYL KLZ
WEAF WTIC WJAR WTAG WCSH WRC	WWNC WBT WTOC WQAM WDAE WXYZ WBCM WREC WLAC WBRC WDSH WISN
WHO WDAF WTMJ WEBC WRVA WPTF	WFBM KSCJ WMT KMOX WNAX KOIL
WIOD WELA WSUN WHAS WSM WMC WSB WSMB WIDX WOAL WKY WREN	WIBW KFJF KRLD KTSA WACO KOH KVOR KGB KEPV KERC KDVL KLZ
WFI KSTP WIBO WGN WOW KPRC	CFRB
WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE WTAM WWJ WOC KSD WHO WDAF WTMJ WEBC WRVA WPTF WIOD WFLA WSUN WHAS WSM WMC WSB WSMB WJDDX WOAI WKY WBEN WFI KSTP WIBO WGN WOW KPRC WEEL WFAA WAPI WJAX  12:00-12:30 Don Bigelow and His Orchestra (ex. Sun.) WABC WOKO KFBL WHEC WGR WLBZ WEAN WDRC WNAC WORC WPG WCAU WHP WJAS WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WTAQ WFBM KSCJ KMOX KMBC KLRA KOIL KFH KFJF	7:15-7:30 Linit Orchestra (ex. Sat. and Sun.) WABC WOKO WFBL WHEC WGR WEAN WDRC WNAC WORC WCAU WJAS WMAL WCAO WADC WKRC WSFD WBBM WCCO WMT KMOX KMBC KOIL CFRB 7:30-7:45 Phil Cook. The Ouaker Man. (ex. Sat. and Sun.)
WABC WOKO KFBL WHEC WGR WLBZ	WDRC WNAC WORC WCAU WJAS WMAL
WHAN WDRC WNAC WORC WPG WCAU WHP WJAS WLBW WMAL WCAO WTAR	WMT KMOX KMBC KOIL CFRB
WDBJ WKBN WWNC WBT WTOC WDBO	7:30-7:45 Phil Cook, The Quaker Man. (ex. Sat. and Sun.) WJZ WBZ WBZA WENR KFYR WDAY WBAL WGAR KDKA WREN KWK KFAB
WBRC WDSU WISN WTAQ WFBM KSCJ	WBAL WGAR KDKA WREN KWK KFAB
KMOX KMBC KLRA KOIL KFH KFJF KRLD KTSA WACO KVOR	WTMJ KSTP WHAM WEBC WLW WRC
12:30-1:00 Columbia Revue (ex. Sat. and Sun.)	7.45 9.00 C 1 O 1 I M D / E
WABC WOKO WFBL WHEC WGR WLBZ WEAN WDRC WNAC WORC WPG WIP-	WABC WOKO WFBL WHEC WGR WLBZ
WEAN WHP WIAS WIBW WMAL WCAO	WJAS WMAL WCAO WTAR WDBJ WWVA
WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC	WADC WHK WKRC WCAH WKBN WWNC
WIND WISH WITHO WOWO KSCI WMT	WABC WOKO WFBL WHEC WGR WLBZ WEAN WDRC WNAC WORC WCAU WIP WJAS WAAL WCAO WTAR WDBJ WWVA WADC WHK WRC WCAH WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WSPD WOWO WMAQ KMBC WSJS
KMBC KLRA KOIL KFH KFJF KRLD KTSA WACO KDYL KLZ KVOR	7:45-8:00 The Goldbergs — Comedy Sketch (ex. Sun.) WEAF WSAI WWJ WENR WGY WBEN
1:30-2:30 National Farm and Home Hour (ex. Sun.)	WCAE WEAT WELL WOLLD
WJZ WHAM WJR KSTP WRVA WHAS WEBC WAPI WOW WOC WMC KVOO	8:00-8:15 Pryor's Cremo Military Band (ex. Sun.) WABC WOKO WEBL WHEC WGR WLBZ
WEBC WAPI WOW WOC WMC KVOO WKY WOAI WRC WGAR WHO WDAF	WEAN WDRC WNAC WORC WPG WCAU
WJDX WBAL WSB KWK KOA WBZ WBZA KTHS WFLA WSUN WJAX KFAB	WHP WJAS WLBW WMAL WCAO WTAR WDBJ WADC WHK WKRC WCAH WWNC
KPRC KDKA WLW WPTF WSM WDAY	WBT WTOC WQAM WDBO WDAE WXYZ
KFYR WSMB WFAA WTMJ WIOD WIBA KYW	10:30-10:45 Clara, Lu and Em (ex. Sun. and Mon.)
3:00-3:30 Columbia Salon Orchestra (ex. Sat. and Sun.)	WJZ WBAL WHAM KDKA WJR KWK
WABC WOKO WFBL WGR WDRC WAAB	11:00-11:15 Amos 'n' Andy (ex. Sun.)
WPG WIP-WFAN WHP WMAL WCAO WDBJ WHK WKBN WWNC WBT WTOC	WMAQ KWK WREN WDAF WTMJ KECA
WDBJ WHK WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WLAC WDSU WISN WTAQ WGL WFBM WMAQ	WCAE  8:00-8:15 Pyyor's Cremo Military Band (ex. Sun.) WABC WOKO WFBL WHEC WGR WLBZ WEAN WDRC WNAC WORC WPG WCAU WHP WJAS WLBW WMAL WCAO WTAR WDBJ WADC WHK WKRC WCAH WWNC WBT WTOC WQAM WDBO WDAE WXYZ WSPD WNOX WTAQ KFH WBTM  10:30-10:45 Clara, Lu and Em (ex. Sun. and Mon.) WJZ WBAL WHAM KDKA WJR KWK WREN WGAR WBZ WBZA WHEN WGAR WBZ WBZA WHAS WSM WDAF WTMJ KECA KSL WHAS WSM WGAR WSB WKY WENR WJR KSTP WSMB WJDX KTHS KERC WEBC KGO KHQ KOMO KGW
ROOS WHI KIND KINA KIII KISI	KSL WHAS WSM WGAR WSB WKY WENR WJR KSTP WSMB WJDX KTHS KPRC WEBC KGO KHQ KOMO KGW KPSD WOAI WMC KOA KFAB WBAP
	WIBA
3:00-4:00 Woman's Radio Review (ex. Sat. and Sun.)	11:15-11:30 Swift Program—Stebbins Boys (ex. Sa. & Su.)  KSD WHO WOC WSB WBAP WGN WSAI WTAM WFAA WWJ WMC WSMB
WEAF WTIC WEEI WJAR WSAI KYW KSD WOC WTAG WCSH WFI WRC	WSAI WTAM WFAA WWJ WMC WSMB
WGY WBEN WCAE WTAM WWJ WHO	11:15-11:30 Literary Digest—Lowell Thomas (ex. Sun.) WGAR WJR WENR KWK WREN WDAY
WOW WDAF	KFYR KFAB KSTP WEBC

11:15-11:30 Pryor's Cremo Military Band (ex. Sun.)
WKBN WGST WBCM WLAP WDOD WREC
WLAC WBRC WDSU WISN WOWO WFBM WMAQ WCCO KSCJ WMT KMO: KLRA WNAX KOIL WIBW KFJF KSCJ WMT KMOX KMBC KOIL WIBW KFJF WRR WACO KOH KMJ KFBK KFPY KOIN KFRC KHJ KTRH KTSA KŸĨ KDYL KLZ

RDYL KLZ

11:30-11-45 Camel Quarter Hour-Morton Downey (ex.Su.)

WGST WDOD WREC WLAC WNOX WBRC

WDSU WISN WFBM WCCO KSCJ WMT

KMOX KLRA WNAX KOIL WIBW KFJF

WRR KTRH KTSA WACO KOH KOL

KYI KFPY KOIN KFRC KHJ KDYL KLZ KGB

11:30-11:45 Russ Columbo

WJZ WBAL WHAM WJR WENR WRC KFYR WIBA WSB

WIBA WSB

### WI 12:30-1:00 Ann Leaf at the Organ

12:15-12:30 Echoes of the Orient
WEAF WGY WTAM WDAF WCSH WCKY
WTIC WLIT WBEN WOC WHO WCAE WENR WOC

12:30-1:00 Troika Bells

WBAL KWK WGAR KDKA WLW
KFYR KOMO KFSD WHAM WTMJ
WFLA WSUN WSM WAPI WKY W.IZ KFAB WPTF WHAS WSMB KŌA KECA KTAR KPO KGO KSTP

1:15-1:45 Pop Concert — Walter Logan WEAF WTIC WEEI WJAR WRC WGY WBEN KGW

WECA KGO KOA WHAS KFYR WDA WCAE WTAM WWJ WIBO WOC WHO WDAF WTMJ WENR WSMB WAPI KSL

WDAF WIMJ WEEK

1:30-2:00 Gypsy Trail
WABC WOKO WFBL WHEC WKBW WLBZ
WEAN WDRC WNAC WORC WPG WCAU
WHP WJAS WMAL WDBJ WHK WKBN
WMAL WDBJ WHYZ WBCM 

2:00-2:30 Ann Leaf at the Organ KOH KVÎ KTSA KDYL KLZ

CFRB

2:30-3:00 NBC Artists Service Program
WEAF WTIC WOW WWJ KSD WRC
WTAM WCSH WDAF WLIT WBEN WEEI CKGW

2:30-3:00 Yeast Foamers

WBAL WBZ KDKA KYW KSTP WEBO WBZA WGAR WJR KWK WREN KFAB WRVA WPTF WIOD WJZ WLW WTMJ KSTP WEBC WRVA WPTF | WSB | WAX | WHAS | WILIT | KTHS | WSAI | WSAI | KTHS | WSAI | WSAI | KTHS | WSAI | W WSUN WSM WJDX WSMB WFLA WAPI WOAI WFAA WKY KECA KGW KTAR KFSD KHQ

WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WDBU WISN WTAQ WCCO KSCJ WMT KMBC KOIL WIBW KFJF KTSA KOH KOL KVI KFPY KDYL CFRB KLZ

WEAF WTIC WEEI WJAR WTAG WLIT
WRC WTAM WWJ KYW KSD WOC
WGY WBEN WHO WDAF WOW CFCF
WCSH WCAE CKGW

WCSH WCAE CKGW
3:00-4:00 Symphonic Hour — Tosha Seidel
WASC WOKO WFBL WHEC WKBW WLBZ
WEAN WDRC WAAB WCAU WHP WJAS
WLBW WMAL WCAO WDBJ WKBN WWNC
WBT WTOC WDBO WXYZ WBCM WSPO
WDOD WREC WLAC WBRC WDSU WISN
WTAQ WGL WFBM WAAQ WCCO KSCJ WTAQ WGL WFBM WMT KMBC KLRA KRLD KTRH KTSA KFJF

":30-4:00 Balkan Mountain Men
WEAF WTIC WJAR WTAG WCSH WRC
WGY WBEN WCAE WTAM WWJ WSAI
KSD WDAF CKGW WLIT WEEI WEN

WENR 4:00-5:00 Cathedral Hour 0-5:00 Cathedral Hour WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WCAU WHP WJAS WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN KOIL KFH KFJF KRLD KTH KFYF KDLD KTH KFYF KDLD KTH KFYF KDLD KTH KFYF KDLD KTH WACO

WSAT

WCSH WFI
KOMO KPO
KFYR WDAY
WOC WHO
WHO WHO WHAS WIDX KPRC WI WJAR WCSH WTAG KOA WOW WKI WHAS WJDX KPRC WLIT WFLA WSUN WJAX WOAI WSAI WEBC WDAF WWJ KOMO WHO KHQ WGY WOC WRC KGW WSMB WBEN WRVA WSM WSB

WSMB WBEN WFAA
KFYR KSD WFAA
5:00-5:30 Pastorale — Andre Kostelanetz, Conductor
WABC WOKO WFBL WGR WEAN WDRC
WNAC WORC WHP WJAS WLBW WCAO
WDBJ WADC WHK WKBN WWNC WBT
WTOC WQAM WDBO WDAE WXYZ WBCM
WJSN WOWO WFBM KSCJ KMBC KOIL WIBW KFH KFJF KRLD KOH KVOR KDYL KLZ

5:00-6:00 Sabbath Reveries WJZ WBAL WHAM KWK WIOD KOMO WFLA WSUN KTAR KGO WLW WREN CKGW KGW WOAI WBZA WGAR WJAX WSMB WDA' KFAB WSM WMC WBAP WKY KHQ WOAI WSMB WDAY WRVA WBAP WKY KDKA KFAB WSM WEBC WIBA

KDYL KLZ CFRB

2:15-2:30 The Caribbeans — Dance Band

WEAF WTIC WTAG WEEI WJAR WLIT

WRC WGY WBEN WCAE WTAM WWJ

WDAF KSTP WDAY WHAS WSM WAPI

WOO KGW KECA KFSD

WEBC WIBA

5:00-6:00 Gilbert and Sullivan Gems

WEAF WTIC WJAR WTAG WRC WCSH

WGY WWJ WFI WBEN WTAM WSAI

WGY WWJ WFI WBEN WTAM WSAI

WOW
6:00-7:00 Catholic Hour
WEAF WTIC WEEI
WCSH WGY WWJ
WJDX WSMB KSTP
KGW WOC KECA
WJAX WFLA WSUN WJAR WTAG WRC WEBC WIOD WKY WCAE KOMO KSD WHO WDA KTAR WDAY WMC WSB WBAP KPRC WOAI WRVA WDAF KOA KV00 WSM KPO WBEN WLIT KTHS WSAI WBEN WOW WENR KFYR

Breen and de Rose WJZ WREN KFAB WBAL CKGW (WHAM WGAR WJR WBZ WBZA on 6:45)

2:30-3:00 Columbia Church of the Air

WABC WAKO WFBL WKBW WLBZ WEAN
WDRC WNAC WORC WPG WHP WJAS
WCAO WDBJ WWVA WADC WKBN WBT

WBAF WTIC WCSH WRC WCAE WWJ
WBAF WTIC WCSH WRC WCAE WWJ
WBAF WTIC WCSH WRC WCAE WWJ
WBAF WTIC WHO WDAF WTAG WJAR

WIZ WHAM WID KWK WDEN KEAD	0.20.10.00 4 1.1 6
CFCF KSTP WDAY KFYR WRVA WJAX WIOD WFLA WSUN WHAS WSM WSB	WABC WOKO WFBL WKBW WLBZ WEAN WDRC WNAC WORC WJAS WLBW WMAL WCAO WTAR WDRI WADC WHY WYDN
WAPI WJDX KVOO KPRC WKY WIBO WSMB	WBT WTOC WOAM WDBO WDAE WXYZ WLAC WBRC WDSU WISN WOWO WFRM
7:15-7:30 Fray and Braggiotti — Piano Team WABC WOKO WFBL WGR WLBZ WEAN	WCCO WMT KMOX KMBC WNAX KOIL WIBW KFJF KRLD KTSA KOH KVOR
WMAL WCAO WTAR WDBJ WWVA WADC	KGB KOL KVI KFPY KFRC KHJ KDYL KLZ CFRB
WBCM WLAC WBCC WDSU WTAQ WOWO	9:45-10:15 Kellogg Slumber Music WJZ WBAL WBZ WBZA WHAM KDKA
KOIL WIBW KFH KFJF WACO KOH KVOR KGB KOL KVI KFPY KHI	WIR KWK WICEN WLW WGAR KYW 10:15-10:45 Ted Weem's Orchestra WE'AE WEEL WTIC WIAD WTAC WCCH
KDYL KLZ 7:30-7:45 Daddy and Rollo	WFI WRC WGY WBEN WCAE WTAM WWJ WSAI KYW WOC WHO WOW
WABC WFBL WGR WEAN WNAC WCAU WLBW WMAL WCAO WADC WHK WKRC	WDAF WTMJ KSTP WEBC WHAS WSM WMC WSB WAPI WSMB WJDX WOAI
WXYZ WSPD WISN WOWO WFBM WBBM WCCO KMOX KMBC KOIL	WKY KOA KDAY KFYR KGO KGW KOMO KHQ KTAR KFSD KFI KPRC
WEAF WJAR WTAG WCSH WLIT WRC	KSL 10:30-11:00 The Gauchos
KSD WDAF	WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WORC WCAU WHP
WABC WOKO WEBL WHEC WGR WLBZ	WJAS WLBW WMAL WCAO WDBJ WHK WWNC WBT WTOC WDBO WXYZ WSPD
WIAS WIRE WORE WIP-WFAN WHY WJAS WLBW WMAL WCAO WDBJ WHK	WDOD WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX
WRBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC	KMBC WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KFRC KDYL KLZ
WMT KMOX KMBC KLRA KOIL KFH	KVOR 10:45-11:15 Sunday at Seth Parker's
KDYL KLZ KVOR  8:00 8:15 From Lettish Moladian	CKGW WTMJ KSTP WCAE WTAM WWJ
WJZ WBZ WBZA WBAL WHAM WLW WJR WGAR KYW KDKA KWK WDEN	WHAS WSM WJDX KPRC WKY KOA
KFAB CFCF WTMJ KSTP WEBC WDAY KFYR WRVA WPTF WIOD WELA WSIN	KFSD WJAX WOC WFLA WSUN KECA
WHAS WSM WMC WSB WAPI WSMB WJDX KTHS WFAA KPRC KVOO WOAI	KHQ WPTF WOAI KSL WFAA
WKY WIBA KOA KSL KPO KFI KGW KOMO KHQ KTAR KFSD	WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAII WHP
8:00-8:15 Devils, Drugs and Doctors WABC WFBL WHEC WGR WEAN WDRC	WLBW WMAL WDBJ WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WBRC
WNAC WCAIL WIAS WMAT, WCAO WADO	
WHK WERC WGST WXYZ WSPD WREC	WDSU WISN WFBM WCCO KSCJ WMT KMOX KLRA WNAX KOIL KFJF KRLD
WHK WKRC WGST WXYZ WSPD WREC WBRC WDSU WISN WOWO WFBM WMAQ WCCO KSCJ KMOX KMBC KOIL WIBW	WDSU WISN WFIM WCOO KSCJ WMT KMOX KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR
WHK WKRC WGST WXYZ WSPD WREC WBRC WDSU WISN WOWO WFBM WMAQ WCCO KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KVI KFPY KOIN KFRC KHJ KLZ	WDSU WISN WFISM WCCO KSCJ WMT KMOX KURA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFIL WHEC WKBW WLBZ
WHK WKRC WGST WXYZ WSPD WREC WBRC WDSU WISN WOWO WFBM WMAQ WCCO KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KVI KFPY KOIN KFRC KHJ KLZ 8:00-9:00 Chase and Sanborn WEAF WTIC WJAR WTAG WCSH WRC WGV WCAF WWI WSAI KSD WOW	WDSU WISN WFBM WCCO KSCJ WMT KMOX KIRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WFG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN
WHK   WKRC WGST   WXYZ WSPD   WRRC WBRC WDSU WISN   WOWO WFBM WMAQ WCOC KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KVI KFPY KOIN KFRC KHJ KLZ   S:00-9:00 Chase and Sanborn   WEAF WTIC WJAR WGY WCAE WWJ WSAI KSD WOW WIOD KSTP WHO WOC WHAS WEBC WMC WSA WSAB WSMB KTHS KPRC WTM WGW WSAW WSMB WSMB KTHS KPRC WTM WSW WSMB WSMB KTHS KPRC WTM WSW WSMB WSMB KTHS KPRC WTM WSMB WTM WS	WDSU WISN WEIM WCCO KSCJ WMT KMOX KIRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WIAC WBRC WDSU WISN WERD WCCO KSCI WHT KWAY WARD
WHK WKRC WGST WSYZ WSPD WREC WBRC WDSU WISN WOWO WFBM WMAQ WCOC KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KVI KFPY KOIN KFRC KHJ KLZ 8:00-9:00 Chase and Sanborn WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE WJ WSAI KSD WOW WIOD KSTP WHO WOC WHAS WEBC WMC WSB WSMB KTHS KPRC WTMJ WTAM WJDX WFLA WSUN WDAF WBEN WPTF CFCFF WOAI WKY WLIT WLS	WDSU WISN WFBM WCCO KSCJ WMT KMOX KIRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WLAW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD
WHK WKRC WGST WBRC WDSU WISN WCOC KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KVI KFPY KOIN KFRC KHJ KLZ 8:00-9:00 Chase and Sanborn WEAF WTIC WJAR WGY WCAE WWJ WSAI KSD WOW WIOD KSTP WHO WOC WHAS WEBC WMC WSB WSMB KTHS KPRC WTMJ WTAM WJDX WFLA WSUN WDAF WBEN WPTF CFCF WOAI WKY WLIT WLS 8:15-9:15 Collier's Radio Hour	WDSU WISN WFBM WCCO KSCJ WMT KMOX KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR
WHK WKRC WGST WBRC WDSU WISN WBRC WDSU WISN WCOC KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KFRC KHJ KLZ 8:00-9:00 Chase and Sanborn WEAF WTIC WJAR WGY WCAE WWJ WSAI KSD WOW WIOD KSTP WHO WOC WHAS WEBC WMC WSB WSMB KTHS KPRC WTMJ WTAM WJDX WFLAA WFTF CFCF WOAI KVOO WFAA WRVA 8:15-9:15 Collier's Radio Hour WJZ WBAL WBZ WGAR WLW KYW KWK WREN KOA	WDSU WISN WEIM WCCO KSCJ WMT KMOX KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR
WHK WKRC WGST WBRC WDSU WISN WBRC WDSU WISN WOWO WFBM WMAQ WCOC KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KFRC KHJ KLZ 8:00-9:00 Chase and Sanborn WEAF WTIC WGY WCAE WGY WCAE WHO WSAI KSD WOW WIOD KSTP WHO WOC WHAS WEBC WMC WSB WSMB KTHS KPRC WTMJ WTAM WJDX WFLA WSUN WDAF WBEN WTAM WJDX WFLA WSUN WDAF WBEN WTAM WJDX WFLA WFT CFCF WOAI KVOO WFAA WRVA 8:15-9:15 Collier's Radio Hour WJZ WBAL WBZ WGAR WLW KYW KWK WREN KOA KSL KGO KFI KGW KOMO KHQ 9:00-9:15 "Our Government" — David Lawrence	WDSU WISN WEIM WCCO KSCJ WMT KKNOX KIRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR  MONCLAY  6:15-6:30 Kate Smith and Her Swanee Music WABC WOKO WFBL WGR WLBZ WDRC
WHK   WKRC   WST   WXYZ   WSPD   WREC   WBRC   WDSU   WSN   WOWO WFBM   WMAQ   WCOC   KSCJ   KMOK   KMBC   KOIL   WIBW   WRR   KTSA   KOL   KFRC   KHJ   KLZ	WDSU WISN WEBM WCCO KSCJ WMT KMOX KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WFG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR  MONCAS  MONCAS  **MONCAS**  **MONCAS**  **MONCAS**  **MONCAS**  **MONCAS**  **MONCAS**  **MONCAS**  **MONCAS**  **WABC WOKO WFBL WGR WABB WORC WHP WLBW WDBJ WWYA WWNC WBT CFRB WTOC
WHK WKRC WGST WBRC WDSU WISN WBRC WDSU WISN WOWO WFBM WMAQ WCCO KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KFRC KHJ KLZ 8:00-9:00 Chase and Sanborn WEAF WTIC WJAR WGY WCAE WWJ WIOD KSTP WHO WOC WHAS WIOD KSTP WHO WOC WHAS WHOD KSTP WHO WOW WASI KSD WOW WIOD KSTP WHO WOW WHAS WEBE WHA WSUN WDAF WBEN WTAM WJDX WFLA WSUN WDAF WBEN WPTF CFCF WOAI KVOO WFAA WRVA 8:15-9:15 Collier's Radio HOUT WJZ WBAL WBZ WGAR WLW KYW KSL KGO KPI KGW KOMO KHQ 9:00-9:15 "OUT COVERNMENT" — David Lawrence WEAF WTAG WCSH WSB WMC WOW WJDX WFLA WSUN WOC WHO WRC KVOO WCAE WDAY WJAR WENR WEEN WFI WSMB WKY	WDSU WISN WEBM WCCO KSCJ WMT KKNOX KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDDD WREC WLAC WBRC WDBU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR  MONDAY  6:15-6:30 Kate Smith and Her Swanee WABC WOKO WFBL WGR WLBZ WAAB WORC WHP WDBJ WWYA WWNC WBT CFRB WTOC WQAM WDBO WDAE WBCM WREC WLAC WBRC WDSU WTAQ WOWO WCCO KSCJ
WHK WKRC WGST WBRC WDSU WISN WBRC WDSU WISN WCOC KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KFRC KHJ KLZ 8:00-9:00 Chase and Sanborn WEAF WTIC WGY WCAE WWJ WIOD KSTP WHO WIOD KSTP WHO WTAM WJDX WFLA WTAM WJDX WFLA WTAM WJDX WFLA WTAM WJDX WFLA WFTF CFCF WOAI KVOO WFAA WEVA 8:15-9:15 Collier's Radio Hour WJZ WBAL WBZ WGAR WLW KYW KWK WREN KOA KSL KGO KFI KGW KOMO KHQ 9:00-9:15 "Our Gorernment" — David Lawrence WEAF WTAG WCSH WSB WMC WOW WOC WHO WRC WJAR WENR WBEN WJOW WSAI KSD WSAI KSD WBZA WHAM KDKA KSL KGO KFI KGW KOMO KHQ WGAR WLW KYW KWK WREN KOA KSL KGO KFI WSB WMC WOW WOC WHO WRC WJAR WENR WBEN WGC WHO WRC WJAR WENR WBEN WJOW WJAN WWYAN WJOW WJAN WWAN WOO WHO WRC WJAR WENR WBEN WHI WSMB WKY WJOW WHAN	WDSU WISN WEBM WCCO KSCJ WMT KKNOX KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR  MONCAY  6:15-6:30 Kate Smith and Her Swanee Music WABC WOKO WFBL WGR WLBZ WDRC WAAB WORC WHP WLBW WMAL WCAO WDBJ WWYA WWNC WBT CFRB WTOC WQAM WDBO WDAE WBCM WREC WLAC WBRC WDSU WTAQ WOWO WCCO KSCJ WMT KMBC KFR KFJF KRLD KTSA KFPY KDYL KLZ KVOR
WHK   WKRC   WST   WXYZ   WSPD   WRRC   WBRC   WDSU   WISN   WOWO WFBM   WMAQ   WCOC   KSCJ   KMOX   KMBC   KOIL   WIBW   WRR   KTSA   KOL   KVI   KFPY   KOIN   KFRC   KHJ   KLZ   KMDC   KVI   KFPY   KOIN   KFRC   KHJ   KLZ   KMDC   KVI   KFPY   KOIN   KFRC   KHJ   KUJAR   WSAI   KSD   WOW   WIOD   KSTP   WHO   WOC   WHAS   WEBC   WGW   WSAI   KSD   WOW   WIOD   KSTP   WHO   WOC   WHAS   WEBC   WTAM   WJDX   WFLA   WSUN   WDAF   WBEN   WTAM   WJDX   WFLA   WSUN   WDAF   WBEN   WFT   CFCF   WOAI   WKY   WLIT   WLS   WFLA   WSUN   WDAF   WBEN   WFLA   WBEN   WFLA   WFLA   WSUN   WDAF   WBEN   WFLA   WFLA   WSAI   WFLA   WGAR   WLW   KYW   KWK   WREN   KOA   KSL   KGO   KFI   KGW   KOMO   KHQ   9:00-9:15 "Our Government"   David   Lawrence   WEAF   WTAG   WSH   WSTA   WSAI   W	WDSU WISN WEBM WCCO KSCJ WMT KKNOK KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR  MONCLAY  6:15-6:30 Kate Smith and Her Swanee Music WABC WOKO WFBL WGR WLBZ WDRC WAAB WORC WHP WLBW WMAL WCAO WAAB WORC WHO WLBW WFFL WTOC WQAM WDBO WDAE WBCM WREC WLAC WAR WDSU WTAQ WOWO WCCO KSCJ WMT KMBC KOIL WBW KFH KFJF KRLD KTSA KOH KVOR KDYL KLZ 6:15-6:450 MOTNO TABETRACH CHOIV AND WEBD
WHK WKRC WGST WBRC WDSU WISN WBRC WDSU WISN WWWW WFBM WMAQ WCOC KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KFRC KHJ KLZ 8:00-9:00 Chase and Sanborn WEAF WIIC WJAR WGY WCAE WWJ WIOD KSTP WHO WMO WSB WSMB KTHS KPRC WTMJ WTAM WJDX WFLA WFT CFCF WOAL WYTAM WJDX WFLA WYOO WFAA WRVA 8:15-9:15 Collier's Radio Hour WJZ WBAL WBZ WGAR WLW KYW KSL KGO KFI 9:00-9:15 "Our Government" — David Lawrence WEAF WTAG WCSH WSB WMC WOW WOC WHO WGC WHO WJC WHO WJDX WFLA WSUN WSUN WOC WHO WHO WWGW WJDX WFLA WSUN WSUN WOC WHO WHO WAC WJAW WHAL WCAO WHK WKRC WCAH WMAL WCAO WAC WHK WKRC WGAU WMAL WCAO WHO WFBM WBBM WCCO SIS-9:45 Bayuk Stap Party	WDSU WISN WFBM WCCO KSCJ WMT KMOX KIRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR  MONCLAY  6:15-6:30 Kate Smith and Her Swanee Music WABC WOKO WFBL WGR WLBZ WDRC WAAB WORC WHP WLBW WMAL WCAO WBRC WBW WWNC WBT CFRB WTOC WQAM WDBO WDAE WBCM WREC WLAC WBRC WDSU WTAQ WOWO WCCO KSCJ WMT KMBC KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KDYL KLZ  6:15-6:45 Mormon Tabernacle Choir and Organ WJZ WBAL WSM KOA KOMO KFAB KGW CKGW KSTP KTAR KPO KFSD WSMB WHAM WIBO KFYR KGO KWK WREN WDAY WIDX
WHK   WKRC   WST   WXYZ   WSPD   WRRC   WBRC   WDSV   WSN   WWW   WFBM   WMAQ   WCO   KSCJ   KMOX   KMBC   KOIL   WIBW   WRR   KTSA   KOL   KFRC   KHJ   KLZ   KIZ   S:00-9:00   Chase and Sanborn   WEAF   WTIC   WIAW   WSAI   KSD   WOW   WGAF   WTIC   WGAF   WTIC   WGAF   WTIC   WGAF   W	WDSU WISN WEBM WCCO KSCJ WMT KKNOX KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDDD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR  MONOLAY  6:15-6:30 Kate Smith and Her Swanee Music WABC WOKO WFBL WGR WLBZ WDRC G:15-6:45 Mormon Tabernacle Choir and Organ WJZ WBAL WSM KOA KOMO KFAB KGW CKGW KSTP KTAR KPO KFSD WSMB WHAM WIBO KFYR KGO KWK WREN WDAY WJDX KECA WRC WLW KSL 7:00-7:30 Current Events — H. V. Kaltenborn
WHK   WKRC   WGST   WXYZ   WSPD   WRRC   WBRC   WDSU   WISN   WOWO WFBM   WMAQ   WCOC   KSCJ   KMOX   KMBC   KOIL   WIBW   WRR   KTSA   KOL   KVI   KFPY   KOIN   KFRC   KHJ   KLZ   KMOX   KMBC   KOIL   WIBW   WRR   KTSA   KOL   KVI   KFPY   KOIN   KFRC   KHJ   KLZ   KMDC   KMSC   KMSC   WCSH   WRC   WGAF   WTAG   WCSH   WRC   WGAF   WGAF   WSAI   KSD   WOW   WIOD   KSTP   WHO   WOC   WHAS   WEBC   WTAG   WGSH   WFAM   WJDX   WFLA   WSUN   WDAF   WBEN   WTAM   WJDX   WFLA   WSUN   WDAF   WBEN   WFTF   CFCF   WOAI   WKY   WLIT   WLS   WFLA   WSUN   WDAF   WBEN   WFTF   CFCF   WASAI   WFLA   WSUN   WDAF   WBEN   WFLA   WGAR   WLW   KYW   KWK   WREN   KOA   KSL   KGO   KFI   WGW   KOMO   KHQ   WGAF   WTAG   WGSH   WSAI   WSAI   WFLA   WSUN   WOC   WHO   WRC   WGY   KSD   WSAI	WDSU WISN WFBM WCCO KSCJ WMT KKNOX KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR  11:30-12:00 Red Nichols and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR  MONDAY  6:15-6:30 Kate Smith and Her Swanee Music WAAB WORC WFPL WGR WLBZ WDRC WAAB WORC WFPL WGR WLBZ WORD WDBJ WWVA WWNC WBT CFRB WTOC WQAM WDBO WDAE WBCM WREC WLAC WBRC WDSU WTAQ WOWO WCCO KSCJ WMT KMBC KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KDYL KLZ  6:15-6:45 MOrmon Tabernacle Choir and Organ WJZ WBAL WSM KOA KOMO KFAB KGW CKGW KSTP KTAR KPO KFSD WSMB WHAM WIBO KFYR KGO KWK WREN WDAY WJDX KECA WRC WLW KSL  7:00-7:30 Current Events — H. V. Kaltenborn WABC WOKO WFBL WKBW WLBZ WAAB WORC WJAS WLBW WMAL WCAO WDBJ
	WDSU   WISN   WFBM   WCCO   KSCJ   WMT   KMOX   KIRA   WNAX   KOIL   KFJF   KRLD   KTRH   KTSA   KVI   KFPY   KDYL   KLZ   KVOR

7:00-7:30 Archer Gibson -- Concert Organist WEAF WTAG KSD KOA WHAS WJAR KSL KGO WOW CFCF WJDX KOH KVOR KLZ CFRB 7:45-8:00 Paris Night Life
WJZ WBAL WHAM WJR
KWK WREN KYW KFAB WGAR WLW 8:00-8:30 Roxy Symphony Concert WJZ WGAR WBAL WLS WFLA WSUN WSM WSB WENR CKGW WRC WJDX WREA WFAA KOA WIOD

8:00-8:30 Soconyland Sketches
WEAF WTIC WTAG WEEI WJAR WCSH
WBEN WGY WBEN WGY 8:30-9:00 Death Valley Days WJZ WBZ WBZA WBAL WHAM KDKA WGAR WJR WCKY WLS WREN KWK 8:30-9:00 Voice of Firestone WEAF WTIC WTAG WEEL WJAR WCSH WLIT WRC WGY WBEN WCAE WTAM WEAF WITC WIAG WEEL
WILT WRC WGY WBEN
WWJ WSAI KYW KSD
WOW WBAP CKGW CFCF
WJAX WIOD WFLA WSM
WJDX WSMB KTHS KVOO WOC WHO WRVA WPTF WMC WSB 8:45-9:00 Tastyeast Gloom Chasers -3-300 1883yesst Goom Chasers
WABC WFBL WGR WLBZ WEAN WDRC
WNAC WORC WCAU WJAS WCAO WADC
WHK KCAH WXYZ WSPD WDSU WOWO
WFBM WBBM WCCO KMOX KMBC 9:00-9:30 A. & P. Gysies

WEAF WTIC WEEI WTAG WJAR WCSH
WLIT WRC WGY KSD WOC WHO
WOW WDAF WTAM WBEN WWJ WSAI WCAE WGN 9:00-9:30 Eno Crime Club
WABC WFBL WKBW WEAN WDRC WNAC
WCAU WJAS WMAL WCAO WADC WHK
WKRC WXYZ WSPD WOWO WMAQ KMOX
KMBC KOIL CFRB 9:00-9:30 Maytag Orchestra WJZ WBZ WBZ WBZ WBZA WREN KSTP WHAM KDKA WJR WEBC WKY WOA KGO KECA KGW WLW WFAA KPRO KWK KYW KOA KSL KGO KECA KHQ KOMO KVOO WLW WFAA WGAR WDAY KFYR WSM WMC KPRC WBAL

WTMJ 9:30-10:00 The Bourjois Orchestra
WABC WFBL WHEC WKBW WEAN WNAC
WCAU WJAS WMAL WCAO WADC WHK
WKRC WXYZ WSPD WOWO WBBM KMOX KMBC KOIL

9:30-10:00 General Motors Program
WEAF WTIC WEEL WJAR WEAF WCSH WTAG WLIT WGN KSTP WMC WSB WJAX WOAI KPRC WKY KOA KSL KGO KOMO KHQ WRC WGY WSAI KGW WHO KFI WBEN WTMJ KFYR WCAE WTAM KSD WSM WFAA WOC WOW WDAE WHAS WSM

10:00-10:30 Gold Medal Express
WRAI. WBZ WBZA WHAM KDKA WLW WGAR WJR KYW KWK WJAX WREN WEBC WRVA WPTF
WSUN WSM WMC
WFAA WCAE WKY
KFI KGW KOMO WIOD KSTP WJDX WFLA WSB KÕĀ KSL KVOO KFSD KOMO KHQ KGO KTÁR

10:00-10:30 Burns Panatela Program — Guy Lombardo WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ

WCCO KMOX KMBC KOIL KFJF KRLD
KTRH KTSA KDYL KLZ
10:00-10:45 True Story — Mary and Bob
WEAF WEJAR WEEI WTAG WCSH WLIT
WRC WGY WBEN WCAE WTAM WWJ
WSAI WENR WOC KSD WHO WOW WDAF

10:30-11:00 Chesebrough Real Folks
WJZ WBZ WBZA WBAL WHAM KDKA
WJR WGAR WREN WLW KYW WRVA
KFYR WDAY WEBC WTMJ WIBA KWK
CKGW WMC WSB WSMB WJDX KPRC WSB WSMB WJDX KOMO WJAX WIOD KOA KFI WFLA WSUN WHAS KGO KTAR KYW WKY KGW KHQ

HARK ATW WALL

10:30-11:00 Arabesque — Desert Play
WABC WOKO WFBL WHEC WKBW WLBZ
WEAN WDRC WNAC WORC WCAU WHP
WJAS WLBW WMAL WDBJ WWNC WBT
WTOC WDBO WXYZ WBCM WSPD WDOL
WREC WBRC WDSU WISN WFBM WMT WNAX KOIL KTSA KVI KFH KFJF KRLD KTRH KFPY KFRC KDYL KVOR

10:45-11:00 The Simoniz Guardsmen WEAF WTIC WEEI WJAR WCSH WLIT WWJ WRC WGY WBEN WSAI WCAF KSD WTAM WENR WOC WHO WOW WDAF CFCF WTAG WCAE

11:45-12:00 Bert Lown and His Orchestra
WABC WOKO WFBL WHEC WKBW WLBZ
WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WWNC WTOC WDBO WXYZ WBCM WSPD WREC WLAC WBRC WDSU WISN WFBM WCOO KSCJ WMT KMBC WNAX KFJF KTRH KTSA WACO WWNC WBT WDOD WGL KMBC KLRA KVOR

12:00-12:30 Paul Whiteman and His Orchestra WEAF WRC KYW WTMJ WSM WSB WGY WAPI WOW

#### Tuesday

7:00-7:30 Mid-Week Federation Hymn Sing
WEAF WTIC WTAG WFI KSD
KOA KGO KECA KGW WEEI
WCAE WSAI WIBO WPTF WIOD
WSUN WSB WAPI WKY WJDX WBEN

7:30-7:45 Corner Drug Store
WEAF WTIC WEEI
WCSH WBEN WGY
WOC WHO WOW WJAR WTAG WRC WFI WCAE WSAI WDAF KYW

7:45-8:00 Back of the News in Washington

WJZ WHAM WENR WREN KFAB

KFYR WRVA KFSD WPTF WIOD

WSUN WSM WMC WSB WAPI

KHQ WBAL WJR WRC WHAS

WFAA KPRC KOA KGO KECA WFLA WSMB WHAS KTHS

8:00-8:30 Armstrong Quakers
WJZ WBAL WBZ WBZA
WJR KWK WREN WLW WHAM KDKA WLS KFAB

8:00-8:30 Blackstone Plantation WEAF WTIC WEEI WJAR WTAG WCSH WFI WRC KSD WOC WGY WBEN WEAF WTIC WEEL WJAK WTAG WUSH WFI WRC KSD WOC WGY WBEN WCAE WTAM WWJ WSAI WHO WDAF WOW WEBC KSTP KYW 8:15-8:30 Sterling Products — Abe Lyman's Band WABC WFBL WGR WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WKRC WSPD KMOX KMBC KOIL

WEEL WTIC WJAR WSM WDAR WBEN WCAE WTAM WWJ WHO WOW KPRO WOC KPRC KYW

8:45-9:00 Sisters of the Skillet
WJZ WBZ WBZA KDKA WTMJ WDAY
WGAR WJR WLS KWK WREN KFAB
KSTP KPRC WEBC KFYR WOAI KVOO WHAM WLW

8:45-9:00 Walter Winchell WABC WFBL WGR WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WXYZ WSPD WOWO WJJD KMOX KOIL

9:00-9:30 Thrillers	WADC WHK WKBN WWNC WBT WTOC
WEAF WTIC WEEL WTAG WCSH WFL WRC WBEN WTAM WOW KOA KSL	WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WTAQ WFBM
WRC WBEN WTAM WOW KOA KSL KGO KTAR KFSD KGW KOMO WOAL	WLAC WBRC WDSU WISN WTAQ WFBM WCCO KSCJ KMOX KMBC KOLL WIBW
WOC WHO KSTP WCAE WJAR WMC	KFH KFJF KRLD KTSA WACO KOH
WDAY KVOO WKY WGY WEBC WIOD	KVOR KGB KVI KFPY KFRC KHJ
WFLA WSUN WSM WSB WLS KFI	KDYL KLZ CFRB
CKGW CFCF WFAA KPRC	7:00-7:15 Nick Lucas
9:00-9:30 Henry-George WABC WOKO WFBL WHEC WGR WEAN	WEAF WJAR KSD WSB KOA KGO
WABC WOKO WFBL WHEC WGR WEAN WDRC WNAC WCAU WHP WJAS WMAL	KECA WGY WBEN WCSH WENR KFYR WIBA WSM WJDX
WDRC WNAC WCAU WHP WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD	7:15-7:30 Roscul Moments with Mme. Alda
WISN WOWO WBBM WCCO KMOX KMBC	7:15-7:30 Boscul Moments with Mme. Alda WEAF WTIC WEEI WJAR WCSH WLIT WRC WBEN WENR WCAE WTAM
KOIL KFH	WRC WBEN WENR WCAE WTAM
9:30-10:00 The Fuller Man WEAF WTIC WJAR WTAG WCSH WFI	7:30-7:45 The Frigidarians
WEAF WTIC WJAR WTAG WCSH WFI WRC WBEN WGY WTAM WWJ KSD	WEAF WLÎT KSD WTAG WHAS WSB WAPI WJDX WJAR CFCF WFAA WTIC
WOC WHO WOW WDAF KOA WTMJ	WCSH WFBR WRC WWJ WSAI WIBO
WEBC WBAP WSB WKY WOAI WEEL	WOC WHO WOW WRVA WPTF WJAX
WSAI KYW KSTP KSL KGO KECA	WIOD WFLA WSUN WSM WMC WSMB
KGW KHQ KOMO KVOO	KTHS KVOO KPRC WOAL WKY
9:30-10:00 The Bristoleers WABC WFBL WKBW WEAN WDRC WNAC	7:45-8:00 Esso Program—"Believe It or Not"—Ripley WJZ WBAL KDKA WLW WRVA WPTF
WCAU WJAS WMAL WCAO WADC WHK	WBZ WBZA WHAM
WKRC WXYZ WSPD WOWO WMAQ KMOX	8:15-8:30 Snoop and Peep
KMBC KOIL	8:15-8:30 Snoop and Peep WEAF WCSH WLIT WDAF KGO KGW WHO WTAG WIOD WFAA KOA WCAE
9:30-10:00 Danger Lines of History WJZ WBAL WCKY WREN WBZ WBZA	WHO WTAG WIOD WFAA KOA WCAE
WJZ WBAL WCKY WREN WBZ WBZA WHAM WENR KDKA WIOD CKGW	CKGW WSM WOC 8:15-8:30 Barbasol Program
10:00-10:15 Ren Rernie and His Orchestra	
WABC WFBL WEAN WDRC WNAC WCAU	WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WYYZ WSPD WISN WFBM
WJAS WMAL WCAO WADC WHK WKRC	WHK WKRC WXYZ WSPD WISN WFBM
WKBN WBT WXYZ WSPD WLAC WBRC	WMAQ WCCO KMOX KMBC KOIL
WDSU WOWO WBBM KMBC KOIL KFH KFJF KRLD KTSA KMJ KOL KVI	8:30-8:45 Kate Smith—La Palina WABC WOKO WKBW WLBZ WDRC WAAB
KFPY KOIN KFRC KHJ KDYL KLZ	WORC WJAS WLBW WMAL WCAO WDBJ
10:00-11:00 Lucky Strike Dance Orchestra	WWVA WADC WKRN WWNC WRT WTOC
WEAF WTIC WEEL WJAR WTAG WCSH WFI WRC WCAE WWJ WSAI KSD	WQAM WDBO WDAE WBCM WREC WLAC
WFI WRC WCAE WWJ WSAI KSD WOC WHO WTMJ WEBC WRVA WJAX	WBRC WDSU WTAQ WCCO KSCJ WMT
WOC WHO WTMJ WEBC WRVA WJAX WIOD WFLA WSUN WHAS WSM WMC	KMOX KOIL KFH KFJF KRLD KTSA KOH KVOR KDYL KLZ CFRB
WSB WSMB WJDX WOAI KOA KGO	8:30-9:00 Mobiloil Concert
WKY KGW KHQ KOMO KTAR KFSD	WEAF WEEL WJAR WCSH WTAG WLIT
WDAF KVOO WTAM WBEN WOW WDAY	WRC WSAI KSD WOW WTAM KOA
KFI KSL KFYR KSTP WENR WPTF WGY WBAP WIBA (KPRC on 10:45 to 11:00)	KVOO WFAA WOAI WKY WTIC KSI,
WGY WBAP WIBA (KPRC on 10:45 to 11:00) 10:30-11:00 Nit Wit Hour	WGY WEBC WDAF WCAE WHO WOC WWJ WBEN KSTP WTMJ WDAY KFYR
WABC WOKO WFBL WKBW WLBZ WEAN	KYW
WNAC WORC WPG WHP WJAS WLBW	8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR
WMAL WCAO WDBJ WADC WKBN WWNC	WJZ WBAL WHAM KDKA WGAR WJR
WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN	WLW WLS
WOWO WEBM WCCO KSCJ WMT KMOX	8:45-9:00 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC
KMBC WNAX KOIL WIBW KFH KFJF	WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WCAO WADC WHK WCAH WXYZ WSPD WDSU WOWO
KRLD KTSA KOH KVOR KFPY KDYL	WHK WCAH WXYZ WSPD WDSU WOWO
KLZ CFRB WDRC WTAR	
11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ	9:00-9:30 Gold Medal Fast Freight WABC WORD WILL WKBW WEAN WDRC
WEAN WORC WAAB WORC WCAU WHP	WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ
WLBW WMAL WCAO WTAR WDBJ WKBN	WADC WHK WKRC WXYZ WSPD WOWO
WWNC WBT WTOC WDBO WAYZ WBCM	WASC WOOD WIFE WAS WEAN WERN WERN WORD WAS WAS WAS WAS WAS WORD WOOD WAS
WSPD WDOD WREC WLAC WBRC WDSU WISN WGL WFBM WCCO KSCJ WMT	KMBC KOID KITI
WISN WGL WFBM WCCO KSCJ WMT KMBC KLRA WNAX KFH KFJF KRLD	9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT
KMBC KLRA WNAX KFH KFJF KRLD KTRH KTSA WACO KVOR KFPY KDYL	WRC WGY WCAE KOA KSL KGO
KLZ	KGW KOMO KHQ WSAI KSD WOC
12:00-12:30 Romanelli and His Orchestra	WHO WOW WWJ WSMB KPRC WOAI
WABC WFBL WHEC WKBW WLBZ WEAN WNAC WPG WCAU WHP WLBW WCAO	WTMJ KSTP KYW WHAS WRVA WSM WMC WSB WBEN WTAM KFI CKGW
WNAC WPG WCAU WHP WLBW WCAO WTAR WDBJ WKBN WWNC WBT WTOC	WMC WSB WBEN WTAM KFI CKGW WJAX KVOO
WDBO WXYZ WBCM WSPD WDOD WREC	9:30-10:00 Eno Crime Club
WLAC WBRC WDSU WISN WGL WFBM	WABC WFBL WKBW WEAN WDRC WNAC
WCCO KSCJ WMT KMOX KMBC KLRA	WCAU WJAS WMAL WCAO WADC WHK
WNAX KOIL KFH KFJF KRLD KTRH KTSA WACO KVOR KFPY KFRC KDYL	WKRC WXYZ WSPD WOWO WMAQ KMOX KMBC KOIL CFRB
KI.Z.	9:30-10:00 Dutch Masters Program
12:00-12:30 Rudy Vallee and His Connecticut Yankees	WJZ WBAL WBZ WBZA WHAM WGAR
12:00-12:30 Rudy Vallee and His Connecticut Yankees WEAF WTIC WRC WDAF WDAY WBEN WWJ WIBA KFYR WHAS	KDKA WJR WLW WENR KWK WREN
	9:30-10:30 Palmolive Hour
Wednesday	WEAF WTIC WEEI WJAR WTAG WCSH WLIT WRC WGY WCAE WSAI WGN
3:45-4:30 Syncopated Silbouettes Nat Brusiloff's Orch.	KSD WOC WOW WSMB WTMJ KSTP
WABC WOKO WGR WEAN WDRC WAAB WPG WHP WMAL WCAO WDBJ WWVA	CKGW WHAS WSM WMC WDAF WHO
WPG WHP WMAL WCAO WDBJ WWVA	WSB WOAI KOA KSL KGO KOMO

KHQ WWJ WTAM WBEN KFI KYOO
WFAA KPRC WIBA KGW

10:00-10:15 Vitality Personalities
WABC WOKO WFBL WKBW WEAN WDRC
WNAC WCAU WJAS
WHAM
WKRC WCAH WBT
WBC WOKO WFBL WRC WLAC WBRC
WBW WSPD WLAP WREC WLAC WBRC
WDSU WISN WOWO WFBM WBBM WCCO
RMOX KMBC KOLL KFH KFJF KRLD
KTRH KTSA KOL KVI KFPY KOIN
KFRC KHJ KDYL KLZ

10:15-10:30 Hernandez Brothers
WARC WOKO WFBL WHCC WKBW WLBZ
WARC WOKO WFBL WRC WLAC WBRC
WARC WREN WLW KFAB WLBZ WEAN
WHAM
S30-8:45 Henry Burbig — Nat Brusiloff's Orchestra
WHAM
S30-8:45 Henry Burbig — Nat KFRC KHJ KDYL KLZ

10:15-10:30 Hernandez Brothers

WABC WORO WFBL WHEC WKBW WLBZ
WEAN WDRC WAAL WCAO WTAR WDBJ
WWAS WLBW WAAL WCAO WTAR WDBJ
WWNC WBT WTOC WXYZ WBCM WSPD
WDOD WREC WLAC WBC WSU WISN
WOWO WFBM WMAQ WCCO KSCJ KMBC
WNAX KOIL KFH KFJF KRLD KTRH
KTSA KVOR KVI KFPY KFRC KDYL

WAS WBC WKBC WSBC WSBC WBC WHAM KDKA WGAR WJR WLW WLS
KWK

9:00-9:15 Rhythm Choristers — Freddie Rich's Orchestra
WABC WOKO SFBL WKBW WEAN WDRC
WAG WORO WTAR WDBJ WWAA WADC WHK
WAAC WORO WTAR WDBJ WWAA WADC WHK
WCAO WTAR WDBJ WWAA WADC WHK WEAN WDRC
WJAS WJBW
WAC WBCM WLAC WBRC WDSU WISN WTAQ
WADC WWNC
WDAE WXYZ
WDSU WISN
WMT KMBC
KRLD KTSA
KOL KFPY
WB WBCM WLAC WBRC WDSU WISN WTAQ
WFBM WMT KMBC WNAX KOIL WIBW
KFPH KFJF KRLD KTSA KOH KVOR
KGB KVI KFPY KFRC KDYL KLZ
CFRB
9:00-9:30 Blackstone Plantation
WJZ WBZ WBZA WBAL KDKA WCKY
WHAM
0:00-9:30 Arco Dramatic Musicale
WTAG WCSH KVOR KGB WACO KOH KDYL KLZ

#### Thursday

4:30-5:00 Maze of Melody
WJZ WBAL WGAR WJR WLW WENR
KWK WRC KSTP WDAY KFYR WJAX WMC WSM

WAG WORC WHP WJAS WLBW WMAL
WCAO WTAR WDBJ WWYA WADC WHK
WKBN WWNC WBT WQAM WDAE WXYZ
WBCM WLAC WBRC WDSU WISN WTAQ
WFBM WMT KMBC WNAX KOIL WIBW
KFH KFJF KRLD KTSA KOH KVOR
KGB KVI KFPY KFRC KDYL KLZ

9:30-10:00 Maxwell House Ensemble 30-10:90 Waxwell House Ensemble
WJZ WBZ WBZA WBAL
WEBC WHAS WSM WJAX
WRVA KSTP WSB WBAP
WIOD WJR WSM WOAI
KOMO KHQ WAPI WMC
WSUN WFLA KDKA KSL
KFSD KYW WBZA WBAL WKY WTMJ WSM WJAX KPRC KOA WREN KWK KECA KGW WHAM WJDX KCO

KSCJ WMT KMBC WRAA KOH KVO KPH KEJF KRLD KTSA KOH KVO KOL KVI KFPY KFRC KDYL KLZ

WMC WSMB WJDX KVOO WDAF WJAX KPRC WTAM WEBC WRVA WFLA WSUN	9:00-9:30 Interwoven Program
WOD WINDS WALL WOO WOW WOO	WJZ WHAM WMC KDKA WJAX WKY
WSB WPTF WFAA KGO KGW WOC WHO KFI KOMO KHQ KFSD KTAR	WREN KPRC KWK WBZ WBZA WSMB KGW WIOD WFLA WSUN KSTP WHAS
WHO KFI KOMO KHQ KFSD KTAR WENR WDAY KFYR WAPI KTHS on 10:30) WIBA (KSTP WHAS WSM KPRC off 10:30)	KGW WIOD WFLA WSUN KSTP WHAS KYW WEBC WCKY WSB WAPI WBAL WOAI KSL KGO KOMO KHQ KFSD KTAR WGAR KFI KOA WRVA WTMJ 9:00-9:30 Clicquot Club
WIBA (KSTP WHAS WSM KPRC off 10:30)	KYW WEBC WCKY WSB WAPI WBAL WOAI KSL KGO KOMO KHQ KFSD
	KTAR WGAR KFI KOA WRVA WTMJ 9:00-9:30 Clicquot Club
WDRC WORC WPG WHP WJAS WLBW	WEAF WTIC WEEI WJAR WTAG WCSH
WMAL WTAR WDBJ WADC WKBN WWNC	WLIT WRC WOW WCAE WSAI KSD
WBT WTOC WQAM WDBO WDAE WXYZ WBCM WLAC WBRC WDSU WISN WFBM	WIBO WWJ WDAF WOC WHO WGY WBEN
WCCO KSCJ WMT KMBC WNAX KOIL	9:00-9:45 Liberty Magazine Hour WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK
WIBW KFH KFJF KRLD KTSA KOH	WABC WFBL WKBW WEAN WDRC WNAC
KVOR KGB KOL KVI KFPY KFRC KHJ KDYL KLZ CFRB	WCAU WJAS WMAL WCAO WADC WHK
10:30-10:45 Tito Guizar — Tenor	WKRC WXYZ WSPD WOWO WMAQ KMOX KMBC KOIL
WARC WERL WKBW WLBZ WEAN WDRC	9:30-10:00 Pond's Dance Program
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WTAR WDBJ WADC WKBN	WEAF WTAG WJAR WCSH WLIT WRC WCAE WENR KSD WOC WHO WOW WGY WBEN WTAM WWJ
WMAL WCAO WTAR WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU	WGY WBEN WTAM WWJ
WXYZ WRCM WREC WLAC WRRC WINSH	9:30-10:00 Armour Program
WISN WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD	WJZ WBZ WBZA WJR KYW WREN KSTP WEBC WRVA WMC WSB WOAI
KTSA KOH KVOR KGB KOL KFPY	KOA KSL KGO WKY WHAS KGW
KHJ KDYL KLZ CFRB CKAC  10:45-11:00 Peter's Parade — Irene Beasley Contralto	KHQ KOMO KDKA WJAX WJDX WPTF WIOD WTMJ WAPI WHAM KFI WSM
10:45-11:00 Peter's Parade — Irene Beasley Contralto WABC WKBW WJAS WCAO WDBJ WADC	WLW WSMB WGAR WBAL WFAA KWK
WABC WKBW WJAS WCAO WDBJ WADC WHK WKRC WCAH WKBN WWNC WBT WIS WGST WTOC WQAM WDBO WDAE WXYZ WBCM WSPD WLAP WDOD WREC	KPRC
WIS WGST WTOC WQAM WDBO WDAE	9:45-10:00 Friendly Five Footnotes WABC WFBL WKBW WEAN WNAC WCAU
	WJAS WMAL WCAO WHK WKRC WBT
WBBM WCCO KSCJ WMT KMOX KMBC	WXYZ WREC WLAC WNOX WDSH WEBM
WNAX KOIL WIBW KFH KFJF KRLD WRR KTRH KOH KGB KOL KFPY	WMAQ WCCO KMOX KMBC KOIL KRLD KLZ
KOIN KERC KHI KDYL KLZ WMRC	10:00-10:30 Pillsbury Pageant
11:00-11:15 Little Jack Little	WABC WOKO WFBL WKBW WEAN WDRC
WEAF WTIC WOW WFI WIOD WTAM WWJ WENR	WNAC WCAU WJAS WMAL WCAO WTAR WDBJ WADC WHK WKRC WGST WXYZ
11:45-12:00 Radio Roundup	WSPD WREC WOWO WMAO WCCO KMOX
WABC WOKO WFBL WHEC WKBW WDRC WAAB WORC WCAU WHP WLBW WMAL	KMBC KÖLL KFJF KRLD KÖL KVI KFPY KÖIN KFRC KHJ KDYL KLZ
WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WWNC WTOC WDBO	10:00-10:30 Paul Whiteman's Paint Men
WXYZ WBCM WSPD WREC WLAC WBRC	10:00-10:30 Paul Whiteman's Paint Men WJZ WBZ WBZA WBAL WHAM KDKA
WDSU WISN WCCO KSCJ WMT KMBC KLRA WNAX KOIL KFJF KRLD KTRH	WJR WGAR KYW KWK KPRC KSTP WEBC WDAY KFYR WRVA WPTF WIOD
KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVOR KFPY KDYL KLZ	WELA WSUN WHAS WSM WMC WSB
Friday	WSMB WJDX WFAA WOAI KOA WKY
IIIday	
7-00-7-45 Major Rower' Family	KSL KGO KFI KGW KOMO KHQ WLW KFSD WIAX KTAR WAPI WTMI
7:00-7:45 Major Bowes' Family WEAF WJAR WCSH WCAE WWJ WENR	WLW KESD WIAX KTAR WAPI WTMI
7:00-7:45 Major Bowes' Family WEAF WJAR WCSH WCAE WWJ WENR WOC WHO KOA WSMB WOW KSD	WLW KFSD WJAX KTAR WAPI WTMJ 10:30-10:45 The Bon Bons — Negro Quartette
WOC WHO KOA WSMB WOW KSD WTAG WRC WGY WBEN WIBA WFLA	WLW KFSD WJAX KTAR WAPI WTMJ 10:30-10:45 The Bon Bons — Negro Quartette WABC WOKO WFBL WKBW WLBZ WEAN WDRC WNAC WORC WPG WHP WJAS WMAI WCAO WTAP WDBI WADC WWNC
WOC WHO KOA WSMB WOW KSD WTAG WRC WGY WBEN WIBA WFLA WSUN WHAS WSB WJDX WFAA WSM 7:30-7:45 Red Nichols and His Orchestra	WLW KFSD WJAX KTAR WAPI WTMJ 10:30-10:45 The Bon Bons — Negro Quartette WABC WOKO WFBL WKBW WLBZ WEAN WDRC WNAC WORC WPG WHP WJAS WMAI WCAO WTAP WDBI WADC WWNC
WOC WHO KOA WSMB WOW KSD WTAG WRC WGY WBEN WIBA WFLA WSUN WHAS WSB WJDX WFAA WSM 7:30-7:45 Red Nichols and His Orchestra WFBL WDRC WORC WCAU WHP WLRW	WLW KFSD WJAX KTAR WAPI WTMJ 10:30-10:45 The Bon Bons — Negro Quartette WABC WOKO WFBL WKBW WLBZ WEAN WDRC WNAC WORC WPG WHP WJAS WMAI WCAO WTAP WDBI WADC WWNC
WOC WHO KOA WSMB WOW KSD WTAG WRC WGY WBEN WIBA WFLA WSUN WHAS WSB WJDX WFAA WSM 7:30-7:45 Red Nichols and His Orchestra WFBL WDRC WORC WCAU WHP WLBW WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WREC	WLW KFSD WJAX KTAR WAPI 10:30-10:45 The Bon Bons — Negro Quartette WABC WOKO WFBL WKBW WLBZ WEAN WDRC WNAC WORC WPG WHP WJAS WMAL WCAO WTAR WDBJ WADC WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WLAC WBRC WDSU WOWO KSCJ WMT KMBC WAX KOIL WIBW KFH KFJF KTSA KOH KVOR KGB KOL
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WOC WHO KOA WSMB WOW KSD WTAG WRC WGY WSUN WHAS WSB WJDX WFAA WSM 7:30-7:45 Red Nichols and His Orchestra WFBL WDRC WORC WCAU WHP WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WREC WLAC WBRC WDSU WISN WTAQ WFBM KSCJ KMBC KOIL KFH KFJF KTRH KVOR KLZ 8:00-8:30 Nestle's Program WJZ WBZ WBZA WHAM KDKA WREN KFAB WJR WLLW KWK WGAR WBAL WLS WCKY 8:00-9:00 Cities Service Concert Orchestra WEAF WTIC WEEI WRC KTHS KVOO WGY WLIT WOW KYW WDAF KSD KSTP WTMJ WKY WOC WEBC KOA WOAI KOMO KGO KHQ WTAG KSL CKGW WSAI WHO KECA WTAM WBEN WWJ KTHS (WFAA KPRC off 8:30) 8:15-8:30 Barbasol Program WABC WOKO WBLL WKBW WEAN WDRC WHAC WYJAS WMAL WCAO WADC WHAC WCAU WJAS WMAL WCAO WADC WHAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WFM	W. W. KFSD
WOC WHO KOA WSMB WOW KSD WTAG WRC WGY WSUN WHAS WSB WJDX WFAA WSM 7:30-7:45 Red Nichols and His Orchestra WFBL WDRC WORC WCAU WHP WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WREC WLAC WBRC WDSU WISN WTAQ WFBM KSCJ KMBC KOIL KFH KFJF KTRH KVOR KLZ 8:00-8:30 Nestle's Program WJZ WBZ WBZA WHAM KDKA WREN KFAB WJR WLW KWK WGAR WBAL WLS WCKY 8:00-9:00 Cities Service Concert Orchestra WEAF WTIC WEEI WC KTHS KVOO WGY WLIT WOW KYW WDAF KSD KSTP WTMJ WKY WOC WEBC KOA WOAI KOMO KGO KHQ WTAG KSL CKGW WSAI WHO KECA WTAM WHO KECA WT	WLW KFSD WJAX KTAR WAPI  10:30-10:45 The Bon Bons — Negro Quartette  WABC WOKO WFBL WKBW WLBZ WARN WDRC WNAC WORC WPG WHP WMAL WCAO WTAR WDBJ WADC WNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WLAC WBRC WDSU WOWO KSCJ WMT KMBC WNAX KOIL WIBW KFH KFJF KTSA KOH KVOR KGB KFPY KHJ KDYL KLZ CFRB WLBW  10:30-11:00 RKO Theater of the Air WEAF WTIC WJAR WTAG WLIT WGY WCAE WWJ WSAI WIBO KSD WDAF WRVA WJAX WIOD WMC WSB WSMB WOC WJDX KGO KTS WOAI WKY WRC WCSH WTMJ KOA KGW KFI KHQ KOMO KTAR KFSD WHO WTAM KSL WFLA WSUN WBEN WDAS  11:00-12:00 Vincent Lopez and His Orchestra WEAF WOC WHO (WDAY on 11:15) (WOWO on 11:45) (WGY WCAE off 11:30) (WTAM KSD WWX WSB on 11:30) KVOO WEEI WBEN KFYR WDAF WFLA WSUN  11:45-12:15 Jack Denny and His Orchestra KOA WJZ WBAL WHAM KSTP KDKA WGAR KYR WEEI WHAM KSTP KDKA WGAR KYR WEAR WENR WREN CFCF KFYR  Saturday
WOC WHO KOA WSMB WOW KSD WTAG WRC WGY WSUN WHAS WSB WJDX WFAA WSM 7:30-7-45 Red Nichols and His Orchestra WFBL WDRC WORC WCAU WHP WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WREC WLAC WBRC WDSU WISN WTAQ WFBM KSCJ KMBC KOIL KFH KFJF KTRH KVOR KLZ 8:00-8:30 Nestle's Program WJZ WBZ WBZA KFAB WJR WUW KWK WGAR WBAL WLS WCKY 8:00-9:00 Cities Service Concert Orchestra WEAF WTIC WEEL WRC KTHS KGW KVOO WGY WLIT WCAE WJAR WCSH WOO KYW WDAF KSD KSTP WTMJ WKY WOC WEBC KOA WOAI KOMO KGO KHQ WTAG KSL CKGW WSAI WHO KEGA WTAM WBEN WJ KTHS (WFAA KPRC Off 8:30) 8:15-8:30 Barbasol Program WABC WOKO WFBL WNAC WCAU WJAS WHAM WEAN WJ SIS-8:30 Barbasol Program WABC WOKO WFBL WNAC WCAU WJAS WMAL WCAO WHK WKRC WXYZ WSPD WISN WPBM WMAQ WCCO KMOX KMBC KOIL 8:30-9:00 March of Time WABC WFBL WGR WEAN WDRC WNAC WHAS WMAL WCAO WADC WHK WBCN WFBL WGR WEAN WDRC WABC WFBL WGR WEAN WDRC WNAC	WLW KFSD WJAX KTAR WAPI  10:30-10:45 The Bon Bons — Negro Quartette WABC WOKO WFBL WKBW WLBZ WEAN WDRC WNAC WORC WPG WHP WJAS WAL WCAO WTAR WDBJ WADC WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WLAC WBRC WDSU WOWO KSCJ WMT KMBC WNAX KOIL WIBW KFH KFJF KTSA KOH KVOR KGB KOL KFPY KHJ KDYL KLZ CFRB WLBW  10:30-11:00 RKO Theater of the Air WEAF WTIC WJAR WTAG WLIT WGY WCAE WWJ WSAI WIBO KSD WDAF WRVA WJAX WIOD WMC WSB WSMB WOC WJDX KGO KTS WOAI WKY WRC WCSH WTMJ KOA KGW KFI KHQ KOMO KTAR KFSD WHO WOW WTAM KSL WFLA WSUN WBEN WDAY KFYR WEEI WPTF WAPI WENR WHAS WIBA  11:00-12:00 Vincent Lopez and His Orchestra WEAF WOC WHO (WDAY on 11:15) (WOW on 11:45) (WGY WCAE off 11:30) (WTAM KSD WW. WSB on 11:30) KVOO WEEI WBEN KFYR WDAY WDAY WFLA WSUN  11:45-12:15 Jack Denny and His Orchestra WJZ WBAL WHAM KSTP KDKA WGAR KOA WJR WENR WREN CFCF KFYR WIBA WSM
WOC WHO KOA WSMB WOW KSD WTAG WRC WGY WSUN WHAS WSB WJDX WFAA WSM 7:30-7:45 Red Nichols and His Orchestra WFBL WDRC WORC WCAU WHP WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WREC WLAC WBRC WDSU WISN WTAQ WFBM KSCJ KMBC KOIL KFH KFJF KTRH KVOR KLZ 8:00-8:30 Nestle's Program WJZ WBZ WBZA WHAM KDKA WREN KFAB WJR WLLW KWK WGAR WBAL WLS WCKY 8:00-9:00 Cities Service Concert Orchestra WEAF WTIC WEEI WCAE WJAR WCSH WOW KYW WDAF KSD KSTP WTMJ WKY WOC WEBC KOA WOAI KOMO KGO KHQ WTAG KSL CKGW WSAI WHO KECA WTAM WBEN WWJ KTHS (WFAA KPRC off 8:30) 8:15-8:30 Barbasol Program WABC WOKO WFBL WNAC WCAC WJAS WAAL WCAO WADC WHK WKRC WXYZ WSPD WISN WFM WMAQ WCCO KMOX KMBC KOIL 8:30-9:00 March of Time WABC WFBL WGR WCAU WJAS WKAC WYZ WSPD WISN WFBM WCAU WJAS WAAL WCAO WADC WHAC	WLW KFSD WJAX KTAR WAPI  10:30-10:45 The Bon Bons — Negro Quartette  WABC WOKO WFBL WKBW WLBZ WARN WDRC WNAC WORC WPG WHP WJAS WABL WCAO WTAR WDBJ WADC WNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WLAC WBRC WSUSU WWO KSCJ WMT KMBC WNAX KOIL WIBW KFH KFJF KTSA KOH KVOR KGB KOL KFPY KHJ KDYL KLZ CFRB WLBW  10:30-11:00 RKO Theater of the Air WEAF WTIC WJAR WTAG WLIT WGY WCAE WWJ WSAI WIBO KSD WDAF WCAE WJJX KGO KTS WOAI WKY WCAE WJDX KGO KTS WOAI WKY WC WJDX KGO KTS WOAI WKY WC WJDX KGO KTS WOAI WKY WRC WCSH WTMJ KOA KGW KFI KHQ KOMO KTAR KFSD WHO WOW WTAM KSL WFLA WSUN WBEN WDAY KFYR WEEI WPTF WAPI WENR WHAS WIBA  11:00-12:00 Vincent Lopez and His Orchestra WEAF WOC WHO (WDAY on 11:15) (WOW on 11:45) (WGY WCAE off 11:30) (WTAM KSD WW. WSB on 11:30) KVOO WEEI WBEN KFYR WDAF WFLA WSUN  11:45-12:15 Jack Denny and His Orchestra WJZ WBAL WHAM KSTP KDKA WGAR KOA WJR WENR WREN CFCF KFYR WIBA WSM  Saturday  4:00-4:30 Ann Leaf at the Organ WABC WOKO WFBL WGR WEAN WDRC
WOC WHO KOA WSMB WOW KSD WTAG WRC WGY WSUN WHAS WSB WJDX WFAA WSM 7:30-7-45 Red Nichols and His Orchestra WFBL WDRC WORC WCAU WHP WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WREC WLAC WBRC WDSU WISN WTAQ WFBM KSCJ KMBC KOIL KFH KFJF KTRH KVOR KLZ 8:00-8:30 Nestle's Program WJZ WBZ WBZA KFAB WJR WUW KWK WGAR WBAL WLS WCKY 8:00-9:00 Cities Service Concert Orchestra WEAF WTIC WEEL WRC KTHS KGW KVOO WGY WLIT WCAE WJAR WCSH WOO KYW WDAF KSD KSTP WTMJ WKY WOC WEBC KOA WOAI KOMO KGO KHQ WTAG KSL CKGW WSAI WHO KEGA WTAM WBEN WJ KTHS (WFAA KPRC Off 8:30) 8:15-8:30 Barbasol Program WABC WOKO WFBL WNAC WCAU WJAS WHAM WEAN WJ SIS-8:30 Barbasol Program WABC WOKO WFBL WNAC WCAU WJAS WMAL WCAO WHK WKRC WXYZ WSPD WISN WPBM WMAQ WCCO KMOX KMBC KOIL 8:30-9:00 March of Time WABC WFBL WGR WEAN WDRC WNAC WHAS WMAL WCAO WADC WHK WBCN WFBL WGR WEAN WDRC WABC WFBL WGR WEAN WDRC WNAC	WLW KFSD WJAX KTAR WAPI  10:30-10:45 The Bon Bons — Negro Quartette  WABC WOKO WFBL WKBW WLBZ  WBC WOKO WFBL WKBW WLBZ  WBC WAC WORC WPG WHP  WMAL WCAO WTAR WDBJ WADC WWNC  WBT WTOC WQAM WDBO WDAE WXYZ  WBCM WLAC WBRC WDSU WOWO KSCJ  WMT KMBC WNAX KOIL WIBW KFH  KFJF KTSA KOH KVOR KGB  KFPY KHJ KDYL KLZ CFRB WLBW  10:30-11:00 RKO Theater of the Air  WEAF WTIC WJAR WTAG WLIT WGY  WCAE WWJ WSAI WIBO KSD WDAF  WRVA WJAX WIOD WMC WSB WSMB  WOC WJDX KGO KTS WOAI WKY  WRC WCSH WTMJ KOA KGW KFI  KHQ KOMO KTAR KFSD WHO WOW  WTAM KSL WFLA WSUN WBEN WHAS  WIBA  11:00-12:00 Vincent Lopez and His Orchestra  WEAF WCC WHO (WDAY on 11:15) (WOW on  11:45) (WGY WCAE off 11:30) (WTAM KSD WW.  WSB WILSO  WSB WILSO  WSB WILSO  WSB WHA  11:45-12:15 Jack Denny and His Orchestra  WJZ WBAL WHAM KSTP KDKA  WJAR WENR WREN CFCF KFYR  WIBA  Saturday  4:00-4:30 Ann Leaf at the Organ

KLZ CFRB WFBM KSCJ KMOX KMBC	9:30-10:00 The First Nighter
5:30-5:45 Song Shoppe WEAF WTIC WWJ WCAE KSTP WRC	WJZ KDKA KSL KGO WTMJ KFI
WBEN KSD WJAR WENR WTAG KOA	KĞW KOMO KHQ KFSD KTAR KWK WREN WJR WLW WEBC WDAY KFYR
WSB WIAM WOW WDAY KFYR	WIBA KOA WGAR KYW KSTP WBZ
7:00-7:15 Nick Lucas WEAF WTIC WFI WCAE WWJ WSB	WBZA WHAM WBAL
KOA KGO WCSH WENR KFYR KSD	WABC WOKO WFBL WKBW WLBZ WEAN
7:00-7:15 Nick Lucas WEAF WTIC WFI WCAE WWJ WSB KOA KGO WCSH WENR KFYR KSD 7:15-7:30 Political Situation in Washington — Frederic William Wile WARC WOKO WFRL WGR WLBZ WDRC	WDRC WNAC WORC WPG WHP WJAS
William Wile WABC WOKO WFBL WGR WLBZ WDRC WAAB WORC WHP WJAS WLBW WMAL WDBJ WWNC WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WDSU WISN WTAQ WOWO WCCO KSCJ KMOX KMBC KOIL KFH KFJF KRLD KOH KVOR KGB KOL KYI KFPY KFRC KHJ KLZ WBT	WLBW WMAL WTAR WDBJ WADC WKBN
WAAB WORC WHP WJAS WLBW WMAL	WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WLAC WDSU WISN WTAQ
WDBJ WWNC WTOC WQAM WDBO WDAE	WOWO WFBM KSCJ WMT KMOX KMBC WNAX KOIL KIBW KFH KFJF KTSA
WXYZ WBCM WREC WLAC WDSU WISN	WNAX KOIL KIBW KFH KFJF KTSA
KOIL KEH KEJE KRLD KOH KVOR	KOH KVOR KGB KOL KVI KFPY KFRC KHJ KDYL KLZ
KGB KOL KVI KFPY KFRC KHJ	9.30-10.00 Club Valenar
KLZ WBT	WEAF WTIC WJAR WTAG WCSH WFI WRC WGY WBEN WCAE WTAM WWJ
7:15-7:30 Laws That Safeguard Society WEAF WJAR WTAG WCSH WFI WGY WBEN WOC WHO WEBC WOAI KOA KGO WEEI KECA KOMO KTAR WTIC WJDX WDAY WENR WOW 7:15-7:30 Tastyeast Jealers WILL WHAM WCKY WDEN KDWA WDZ	WRC WGY WBEN WCAE WTAM WWJ WSAI WEEI KSD WOC WHO WDAF
WBEN WOC WHO WEBC WOAI KOA	WSAI WEEL KSD WOC WHO WDAF KSTP WEBC WRVA WJAX WHAS WMC
KGO WEEL KECA KOMO KTAR WTIC	WSB WAPI WSMB WBAP KPRC WOAI
7:15-7:30 Tastyeast Jesters	WOW WTMJ CKGW WPTF WIOD WFLA
	WSUN WKY WJDX WDAY KFYR
WBZA WBAL WRC WLW WGAR WRVA WPTF WJAX WIOD WFLA WSUN	WJZ WBZ WBZA WHAM WGAR WIBO
7.20 7.4° C Dh-l	KWK WREN CFCF CKGW WJR WCKY
WJZ WHAM WREN WGAR KGO WLW	10:00-11:00 Hank Simmons' Show Boat
KDKA KWK KFAB KOA KPO KGW KECA KFSD	WABC WOKO WFBL WHEC WKBW WEAN WDRC WNAC WORC WPG WCAU WLBW
7:30-7:45 Lee Morse — Crooner	WMAL WTAR WDBJ WHK WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WREC WLAC WBRC WDSU WISN WFBM
WEAF WOC WHO WJAR WDAF WOW	WBT WTOC WDBO WXYZ WBCM WSPD WREC WLAC WBRC WDSU WISN WFBM
WRVA CFCF WTIC WTAG WCSH WFI WRC WGY WBEN WTAM WSM WENR	WREC WLAC WBRC WDSU WISN WIBN WCCO KSCI WMT KMOX KMBC WNAX
8:00-8:30 Civic Concerts Service Program	WCCO KSCJ WMT KMOX KMBC WNAX KOIL KFH KFJF KRLD KTRH KT A
KECA KPSD 7:30-7:45 Lee Morse — Crooner WEAF WOC WHO WJAR WDAF WOW WRVA CPOF WTIC WTAG WCSH WFI WRC WGY WBEN WTAM WSM WENR 8:00-8:30 Civic Concerts Service Program WEAF WTIC WTAG WGY WCAE KSD WOC WHO WOW WEFI WWI WSM	WACO KVOR KVI KFPY KFRC KDYL
8:00-8:30 Civic Concerts Service Program WEAF WTIC WTAG WGY WCAE KSD WOC WHO WOW WEEL WWJ WSAI WDAF WJAR WOSH WFI WBEN WTAM 8:00-8:30 Teddy Black's Orchestra	10:00-11:00 Lucky Strike Dance Orchestra
8:00-8:30 Teddy Black's Orchestra	WEAF WITC WEEL WIAR WIAG WOSH WFI WRC WGY WBEN WCAE WTAM
WJZ WBAL WHAM WJR KWK WREN	WWJ WSAI WGN KSD WOC WHO WOW WDAF WTMJ KSTP WEBC WRVA WJAX WIOD WFLA WSUN WHAS WMC
CKGW CFCF WIBO WRVA WFLA WSUN	WOW WDAF WTMJ KSTP WEBC WRVA WJAX WIOD WFLA WSUN WHAS WMC
8:15-8:30 Sterling Products — Abe Lyman's Band	WWJ WSAI WGN KSD WOC WHO WOW WDAF WTMJ KSTP WEBC WRVA WJAX WIOD WFLA WSUN WHAS WMC WSB WSMB WJDX KVOO WFAA WOAI WKY KOA KSL KGO KFI KGW KOMO KHQ KTAR KFSD WDAY KFYR
WABC WFBL WGR WEAN WDRC WNAC	WKY KOA KSL KGO KFI KGW
WJZ WBAL WHAM WJR KWK WREN CKGW CFCF WHO WRVA WFLA WSUN WMC KTHS WOAI KOA KSL 8:15-8:30 Sterling Products — Abe Lyman's Band WABC WFBL WGR WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WKRC WSPD KMOX KMBC KOIL WORC	KOMO KHQ KTAR KFSD WDAY KFYR WIBA KPRC
8:30-8:45 Kate Smith and La Palina	11:00-11:15 Little Jack Little
WABC WFBL WHEC WDRC WAAB WORC WPG WCAU WHP WLBW WTAR WDBJ WKBN WWNC WBT WDBO WXYZ WBCM WSPD WLAC WBRC WDSU WISN WTAQ	WEAF WTIC WFI WCAE KSD WGY
WKRN WWNC WRT WDRO WXYZ WRCM	WTAM
WSPD WLAC WBRC WDSU WISN WTAQ	11:30-12:00 Lloyd Huntley and His Orchestra WEAF WTIC WRC KSD WOC WHO
WFBM WMAQ KSCJ WMT KMOX KMBČ	WEAF WTIC WRC KSD WOC WHO WOW WMC WSB KPRC WEEI WFI
WFBM WMAQ KSCJ WMT KMOX KMBĆ KLRA WNAX KOIL KFH KFJF KTRH WACO KVOR KVI KFPY KFRC KDYL	WTAM WGY WWJ WDAF WCAE CFCF
8:30-9:00 Silver Flute	WIOD
WIAD WWI WEAT WEAR WEEL WE	11:45-12:00 Huston Ray and His Orchestra WABC WOKO WFBL WKBW WLBZ WEAN
8:45-9:00 Tastycast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WCAO WADC WHK WCAH WXYZ WSPD WDSU WOWO WFBM WBBM WCCO KMOX KMBC	WDRC WAAB WORC WPG WHP WLBW
WABC WFBL WGR WLBZ WEAN WDRC	WMAL WCAO WWYA WADO WHK WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN
WHK WCAH WYYZ WSPD WDSII WOWO	WRCM WREC WLAC WRRC WDSII WISN
WFBM WBBM WCCO KMOX KMBC	WFBM WCCO KSCJ WMT KMBC WNAX
0.00 0.15 The Decivell Sisters	KUIL WIBW KEN KEJE KKLD KISA
WABC WOKO WFBL WHEC WKBW WEAN	WTAR
WURU WNAU WURU WPG WUAU WHP WURW WMAL WCAO WTAR WDRI WHK	12:00-12:30 Jack Pottis and His Orchestra
WABC WOKO WFBL WHEC WKBW WEAN WDRC WNAC WORC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WHK WKBN WWNC WBT WTOC WDBO WXYZ	WABC WOKO WFBL WKBW WLBZ WEAN WNAC WPG WHP WLBW WMAL WCAO
WBCM WSPD WREC WLAC WBRC WDSU	
WBCM WSPD WREC WLAC WBRC WDSU WISN WTAQ WFBM WMAQ WCCO KSCJ WMT KMOX KMBC WMAX KOIL KFH KFJF KTRII KTSA KVOR KVI KFPY	WIAK WWYA WADO WHK WKBN WWNO WRT WTOO WOAM WDRO WDAF WROM
KFJF KTRH KTSA KVOR KVI KFPY	WREC WLAC WERC WDSU WISN WFBM
KFRC KDYL	WTAR WWVA WADC WHK WKBN WWNC WBT WTOC WQAM WDBO WDAE WBCM WREC WLAC WBRC WDSU WISN WFBM WCCO KMT KMOX KMBC WNAX KOIL
KFRC KDYL 9-00-9-30 General Flectric Program	WIBW KEJE KKLD KISA KOH KVOK
STRIC KDYL 9:00-9:30 General Electric Program WEAF WTIC WIAR WTAG WCSH WEI	WIBW KEJE KKLD KISA KOH KVOK
STRIC KDYL 9:00-9:30 General Electric Program WEAF WTIC WIAR WTAG WCSH WEI	WIBW KEJE KKLD KISA KOH KVOK
KFRC KDYL 9-00-9-30 General Flectric Program	WREC WLAC WBRC WDSU WISN WFBM WCCO KMT KMOX KMBC WNAX KOIL WBW KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ WXYZ  12:00-12:30 Sherbo's Continentals WEAF WTIC WGY WBEN WTAM KSD WWJ WOW WMC KPRC KOA WRC WDJ WOW WMC KPRC KOA WRC

WLW WIOD

WTOC WOAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN KOIL WISW KFJF KRLD WACO KOH KVOR KGB KOL KVI KFPY KHJ KDYL KLZ CFRB WFBM KSCJ KMOX KMBC

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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; ¢ Sends stamp but does not verify otherwise; ‡ Does not verify; § Did not reply. \$ Verification 25c, reply card 10c. 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 frequencies; 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

Brandon, Manitoba Merida, Mexico 547 101

Manitoba Telephone System Partido Socialista Surt

#### 550 kilocycles 545.1 meters

KFDY	†	<b>500</b>	1+	Brookings, S. D.
KFUO	*	500	2+	St. Louis, Mo.
KFYR	+	1000	1+N	Bismarck, N. D.
KOAC	Ť	1000		Corvallis, Ore.
KSD	†	500	2N	St. Louis, Mo.
WGR	*	1000	С	Buffalo, N. Y.
WKRC	†	1000	С	Cincinnati, Ohio

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

#### 560 kilocycles 535.4 meters

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

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

#### 570 kilocycles 526.0 meters

KGKO KMTR KXA 250 Wichita Falls, Texas Los Angeles, Cal. Seattle, Wash. 500 \* 500 TGW 50 Guatamala WEAO t **750** Columbus, Ohio WKBN WMAC WMCA 1C 2 3 500 Youngstown, Ohio Syracuse, N. Y. 250 Syracuse, N. Y New York City 500 WNAX 1000 C Yankton, S. D. Yankton, S. New York City WNYC t 500 3 WSYR 250 Syracuse, N. Y. Asheville, N. C. WWNC 1000

Wichita Falls Broadcasting Co. KMTR Radio Corp. American Radio Tel. Co.

Ohio State University WKBN Broadcasting Corp. 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.
CFCY	*	250		Charlottetown, P. E. I.
CHMA		250	4S	Edmonton, Alta.
CKCL	*	500	3	Toronto, Ont.
CKNC	*	500	3	Toronto, Ont.
CKUA	†	500	4	Edmonton, Alta.
KGFX		200	D	Pierre, S. D.
KSAC	1	500	$^{2}+$	Manhattan, Kans.
WIBW	*	1000	2+C	Topeka, Kansas
WOBU	*	250	1 +	Charleston, W. Va.
WSAZ	*	250	1	Huntington, W. Va.
WTAG	*	250	N	Worcester, Mass.

Dominion Battery Co. The Island Radio 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. WOBU, Inc. WSAZ, Inc. Telegram Publishing Co.

590 kilocycles 508.2 meters	KCYS.
CMW         -         1400         588         Havana, Cuba           KHQ         -         1000         +N         Spokane, Wash.           WCAJ         *         500         1         Lincoln, Nebr.           WEEI         †         1000         N         Boston, Mass.           WKZO         *         1000         D         Kalamazoo, Mich.           WOW         *         1000         1N         Omaha, Nebr.           XEZ         *         500         588         Mexico City	Columbus Commercial & Radio Co. Louis Wasmer, Inc. Nebraska Wesleyan University Edison Elec. Illuminating Co. WKZO, Inc. Woodmen of the World Gonzales Zamacona y Cia.  670 MTRS. 447.5
600 kilocycles 499.7 meters	
CNRO † 500 Ottawa, Ont.  KFSD * 500 +N San Diego, Cal.  WCAC † 250 2+ Storrs, Conn.  WCAO * 250 C Baltimore, Md.  WICC * 250 2+ Bridgeport, Conn.  WMT * 500 C Waterloo, Iowa  WREC * 500 +C Memphis, Tenn.	Canadian National Railways Airfan Radio Corp. Conn. Agricultural College Monumental Radio, Inc. Bridgeport Broadcasting Station, Inc. Waterloo Broadcasting Co. WREC, Inc.
610 kilocycles 491.5 meters	75
KFRC         *         1000         C         San Francisco, Cal.           WDAF         *         1000         N         Kansas City, Mo.           WFAN         *         500         2C         Philadelphia, Pa.           WIP         *         500         2C         Philadelphia, Pa.           —WJAY         †         500         D         Cleveland, Ohio	Don Lee, Inc. Kansas City Star Co. Keystone Broadcasting Co., Inc. Gimbel Bros. Co. Cleveland Radio Broadcasting Corp.
620 kilocycles 483.6 meters	
KGW       *       1000       +N       Portland, Ore.         KTAR       *       500       +N       Phoenix, Arizona         WFLA       *       1000       1+N       Clearwater, Fla.         WLBZ       †       500       C       Bangor, Maine         WSUN       *       1000       1+N       St. Petersburg, Fla.         WTMJ       *       1000       +N       Milwaukec, Wis.	Oregonian Publishing Co. KTAR Broadcasting Co. Chamber of Commerce Maine Broadcasting Co., Inc. Chamber of Commerce Milwaukee Journal
630 kilocycles 475.9 meters	
CFCT * 50 - Victoria, B. C. CJGX - 500 - Yorkton, Sask. CNRA * 500 - Moncton, N. B. KFRU * 500 1 Columbia, Mo. WGBF † 500 1 Evansville, Ind. WMAL * 250 + C Washington, D. C. WOS * 500 1 Jefferson City, Mo.	Victoria Broadcasting Association Winnipeg Grain Exchange Canadian National Railways Stephens College Evansville on the Air, Inc. M. A. Leese State Marketing Bureau
640 kilocycles 468.5 meters	675
CHRC 100 645 Quebec, Que.  CKCI 100 645 Quebec, Que.  CKCR - 50 645 Waterloo, Ont.  CMHJ 40 645 Cenfuegos, Cuba  KFI * 50000 N Los Angeles, Cal.  WAIU * 500 C Dn Columbus, Ohio  WOI * 5000 D Ames, Iowa  XFG 2000 638 Mexico City	E. Fontaine Le "Soleil," Ltd. John Patterson Arturo Hernandez Earle C. Anthony, Inc. American Insurance Union State College of Agriculture Secretaria de Guerra y Marina
650 kilocycles 461.3 meters	65
KPCB * 100 Dn Seattle, Wash. WSM * 5000 N Nashville, Tenn.	Queen City Broadcasting Co. National Life & Accident Ins. Co.
660 kilocycles 454.3 meters	63
CHWK † 100 Chilliwack, B. C. CJRM † 500 665 Moose Jaw, Sask. CJRW - 500 665 Fleming, Sask. CMCO - 225 Havana, Cuba RUS 500 664 Salvador WAAW * 500 D Omaha, Nebr. WEAF † 50000 N New York City WTIC * 5000 N Hartford, Conn.	Chilliwack Broadcasting Co., Ltd. Jas. Richardson & Sons, Ltd. Jas Richardson & Sons, Ltd. J. L. Stowers Republic of El Salvador Omaha Grain Exchange National Broadcasting Co., Inc. Travelers Broadcasting Service, Inc.
670 kilocycles 447.5 meters	61
HIX 100 669 Santo Domingo VOWR 500 675 St. Johns, N. F. -WMAQ * 5000 C Chicago, III. XER 101 674 Mexico City	Dominican Republic Wesley United Church WMAQ, Inc. Armida y Cia.

680 Irilaayalaa 440 0	
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, Mexico	Scroggin & Co., Bank Hale Bros. & The Chronicle Durham Life Insurance Co. Manuel Angel Fernandez & Cia
690 kilocycles 434.5 meters	5 V
CFAC	The Calgary Herald The Western Farmer Albertan Publishing Co., Ltd. Gooderham & Worts, Ltd. Canadian National Railways Canadian Pacific Railways U. S. Navy Canadian Marconi Co. Mexico Music Co., S. A.
700 kilocycles 428.3 meters	5 5
WLW * 50000 N Cincinnati, Ohio	Crosley Radio Corp.
710 kilocycles 422.3 meters	/i <5,
	P. C. Mara Miller
KMPC       *       500       Dn       Los Angeles, Cal.         WOR       *       5000       Newark, N. J.         XEN       †       1000       711       Mexico City	R. S. MacMillan Bamberger Broadcasting Service, Inc Cia. Civil de Inversiones
720 kilocycles 416.4 meters	51-
WGN † 25000 N Chicago, Ill.	Chicago Tribune
730 kilocycles 410.7 meters	
CHLS 50 1 Vancouver, B. C. CHYC * 5000 2S Montreal, Que. CKAC * 5000 2C Montreal, Que.	W. G. Hassell
CHYC * 5000 2S Montreal, Que. CKAC * 5000 2C Montreal, Que. CKCD 50 1 Vancouver, B. C. CKMO 50 1 Vancouver, B. C.	Northern Electric Co., Ltd. La Presse Publishing Co., Ltd.
CKCD 50 1 Vancouver, B. C. CKFC † 50 1 Vancouver, B. C.	
CKFC † 50 1 Vancouver, B. C. CKMO - 50 1 Vancouver B. C.	United Church of Canada
vancouver, B. (	Sprott-Show Radio Co
CKWX † 100 1 Vancouver, B. C.	Sprott-Shaw Radio Co. A. Holstead & Wm. Hanlon
CKWX † 100 1 Vancouver, B. C.	United Church of Canada Sprott-Shaw Radio Co. A. Holstead & Wm. Hanlon Cuban Broadcasting Co., Hotel Plaza Canadian National Pallyower
CKWX † 100 1 Vancouver, B. C. CMK 3150 Havens Cybs	Sprott-Shaw Radio Co. A. Holstead & Wm. Hanlon Cuban Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.
CKWX † 100 1 Vancouver, B. C. CMK 3150 - Havana, Cuba Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters	Canadian National Railways
CKWX † 100 1 Vancouver, B. C. CKWX † 100 1 Vancouver, B. C. CKK 1 150 2 Vancouver, B. C. CKK 1 150 2 Vancouver, B. C. CKK 1 150 2 Vancouver, B. C. CKK 1 Vancouver, B. C. CKKK 1 150 2 Vancouver, B. C. CKKKK 1 Vancouver, B. C. CKKKKKK 1 Vancouver, B. C. Vancouver, B. C. CKKKKKKKK 1 150 2 Vancouver, B. C. CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	Cunadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co.
CKWX † 100 1 Vancouver, B. C. CMK - 3150 - Havana, Cuba CNRM * 5000 2 Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.	Cuban Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.
CKWX † 100 1 Vancouver, B. C. CMK 3150 CNRM * 5000 2 Montreal, Que. XEM † 500 Dn Clay Center, Nebr. WSB - 5000 N Clay Center, Nebr. Atlanta, Ga.  740 kilocycles 405.2 meters Clay Center, Nebr. Atlanta, Ga.	Cunadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co.
CKWX † 100 1 Vancouver, B. C. CMK - 3150 - Havana, Cuba CNRM * 5000 2 Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.	Cunadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co.
CRWX † 100 1 Vancouver, B. C. Havana, Cuba Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.  750 kilocycles WJR † 5000 N Detroit, Mich.  760 kilocycles 399.8 meters  WJR † 5000 N Detroit, Mich.	Cubah Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.
CRWX † 100 1 Vancouver, B. C. CMR * 5000 2 Montreal, Que. CNRM * 5000 2 Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.  750 kilocycles 399.8 meters  WJR † 5000 N Detroit, Mich.  760 kilocycles 394.5 meters  KVI * 1000 CDn Tecome Wesh	Canadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.
CRWX † 100 1 Vancouver, B. C. CMR * 5000 2 Montreal, Que. CNRM * 5000 2 Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.  750 kilocycles 399.8 meters  WJR † 5000 N Detroit, Mich.  760 kilocycles 394.5 meters  KVI * 1000 CDn Tecome Wesh	Cubah Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.  Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University
CRWX † 100 1 Vancouver, B. C. CRWX * 5000 2 Warcouver, B. C. Havana, Cuba Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.  750 kilocycles 399.8 meters  WJR † 5000 N Detroit, Mich.  760 kilocycles 394.5 meters  KVI * 1000 CDn Tacoma, Wash.  WBAL * 1000 N St. Louis, Mo. New York City	Canadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.
CHWX † 100 1 Vancouver, B. C. CMK   3150 2 Montreal, Que. Tampico, Mexico   740 kilocycles   405.2 meters   KMMJ * 1000 Dn   Clay Center, Nebr.   Atlanta, Ga.   750 kilocycles   399.8 meters   WJR † 5000 N Detroit, Mich.   760 kilocycles   394.5 meters   WBAL * 1000 N Baltimore, Md.   WEW * 1000 D St. Louis, Mo. WJZ † 30000 N New York City   770 kilocycles   389.4 meters   770 kilocycles   7	Cuban Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.  Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.
CHWX † 100 1 Vancouver, B. C. CMK	Cuban Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.  Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.  KFAB Broadcasting Co. WBBM Broadcasting Co. WBBM Broadcasting Co.
CHWX † 100 1 Vancouver, B. C. CMK	Cuban Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.  Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.
CRWX † 100 1 Vancouver, B. C. Havana, Cuba Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.  750 kilocycles 399.8 meters  WJR † 5000 N Detroit, Mich.  760 kilocycles 394.5 meters  KVI * 1000 CDn Tacoma, Wash. Baltimore, Md. St. Louis, Mo. New York City  770 kilocycles 389.4 meters  KFAB * 5000 N N New York City  770 kilocycles 389.4 meters  KFAB * 5000 IN WBBM * 25000 IC Chicago, Ill. Chicago, Ill.  WJBT - 25000 IS S4.4 meters	Cuban Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.  Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.  KFAB Broadcasting Co. WBBM Broadcasting Co. WBBM Broadcasting Co.
CHWX † 100 1 Vancouver, B. C. Havana, Cuba Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.  750 kilocycles 399.8 meters  WJR † 5000 N Detroit, Mich.  760 kilocycles 394.5 meters  KVI * 1000 CDn Tacoma, Wash. Baltimore, Md. WEW * 1000 D St. Louis, Mo. New York City  770 kilocycles 389.4 meters  KFAB WBBM * 25000 IN Chicago, Ill.  WJBT - 25000 IS Chicago, Ill.  780 kilocycles 384.4 meters  CKY S0000 S000 S000 S000 S000 S000 S000 S	Cuban Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.  Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.  KFAB Broadcasting Co., Unc.  WBBM Broadcasting Co. WBBM Broadcasting Corp. WBBM Broadcasting Corp.
CHWX † 100 1 Vancouver, B. C. Havana, Cuba Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.  750 kilocycles 399.8 meters  WJR † 5000 N Detroit, Mich.  760 kilocycles 394.5 meters  KVI * 1000 CDn Tacoma, Wash. Baltimore, Md. WEW * 1000 D St. Louis, Mo. New York City  770 kilocycles 389.4 meters  KFAB WBBM * 25000 IN Chicago, Ill.  WJBT - 25000 IS Chicago, Ill.  780 kilocycles 384.4 meters  CKY S0000 S000 S000 S000 S000 S000 S000 S	Cunadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.  Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.  KFAB Broadcasting Co., Unc. WBBM Broadcasting Corp. WBBM Broadcasting Corp.  WBBM Broadcasting Corp.  Manitoba Telephone System Alberto Alvarez
CHWX † 100 1 Vancouver, B. C. Havana, Cuba Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.  750 kilocycles 399.8 meters  WJR † 5000 N Detroit, Mich.  760 kilocycles 394.5 meters  KVI * 1000 CDn Tacoma, Wash. Baltimore, Md. WEW * 1000 D St. Louis, Mo. New York City  770 kilocycles 389.4 meters  KFAB WBBM * 25000 IN Chicago, Ill.  WJBT - 25000 IS Chicago, Ill.  780 kilocycles 384.4 meters  CKY S0000 S000 S000 S000 S000 S000 S000 S	Cunadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.  Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.  KFAB Broadcasting Co., Inc.  WBBM Broadcasting Corp.  WBBM Broadcasting Corp.  WBBM Broadcasting Corp.  Manitoba Telephone System Alberto Alvarez Canadian National Railways Manyolis Park Ltd.
CHWX † 100 1 Vancouver, B. C. Havana, Cuba Montreal, Que. Tampico, Mexico  740 kilocycles 405.2 meters  KMMJ * 1000 Dn Clay Center, Nebr. Atlanta, Ga.  750 kilocycles 399.8 meters  WJR † 5000 N Detroit, Mich.  760 kilocycles 394.5 meters  KVI * 1000 CDn Tacoma, Wash. Baltimore, Md. WEW * 1000 D St. Louis, Mo. New York City  770 kilocycles 389.4 meters  KFAB WBBM * 25000 IN Chicago, Ill.  WJBT - 25000 IS Chicago, Ill.  780 kilocycles 384.4 meters  CKY S0000 S000 S000 S000 S000 S000 S000 S	Cunadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.  Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.  KFAB Broadcasting Co., Inc.  WBBM Broadcasting Corp.  WBBM Broadcasting Corp.  WBBM Broadcasting Corp.  Manitoba Telephone System Alberto Alvarez Canadian National Railways Manyolis Park Ltd.
CKY  780  Kilocycles  KMMJ * 5000 Dn  WSB - 5000 N  Clay Center, Nebr.  Atlanta, Ga.  750  Kilocycles  WJR † 5000 N  Clay Center, Nebr.  Atlanta, Ga.  750  Kilocycles  WJR † 5000 N  Tacoma, Wash.  WEW * 1000 D  WBAL * 1000 N  WEW * 1000 D  WJZ † 30000 N  WEW * 1000 N	Cuban broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.  The M. M. Johnson Co. Atlanta Journal Co.  WJR, The Goodwill Station, Inc.  Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.  KFAB Broadcasting Co., Unc.  WBBM Broadcasting Corp. WBBM Broadcasting Corp.  WBBM Broadcasting Corp.  Manitoba Telephone System Alberto Alvarez Canadian National Railways

790	kilo	cvcles	s 32	79.5	meters	415			
CMBS CMHC KGO WGY	 Ť	150 500 7500 50000	N N	Havan	ia, Cuba cu, Cuba rancisco, Cal. ectady, N. Y.	É. Artalejo Frank H. J National B General Ele	ones roadcasting Co ectric Co.	., Inc.	
800	kilo	cycle	s 3	74.8	meters				
WBAP WFAA XEU XFC	t	10000 50000 101 350	IXN 1N 805	Dallas	Vorth, Texas s, Texas ruz, Mexico scalientes, Mexic	News & Jou Fernando I	lications, Inc. urnal Pazos lel Estado de A	guascalientes	KCYS.
810	kilo	cycle	s 3	70.2	meters				880
WCCO WPCH	*	5000 500	C D	Minne	eapolis, Minn. York City	Northweste Eastern Br	ern Broadcasti oadcasters, Inc	ng, Inc.	MTRS. 340.7
820	kilo	cycle	s 3	65.6	meters				DIAL
WHAS XFI		10000 1000	N 818	Louis Mexic	ville, Ky. o City	Courier-Jo Sria, de In	urnal & Times d., Commercio	y Trabajo	
830	kilo	cvcle	s 3	61.2	meters				
CMGA KOA WEEU WHDI WRUI	, † J	100 12500 1000 1000 5000	834 N DCP D Dn	Color Denve Read: Bosto	n, Cuba er, Colo. ing, Pa. on, Mass. esville, Fla.	National B Berks Bros Matheson	/. Figueros Broadcasting Co adcasting Co. Radio Co., Inc of Florida		6 8 8 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
840	kilo	ocycle	s 3	56.9	meters	35-			
CFCA CHCT CKLC CMC CNRI CNRI	† † † † † † † † † † † † † † † † † † †	500 1000 1000 500 1000 500	1 2 2 1	Red I Red I Hava Red I	nto, Ont. Deer, Alta. Deer, Alta. na, Cuba Deer, Alta. nto, Ont.	G. F. Tull Alberta Pa Cuban Tel Canadian	shing & Ptg. C & Ardern, Ltd cific Grain Co lephone Co. National Raily National Raily	l. ., Ltd. vays	
850	kilo	ocycle	es 3	52. <i>7</i>	meters	342			
KWK WWL		10000 5000	1	Shre New	veport, La. Orleans, La.	Hello Wor Loyola Un	ld Broadcastin niversity	ig Corp.	
860	kilo	ocycle	es 3		meters	332			
CMJI KMO WABO WBO WHB XEJ XFX	G ‡	20 500 5000 5000 5000 101 500	856 + Dr XC D 857	New Kans Juar	aguey, Cuba ma, Wash. York City York City sas City, Mo. ez, Mexico co City, Mexico	Atlantic E WHB Broa	:. Broadcasting C Broadcasting C adcasting Co.	orp.	
870	kild	ocycle	es S	344.6	meters	32			]
WEN WLS		50000 50000	1N 1N	Chic	ago, Ill. ago, Ill.	National Agricultu	Broadcasting ( ral Broadcasti	Co., Inc. ng Co.	
880	kile	ocycl	es 3	340.7	meters	31			]
-CHM CJCE CKC CNR KFK KLX KPO WGE WGE WSU	IL * 3 * V † Q † A † F * OC * BI *	50 50 50 50 500 500 500 500 250 250 250	3 3 2+ 2 + 1	Que Que Gree Oak Den Mer Scra Scra	nilton, Ont. ney, N. S. bec, Que. bec, Que. bec, Que. cley, Colo. land, Cal. ver, Colo. didian, Miss. nton, Pa. nton, Pa. a City, Iowa	N. Nathai G. A. Van Canadian Midweste Tribune I Pillar of I Mississip	ndry National Rail Inational Rail Inn Radio Corp Publishing Co. Fire, Inc. pi Broadcastin Broadcasters, Times	ways g Co., Inc.	

000				•	
890	kilo	ocyc]	les	336.9 meters	
CFBO	*	500		St. John, N. B.	
CKCO	#	100	3	Ottawa, Ont.	C. A. Munro, Ltd. Dr. G. M. Geldert
CKPR		50	3	Port Arthur, Ont.	Dr. G. M. Geldert
CMCF	<b>†</b>	250		Hayana Cuba	Dougall Motor Car Corp. Raoul Karman
CMX	*	500		Havana, Cuba Havana, Cuba Shenandoah, Iowa	
KFNF		500	2+	Shenandoah, Iowa	Francisco Lavin Henry Field Co.
KGJF KUSD	*	250	-	Little Rock, Ark.	Church of the Negarana
KUSD	*	500	2 + +C	Little Rock, Ark. Vermillion, S. D.	Church of the Nazarene University of South Dakota
WGST	* *	250	+C	Atlanta, Ga. Urbana, III.	Georgia School of Technology
WILL		250	2+	Urbana, III.	University of Illinois
WJAR WKAQ	· *	250	+N	Providence, R. I.	The Outlet Co.
WMMI	, N *	250		Providence, R. I. San Juan, P. R. Fairmount, W. Va.	Radio Corp. of Porto Rico Holt-Rowe Broadcasting Co.
XES	\$	250 500	+	Fairmount, W. Va.	Holt-Rowe Broadcasting Co.
1100	φ	300	7	Tampico, Mexico	Difusora Portena XES
000	1::1:	1		222 1	
900	KIIC	ocycl	es ,	333.1 meters	295
KGBU	t	500		Ketchikan, Alaska	Alaska Radio & Service Co.
KHJ	*	1000	C	Los Angeles Cal	Don Lee, Inc.
KSĚI	*	250		Pocatello, Idaho San Jose, Costa Rica Buffalo, N. Y.	KSEI Broadcasting Association, Inc.
TIC		50	~	San Jose, Costa Rica	riobi broadcasting Association, inc.
-WBEN	*	1000	N	Buffalo, N. Y.	Buffalo Evening News
WJAX WKY	*	1000	N	Jacksonville, Fla.	City of Jacksonville
	*	1000	N	Jacksonville, Fla. Oklahoma City	WKY Radiophone Co.
WLBL	*	2000	D	Stevens Point, Wis.	Wisconsin Dept. of Markets
010	1-:1-	_ 1		220.6	
910	KIIC	eyel	es ,	329.6 meters	
CFOC		500	1	Saskatoon Sask	The Electric Charty
CFQC CHNS	*	500	3	Saskatoon, Sask. Halifax, N. S.	The Electric Shop, Ltd.
CJGC	*	5000	3	London, Ont.	Halifax Herald, Ltd.
CNRH		500	3	Halifax, N. S.	Canadian National Pailman
CJGC CNRH CNRL	*	500	2	London, Ont.	Free Press Printing Co., Ltd. Canadian National Railways Canadian National Railways Canadian National Railways
CNRS	10.5	_500	1	Saskatoon, Sask.	Canadian National Railways
XEW	+	5000		Mexico City	Mexico Music Co.
020	1 • 1		,	335.0	
920	KHC	cycl	es .	325.9 meters	2 5
HHK	*	1000		Port au Prince, Haiti	Donahia of Hair
KFEL	† *	500	1	Denver, Colo.	Republic of Haiti Eugene P. O'Fallon, Inc. Colorado Radio Corp.
KFXF		500	ī	Denver, Colo	Colorado Padia Carra
KOMO		1000	N	Denver, Colo. Seattle, Wash.	Fisher's Blend Station, Inc.
KPRC	*	1000	+N	Houston, Texas	Houston Printing Co
WAAF		500	D	Chicago, III.	Drovers' Journal Publishing Co.
WBSO		500	D	Needham, Mass.	Drovers' Journal Publishing Co. Babson Statistical Organization, Inc.
-wwj	†	1000	N	Detroit, Mich.	The Detroit News
XFF		250	915	Chihuahua, Mexico	Gobierno del Estado de Chihuahua
020	1-:1-	a a1	^		
930	KIIO	cycle	es j	322.4 meters	
CFCH		50	3	North Bay, Ont.	Northern Supplies, Ltd.
CFLC	*	50	3	Prescott, Ont.	Radio Association
CFRC	- =	_50	3	Kingston, Ont.	Radio Association Queen's University
CJCA KFWI	*	500		Edmonton, Alta.	The Edmonton Journal, Ltd.
KFWI KCD7	t	500	1	San Francisco, Cal. York, Nebr.	Radio Entertainments, Inc.
KGBZ KMA	*	500	2+	York, Nebr.	Dr. George R. Miller
KROW	*	500	2+ 1+X	Shenandoah, Iowa	May Seed & Nursery Co.
WBRC	*	500	1+X	Oakland, Cal.	Educational Broadcasting Corn
WDBJ	*	500 250	+6	Birmingham, Ala.	Birmingham Broadcasting Co., Inc.
WIBG	a)c	25	+C +C S	Roanoke, Va.	Birmingham Broadcasting Co., Inc. Times-World Corp.
				Elkins Park, Pa.	St. Paul's P. E. Church.
940	kila	cycle	ae 3	319.0 meters	
VOU.	KIIO	Cycle	JG (	13.0 Ineters	
KGU	† *	1000		Honolulu, Hawaii Portland, Oregon	Marion A. Mulrony
KOIN	4	1000	C D	Portland, Oregon	KOIN, Inc.
WAAT	*	300	Ď	Jersey City, N. J.	Bremer Broadcasting Corp.
WCSH WDAY	*	1000	N	Jersey City, N. J. Portland, Maine Fargo, N. D.	Congress Square Hotel Co
WFIW	*	1000 1000	N C	rargo, N. D.	WDAY, Inc. WFIW, Inc.
WHA		750	Ď+	Hopkinsville, Ky.	WFIW, Inc.
XEO		5000	D+	Madison, Wis.	University of Wisconsin
				Mexico City	National Revoluncionario Party
950 1	kilo	cycle	s 3	15.6 meters	
KFWB	*	1000			
KGHL		1000		Hollywood, Cal.	Warner Bros. Broadcasting Corp.
KMBC	*	1000	C	Billings, Mont.	Northwestern Auto Supply Co., Inc.
NRH				Kansas City, Mo.	Midland Broadcasting Co., Inc.
WRC	+	75 500	948 N	Heredia, C. R.	
WRC	t	500	948 N	Washington, D. C.	National Broadcasting Co., Inc.

960 kilocycles 312.3 meters	35
CFRB         *         5000         2C         Toronto, Ont.           CHWC         *         500         3         Regina, Sask.           CJBR         -         500         3         Regina, Sask.           CKCK         †         500         3         Regina, Sask.           CMBC         -         150         965         Havana, Cuba           CMBD         -         150         965         Havana, Cuba           CNRR         -         500         3         Regina, Sask.           CNRX         *         5000         2         Toronto, Ont.           XED         *         10000         965         Reynosa, Mexico	Rogers-Majestic Corp., Ltd. R. H. Williams & Sons, Ltd. Cooperative Wheat Producers, Ltd. Leader Publishing Co., Ltd. Domingo Fernandez Luis Perez Garcia Canadian National Railways Canadian National Railways International Broadcasting Co.
970 kilocycles 309.1 meters	
CMGF 50 977 Matanzas, Cuba KJR * 5000 Seattle, Wash. WCFL 1500 NDn Chicago, Ill.	Bernabe R. de la Torre Northwest Broadcasting System, Inc. Chicago Federation of Labor
980 kilocycles 305.9 meters	234
CFCN 10000 985 Calgary, Alta. KDKA 50000 N Pittsburgh, Pa. XEFE 101 Laredo, Mexico	Western Broadcasting Co. Westinghouse Elec. & Mfg. Co. Rafael T. Carranza
990 kilocycles 302.8 meters	KCYS.
WBZ-A † 15000 IN Springfield-Boston XEK 101 Mexico City	Westinghouse Elec. & Mfg. Co. Arturo Martinez  MTRS.
1000 kilocycles 299.8 meters	285.5
KEVD * 250 Dn Culver City, Cal.	Los Angeles Broadcasting Co.
WHO * 5000 1N Des Moines, Iowa	Central Broadcasting Co. Central Broadcasting Co. DIAL
WOC * 5000 1N Davenport, Iowa XEI * 101 Morelia, Mexico	Carlos Gutierrez M.
1010 1-11100 206 8 motors	
1010 kilocycles 296.8 meters CHCK 100 Charlottetown, P. E.	I. W. E. Burke
CHCS 500 3 Hamilton, Ont.	The Hamilton Spectator
CKIC 50 Wolfville, N. S. EKOC * 500 3+ Hamilton, Ont.	Acadia University Wentworth Radio Broadcasting Co.
CMBW 150 Havana, Cuba	M. Alvarez
CMBZ 150 Havana, Cuba KGGF † 500 2 S. Coffeyville, Okla. KOW * 500 San Jose, Cal.	Manual y Salas Powell & Platz
Will * 250 1 New York City	Pacific Agricultural Foundation, Ltd. Marcus Loew Booking Agency
WIS * 500 +C Columbia, S. C.	South Carolina Broadcasting Co., Inc. American Broadcasting Corp. of Ky.
WIS * 500 +C Columbia, S. C. WLAP † 250 C Louisville, Ky. WNAD * 500 2 Norman, Okla.	University of Oklahoma
WPAP * 250 1 New York City	Palisades Amusement Park Calvary Baptist Church
WOAO 250 1 New York City WRNY 250 1 New York City	Aviation Radio Station, Inc.
XEQ 1000 1015 Juarez, Mexico	Feliciano Lopez Islas
1020 kilocycles 293.9 meters	31
KFKX * 10000 1N Chicago, III.	Westinghouse Elec. & Mfg. Co.
WRAX † 250 D Philadelphia, Pa.	Westinghouse Elec. & Mfg. Co. WRAX Broadcasting Co.
1030 kilocycles 291.1 meters	
CFCF 1650 N Montreal, Que.	Canadian Marconi Co.
CMKC * 150 1034 Santiago de Cuba CNRV † 500 - Vancouver, B. C.	M. P. Martinez Canadian National Railways
XEB † 1000 Mexico City, Mexico XEV 101 1034 Puebla, Mexico	El Buen Tono, S. A. Ciro Molina
1040 kilocycles 288.3 meters	2.2
KRLD * 10000 1C Dallas, Texas	KRLD Radio Corp.
KTHS † 10000 1N Hot Springs, Ark.	Chamber of Commerce Michigan State College
WKAR * 1000 D East Lansing, Mich. WMAK * 1000 Dn Buffalo, N. Y.	Buffalo Broadcasting Corp.
1050 kilocycles 285.5 meters	195
-KFBI * 5000 Dn Milford, Kansas	Farmers & Bankers Life Insurance Co.
KNX * 5000 Hollywood, Cal.	Western Broadcast Co.

1060	kilocy	cles	282.8 meters	DIAL DIAL	NOWBERS	
KWJJ WBAL WJAG WTIC	* 500 * 1000 * 1000 * 5000	0 Dn 0 1N 0 Dn	Portland, Ore. Baltimore, Md. Norfolk, Nebr. Hartford, Conn.	Norfolk Da	adcast Co., Inc. ed Gas Elec. & Pwr. Co ily News Broadcasting Service Co	o.
1070	kilocy	cles	280.2 meters	151		
CMBG CMBT CMCB KJBS WCAZ WDZ WTAM	15 15 15 * 10 * 5 † 10 * 5000	0 0 D 0 D 0 D 0 D 0 D	Havana, Cuba Havana, Cuba Havana, Cuba San Francisco, Cal. Carthage, III. Tuscola, III, Cleveland, Ohio	James L. B	pablanca nton & Sons Co. roadcasting Service	
	kilocy	cles	277.6 meters			
WBT WCBD WMBI	* 500 * 500 * 500	0 1 Dn 0 1 Dn	Charlotte, N. C. Zion, Ill.	Station WE Wilbur Gle Moody Bibl	BT, Inc. nn Voliva le Institute	
1090	kilocy	cles	275.1 meters			
KMOX XEL	* 5000 1 10	0 C 0 1091	St. Louis, Mo. Saltillo, Mexico	Voice of St. Antonio Ga	Louis, Inc. arza Castro	
1100	kilocy	cles	272.6 meters			
CMKD KGDM WLWL WPG	* 250 * 5000 * 5000	D DX D 1 D 1C	Santiago, Cuba Stockton, Cal. New York City Atlantic City, N. J.	Jose Caluff E. F. Peffer Missionary WPG Broad	Society of St. Paul	
1110 1	kilocy	cles	270.1 meters			
CMHI KSOO WRVA	* 2500 * 5000	Dn N	Santa Clara, Cuba Sioux Falls, S. D. Richmond, Va.	Laviz y Paz Sioux Falls Larus & Bro	Broadcasting Assn., In os. Co., Inc.	ic.
1120 1	kilocy	cles	267.7 meters			_
CFJC CHGS CJOC KFIO KFSG KMCS KRSC KTRH WDBO WDEL WHAD WISN WTAW	* 100 † 100 † 100 * 500 * 500 * 500 * 250 * 250 * 500	D 3 3 3Y D 2C +C	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	Dalton's, In Radio Sales Rice Hotel Orlando Bro WDEL, Inc. Marquette U Evening Wis	arson oadcasting Corp. oadcasting Corp. occorp. Corp. oadcasting Co., Inc.	
1130 1	cilocy	cles	265.3 meters			
KSL WJJD WOV XEE XEH	* 5000 * 20000 - 1000 * 105 5000	N C Dn D 1132	Salt Lake City Mooseheart, III. New York City Oaxaca, Mexico Monterrey, Mexico	LOVAL Urder	al Broadcasting Corp. Ila B.	
1140 k	tilocy	eles 2	263.0 meters			
CMGD KVOO WAPI XETA	* 5000 * 5000 - 500	1N 1N	Matanzas, Cuba Tulsa, Okla. Birmingham, Ala. Mexico City	Rafael Rodri Southwester Alabama Pol Manuel Espi	n Sales Corp. Vtechnic Institute	
	tilocyc	eles 2	260.7 meters			
CMCQ CMHA CMQ WHAM	600 200 † 250 * 5000	1154 N	Havana, Cuba Cienfuegos, Cuba Havana, Cuba Rochester, N. Y.	Andres Mart Fox Bros. Co Jose Fernand Stromberg-C		

		INDE.	хві	FREQUENCIES A	ND DIAL NUMBERS	
1160	kil	ocycle	es i	258.5 meters		
WOWO WWVA	*	10000 5000	IC IC	Ft. Wayne, Ind. Wheeling, W. Va.	Main Auto Supply Co. West Virginia Broadcasting Corp.	
1170	kil	ocycl	98	256.3 meters	14	
CMKG	KII	30	1176	Santiago de Cuba	Ricardo Arnaldo	
-WCAU	*	10000	C	Philadelphia, Pa.	Universal Broadcasting Co.	
1180	kil	ocycle	es	254.1 meters		
CMGB KEX	*	7.5 5000	1185 2	Matanzas, Cuba Portland, Ore.	Jose Anorga Western Broadcasting Co.	
KOB	*	20000	2	State College, N. M. Minneapolis, Minn.	College of Agriculture & Mech. Arts Dr. George W. Young General Broadcasting System, Inc.	
WDGY WGBS	* †	1000 500	1 Dn	Minneapolis, Minn. New York City	General Broadcasting System, Inc.	
WHDI	*	500	1 Dn	Minneapolis, Minn. Macon, Ga.	Dr. George W. Young Junior Chamber of Commerce	
WMAZ	†	500		Macon, Ga.	Juliot Gramber et Commune	1
	kil	ocycl		252.0 meters		
WOAI	*	50000	N	San Antonio, Texas	Southern Equipment Co.	1
		ocycl	es	249.9 meters		
CMKB KBTM KFJB KFWF		15 100	D	Santiago de Cuba Paragould, Ark.	Melchor Aguero W. J. Beard's Temple of Music	
KFJB	Ť	100 100	+ 5+	Marshalltown, Iowa	Marshall Electric Co., Inc. St. Louis Truth Center, Inc.	
KGDE	*	100	+	St. Louis, Mo. Fergus Falls, Minn. Huron, S. D. Yuma, Colo.	Jaren Drug Co. Voice of South Dakota	
KGDY KGEK	-	100 100	9	Huron, S. D. Yuma, Colo.	Beehler Elec, Equipment Co.	
KGEW	†	100	9	Fort Morgan, Colo. Los Angeles, Cal. Little Rock, Ark.	City of Fort Morgan Ben S. McGlashan	KCYS.
KGFJ KGHI	*	100 10 <b>0</b>		Little Rock, Ark.	Berean Bible Class	1210
KGY KMLB	†	10 100	+ D	Lacey, Wash. Monroe, La.	St. Marten's College J. C. Liner	1210
KSMR	*	100		Santa Maria, Cal. Bellingham, Wash.	Santa Maria Radio KVOS, Inc.	MTRS.
KVOS KWG	*	100 100		Stockton, Cal.	Portable Wireless Tel. Co., Inc.	247.8
KWG WABI WABZ	† *	100 100	ī	Stockton, Cal. Bangor, Maine New Orleans, La	Pine Tree Broadcasting Corp. Samuel D. Reeks	DIAL
WBBZ	*	100		New Orleans, La. Ponca City, Okla. Huntsville, Ala. Rapid City, S. D. Burlington, Vt. Janesville, Wis.	Samuel D. Reeks C. L. Carrell The Hutchens Co.	
WBHS WCAT	† *	50 100	10CF	Rapid City, S. D.	State School of Mines	
WCAT WCAX WCLO		100 100	2	Burlington, Vt.	Burlington Daily News WCLO Radio Corp.	İ
WCOD	) †	100	3 7	Harrisburg, Pa. Worcester, Mass.	Keystone Broadcasting Corp. Alfred Frank Kleindienst	
WEPS WFAM	1 *	100 100	7 8	South Bend, Ind.	South Rend Tribune	
WFBC	*	50 100	10	Knoxville, Tenn. Cincinnati, Ohio	First Baptist Church Post Publishing Co.	
WFBE WHBC WHBY	: †	10	+ 4S	Canton, Ohio Green Bay, Wis.	Post Publishing Co. St. John's Catholic Church	
WHBY WIBX	( † *	$\frac{100}{100}$	+ 5+	Utica, N. Y.	St. Norbert's College WIBX, Inc.	
wii.	*	100 100	5+	St. Louis, Mo. La Salle, Ill. Decatur, Ill.	Missouri Broadcasting Corp. Kaskaskia Broadcasting Co.	
WJBC WJBL WJBW	†	100	6	Decatur, Ill.	Commodore Broadcasting, Inc.	
WJBW WK IC	/ † : *	100 100	1 3	New Orleans, La. Lancaster, Pa.	Charles C. Carlson, Jr. Kirk, Johnson & Co.	
WKJC WLBC	*	100	4	Petersburg, Va. Washington, Pa. Carbondale, Pa. Springfield, Vt.	Kirk, Johnson & Co. WLBG, Inc. John Brownlee Spriggs	
WNB0 WNBV	)	100 10		Carbondale, Pa.	Home Cut Glass & China Co.	1
WNBX WORG	<b>\</b> †	10 100	2 7CX	Springfield, Vt. Worcester, Mass.	First Congregational Church Alfred Frank Kleindienst	
WRBL	, †	50		Columbus, Ga. Hammond, Ind.	WRBL Radio Station, Inc. Hammond-Calumet, Broad. Corp.	
WWAI XEA	B ↑ 	100 101	8	Guadalajara, Mexico	Alberto Palos Sauza	
1210	) ki	locyc	les	247.8 meters	125	
CFCO	*	100	8	Chatham, Ont.	Western Ontario "Better Radio" Clu James S. Neill & Sons, Ltd.	ıb
CFNB CJOR		500 500		Fredericton, N. B. Sea Island, B. C.	G. C. Chandler	
CJOR CKM( CKPC	C .	. 100 50	8 8+	Cobalt, Ont.	R. L. MacAdam Metal Shingle & Siding Co.	
KDFN	†	100		Preston, Ont. Casper, Wyo.	Metal Shingle & Siding Co. Donald Lewis Hathaway	
						1

		IIIDEA	DI	LKE QUENCIES	AND DIAL NUMBERS
KDLR	† *	100		Devil's Lake, N. D.	KDI P Inc
KFOR KFVS	*	100	+	Lincoln, Nebr.	KDLR,Inc. Howard A. Shuman
KFXM			6 9	Cape Girardeau, Mo.	Hirsch Battery & Radio Co.
KGCR	†	100		San Bernardino, Cal. Watertown, S. D.	
KGMP	§	100		Elk City, Okla.	Greater Kampeska Radio Corp. Bryant Radio & Electric Co.
KGNO	*	100		Elk City, Okla. Dodge City, Kansas	Dodge City Broadcasting Co. James McClatchy Co. Passadona Prochytonian Character
KMJ KPPC	8	100 50	9	rresno, Cal.	James McClatchy Co.
KWEA	*	100		Pasadena, Cal.	
WALR	*	100		Shreveport, La. Zanesville, Ohio	Hello World Broadcasting Corp. Roy W. Waller John H. Stenger, Jr. Grace Covenant Pres. Church
WBAX WBBL	*	100	1 7S	Wilkes-Barre Po	John H. Stenger, Jr.
WCBS	† *	100 7 100 7	, 3	Richmond, Va. Springfield, Ill. Yonkers, N. Y.	Grace Covenant Pres. Church
WCOH WCRW	*	100	2	Yonkers, N. Y.	H. L. Dewing & Chas. Messter Westchester Broadcasting Corp. Clinton R. White
WCRW	*	100	1	Chicago, III.	Clinton R. White
WEBQ	*	100 5 100 6		Providence, R. I.	Cherry & Webb Broadcasting Co.
WEDC		100	4	Harrisburg, Ill. Chicago, Ill.	Cherry & Webb Broadcasting Co. First Trust & Savings Bank Emil Denemark, Inc.
WGBB	*	100	3	Freeport, N. Y.	
WGCM WHBF	*			Gulfport, Miss.	Harry H. Carman Great Southern Land Co., Inc.
WHBU	†	100		Rock Island, Ill.	Beardsley Specialty Co. Citizens Bank
	*	100		Anderson, Ind. Poynette, Wis.	Wm. C. Forrest
WIBI	*	100 3	•	Red Bank, N. I.	Monmouth Broadcasting Co
WIBU WJBI WJBY WJW WLCI	*	100 1 100 _		Lewisburg, Pa. Gadsen, Ala.	Bucknell University
WJW	*	100	-	Mansfield, Ohio	Gadsen Broadcasting Co., Inc. Mansfield Broadcasting Assn.
WLCI WMBG	*	50 100 $\tilde{7}$		Mansfield, Ohio Ithaca, N. Y.	
WMRJ	*	100 7 100 3		Richmond, Va.	Havens & Martin, Inc.
~WOCL	*	25		Richmond, Va. Jamaica, N. Y. Jamestown, N. Y.	Peter J. Prinz A. E. Newton
WOMT	*	100 _		Manitowoc, Wis. Pawtucket, R. I.	Francis M. Kadow
WPAW WPRO	*	100 5 100 5		Pawtucket, R. I.	Shartenburg & Robinson Co
WODX	*			Providence, R. I. Thomasville, Ga.	Cherry & Webb Broadcasting Co.
WRBO	*	100 -	-	Greenville, Miss.	Stevens Luke L. Pat. Scully
WSBC WSEN	†	100 4		Chicago III	J. Pat. Scully World Battery Co., Inc.
WSIX	*	100		Columbus, Ohio Springfield, Tenn. Gastonia, N. C.	Columbus Broadcasting Co.
WSOC WTAX	†	100		Costonia N. C.	638 Tire & Vulcanizing Co.
				Gastonia, N. C.	WSOC Inc
WTAX	†	100 2	,	opringneia. III.	WSOC, Inc. WTAX, Inc.
XEX	†	100 2 500	i	Springfield, III. Mexico City	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.
XEX	†	100 2 500	i	Mexico City	WSOC, Inc. WTAX, Inc.
1220 D	†	cycles	24	Mexico City  45.8 meters	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.
1220 CMCA	†	100 2 500 2 cycles	24	Mexico City  45.8 meters	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz
1220 CMCA	± kilo	100 2 500 2 cycles 150 1 250 1 250 1	24 225 225 225	Mexico City  45.8 meters  Havana, Cuba  Havana, Cuba  Havana, Cuba	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard
1220 ] CMCA CMCD CMCN KFKU	kilo	100 2 500 2 cycles 150 1 250 1 250 1 500 1	24 225 225 225	Mexico City  45.8 meters  Havana, Cuba  Havana, Cuba  Havana, Cuba	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas
TEX  1220  CMCA CMCD CMCN KFKU KTW KWSC	kilo	100 2 500 2 cycles 150 1 250 1 250 1 500 1 1000 +	24 225 225 225 225	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kansas Senttle Wash	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas
TEX  1220  CMCA CMCD CMCN KFKU KTW KWSC WCAD	kilo	100 2 500 2 Cycles 150 1 250 1 250 1 500 1 1000 1 500 D	24 225 225 225	Mexico City  45.8 meters Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y.	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University
TEX  1220  CMCA CMCD CMCN KFKU KTW KWSC WCAD WCAE	kilo	100 2 500 2 Cycles 150 1: 250 1: 250 1: 500 1 1000 1 1000 1 1000 N	24 225 225 225 225	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa.	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE Inc.
TEX  1220  CMCA CMCD CMCN KFKU KTW KWSC WCAD	kilo	100 2 500 2 Cycles 150 1 250 1 250 1 500 1 1000 1 500 D	24 225 225 225 225	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Fampa, Fla.	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co.
1220 ] CMCA CMCD CMCN KFKU KWSC WCAE WDAE WREN	kilo	100 2 500 2 Cycles 150 1: 250 1: 250 1: 500 1: 1000 + 1000 D 1000 C 1000 II	225 225 225 225 1	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Iampa, Fla. Lawrence, Kansas	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE Inc.
TEX  1220 I  CMCA CMCD CMCN KFKU KTW KWSC WCAD WCAD WCAE WDAE WREN  1230 I	kilo	100 2 Cycles 150 1: 250 1: 250 1: 500 1: 1000 1: 1000 1: 1000 Di 1000 Ci 1000 Ci	225 225 225 225 1	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Iampa, Fla. Lawrence, Kansas	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co.
TEX  1220 I  CMCA CMCD CMCN KFKU KTW KWSC WCAD WCAD WCAE WDAE WREN  1230 I	kiloo	100 2 500 2 Cycles 150 1: 250 1: 250 1: 500 1 1000 1 1000 D 1000 N 1000 C 1000 IN	24 225 225 225 225 1	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Iampa, Fla. Lawrence, Kansas	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co. Jenny Wren Co.
MEX 1220 1 CMCA CMCD CMCN KFKU KWSC WCAE WDAE WREN 1230 1 KFGD KGGM	kiloo	100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	24 225 225 225 225 225 225 225 227 24	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kansas  43.8 meters Anchorage, Alaska Allbuquerque, N. Mex.	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Co.
TEX  1220  CMCA CMCD CMCN KFKU KWSC WCAD WCAE WDAE WDAE  1230  KFQD KGGM KYA WBIS	kiloo	100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	24 225 225 225 225 225 225 225 225 225 2	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Fampa, Fla. Lawrence, Kansas  43.8 meters Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal.	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Co. Pacific Broadcasting Corp.
TEX  1220 1  CMCA CMCD CMCN KFKU KTW KWSC WCAD WCAD WCAB WREN  1230 1  KFQD KGGM KYA WBIS WFBM	kiloo	100 2 500 2 Cycles 150 11 250 12 250 12 500 11 1000 1 1000 N 1000 N	24 2225 2225 2225 2225 2225 2225 2225 2	Mexico City  45.8 meters  Havana, Cuba Havana, Fall Canton, N. Y. Pittsburgh, Pa. Fampa, Fla. Lawrence, Kansas  43.8 meters Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. Boston, Mass. Indianapolis Indianapolis	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Corp. Shepard Broadcasting Corp. Shepard Broadcasting Service. Inc.
TEX  1220  CMCA CMCD CMCN KFKU KWSC WCAD WCAE WDAE WDAE  1230  KFOD KGGM KYAA WBIS WFBM WNAC	kiloo	100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	24 2225 2225 2225 2225 2225 2225 2225 2	Mexico City  45.8 meters  Havana, Cuba Havana, Fall Canton, N. Y. Pittsburgh, Pa. Fampa, Fla. Lawrence, Kansas  43.8 meters Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. Boston, Mass. Indianapolis Indianapolis	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Cor. Pacific Broadcasting Cor. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc.
TEX  1220 1  CMCA CMCD CMCN KFKU KTW KWSC WCAD WCAD WCAB WREN  1230 1  KFQD KGGM KYA WBIS WFBM	kiloo	100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2225 2225 2225 2225 2225 2225 2225 222	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kansas  43.8 meters Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. Soston, Mass. Indianapolis, Ind. Soston, Mass. State College, Pa.	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Corp. Shepard Broadcasting Corp. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc. Pennsylvania State College
MEX  1220  CMCA CMCD CMCN KFKU KWSC WCAB WDAE WTAB WREN  1230  KFQD KGGM KYA WBIS WFBM WNAC WPSC WSBT	kiloo	100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	24 2225 2225 2225 2225 2225 2225 2225 2	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Iampa, Fla. Lawrence, Kansas  43.8 meters Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. Boston, Mass. Indianapolis, Ind. Boston, Mass. State College, Pa. Bouth Bend, Ind.	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Cor. Pacific Broadcasting Cor. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc.
MEX  1220  CMCA CMCD CMCN KFKU KWSC WCAB WDAE WTAB WREN  1230  KFQD KGGM KYA WBIS WFBM WNAC WPSC WSBT	kiloo	100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	24 2225 2225 2225 2225 2225 2225 2225 2	Mexico City  45.8 meters  Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kansas Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kansas  43.8 meters Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. Soston, Mass. Indianapolis, Ind. Soston, Mass. State College, Pa.	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Corp. Shepard Broadcasting Corp. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc. Pennsylvania State College
CMCA CMCD CMCN KFKU KWSC WCAD WCAD WREN 1230 I KFOD KGGM KYAM WBIS WFBM WNAC WPSC WSBT 1240 I CMAB	kiloo	100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2449 F	Mexico City  45.8 meters  Havana, Cuba Realli, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Fampa, Fla. Lawrence, Kansas  43.8 meters Anchorage, Alaska Malbuquerque, N. Mex. San Francisco, Cal. Boston, Mass. Indianapolis, Ind. Boston, Mass. State College, Pa. Bouth Bend, Ind.  41.8 meters  Pinar del Rio, Cuba	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.  M. Cruz Angel Bertamaty Antonio Ginard University of Kansas First Presbyterian Church State College of Washington St. Lawrence University WCAE, Inc. Tampa Publishing Co. Jenny Wren Co.  Anchorage Radio Club New Mexico Broadcasting Corp. Shepard Broadcasting Corp. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc. Pennsylvania State College South Bend Tribune
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	INDEX D	I INEQUENCIZE III		
KIDO † WAAM * WCAL * WDSU † WGCP WLB † WODA WRHM * XEFA	1000 1000 1+2 1000 2 1000 C 250 1 1000 2 1000 1 1000 2 250	Boise, Idaho K Newark, N. J. Northfield, Minn. New Orleans, La. Newark, N. J. St. Paul, Minn. Paterson, N. J. Minneapolis, Minn. Mexico City	Boise Broadcasting Station WAAM, Inc. St. Olaf College Jos. H. Uhalt May Radio Broadcast Corp. University of Minnesota Richard E. O'Dea Minnesota Broadcasting Corp. Luis F. Murguia	
1260 kilo	ocvcles	238.0 meters		
KOIL * KRGV * KVOA † KWWG * WLBW * WTOC *	1000 C 500 1 500 D 500 1 500 C 500 C	Council Bluffs, Iowa Harlingen, Texas Tucson, Arizona Brownsville, Texas Oil City, Pa. Savannah, Ga.	Mona Motor Oil Co. KRGV, Inc. Robert M. Riculfi Herald Pub. Co. Radio-Wire Program Corp. Savannah Broadcasting Co.	
1270 kilo	ocycles	236.1 meters		
CMJB KGCA † KOL † KVOR * KWLC * WASH * WEAI * WFBR WJDX * WOOD †	20 127 50 2D 1000 C 1000 C 1000 2D 500 1 1000 D 500 N 1000 N 500 1		Eduardo V. Figueroa Charles W. Greenley Seattle Broadcasting Co., Inc. Reynolds Radio Co., Inc. Luther College WASH Broadcasting Corp. Cornell University Baltimore Radio Show, Inc. Lamar Life Insurance Co. Kunsky-Trendle Broadcasting Corp.	
1280 kile	ocycles	234.2 meters		
CMBJ	15 128 15 128 30 128 15 128 20 128 1000 + 500 1 1000 + 500 1 500 + 500 + 500 1 500 C	5 Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Great Falls, Mont. Camden, N. J. Asbury Park, N. J. Chattanooga, Tenn.	Jesus Lopez Jose Leiro Jose Justo Moran Hernani Torralbas Aurelio Hernandez Buttrey Broadcast, Inc. City of Camden Radio Industries Broadcast Co. WDOD Broadcasting Corp. Badger Broadcasting Co. WOAX, Inc. City of Dallas	
1290 kil	ocvcles	232.4 meters		
KDYL † KFUL KLCN * KTSA † WEBC * WJAS * WNBZ	1000 C 500 1 50 D 1000 1+ 1000 +1 1000 C- 50 D	Salt Lake City Galveston, Texas Blytheville, Ark. C San Antonio, Texas Superior, Wis. Pittsburgh, Pa. Saranac Lake, N. Y.	Intermountain Broadcasting Corp. News Publishing Co. C. L. Lintzenich Lone Star Broadcast Co. Head of Lake Broadcasting Co. Pittsburgh Radio Supply House Smith & Mace	MTRS. 228.9
1300 kil	ocycles	230.6 meters		DIAL
KFAC * KFH * KFJR * KGEF * KTBR * WEVD * WHAP * WHAZ * WIOD * WOQ * XETY *	1000 4 1000 2C 500 3 1000 4 500 3 1000 1 500 1 1000 1 500 1 1000 N 1000 N	Los Angeles, Cal. Wichita, Kansas Portland, Ore. Los Angeles, Cal. Portland, Ore. Brooklyn, N. Y. New York City New York City Troy, N. Y. Miami, Fla. Kansas City, Mo. Mexico City	Los Angeles Broadcasting Co. Radio Station KFH Co. Ashley C. Dixon & Son Trinity Methodist Church M. E. Brown People's Pulpit Association Debs Memorial Radio Fund, Inc. Defenders of Truth Society, Inc. Rensselaer Polytechnic Institute Isle of Dreams Broadcasting Corp. Unity School of Christianity Juan Gutierrez, Jr.	
1310 kil	locycles	228.9 meters		
KCRJ † KFBK † KFGQ † KFJY * KFPL † KFPM * KFUP KFXJ †	100	Sacramento, Cal. Boone, Iowa Ft. Dodge, Iowa	Chas. C. Robinson Jas. McClatchy Co. Boone Biblical College C. S. Tunwall C. C. Baxter The New Furniture Co. Fitzsimmons General Hospital Western Slope Broadcasting Co.	

	INDEX	BY FREQUENCIES	AND DIAL NUMBERS
KFXR † KGBX *	100	+ Oklahoma City	
	100	St. Joseph Mo	Exchange Ave. Baptist Church KGBX, Inc.
KGCX † KGEZ † KGFW †	100	+ Wolf Point, Minn.	First State Bank of Vida
KGFW †	100	Kalispell, Mont. Ravenna, Nebr.	Ireloar Chamak Day 1
KIT †	50	Ravenna, Nebr. Yakima, Wash. Medford, Ore.	Central Nebraska Broadcasting Corp.
KMED † KRMD † KTLC *	100 50	Medford, Ore.	Carl E. Haymond Mrs. W. J. Virgin Robert M. Dean
KTLC *	100	onreveport, La.	Robert M. Dean
KTSL	100	Houston, Texas Shreveport, La	nousion broadcasting ( )
KTSM † KWCR † KXRO †	100 100	Shreveport, La. El Paso, Texas	G. A. Houseman W. S. Bledsoe & W. T. Blackwell
KXRO	100 2 100	Cedar Rapids, Iowa	Harry F. Paar KXRO, Inc.
WBEO	100	Aberdeen, Wash. Marquette, Mich.	KXRO, Inc.
WBOW * WBRE	100	lerre Haute Ind	Lake Superior Broadcasting Co. Banks of Wabash, Inc.
WCLS *	100 100 I	Wilkes-Barre, Pa.	Louis G. Baltimore WCLS, Inc.
WDAH † WEBR *	100 2	Joliet, III. El Paso, Texas	WCLS, Inc. Bledsoe & Blackwell
	100 -	El Paso, Texas  Buffalo, N. Y.  Royal Oak, Mich.	Howell Broadcasting Co., Inc.
WEXL † WFBG *	50 100 - 3	X Altoona Pa	
WFDF *	100 _	Flint, Mich.	Wm. F. Gable Co. Frank D. Fallain
WFDV † WGAL *	100 [	J. Rome, Ga.	
WGH *	100 5 100 _	Lancaster, Pa. Newport News, Va.	WGAL, Inc.
WHAT +	100 4	Philadelphia, Pa.	riampton Roads Broadcasting Corn
WJAC * WJAK * WKAV *	100 3	Johnstown, Pa.	Independence Broadcasting Co. Johnstown Automobile Co.
WKAV *	50 6 100 _	Marion, Ind.	Marion Broadcasting Co
WKBB *	100 i	Laconia, N. H. Joliet, Ill.	Laconia Radio Club Sanders Bros. Radio Station
WKBC * WKBS *	100 _		R. B. Broyles Furniture Co.
	$\begin{array}{ccc} 100 & \bar{6} \\ 50 & \bar{6} \end{array}$	Birmingham, Ala. Galesburg, Ill.	Permil N. Nelson
WMBO †	100	Muncie, Ind. Auburn, N. Y.	Donald A. Burton
	100	New Bedford Mass	Radio Service Laboratories New Bedford Broadcasting Co.
WOL * WRAW *	100 100 5	wasnington, D. C.	Anterican Droadcasting ( o
WROL +	100	X Reading, Pa. Knoxville, Tenn.	Reading Broadcasting Co.
WSAJ *	100	Grove City, Pa.	
WSAJ * WSJS * WTEL *	100 100 4	Grove City, Pa. Winston-Salem, N. C.	Winston-Salem Journal Co
WTJS †	100 4 100 +	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
			Sun Publishing Co.
1320 kil	ocycles	227.1 meters	
CMJC CMKH	15 13	321 Camaguey, Cuba	Feliciano Isaac
KGHF +	250 13 250 +	527 Santiago de Cuba	Alberto Ravelo
KGMB †	250	Honolulu, Hawaii	C. P. Ritchie & J. E. Finch
KID † KTFI	250 1	+ Idaho Falle Idaho	Honolulu Broadcasting Co., Ltd. KID Broadcasting Co.
WADC † WSMR *	250 1- 1000 C	† Twin Falls, Idaho	Radio Broadcasting Corp.
WSMB *	500 N	Akron, Ohio New Orleans, La.	Allen I. Simmons
1330 1-:1	001101		Saenger Theatre & Maison Blanche Co.
1330 kil		225.4 meters	
KGB * KSCI *	500 C 1000 1-	San Diego, Cal. +C Sioux City, Iowa	Don Lee, Inc. Perkins Bros. Co.
KSCJ * WDRC *	500 C	+C Sioux City, Iowa Hartford, Conn.	Perkins Bros. Co.
WSAI * WTAQ *	500 N	Cincinnati ()hio	WDRC, Inc. Crosley Radio Corp., Lessee
XEC	1000 1C 50 13	Eau Claire, Wis. 33 Toluca, Mexico	Gillette Rubber Co.
	_	The state of the s	Jesus R. Benavides
1340 kilo	ocycles	223.7 meters	
CMBA CMBF	50 13 7.5 13	45 Havana, Cuba	Oscar Montenegro
CMCU CMCY	50 13	45 Havana, Cuba 45 Havana, Cuba 45 Havana, Cuba	lose G. Reigada
CMCV		45 Havana Cuba	Jorge Garcia Serra M. D. Autran
CIVIC I	15 13		
KFPW †	50 D	Fort Smith, Ark.	Southwestern Hotels Co.
KFPW † KFPY *	50 D 1000 C	Fort Smith, Ark, Spokane, Wash	Symons Broadcasting Co.
KFPW † KFPY *	50 D	Spokane, Wash. Pensacola, Fla	Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola
KFPW † KFPY * WCOA * WSPD *	50 D 1000 C 500 1000 C	Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio	Symons Broadcasting Co.
KFPW † KFPY * WCOA * WSPD *  1350 kilo	50 D 1000 C 500 1000 C	Fort Smith, Ark, Spokane, Wash. Pensacola, Fla. Toledo, Ohio	Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co.
KFPW † KFPY * WCOA * WSPD *  1350 kilc KWK * WAWZ *	50 1000 C 500 1000 C Ocycles	Spokane, Wash. Pensacola, Fla. Toledo, Ohio  222.1 meters St. Louis Mo	Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co.  Greater St. Louis Broadcasting Co.
KFPW † KFPY * WCOA * WSPD *  1350 kilc KWK * WAWZ * WBNX	50 D 1000 C 5000 C 1000 C Ocycles 1000 N 250 1 250 1	Spokane, Wash. Pensacola, Fla. Toledo, Ohio  222.1 meters St. Louis Mo	Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co.  Greater St. Louis Broadcasting Corp. Pillar of Fire Standard Cahill Co., Inc.
KFPW † KFPY * WCOA * WSPD *  1350 kilc KWK * WAWZ * WBNX * WCDA * WEHC *	50 1000 C 500 1000 C Ocycles	Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio  222.1 meters St. Louis, Mo. Zarephath, N. J. New York City New York City	Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co.  Greater St. Louis Broadcasting Corp. Pillar of Fire Standard Cahill Co., Inc. Italian Educ. Broadcasting Co. Inc.
KFPW † KFPY * WCOA * WSPD *  1350 kild KWK * WAWZ * WBNX WCOA *	50 D 1000 C 500 T 000 C 0cycles 1000 N 250 1 250 1 250 1	Spokane, Wash. Pensacola, Fla. Toledo, Ohio  222.1 meters St. Louis Mo	Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co.  Greater St. Louis Broadcasting Corp. Pillar of Fire Standard Cahill Co., Inc.

				•	
1360	kile	ocycl	es	220.4 meters	
MKF		30	1363	Holguin, Cuba	Manuel J. de Gongora
CER	*	1000		Long Beach, Cal.	Consolidated Broadcasting Corp.
(GIR	+	500		Butte, Montana	KGIR, Inc.
GER GIR VCSC	† *	500		Charleston, S. C. Syracuse, N. Y. Chicago, Ill.	Lewis Burk
VFBL	*	1000	CX	Syracuse, N. Y.	Onondaga Radio Broadcasting Corp.
VGES	*	500	1+	Chicago, III.	Oak Leaves Broadcasting Station, Inc. Johnson-Kennedy Radio Corp.
VJKS VQBC	*	1000	1+	Gary, Ind. Vicksburg, Miss.	Delta Broadcasting Co., Inc.
ETO	†	500 101	D	Mexico City	Ricardo Gonzales Montero
.370	kil	ocycl	es :	218.7 meters	
MAC MGE		30 30	1375 1375	Pinar del Rio, Cuba Cardenas, Cuba	Oscar S. Mechoso Genaro Sebater
RB		2300	13/3	Tequagalpa, Hond.	Gararo occaror
CRC	Ť	100	2+	Enid. Okla.	Enid Radiophone Co.
FBL.	† *	50	3	Everett, Wash.	Leese Bros.
FJI	ţ	100		Astoria, Ore.	KFJI Broadcasters, Inc.
FJM	† † *	100		Grand Forks, N. D.	University of North Dakota Estate of H. C. Meachem
FJZ FLX	•	100 100		Ft. Worth, Texas Galveston, Texas	George Roy Clough
	*	100	+	Tucson, Arizona	Tucson Motor Service Co.
GAR GDA		100		Mitchell, S. D.	Mitchell Broadcasting Corp.
GFG	† † †	100	2	Oklahoma City	Oklahoma Broadcasting Co., Inc.
GFL	Ť	50		Raton N M	W. E. Whitmore KGKL, Inc.
KGKL	†	100	5	San Angelo, Texas	KGKL, Inc.
MAC	†	100	5	San Antonio, Texas	W. W. McAllister
ONO	† † *	100	5	San Antonio, Texas	Mission Broadcasting Co. H. H. Hanseth, Inc.
COOS CRE	•	100 100	6	Marshfield, Ore.	First Congregational Church
ÜĴ	Ť	100	U	Berkeley, Cal. Walla Walla, Wash.	KUI, Inc.
ΫĽ		100	3	Seattle, Wash. Kansas City, Mo. Glens Falls, N. Y.	KUJ, Inc. KVL, Inc.
WKC		100		Kansas City, Mo.	Wilson Duncan Broadcasting Co.
VBGF	Ť	50	7	Glens Falls, N. Y.	W. N. Parker and H. H. Metcalfe
VBTM	† *	100	7	Danville, Va.	Clarke Electric Co. Baltimore Broadcasting Corp.
VCBM VELK		100	+z c	Baltimore, Md. Philadelphia, Pa.	WELK Broadcasting Station, Inc.
VGL	*	100 100	7	Fort Wayne, Ind.	WELK Broadcasting Station, Inc. Fred Z. Zieg
VHBD	†	100		Mount Orab, Ohio	F. P. Moler
VHBQ	÷	100		Memphis, Tenn. Calumet, Mich. Jackson, Mich.	Broadcasting Station WHBO, Inc.
VHDF	Ť	100	+ 1 1 Y + 7	Calumet, Mich.	Upper Michigan Broadcasting Co.
VIBM	*	100	1	Jackson, Mich.	WIBM, Inc.
VJBK	*	50	l V	Detroit, Mich. Tifton, Ga.	James F. Hopkins, Inc. Oglethorpe University
VITL		100 100	1	Lexington, Mass.	Lexington Air Stations
VLVA	Ť	100	7	Lynchburg, Va.	Lexington Air Stations Lynchburg Broadcasting Corp.
VMBR	Ť	100		Tampa, Fla.	F. I. Revnolds
VPOE	† *	100		Patchogue, N. Y.	Nassau Broadcasting Corp.
VQDM		100	D	St. Albans, Vt.	A. J. St. Antoine C. R. Cummins
VŘAK VRAM	*	100	127	Williamsport, Pa. Wilmington, N. C.	C. R. Cummins
VRAM		100		Wilmington, N. C.	Wilmington Radio Association Hattiesburg Broadcasting Co.
VRBJ VRDO	ţ 8	10 100	CP	Hattiesburg, Miss.	WRDO, Inc.
VRJN	§	100	CF	Augusta, Maine Racine, Wis. Buffalo, N. Y.	Racine Broadcasting Corp.
VSVS	*	50		Buffalo, N. Y.	Seneca Vocational School
380	kild	ocycl	es '	217.3 meters	
OH	†	500	С	Reno, Nevada	The Bee, Inc.
QV.	† *	500	2	Pittsburgh, Pa.	KOV Broadcasting Co.
SO		500	1	Clarinda, Iowa	Iowa Broadcasting Co.
VKBH	*	1000	1	La Crosse, Wis.	WKBH, Inc. Stanley M. Krohn, Jr.
SMK		200	2	Dayton, Ohio	Stanley M. Kronn, Jr.
390	kil	ocycl	es :	215.7 meters	
LRA	*	1000	1C	Little Rock, Ark.	Arkansas Broadcasting Co.
	*	500	277	Phoenix, Arizona	Nielson Radio & Sporting Goods Co.
OY	+	1000	1	Fayetteville, Ark.	University of Arknasas Radio Air Service Corp.
LUOA		1000	С	Cleveland, Ohio	Radio Air Service Corp.
UOA VHK	*				
UOA VHK			es	214.2 meters	
400 400	kil	ocycl	es :		Heriberto Meireles
UOA VHK	kil		1405 1405	Havana, Cuba Havana, Cuba	Jose L. Ferriol
MBI MBK	kil	ocycl	1405 1405 1405	Havana, Cuba Havana, Cuba Havana, Cuba	Jose L. Ferriol Armado Romeu
MBI CMBI CMBI CMBN CMBN CMBO	kilo	30 15 30 50	1405 1405 1405 1405	Havana, Cuba Havana, Cuba Havana, Cuba	Jose L. Ferriol Armado Romeu Emilio Salas
MBI MBK	kilo	ocycl	1405 1405 1405	Havana, Cuba Havana, Cuba	Jose L. Ferriol Armado Romeu

KOCW	*	250	+	Chickasha, Okla.
WBAA	t	500	1+	Lafayette, Ind.
WBBC	*	500	2	Brooklyn, N. Y.
WCGU	*	500	2	Brooklyn, N. Y.
WCMA	†	500	1	Culver, Ind.
WFOX		500	2	Brooklyn, N. Y.
WKBF	†	500	1	Indianapolis, Ind.
WLTH	*	500	2	Brooklyn, N. Y.
XEP		2500		Laredo, Mexico

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.
La Voz Latino

#### 1410 kilocycles 212.6 meters

KFLV	†	500	4	Rockford, Ill.
KGRS	*	1000	1	Amarillo, Texas
WAAB	*	500	C	Boston, Mass.
WBCM	*	500	C	Bay City, Mich.
WDAG	*	1000	1	Amarillo, Texas
WHBL	*	500	4	Sheboygan, Wis.
WHIS	+	250		Bluefield, W. Va.
WODX	*	500	3	Mobile, Ala,
WRBX	*	250		Roanoke, Va.
WSFA	†	500	3	Montgomery, Ala.
				0 ,,

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

#### 1420 kilocycles 211.1 meters

1720	KII	ocyci	.cs	211.1 11166618
KABC	†	100		San Antonio, Texas
KBPS		100	4	Portland, Ore.
KFIZ	*	100	_	Fond du Lac, Wis.
KFOU	*	100	5	Holy City, Cal.
KFXD	*	100		Nampa, Idaho
KFXY		100		Flagstaff, Arizona
KFYO	†	100	+	Flagstaff, Arizona Abilene, Texas
KGFF	Ť	100		Shawnee, Okla.
KGGC	†	100	5	San Francisco, Cal.
KGIW	†	100		Trinidad, Colo.
KGIX	Ť	100		Las Vegas, Nevada
KGKX	t	100		Sand Point, Idaho
KGVO	†	100	D	Missoula, Montana
KICK	*	100		Red Oak, Iowa
KORE	*	100		Eugene, Ore.
KXL	*	100	4	Portland, Ore. Houston, Texas
KXYZ		100		Houston, Texas
WAGM		100	CP	Presque Ísle, Maine
WDEV		50	D	Waterbury, Vt.
₩EDH	r)k	100		Erie, Pa.
WEHS		100	2	Cicero, Ill.
WELL	†	50	X	Battle Creek, Mich.
WFDW	*	100	A	Anniston, Ala.
WHDL	*	100	D	Tupper Lake, N. Y.
WHFC		100	2	Cicero, Ill.
WIAS	†	100		Ottumwa, Iowa
WIBR	*	50		Steubenville, Ohio
WILM	*	100		Wilmington, Del.
WJBO	*	100		New Orleans, La.
WJMS	-	100	CPD	Ironwood, Mich.
WKBI	*	100	2	Cicero, Ill.
WLBF	†	100		Kansas City, Kansas
WMBC	*	100	+	Detroit, Mich.
WMBH		100	+	Joplin, Mo.
WPAD	ţ	100		Paducah, Ky.
WSPA	*	100	+	Spartanburg, S. C.
WTBO	*	100	+	Cumberland, Md.

Alamo Broadcasting Co. Benson Polytechnic Institute Reporter Printing Co. W. E. Riker Frank E. Hurt Albert H. Scherman 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 Incorporated
Red Oak Radio Corp. Eugene Broadcasting Station KXL Broadcasters, Inc. Harris County Broadcast Co. Aroostook Broadcasting Corp. Harry C. Whitehill Erie Dispatch-Herald <u>W</u>EHS, İnc. Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen Marius Johnson WKBI, Inc. 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

WNBR * 500 2 Memphis, Tenn.	KECA KGNF WBAK WCAH WFEA WGBC WHP WNBR	‡ † † * * *	1000 500 500 500 500 500 500 500	N D 1+ C CP 2S 1C+ 2	Los Angeles, Cal. North Platte, Neb Harrisburg, Pa. Columbus, Ohio Manchester, N. H. Memphis, Tenn. Harrisburg, Pa. Memphis, Tenn.
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### 1440 kilocycles 208.2 meters

		,		
KLS	*	250	D	Oakland, Cal.
WBIG	*	<b>500</b>		Greensboro, N. C.
WCBA	*	250	1	Allentown, Pa.
WHEC	*	500	2C	Rochester, N. Y.

Earle C. Anthony, Inc. Great Plains Broadcasting Co. Penna. State Police Commercial Radio Service Co. Rines Hotel Co. Memphis Broadcasting Co. WHP, Inc. Memphis Broadcasting Co.

Warner Bros. North Carolina Broadcasting Co. B. B. Musselman Hickson Electric & Radio Corp.

WMBD WOKO WSAN WTAD	* † *	500 500 250 500	3+ 2C 1 3	Peoria Heights, Ill. Albany, N. Y. Allentown, Pa. Quincy, IH.	Peoria Broadcasting Co. WOKO, Inc. Allentown Call Publishing Co., Inc. Ills. Stock Medicine Broadcasting Co.	
1450	kil	ocycle	es.	206.8 meters	6+	
CMKA KTBS WBMS WGAR WHOM WKBO WNJ WSAR WTFI	*  *  *  *  *  *  *  *  *  *  *  *  *	20 1000 250 500 500 250 250 250 250	1 N 1 1 1	Santiago de Cuba Shreveport, La. Hackensack, N. J. Cleveland, Ohio Jersey City, N. J. Jersey City, N. J. Newark, N. J. Fall River, Mass. Toccoa, Ga.	Arturio C. de Ribas Tri-State Broadcasting System, Inc. WBMS Broadcasting Corp. WGAR Broadcasting Co. New Jersey Broadcasting Corp. Camith Corp. Radio Investment Co. Doughty & Welch Electric Co., Inc. Toccoa Falls Broadcasting Co.	
1460	kil	ocycle	es	205.4 meters	64	
KSTP WJSV	*	10000 10000	N	St. Paul, Minn. Alexandria, Va.	National Battery Broadcasting Co. Independent Publishing Co.	
1470	kil	ocycle	es	204.0 meters		
KGA WLAC	† *	5000 5000	C	Spokane, Wash. Nashville, Tenn.	Northwest Broadcasting System, Inc. Life & Casualty Insurance Co.	
1480	kil	ocycl	es	202.6 meters	5-2	
KFJF WKBW	*	5000 5000	C	Oklahoma City Buffalo, N. Y.	National Radio Mfg. Co. Buffalo Broadcasting Co., Lessees	
1490	kil	ocycl	es	201.2 meters		
TJW WCHI WCKY WJAZ	*	7.5 5000 5000 5000	1 1N 1	Hamilton, Bermuda Chicago, Ill. Covington, Ky. Chicago, Ill.	People's Pulpit Association L. B. Wilson, Inc. Zenith Radio Corp.	
1500	kil	ocycl	es	199.9 meters		
CMBL CMBR CMCM CMCT KDB KGFI KGFI KGFI KGFY KPJM KPQ KREG KUT WDIX WKBV WKBZ WLBX WLBX WLOE WMBQ WMIL WMPON WNDIN WYPI WYPI WYPI WYPI WYPI WYPI WYSW	** † † ** † † ** † * * * † * * * † * * * † * * * * † * * * † * * * † * * * † * * * † * * * * † * * * † * * * † * * * * † * * * † * * *	15 15 15 5 100 100 100 100 100 100 100 1	+ + 1 + 1 1	Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Santa Barbara, Cal. Corpus Christi, Texas Moorhead, Minn. Grant City, Mo. Tyler, Texas Scottsbluff, Nebr. Prescott, Arizona Wenatchee, Wash. Santa Ana, Cal. Austin, Texas El Centro, Cal. Tupelo, Miss. Connersville, Ind. Ludington, Mich. Long Island City, N. Y Boston, Mass. Newport, R. I. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Broschyn, N. Y. Bristol, Tenn. Philadelphia, Pa. Augusta, Ga. Rutland, Vt. Woodside, N. Y. Pittsburgh, Pa.	Julio C. Hidalgo Tomas Basail Martinez y Madico Alberto Fernandez Santa Barbara Broadcasters, Ltd. Eagle Broadcasting Co., Inc. Red River Broadcasting Co., Inc. Grant City Park Corp. Eagle Publishing Co. Hilliard Co., Inc. A. P. Miller Wescoast Broadcasting Co. Pacific Western Broadcasting Driskill Hotel E. R. Irey and F. M. Bowles North Mississippi Broadcasting Corp. Knox Battery & Electric Co. K. L. Ashbacker John N. Brahy Boston Broadcasting Co. LeRoy Joseph Beebe Paul J. Gollhofer Arthur Faske First M. P. Church Howitt, Wood Radio Co., Inc. Radiophone Brdestg. Station, Inc. Wm. Penn Broadcasting Co. Long Island Broadcasting Corp. William S. Walker	ксуs. 1500 мтгs. 199.9 DIAL

ALABAMA	Watts		V.	San Jose J-1	500	KOW	1010
		WEDW	Kcys.	Santa Ana M-3	100		1500
Anniston O-22 Birmingham O-21	100 5000	WFDW WAPI	1420	Santa Barbara M-2	100	KDB	1500
Birmingham 0-21	500	WBRC	1140 930	Santa Maria L-2	100	KSMR	1200
	100	WKBC	1310	Stockton J-2	250		1100
Gadsden O-21	100	WJBY	1210		100	KWG	1200
Huntsville N-21	50	WBHS	1200	COLORADO			
Mobile Q-20	500	WODX	1410	II			
Montgomery P-21	500	WSFA	1410	Colorado Springs K-1    Denvcr K-11			1270
				Denver K-11	500 100		920 1310
ALASKA			)		500	KEXE	920
Anchorage	100	KFQD	1230		1000		560
Ketchikan	500	KGBU	900	[]	12500	KOA	830
	000	RODO	300	Famt Manner I 11	500	KPOF	880
				Fort Morgan J-11 Grand Junction K-9	100	KGEW KFXJ	1200
ARIZONA				Greelev I-11	100 500	KFKA	1310 880
Flagstaff M-7	100	KFXY	1420	Greeley J-11 Pueblo L-11	250	KGHF	1320
Jerome M-6	100	KCRJ KOY	1310	Trinidad L-11	100	KGIW	1420
Phoenix N-6	500	KOY	1390	Yuma J-12	100	KGEK	1200
Davis and M. C	500	KTAR	620	l			
Prescott M-6 Tucson O-7	100 100	KPJM	1500 1370	CONNECTICUT	•		
Tueson O=7	500	KGAR KVOA	1260	Bridgeport H-27	250	WICC	600
	300	KIOA	1200	Hartford H-27	500	WDRC	1330
4 D T 4 N G 4 G					50000		660-1060
ARKANSAS			i i	Storrs H-28	250	WCAC	<b>60</b> 0
Blytheville M-19	50	KLCN	1290	DEL ARVADE			
Fayetteville M-16	1000	KUOA	1390	DELAWARE			
Fort Smith N-16	50	KFPW	1340	Wilmington J-26	250	WDEL	1120
Hot Springs N-17 Little Rock N-17	10000 100	KTHS KGHI	1040 1200		100	WILM	1420
Eittle Rock 14-17	250	KGIF	890	DISTRICT OF	COLT	A 4TO T 4	
	1000	KGJF KLRA	1390	DISTRICT OF			
Paragould M-18	100	KBTM	1200	Washington J-26	250	WMAL	630
					500	WRC	950
CALIFORNIA			1		100	WOL	1310
	100	UDE	1270	FLORIDA			
Berkeley J-2 Burbank M-3	100 500	KRE KELW	1370   780		1000	WEL 4	(30
Culver City M-3	250	KFVD	1000	Clearwater R-24 Gainesville Q-24	1000 5000	WFLA WRUF	620
El Centro N-4	100	KXO	1500	Jacksonville Q-24	1000	WILL	830 900
Fresno K-2	100	KMJ	1210	Miami T-25	1000	WJAX WIOD	1300
Hollywood M-3	1000	KFWB	950		1000	W QAM	560
Holy City K-1	<b>5000</b> 100	KNX KFQU	1050 1420	Orlando R-24	500	WDBO	1120
Inglewood M-3	500	KMCS	1120	Pensacola Q-21	500 1000	WCOA	1340
Long Beach M-3	1000	KFOX	1250	St. Petersburg S-24 Tampa R-24	1000	WSUN WDAE	620 1220
_	1000	KGER	1360	Tampa N-24	100	WMBR	1370
Los Angeles M-3	1000	KECA	1430		200		2070
	1000	KFAC KFI	1300	GEORGIA			
	50000 500	KFSG	640 1120	Atlanta O-22	250	WGST	890
	1000	KGEF	1300		5000	WSB	740
	100	KGFJ	1200	Augusta O-23	100	WRDW	1500
	100	KHJ	900	Columbus O-22	50	WRBL	1200
	500	KMPC	710	Macon O-23	500	WMAZ	1180
	500 500	KMTR KTM	570 780	Rome N-22 Savannah O-24	100 500	WFDV WTOC	1310 1260
Oakland J-1	250	KLS	1440	Thomasville Q-22	100	WQDX	1210
	500	KLX	880	Tifton P-23	100	WJTL	1370
	500	KROW	930	Toccoa N-23	500	WTFI	1450
Pasadena M-3	50	KPPC	1210	*******			-
Sacramento J-2	100	KFBK	1310	HAWAII			
San Bernardino M-3	100	KFXM	1210	Honolulu	250	<b>KGMB</b>	1320
San Diego N-3	500 500	KFSD KGB	1330		1000	KGU	940
San Francisco J-1		KFRC	610	TTD			
	500	KFWI	930	IDAHO			
	100	KGGC	1420	Boise G-5	1000	KIDO	1250
	7500	KGO KJBS	<b>79</b> 0	Idaho Falls G-7	250	KID	1320
	100	KJBS	1070	Nampa G-5	50	KFXD	1420
		KPO KTAB	680	Pocatello H-7	250	KSEI	900
		K I AB KYA	560 1230	Sand Point D-6	100	KGKX	1420
	1000	IV I M	1230	Twin Falls H-6	250	KTFI	1320

ILLNOIS	Watts		Kcys.	Shenandoah J-16	500	KFNF	890
Carthage J-18	50	WCAZ	1070	Sioux City I-15	500 1000	KMA KSCJ	930 1330
Chicago I-20	10000 10000	KFKX K YW	1020   1020	Waterloo I-17	500	WMT	600
	500	KYW WAAF	920	KANSAS			
	25000 1500	WBBM WCFL	770 970	Dodge City L-13	100	KGNO	1210
	5000	WCHI	1490	Kansas City K-16	100	WLBF	1420
	100 100	WCRW WEDC	1210 1210	Lawrence K-16	500	KFKU	1220
	50000	WENR	870	Manhattan K-15	1000 500	WREN KSAC	1220 580
	500	WGES	1360	Milford K-14	5000	KFBI	1050
	25000 1000	WGN WIBO	720 560	Topeka K-16 Wichlta L-15	1000 1000	WIBW KFH	580 1300
	5000	WJAZ WJBT	1490	1	2000		1000
	25000 50000	WLS	770   870	KENTUCKY			
	5000	WMAQ	670	Covington K-22 Hopkinsville M-20	5000 1000	WCKY WFIW	1490 940
	5000 500	WMBI WPCC	1080 560	Louisville L-21	10000	WHAS	820
	100	WSBC	1210	Dadasak M 10	250	WLAP	1010
Cicero I-20	100 100	WEHS WHFC	1420 1420	Paducah M-19	100	WPAD	1420
	100	WKBI	1420	LOUISIANA			
Decatur K-19	100 100	WJBL WKBS	1200 1310	Monroe P-18	100	KMLB	1200
Galesburg J-18 Harrisburg L-19	100	WEBQ	1210	New Orleans R-19	100 1000	WABZ WDSU	1200 1250
Joliet I-19	100	WCLS WKBB	1310 1310	1	100	WJBO	1420
La Salle J-19	100 100	WIBC	1200		100 500	WJBO WJBW WSMB	1200 1320
Mooseheart I-19	20000	WJBC WJJD WMBD	1130		5000	WWL	850
Peoria Heights J-19 Quincy K-18	500 500	WTAD	1440 1440	Shreveport P-17	50 1000	KRMD	1310 1450
Rockford I-19	500	KFLV	1410		100	KTBS KTSL	1310
Rock Island I-18 Springfield K-19	100 100	WHBF WCBS	1210   1210		100	KWEA	1210
	100	WTAX	1210	ı	10000	KWKH	850
Tuscola K-20 Urbana J-20	100 250	WDZ WILL	1070 890	MAINE			
Zion I-20	5000	WCBD	1080	Augusta F-28	100	WRDO	1370
				Bangor F-29	100 500	WABI WLBZ	1200 620
INDIANA				Portland F-28	1000	WCSH	940
Anderson J-21	100	WHBU	1210	Presque Isle D-29	100	WAGM	1420
Connersville K-21 Culver I-20	100 500	WKBV WCMA	1500 1400	MARYLAND			
Evansville L-20	500	WGBF	630	Baltimore J-26	10000	WBAL 7	
Fort Wayne J-21	100 10000	WGL WOWO	1370 1160	1	250 100	WCAO WCBM	600 1370
Gary I-20	1000	WIKS	1360		500	WFBR	1270
Hammond I-20 Indianapolis J-21	100 1000	WWAE WFBM	1200 1230	Cumberland J-25	100	WTBO	1420
Titolaria polis j-21	500	WKBF	1400	MASSACHUSE	TTS		
Lafayette J-20 Marion J-21	500 50	WBAA	1400 1310	Boston G-28	500	WAAB	1410
Muncie J-21 South Bend I-20	50	WJAK WLBC	1310	j	1000	WBIS WEEI	1230
South Bend I-20	100 500	WFAM WSBT	1200 1230	1	1000 1000	WHDH	590 830
Terre Haute K-20	100	WBOW	1310		100	WLOE	1500
				Fall River H-28	1000 250	WNAC WSAR	1230 1450
IOWA					100	WLEY	1370
Ames I-17	5000	WOI	640	Needham G-28 New Bedford H-28	500 100	WBSO WNBH	920 1310
Boone I-17 Cedar Rapids I-18	100 100	KFGQ	1310 1310	Springfield H-27	15000	WBZ-A	990
Clarinda J-16	500	KFGQ KWCR KSO	1380	Worcester G-28	100 100	WEPS WORC	1200 1200
Council Bluffs J-16 Davenport I-18	1000 5000	KOIL WOC	1260 1000		250	WTAG	580
Decorah H-18	50	KGCA	1270	MICHIGAN			
Des Moines I-17	100 5000	KWLC WHO	1270 1000	_	50	WEIT	1420
Fort Dodge I-16	100	KFJY WSUI	1310	Battle Creek I-21 Bay City H-22	500	WELL WBCM	1410
Iowa City I-18	500	WSUI	880	Bay City H-22 Calumet E-19	100	WHDF	1370
Marshalltown I-17 Ottumwa J-17	100 100	KFJB WIAS	1200 1420	Detroit H-22	50 5000	WJBK WJR	1370 750
Red Oak J-16	100	KICK	1420		100	WMBC	1420
				l		- X	

							<del></del>
Detroit H-22	1000	wwj	920	NEVADA	Watts		Kcys.
East Lansing H-21	1000 1000	WX YZ WKAR	1240 1040	Las Vegas L-5	100	KGIX	1420
Flint H-22	100	WFDF	1310	Reno I-3	500	KOH	1380
Grand Rapids H-21	500	WASH	1270	NEW HAMDEH	TDE		
Ironwood F-18	500 100	WOOD WJMS	1270 1420	NEW HAMPSH			
Jackson I-21	100	WIBM	1370	Laconia G-28 Manchester G-28	100 500	WKAV WFEA	1310 1430
Kalamazoo I-21 Lapeer H-22	1000	WKZO WMPC	590 1500	Wallenestel G-28	300	WILDA	1430
Ludington H-20	100 50	WKBZ	1500	NEW JERSEY			
Marquette F-19	100	WBEO	1310	Asbury Park I-27	500	WCAP	1280
Royal Oak H-22	50	WEXL	1310	Atlantic City J-27	5000	WPG	1100
MINNESOTA				Camden I-26 Hackensack I-27	500 250	WCAM WBMS	1280 1450
Fergus Falls F-15	100	KGDE	1200	Jersey City I-27	300	WAAT	940
Minneapolis G-17	5000	wcco	810		500	WHOM	1450
	1000	WDGY	1180	Newark I-27	250 1000	WKBO WAAM	1450 1250
	500 1000	WHDI WRHM	1180 1250	1	250	WGCP	1250
Moorhead F-15	50	KGFK	1500	1	250	WNJ WOR	1450
Northfield G-17	1000 1000	KFMX WCAL	1250	Paterson I-27	5000 1000	WODA	710 1250
St. Paul G-17	1000	WLB	1250 1250	Red Bank I-27	100	WJBI WOAX	1210
	10000	KSTP	1460	Trenton I-26	500	WOAX	1280
MICCICCIDDI				Zarephath I-27	250	WAWZ	1350
MISSISSIPPI Greenville O-18	100	WDBO	1210	NEW MEXICO			
Gulfport Q-19	100	WRBQ WGCM	1210 1210	Albuquerque N-7	250	KGGM	1230
Hattiesburg Q-19	10	WRBJ	1370	Raton M-11	50	KGFL	1370
Jackson P-19	1000	WJDX WCOC	1270	State College P-9	20000	KOB	1180
Meridian P-20 Tupelo N-20	500 100	WDIX	880 1500	NEW YORK			
Vicksburg P-18	500	WQBC	1360	Albany H-27	500	woko	1440
MICCOLIDI			- 1	Auburn H-25	100	WMBO	1310
MISSOURI	100	ZEVe	1210	Binghamton H-26	100	WNBF	1500
Cp. Girardeau L-19 Columbia K-17	100 500	KFVS KFRU	1210 630	Brooklyn I-27	500 1000	WBBC WBBR	1400 1300
Grant City J-16 Jefferson City L-17	100	KGIZ WOS	1500	i	500	WCGU	1400
Jefferson City L-17 Joplin M-16	500 100	WOS WMBH	630 1420		500	WFOX WLTH	1400
Kansas City K-16	1000	KMBC	950	ļ.	500 100	WMBQ	1400 1500
·	100	KWKC	1370		100	WMIL	1500
	1000 500	WDAF WHB	610 860	Buffalo H-24	1000 100	WBEN WEBR	900
	1000	woo	1300		1000	WEBR	1310 550
St. Joseph K-16	2500	KFEQ	680		5000	WKBW	1480
St. Louis L-18	100 500	KGBX KFUO	1310 550		1000 50	WMAK WSVS	1040 1370
oti bodio b-10	100	KFWF	1200	Canton F-26	500	WCAD	1220
	50000	KMOX	1090	Freeport I-27	100	WGBB	1210
	500 1000	KSD KWK	550 1350	Glens Falls G-27   Ithaca H-25	50 1000	WBGF WEAI	1370 1270
	1000	WEW	760	Turaca 11-25	50	WLCI	1210
	100	WIL	1200	Jamaica H-27	100	WMRJ	1210
MONTANA				Jamestown H-24	25 100	WOCL WLBX	1210 1500
Billings F-9	1000	KGHL	950	Long Island City I-27 New York City I-27	5000	WABC	860
Butte F-7 Great Falls E-8	500 1000	KGIR KFBB	1360 1280		250	WBNX	1350
Kalispell D-7	100	KGEZ	1310		5000 250	WBOQ WCDA	860 1350
Missoula E-7	100	KGVO	1420		50000	WEAF	660
Wolf Point E-11	100	KGCX	1310		500	WEVD	1300
NEBRASKA					500 1000	WGBS WHAP	1180 1300
Clay Center J-14	1000	KMMJ	740		250	WHN	1010
Lincoln J-15	5000	KFAB	770		30000	WJZ WLWL	760
	100 500	KFOR WCAI	1210 590		5000 500	WMCA	1100 570
Norfolk I-15	1000	WJAĞ	1060	Y.	250	WMSG	1350
North Platte J-13	500	KĞNF	1430		500	WNYC	570
Omaha J-15	500 1000	WAAW WOW	660 590		1000 250	WOV WPAP	1130 1010
		KGFW	1310		500	WPCH	810
Ravenna J-14	100	KOT. II			500		
Ravenna J-14 Scottsbluff I-11 York J-15	100 100 500	KGKY KGBZ	1500 930		250 250	WQAO WRNY	1010 1010

1310 1180 1420 1300 620 940 1300 1420 1440 1310 1200 1310 1420 1310 1430 1200 1210 1210 1210 1210 1200 1310 131
1420 1300 620 940 1300 1060 1420 1440 1440 1310 1200 1310 1310 1200 1210 1310 131
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1210 780
800
890
890 1210
890
890 1210 1360
890 1210

SOUTH DAKO	TA Watts	Kcys.	VIRGINIA		
Brookings H-15	500 KFDY	550	Alexandria K-26	Watts	Kcys.
Huron H-14	100 KGDY	1200	Arlington J-25	10000 WJSV 1000 NAA	1460 690
Mitchell H-14 Pierre G-13	100 KGDA 200 KGFX	1370	Danville L-25	100 WBTM	1370
Pierre G-13 Rapid City H-12	100 WCAT	580 1200	Emory L-23 Lynchburg L-25	500 WEHC 100 WLVA	1350
Stoux Falls H-15	2500 KSOO	1110	Newport News L-26	100 WLVA 100 WGH	1370 1310
Vermillion I-15 Watertown G-15	500 KUSD 100 KGCR	890 1210	Norfolk L-26	500 WPOR	780
Yankton I-15	1000 WNAX	570	Petersburg L-26	500 WTAR 100 WLBG	780 1200
TEN IN IDECES			Richmond K-26	100 WBBL	1210
TENNESSEE			ļļ.	100 WMBG 5000 WRVA	1210
Bristol L-23	100 WOPI	1500	Roanoke L-24	5000 WRVA 250 WDBJ	1110 930
Chattanooga N-21 Jackson N-20	1000 WDOD 100 WTJS	1280 1310	WASHINGTON	250 WRBX	1410
Knoxsville M-22	50 WFBC	1200	WASHINGTON		
	1000 WNOX 100 WROL	560 1310	Aberdeen D-2 Bellingham C-3	100 KXRO 100 KVOS	1310
Memphis N-19	500 WGBC	1430	Everett C-3	50 KFBL	1200 1370
	100 WHBO	1370	Lacey D-3 Pullman E-5	10 KGY	1200
	500 WMC 500 WNBR	780 1430	Seattle C-3	1000 KWSC 5000 KJR	1220
Nashville M-21	500 WREC	600	ll:	1000 KOL	970 1270
Nashville M-21	5000 WLAC 5000 WSM	1470 650		1000 KOMO 100 KPCB	920 650
Springfield M-20	100 WSIX	1210		50 KRSC	1120
TOTAL C			11	1000 KTW	1220
TEXAS			i i	100 KVL 500 KXA	1370 570
Abilene P-13 Amarillo N-12	100 KFYO 1000 KGRS	1420	Spokane D-5	100 KFIO	1120
Amarmo N-12	1000 KGRS 1000 WDAG	1420 1410	H	1000 KFPY 5000 KGA	1340 1470
Austin Q-14	100 KUT	1500	T 5.	1000 KHQ	590
Beaumont R-17 Brownsville U-15	500 KFDM 500 KWWG	560 1260	Tacoma D-3	500 KMÒ 1000 KVI	860 760
College Sta. Q-15	500 WTAW	1120	Walla Walla E-5	100 KUJ	1370
Corpus Christi S-14 Dallas P-15	100 KGFI 10000 KRLD	1500	Wenatchee D-4 Yakima D-4	50 KPQ	1500
241.451 10	50000 WFAA	1040 800	I	50 KIT	1310
Dublin P-14	500 WRR 100 KFPL	1280	WEST VIRGINI	- <del>-</del>	
El Paso P-9	100 KFPL 100 KTSM	1310 1310	Bluefield L-24 Charleston K-23	250 WHIS 250 WOBU	1410
Fort Worth P-15	100 WDAH	1310	Fairmount J-24	250 WOBU 250 WMMN	580 890
Port Worth F-15	100 KFJZ 1000 KTAT	1370 1240	Huntington K-23	250 WSAZ	580
City is Disc	10000 WBAP	800	Wheeling J-24	5000 WWVA	1160
Galveston R-16	100 KFLX 500 KFUL	1370 1290	WISCONSIN		
Greenville O-15	15 KFPM	1310	Eau Claire G-18   Fond du Lac H-19	1000 WTAQ 100 KFIZ	1330
Harlingen T-14 Houston R-16	500 KRGV 1000 KPRC	1260 920	Green Bay G-19	100 KFIZ 100 WHBY	1420 1200
	100 KTLC	1310	Janesville I-19	100 WCLO	1200
	500 KTRH	1120	La Crosse H-18 Madison H-19	1000 WKBH 750 WHA	1380 940
San Angelo Q-13	100 KXYZ 100 KGKL	1420 1370		500 WIBA	1280
San Antonio R-14	100 KABC	1420	Manitowoc H-20 Milwaukee H-19	100 WOMT 250 WHAD	1210
	100 KMAC 100 KONO	1370 1370	Manual II-19	250 WISN	1120 1120
	1000 KTSA	1290	Poynette H-19	1000 WTMJ	620
Tyler P-16	50000 WOAI 100 KGKB	1190	Racine I-20	100 WIB <b>Ú</b> 100 WRJN	1210 1370
Waco Q-15	1000 WACO	1500 1240	Sheboygan H-20	500 WHBL	1410
Wichita Falls O-14	250 KGKO	570	Stevens Pt. G-19 Superior F-17	2000 WLBL 1000 WEBC	900 1290
UTAH			WYOMING	1000 WEBC	1290
Ogden I-7	500 KLO	1400	Casper H-10	100 KDFN	1210
Salt Lake City I-7	1000 KDYL	1290	_		1210
VERMONT	5000 KSL	1130		IADA	
Burlington F-27	100 WCAX	1200	ALBERTA		
Rutland G-27	100 WSYB	1200 1500	Calgary B-7	500 CFAC 10000 CFCN	690 985
St. Albans F-27 Springfield G-27	100 WQDM	1370		500 CHCA	985 690
Waterbury F-27	10 WNBX 50 WDEV	1200 1420		500 CJCJ 500 CNRC	690
				JUU CINKC	690

Edmonton A-8	250	СНМА	580	QUEBEC	Watt		Kcys.
	500 500	CJCA CKUA	930 580	Montreal E-26	1650	CFCF	1030
Lethbridge C-8	100	CJOC CHCT	1120		5000	CHYC	730 730 730
Red Deer A-8	1000 1000	CHCT	840 840		5000 5000	CKAC CNRM	730 730
	1000	CNRD	840	Quebec D-27	100	CHRC	645
DD IMIOU					100 50	CKCI CKCV	645 880
BRITISH COLU		_			50	CNRQ	880
Chilliwack B-3 Kamloops B-5	100 100	CHWK	665 1120	SASKATCHEWA	N		
Sea Island	500	CFJC CJOR CHLS	1210	Fleming C-13	500	CJRW	665
Vancouver B-3	50 50	CHILS	730 730	Moose Jaw C-11	500	CJRM CHWC	665
	50	CKFC	730 730	Regina C-12	500 500	CHWC	960 960
	50 100	CKMO	730		500	CJBR CKCK	960
	500	CKWX CNRV	730 1030	Saskatoon B-11	500 500	CNRR CFQC	960 910
Victoria C-3	50	CFCT	630	~	500	CNRS	910
MANITOBA				Yorkton B-13	500	CJGX	630
Brandon D-14	500	CKX CKY	540	CENTRAL	AM	ERICA	
Winnipeg D-15	5000 5000	CNRW	780 780	COSTA RICA			
		G1 12 1 1 1	, , , ,	Heredia FF-23	75	NRH	948
NEW BRUNSW				San Jose FF-23	50	TIC	900
Fredericton D-29 Moncton D-30	500 500	CFNB CNRA	1210 630	GUATAMALA			
St. John D-30	500	CFBO	890	Guatamala CC-19	50	TGW	570
NEWFOLINDI A	N III		1				
NEWFOUNDLA				HONDURAS	2200	LIDA	1250
St. Johns A-35	500	VOWR	675	Tegucigalpa CC-21	2300	HRB	1370
NOVA SCOTIA				SALVADOR			
Glace Bay C-32	10000	VAS	685	Salvador CC-19	500	RUS	664
Halifax E-31	500 500	CHNS CNRH	910 910	NATES:	T00		
Sydney C-32	50	CICB	880	MEX MEX	ilcc	,	
Wolfville D-31	50	CKIC	1010	AGUASCALIENT	ES		
ONTARIO			4	Aguascalientes W-10	350	XFC	805
Chatham H-22	100	CFCO	1210	CHIHUAHUA			
Cobalt E-23	100	CKMC CHCS	1210	Chihuahua, Chih. R-9	250	XFF	915
Hamilton H-24	500 50	CHCS	1010 880				
V	500	CKOC	1010	COAHUILA			
Kingston G-25 London H-23	50 5000	CFRC	930 910	Juarez P-9	101 1000	XEJ XEQ	857 1015
	500	CJGC CNRL	910	Saltillo, Coah. U-12	10	XEL	1091
North Bay Ottawa F-25	50 100	CFCH CKCO	930 890	D. F.			
	500	CNRO	600	Mexico City Y-13	1000	XEB	1030
Port Arthur E-19 Prescott F-25	50 50	CKPR CFLC	890 930	Wexico City 1-13	250	XEFA	1250
Preston H-23	50	CKPC	1210		101	XEK	990
Toronto G-24	500 500	CFCA CFCL	840 580		1000 5000	XEN XEO	711 940
	5000	CFRB	960		101	XER	674
	500 5000	CKCL CKGW	580 690		500 100	XETA XETO	1140 1360
	500	CKNC	580		2000	XETY	1300
	500	CNRT	840		500 5000	XEX XEW	1210 910
	5000 5000	CNRX CPRY	960 690		500	XEZ	588
Waterloo G-23	50	CKCR	645		2000 1000	XFG XFI	638 818
DDINGE EDWA	DDC 1	CY AND		Toluna V 12	500	XFX	860
PRINCE EDWA Charlottestown C-31	KDS 1 250		580	Toluca. Y-12	50	XEC	1333
Print Torregrown C-91		CFCY CHCK	1010	JALISCO			
Summerside C-31	100 100	CHGS	1120	Guadalajara, Jal. X-10	101	XEA	1200

CFAC 690	11	CJRW 665	TI II	CMBS 790		CMKD 1100	
	- 11	Fleming, Sask.	- 11	Havana, Cuba		Santiago, Cuba	
Calgary, Alta.		Clind 720		CMBT 1070		CMKE 1249	
CFBO 890	11	CKAC 730	- 11	UNIBI 1070		Contingo Cubo	
St. John, N. B.		Montreal, Que.		Havana, Cuba		Santiago, Cuba	
CFCA 840	-	CKCD 730		CMBW 1010	- 1	CMKF 1363	
Toronto, Ont.	- 11	Vancouver, B. C.	- 11	Havana, Cuba		Holguin, Cuba	
CFCF 1030		CKCI 645		CMBX 1405		CMKG 1176	
Montreal, Que.	- 11	Quebec, Que.	- 11	Havana, Cuba		Santiago, Cuba	
		CKCK 960	1	CMBY 1405		CMKH 1327	
CFCH 930	- 11		- 1	Havana, Cuba		Santiago, Cuba	
North Bay, Ont.		Regina, Sask.				CMQ 1150	
CFGL 580	i i	CKCL 580	1	CMBZ 1010		CMQ 1150	
Toronto, Ont.		Toronto, Ont.		Havana, Cuba		Havana, Cuba	
CFCN 985	- 11	CKCO 890		CMC 840		CMW 588	
Calgary, Alta.	- 11	Ottawa, Ont.		Havana, Cuba		Havana, Cuba	
CFCO 1210		CKCR 645		CMCA 1225		CMX 890	
Chatham, Ont.	H	Waterloo, Ont.		Havana, Cuba	- 1	Havana, Cuba	
		CKCV 880		CMCB 1070		CNRA 630	
CFCT 630	II.		- 1	Havana, Cuba	- 1	Moneton, N. B.	
Victoria, B. C.		Quebec, Que.		CMCD 1005		CNRC 690	
CFCY 580	- 11	CKFC 730	i i	CMCD 1225			
Ch'lottet'n,P.E.I.		Vancouver, B. C.		Havana, Cuba		Calgary, Alta.	
CFJC 1120		CKGW 690		CMCF 890		CNRD 840	
Kamloops, B. C.	ll ll	Toronto, Ont.		Havana, Cuba		Red Deer, Alta.	
CFLC 930		CKIC 1010		CMCG 1285		CNRH 910	
	li li	Wolfville, N. S.	- 1	Havana, Cuba		Halifax, N. S.	
Prescott, Ont.		CKLC 840		CMCH 1285		CNRL 910	
CFNB 1210	1			Havana, Cuba	1	London, Ont.	
Fredericton, N.B.		Red Deer, Alta.		CMCM 1700		CNRM 730	
CFQC 910		CKMC 1210		CMCM 1500			
Saskatoon, Sask.		Cobalt, Int.		Havana, Cuba		Montreal, Que.	
CFRB 960	II	CKMÓ 730		CMCN 1225		CNRO 600	
Toronto, Ont.		Vancouver, B. C.		Havana, Cuba		Ottawa, Ont.	
CFRC 930		CKNC 580		CMCO 660		CNRQ 880	
Kingston, Ont.	ll ll	Toronto, Ont.		Havana, Cuba		Quebec, Que.	
CHCA 690		CKOC 1010		CMCQ 1150		CNRR 960	
Calgary, Alta.	- 11	Hamilton, Ont.	- 1	Havana, Cuba		Regina, Sask.	
CHCK 1010		CKPC 1210		CMCR 1285		CNRS 910	
	- 11	Preston, Ont.	- 1	Havana, Cuba	_	Saskatoon, Sask.	
Ch'lottet'n, P.E.I.	!	CKPR 890		CMCT 1500		CNRT 840	
CHCS 1010	- 11			Howara Coho	- 1	Toronto, Ont.	
Hamilton, Ont.		Port Arthur, Ont.		Havana, Cuba		CNRV 1030	
CHCT 840	11	CKUA 580		CMCU 1345			
Red Deer, Alta.		Edmonton, Alta.		Havana, Cuba		Vancouver, B. C.	
CHGS 1120	11	CKWX 730		CMCY 1345		CNRW 780	
Sum'rside, P.E.I.		Vancouver, B. C.		Havana, Cuba		Winnipeg, Man.	
CHLS 730		CKX 540	1	CMGA 834	- 1	CNRX 960	
Vancouver, B.C.	- 11	Brandon, Man.		Colon, Cuba		Toronto, Ont.	
CHMA 580		CKY 780		CMGB 1185		CPRY 690	
Edmonton, Alta.	- 11	Winnipeg, Man		Matanzas, Cuba		Toronto, Ont.	
CHML 880		CMAB 1249		CMGD 1140		HHK 920	
	- 11	Pinar del Rio, Cu		Matanzas, Cuba		Port au Prince, H.	
Hamilton, Ont.		CMAC 1375		CMGE 1375		HIX 669	
CHNS 910	- 11	Pinar del Rio, Cu		Cardenas, Cuba	1	Santo Domingo	
Halifax, N. S.		Pinar dei Rio, Cu		Cardenas, Cuba		HRB 1370	
CHRC 645	- 11	CMBA 1345		CMGF 977			
Quebec, Que.		Havana, Cuba		Matanzas, Cuba		Tequeigalpa	
CHWC 960		CMBC 965		CMGH 780		KABC 1420	
Regina, Sask.	li	Havana, Cuba		Matanzas, Cuba		San Antonio, Tex.	
CHWK 665	11	CMBD 965		CMHA 1154		KBPS 1420	
Chilliwack, B. C.		Havana, Cuha		Cienfuegos, Cuba		Portland, Ore.	
CHYC 730	i i	CMBF 1345		CMHC 790		KBTM 1200	
Montreal, Que.		Havana, Cuba		Tuinucu, Cuba		Paragould, Ark.	
CJBR 960		CMBG 1070		CMHI 1110		KCRC 1370	
Regina, Sask.		Havana, Cuba		Santa Clara, Cu		Enid, Okla.	
CJCA 930		CMBI 1405		CMHJ 645		KCRJ 1310	
		Havana, Cuba		Cienfuegos, Cuba		Jerome, Ariz.	
Edmonton, Alta. CJCB 880		CMBJ 1285		CM JB 1276		KDB 1500	
	- 11	Havana, Cuba		Ciego de Avila		S. Barbara, Cal.	
Sydney, N. S.		CMBK 1405		CMJC 1321		KDFN 1210	
CJCJ 690	- 11						
Calgary, Alta.		Havana, Cuba		Camaguey, Cuba		Casper, Wyo.	
CJGC 910	1	CMBL 1500					
London, Ont.		Havana, Cuba		Camaguey, Cuba		Pittsburgh, Pa.	
CJGX 630	-	CMBM 1285		CMK 730		KDLR 1210	
Yorkton, Sask.		Havana, Cuba		Havana, Cuba		Devils Lake, N.D.	
CJOC 1120		CMBN 1405		CMKA 1450		KDYL 1290	
Lethbridge, Alta.	1	Havana, Cuba		Santiago, Cuba		Salt Lake City	
CJOR 1210		I CMBQ 1405		CMKB 1200		KECA 1430	
Sea Island, B. C.		Havana, Cuba		Santiago, Cuba		Los Angeles, Cal.	
CJRM 665		CMBR 1500	1	CMKC 1034		KELW 780	
Moose Jaw, Sask.		Havana, Cuba		Santiago, Cuba		Burbank, Cal.	
moose daw, bask.				1		KEX 1180	
				1		Portland, Ore.	
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KIAD					
KFAB 770	KFSD 600	l II	KGFG 1370	KIT	1310
Lincoln, Nebr.	San Diego, Cal.		Oklahoma City	Yakima KJBS	1, Wash.
KFAC 1300	KFSG 1120 Los Angeles, Cal.		KGFI 1500 Corp's Ch'sti, Tex	San F'r	cisco, Cal.
Los Angeles, Cal. KFBB 1280	KFUL 1290		KGFJ 1200	KJR	970
Great Fls., Mont.	Galveston, Texas		Los Angeles, Cal.	Seattle,	Wash.
KFRI 1050	KFUO 550		KGFK 1500 Moorhead, Minn.	KLCN Blyther	ville, Ark.
Milford, Kans. KFBK 1310	St. Louis, Mo. KFUP 1310		KGFL 1370	II KLO	1400
Sacramento, Cal.	Denver, Colo.		Raton, N. M.	Ogden, KLPM	Utah
Sacramento, Cal. KFBL 1370	II KFVD 1000		KGFW 1310	KLPM	1240
Everett, Wash.	Culver City, Cal. KFVS 1210		Ravenna, Nebr. KGFX 580	KLRA	N. Dak. 1390
KFDM 560 Beaumont, Tex.	Cape Gir'rd'u, Mo	i II	Pierre, S. D.		Rock, Ark.
KFDY 550	KFWB 950		Pierre, S. D. KGGC 1420	KIS	1440
Brookings, S. D.	Hollywood, Cal.		San Fincisco, Cal.	Oaklan	d, Cal.
KFEL 920 Denver, Colo.	St. Louis, Mo.	1 11	KGGF 1010 Coffeyville, Okla.	KLX Oaklan	
KFEQ 680	KFWI 930		KGGM 1230	KL2	560
St. Joseph. Mo.	San F'ncisco, Cal.	1	Albuq'rque, N.M KGHF 1320	Denver	, Colo.
KFGQ 1310 Boone, Iowa	KFXD 1420		KGHF 1320	KMA	930 doah, Ia.
Boone, Iowa KFH 1300	Nampa, Idaho KFXF 920		Pueblo, Colo. KGHI 1200	KMAC	1370
Wichita, Kansas	Denver Colo.		Little Rock, Ark.	San An	tonio, Tex.
KFI 640	KFXJ 1310 Grand Junc.,Col. KFXM 1210		KGHL 950	KMBC	950
Los Angeles, Cal.	Grand June., Col.		Billings, Mont. KGIR 1360	Kan. C	ity, Mo. 1120
KFIO 1120 Spokane, Wash.	San Ber'd no, Cal.		KGIR 1360 Butte, Mont.	Inglew	ood, Cal.
KFIZ 1420	KFXR 1310		Butte, Mont. KGIW 1420	KMED	1310
Fond du Lac, Wis.	Oklahoma City		Trinidad, Colo.	11 1/3//	d, Ore.
KFJB 1200	KFXY 1420 Flagstaff, Ariz.	1 1	KGIX 1420	KMJ	1210 Cal
Marshalltown, Ia. KFJF 1480	KFYO 1420		Las Vegas, Nev KGIZ 1500	KMLB	1200
Oklahoma City	Abilene, Texas		Grant City, Mo	Fresno, KMLB Monroe	e, La
KFJI 1370	KFYR 550 Bismarck, N. D.		KGJF 890		740 Ctr., Nebr.
Astoria, Ore. KFJM 1370	KGA 1470		Little Rock, Ark	11 1/ 1/(/)	660
Grd. Forks, N.D.	Spokane, Wash.		Tyler, Texas	Tacom	a. Wash.
KFJR 1300	KGAR 1370 Tucson, Arizona		KGKL 1370	KMOX	1090 nis, Mo.
Portland, Ore. KFJY 1310	KGB 1330		San Angelo, Tex. KGKO 570	H KMPC	710
Fort Dodge Ia.	San Diego, Cal.		Wichita Flls.,Tex.	Los An	geles, Cal.
KEIZ 1370 1	KGBU 900		KGKX 1420	KMTR	570 igeles, Cal.
Ft. Worth, Tex. KFKA 880	Ketchikan, Al'ka KGBX 1310		Sand Point, Idaho KGKY 1500	KNX	1050
Greeley, Colo.	St. Joseph, Mo.		Scottsbluff, Nebr.	II I na Ar	orales Cal
KFKU 1220	KGBZ 930 York, Nebr.		KGMB 1320	KOA	830 c, Colo.
Lawrence, Kans. KFKX 1020	York, Nebr. KGCA 1270		Honolulu, T. H. KGMP 1210	KOAC	550
Chicago Ill	Decorah, Iowa		Elk City, Okla,	Corval	550 lis, Ore.
KFLV 1410 Rockford, Ill.	KGCR 1210		KGNF 1430	II KOR	1180
Rockford, Ill.	Watertown, S. D. KGCU 1240		No. Platte, Nebr KGNO 1210	KOCW	Coll., N.M
KFLX 1370 Galveston, Tex.	Mandan, N. D.	1	Dodge City, Kas.	Chicka	sha, Okla.
KFMX 1250	II KGCX 1310		Dodge City, Kas. KGO 790 San F'ncisco, Cal.	Кон	1380
N'thfield, Minn.	Wolf P't, Mont.		San F'neisco, Cal KGRS 1410	Reno,	Nevada 1260
KFNF 890 Shenandoah, Ia.	Mitchell, S. D.		Amarillo, Texas	Counci	l Bluffs,Ia.
KFOR 1210	KGDE 1200		KGII 940	II KOIN	940
KFOR 1210 Lincoln, Nebr.	Fergus Falls, Minn		Honolulu, Hawaii	Portlar	nd, Ore.
KFOX 1250	KGDM 1100 Stockton, Cal.		KGVO 1420 Missoula, Mont.	KOL Seattle	, Wash.
Long Beach, Cal. KFPL 1310	KCDY 1200		KGW 620	Комо	920 Wash.
Dublin, Texas	Huron, S. D.		Portland, Ore.	Seattle	, Wash.
KFPM 1310	KGEF 1300		KGY 1200	KONO San An	tonio, Tex.
Greenville, Texas	Los Angeles, Cal. KGEK 1200		Lacey, Wash. KHJ 900	Koos	1370
KFPW 1340 Ft. Smith, Ark.	Yuma, Colo.		Los Angeles, Cal	Marshi	field, Ore.
MEFT 1340			KHQ 590	KORE	1420
Spokane, Wash. KFQD 1230	Long Beach, Cal. KGEW 1200		Spokane, Wash. KICK 1420	Eugene KOY	1390
Anchorage, Alas	Ft. Morgan, Colo.		Red Oak, Iowa	Phoeni	x. Arizona
Anchorage, Alas. KFQU 1420	KGEZ 1310		KID 1320	KPCB	650 , Wash.
Holy City, Cal.	Kalispell, Mont. KGFF 1420		Idaho Falls, Ida	KPJM	, Wash. 1500
KFRC 610 San Fincisco Cal	Shawnee, Okla.		Boise, Idaho		tt, Ariz.
San F'ncisco, Cal. KFRU 630	and thee, onla.		,	1	
Columbia, Mo.			_		
				II	

			WDEL
KPO 680	KUOA 1390	WABI 1200	WCAE   1220
San F'ncisco, Cal. KPOF 880	Fayetteville, Ark.	Bangor, Maine	Pittsburgh, Pa.
Denver, Colo.	KUSD 890 Vermittion, S. D.	WABZ 1200 New Orleans, La.	WCAH 1430
KPPC 1210	KUT 1500	WACO 1240	Columbus, Ohio WCAJ 590
Pasadena, Cal.	Austin, Texas	Waco, Texas WADC 1320	Lincoln, Nebr.
KPQ 1500	KVI 760	WADC 1320	WCAL 1250
Wenatchee, Wash KPRC 920	Tacoma, Wash. KVL 1370	Akron, Ohio WAGM 1420	Northfield, Minn.
Houston, Texas	Seattle, Wash.	Presque Isle, Me.	WCAM 1280 Camden, N. J.
KQV 1380	KVOA 1260	WAIU 640	WCAO 600
Pittsburgh, Pa. KQW 1010	Tucson, Arizona	Columbus, Ohio	Baltimore, Md.
San Jose, Cal.	KVOO 1140 Tulsa, Okla.	WALR 1210	WCAP 1280
KRE 1370	KVOR 1270	Zanesville, Ohio WAPI 1140	Asbury Pk., N. J. WCAT 1200
Berkeley, Cal.	Col. Sp'gs, Colo.	Birmingham, Ala.	Rapid City, S. D.
KREG 1500	KVOS   1200	WASH 1270	II WCAU 1170
Santa Ana, Cal. KRGV 1260	Bellingh'm, Wash. KWCR 1310	Gr. Rapids, Mich. WAWZ 1350	Philadelphia, Pa.
Harlingen, Texas	Cedar Rapids, Ia.	Zarephath, N. J.	WCAX 1200 Burlington, Vt.
KRLD 1040	KWEA 1210	WBAA 1400	WCAZ 1070
Dallas, Texas KRMD 1310	Shreveport, La.	Lafayette, Ind.	Carthage, Ill.
Shreveport, La.	KWG 1200	WBAK 1430	WCBA 1440
KKUW 930	Stockton, Cal. KWJJ 1060	Harrisburg, Pa. WBAL 760-1060	Allentown, Pa. WCBD 1080
Oakland, Cal.	Portland, Ore.	Baltimore, Md.	Zion, Ill.
KRSC 1120	KWK 1350	II WBAP 800	WCBM 1370
Seattle, Wash. KSAC 580	St. Louis, Mo. KWKC 1370	Fort Worth, Tex.	Baltimore, Md.
Manh'tt'n, Kans.	Kansas City, Mo.	WBAX 1210 Wilkes-Barre, Pa.	WCBS 1210 Springfield, Ill.
KSCJ 1330	KWKH 850	WBBC 1400	WCCO 810
Sioux City, Ia.	Shreveport, La.	Brooklyn, N. Y.	Minneap., Minn.
KSD 550 St. Louis, Mo.	KWLC 1270	WBBL 1210	WCDA 1350
KSEI 900	Decorah, Iowa KWSC 1220	Richmond, Va. WBBM 770	New York City WCFL 970
Pocatello, Idaho	Pullman, Wash.	Chicago, Ill.	Chicago, Ili.
KSL 1130	KWWG 1260	II WBBR 1300	WCGU 1400
Salt Lake City KSMR 1200	Brownsville, Tex	Brooklyn, N. Y.	Brooklyn, N. Y.
Santa Maria, Cal.	Seattle, Wash.	WBBZ 1200 Ponca City, Okla.	WCHI 1490
KSO 1380	KXL 1420	WBCM 1410	Chicago, Ill. WCKY 1490
Clarinda, Iowa	Portland, Ore.	Bay City, Mich.	[] Covington, Ky.
KSOO 1110 Sioux Falls, S. D.	KXO 1500 El Centro, Cal.	WBEN 900	WCLO 1200
KSTP 1460	KXRO 1310	Buffalo, N. Y. WBEO 1310	Janesville, Wis. WCLS 1310
St. Paul, Minn.	Aberdeen, Wash.	Marquette, Mich.	Joliet, Ill.
KTAB 560	KXYZ 1420	WBGF 1370	WCMA 1400
San F'ncisco, Cal. KTAR 620	Houston, Texas KYA 1230	Glens Falls, N. Y. WBHS 1200	Culver, Ind.
Phoenix, Ariz.	San F'ncisco, Cal.	WBHS 1200 Huntsville, Ala.	WCOA 1340 Pensacola, Fla.
KTAT 1240	KYW 1020	WBIG 1440	WCOC 880
Ft. Worth, Tex. KTBR 1300	Chicago, Ill.	Greensboro, N.C.	Meridian, Miss.
Portland, Ore.	NAA 690 Arlington, Va.	WBIS 1230	WCOD 1200
KTBS 1450	RUS 664	Boston, Mass. WBMS 1450	Harrisburg, Pa. WCOH 1210
Shreveport, La.	Salvador	Hackensack, N.J.	Yonkers, N. Y.
KTFI 1320 Twin Falls, Ida.	TGW 570	WBNX 1350	WCRW 1210
KTHS 1040	Guatamala TIC 900	New York City	Chicago, Ill. WCSC 1360
Hot Spgs., Ark.	San Jose, C. R.	WBOQ 860 New York City	Charleston, S. C.
KTLC 1310	VAS 585	WBOW 1310	WCSH 940
Houston, Texas KTM 780	Glace Bay, N. S. VOWR 675	Terre Haute, Ind.	Portland, Maine
Los Angeles, Cal.	VOWR 675 St. Johns, N. F.	WBRC 930 Birmingham, Ala.	WDAE 1220
KTRH 1120	WAAB 1410	WBRE 1310	Tampa, Fla. WDAF 610
Houston, Texas	Boston, Mass.	Wilkes-Barre, Pa.	Kansas City, Mo.
KTSA 1290 San Antonio Tex	WAAF 920	WBSO 920	WDAG 1410
San Antonio, Tex. KTSL 1310	Chicago, Ill. WAAM 1250	Needham, Mass. WBT 1080	Amarillo, Texas WDAH 1310
Shreveport, La.	Newark, N. J.	Charlotte, N. C.	WDAH 1310 El Paso, Texas
KTSM 1310	WAAT 940	W BTM 1370	II WDAY 940
El Paso, Texas KTW 1220	Jersey City, N. J. WAAW 660	Danville, Va.	Fargo, N. D.
Seattle, Wash.	WAAW 660 Omaha, Nebr.	WBZ-A 990 Springfield, Mass.	WDBJ 930
KUI 1378	WABC 860	WCAC 600	Roanoke, Va. WDBO 1120
Walla Wal., Wash.	New York City	Storrs, Conn.	Orlando, Fla.
		WCAD 1220	WDEL 1120
		Canton, N. Y.	Wilmington, Del.
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WDEV 1420	WFDW 1420		WHDI 1180	Ti I	WJBO 1420	
Waterbury, Vt	Anniston, Ala. WFEA 1430		Minneap., Minn. WHDL 1420		New Orleans, La. WJBT 770	
Minnoon Minn	Manchester, N.H.		Tupp'r L'ke, N.Y.		Chicago, Ill.	
WDIX 1500 Tupelo, Miss.	WFI 560		WHEC 1440		WJBU 1210	
Tupelo, Miss. WDOD 1280	Philadelphia, Pa.		Rochester, N. Y.		Lewisburg, Pa.	
	WFIW 940 Hopkinsville, Ky.		WHFC 1420		WJBW 1200 New Orleans, La.	
Chattan'ga, Tenn WDRC 1330	WFLA 620		Cicero, Ill. WHIS 1410		WJBY 1210	
Hartford, Conn.	Clearwater, Fla.		Bluefield, W. Va.		Gadsden, Ala.	
WDSU 1250 New Orleans, La.	WFOX 1400 Brooklyn, N. Y.		WHK 1390		WJDX 1270	
WDWF 1210	WGAL 1310		Cleveland, Ohio _ WHN 1010		Jackson, Miss. WJJD 1130	
Providence, R. I.	WGAL 1310 Lancaster, Pa. WGAR 1450		New York City		Mooseheart, Ill.	
WDZ 1070	WGAR 1450		WHO 1000		WJKS 1360	
Tuscola, Ill. WEAF 660	Cleveland, Ohio		Des Moines, Ia. WHOM 1450		Gary, Ind. WJMS 1420	
Jam Vanle Cites	WGBB 1210 Freeport, N. Y.	1 1	Jersey City, N. J.		Ironwood, Mich.	
VEAI 1270	WGBC 1430 Memphis, Tenn.		Jersey City, N. J. WHP 1430		WJR 750	,
WEAI 1270 thaca, N. Y. WEAN 780	Memphis, Tenn. WGBF 630		Harrisburg, Pa. WIAS 1420	li	WJR 750 Detroit, Mich. WJSV 1460	
rovidence, R. I.	WGBF 630 Evansville, Ind.		Ottumwa, Iowa		WJSV 1460 Alexandria, Va.	
WEAU 570	ll MCBI 880		WIBA 1280		WJTL 1370	
Columbus, Ohio	Scranton, Pa.		Madison, Wis.		Tifton, Ga.	
WEBC 1290 Superior, Wis.	WGBS 1180 New York City		WIBG 930 Elkins Park, Pa.		WJW 1210	
VEBQ 1210	WGCM 1210		WIBM 1370		Mansfield, Ohio WJZ 760	
Iarrisburg, Ill.	WGCM 1210 Gulfport, Miss.		Jackson, Mich.		New York City	
WEBR 1310 Buffalo, N. Y.	WGCP 1250 Newark, N. J.		WIBO 560		WKAQ 890 San Juan, P. R.	
УЕDC 1210 —	Newark, N. J.		Chicago, Ill. WIBR 1420		San Juan, P. R. WKAR 1040	
Chicago, Ill.	WGES 1360 Chicago, Ill.		Steubenville, O.	- 11	E. Lansing, Mich.	
VEDH 1420	WGH 1310 Newp't News,Va.		WIBU 1210		E. Lansing, Mich. WKAV 1310 Laconia, N. H.	
rie, Pa. VEEI 590	Newp't News, Va.		Poynette, Wis		Laconia, N. H. WKBB 1310	
loston, Mass.	Ft. Wayne, Ind.		Topoka Kanasa	- 11	Joliet, Ill.	
VEEU 830 leading, Pa.	WGL 1370 Ft. Wayne, Ind. WGN 720 Chicago, Ill.		WIBX 1200 Utica, N. Y. WICC 600		Joliet, Ill. WKBC 1310	
VEHC 1350	Chicago, Ill.		Utica, N. Y.		Birmingham, Ala.	
veho 1350 Emory, Va. VEHS 1420 Elecro, Ill. VELK 1370	WGR 550 Buffalo, N. Y.		Bridgeport, Conn	- 1	WKBF 1400 Indianapolis, Ind.	
VEHS 1420	WGST 890 Atlanta, Ga.		WIL 1200		WKBH 1380	
Cicero, Ill.			St. Louis, Mo.		La Crosso Wis	
niiadelphia, Pa.	WGY 790 Schenec'dy, N. Y.		WILL 890 Urbana, Ill.	- 11	WKBI 1420 Cicero, Ill. WKBN 570	la .
VELL 1420 Sattle C'k, Mich.	]] WIIA 940		WILM 1420		WKBN 570	
Sattle C'k, Mich	Madison, Wis.		Wilmington, Del.		Youngstown, O.	
hicago III	WHAD 1120 Milwaukee, Wis.		WIOD 1300 Miami, Fla.	- 11	WKBO 1450 Jorgov City, N. J.	
VEPS 1200 I	WHAM 1150		WIP 610		Jersey City, N. J. WKBS 1310	
Vorcester, Mass	WHAM 1150 Rochester, N. Y. WHAP 1300		WIP 610 Philadelphia, Pa.		tratespurg III	
lew York City	New York City		WIS 1010 Columbia, S. C. WISN 1120	- 1	WKBV 1500 Connersville, Ind.	
VEW 760	WHAS 820		WISN 1120		WKBW 1480	
t. Louis, Mo.	WHAS 820 Louisville, Ky. WHAT 1310		Milwaukee, Wis.		WKBW 1480 Buffalo, N. Y.	
VEXL 1310 Loyal Oak, Mich.	WHAT 1310 Philadelphia, Pa.		l WJAC 1310	11	WKBZ 1500	
VFAA 800	WHAZ 1300		Johnstown, Pa		Ludington, Mich. WKJC 1200	
VFAA 800 allas, Texas	WHAZ 1300 Troy, N. Y. WHB 860		Norfolk, Nebr.		Lancaster, Pa.	
o. Bend, Ind.	WHB 860		WJAK 1310 Marion, Ind.			
VFAN 610	Kansas City, Mo. WHBC 1200		WJAR 890		Cincinnati, Ohio WKY 900	
FAN 610 hiladelphia, Pa.	Canton, Ohio		Providence, R. I.		Oklahoma City	
VFBC 1200 Inoxville, Tenn VFBE 1200	WHBD 1370		WJAS 1290 Pittsburgh, Pa.		WKZO 590	
FBE 1200	Mt. Orab, Ohio WHBF 1210		WJAX 900		Kalamazoo, Mich. WLAC 1470	
incinnati, Ohio 📗	Rock Island, Ill.		Jacksonville, Fla.		Nashville, Tenn.	
/FBG 1310	WHBL 1410		WJAY 610			
ltoona, Pa. FBL 1360	Sheboygan, Wis. WHBQ 1370		Cleveland, Ohio		Louisville, Ky. WLB 1250	-
yracuse, N. Y.	Memphis, Tenn.		Chicago, Ill.		St Paul Minn	
yracuse, N. Y. FBM 1230	WHBU 1210 Anderson, Ind.		WJBC 1200 La Salle, Ill.		WLBC 1310	
ndianapolis, Ind VFBR 1270	Anderson, Ind.		La Salle, Ill.		WLBC 1310 Muncie, Ind.	
altimore, Md.	WHBY 1200 Green Bay, Wis.		WJBI 1210 Red Bank, N. J.		WLBF 1420 Kansas City, Ks.	
VFDF 1310	II WHDF 1370		WJBK 1370		WLBG 1200	
lint, Mich. VFDV 1310	Calumet, Mich.		Detroit, Mich.		Ettrick, Va.	
Rome, Ga.	WHDH 830 Boston, Mass		WJBL 1200 Decatur, Ill.		WLBL 900 Stevens Pt., Wis.	
	Loudin, Mass		Decatur, III.		Sevens Ft., WIS.	
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WLDW							LIA
WLBW 1260		WNBO 1200		WPTF 680	1	WSM 650	
Oil City, Pa. WLBX 1500		Washington, Pa. WNBR 1430		Raleigh, N. C. WQAM 560		Nashville, Tenn. WSMB 1320	
L. I. City, N. Y.		WNBR 1430 Memphis, Tenn. WNBW 1200		Miami, Fla.		New Orleans, La.	
WLBZ 620				WQAN 880		WSMK 1380	
Bangor, Maine		Carbondale, Pa. WNBX 1200		Scranton, Pa. WQAO 1010		Dayton, Ohio WSOC 1210	
WLČI 1210 Ithaca, N. Y.		Springfield, Vt.		New York City		WSOC 1210 Gastonia, N. C.	
WLEY 1370		WNBZ 1290 Sar'n'c L'ke,N.Y.		WQBC 1360		I WSPA 1420	
Lexington, Mass. WLIT 560		Sar'n'c L'ke,N.Y. WNJ 1450		Vicksburg, Miss. WQDM 1370		Spartanburg, S.C. WSPD 1340	
Philadelphia, Pa.		Newark, N. J.		St. Albans, Vt.		Tolodo Obio	
WLOE 1500		WNOX 560		! WQDX 1210		WSUI 880 Iowa City, Iowa	
Boston, Mass. WLS 870		Knoxville, Tenn. WNYC 570		Thomasville, Ga. WRAK 1370		lowa City, Iowa	
Chicago, Ill.		WNYC 570 New York City		Williamsport, Pa.		WSUN 620 St. Petersb'g, Fla.	
WLTH 1400		WOAI   1190		WRAM 1370		I WSVS 1370	
Brooklyn, N. Y.		San Antonio, Tex.		Wilmington, N.C.		Buffalo, N. Y. WSYB 1500	
WLVA 1370		WOAX 1280 Trenton, N. J.		WRAW 1310 Reading, Pa. WRAX 1020		Rutland, Vt.	
Lynchburg, Va. WLW 700		WOBU 580		WRAX 1020 Philadelphia, Pa.		I WSYR 570	
Cincinnati, Ohio		WOBU 580 Charlest'n, W.Va.		Philadelphia, Pa.		Syracuse, N. Y.	
WLWL 1100 New York City		WOC 1000 Davenport, Iowa				WTAD 1440 Quincy, Ill.	
WMAC 570		WOCL 1210		Hattiesburg, Miss WRBL 1200		I WTAG 580	
Syracuse, N. Y.		Jamestown, N. Y.		Columbus, Ga.		Worcester, Mass.	
WMAK 1040 Buffalo, N. Y.		WODA 1250		WRBQ 1210 Greenville, Miss.		WTAM 1070 Cleveland, Ohio	
WMAL 630		Paterson, N. J. WODX 1410		WRBX 1410		I WTAO 1330	
Washington D.C.		WODX 1410 Mobile, Ala.		Roanoke, Va.		Eau Claire, Wis. WTAR 780	
WMAQ 670 Chicago, Ill. WMAZ 1180 Macon, Ga.				I WRC 950		WTAR 780	
Chicago, Ill. WMAZ 1180		Ames, Iowa		Washington, D.C. WRDO 1370		Norfolk, Va. WTAW 1120	
Macon, Ga.		Ames, Iowa WOKO 1440 Albany, N. Y.		Augusta, Maine	1	College Sta., Tex.	
WMBA 1500		I WOL 1310		WRDW 1500		WTAX 1210	
Newport, R. I. WMBC 1420		Washington, D.C. WOMT 1210		Augusta, Ga. WREC 600		Springfield, Ill. WTBO 1420	
Detroit, Mich.		Manitowoc, Wis.		Memphis, Tenn.		I Cumberland Md.	
WMRD 1440		l WOOD 1270		WREN 1220 Lawrence, Kans.		WTEL 1310	
Peoria Hghts,,Ill.		Gr. Rapids, Mich. WOP1 1500		Lawrence, Kans.		Philadelphia, Pa. WTFI 1450	
WMBG 1210 Richmond, Va. WMBH 1420		Bristol Tonn	3	WRHM 1250 Minneap., Minn.		Toccoa, Ga.	
WMBH 1420		WOQ 1300 Kansas City, Mo. WOR 710		WRJN 1370 Racine, Wis.		WIIC 660-1060	
Joplin, Mo. WMBI 1080		Kansas City, Mo.		Racine, Wis.		Hartford, Conn. WTJS 1310	
Chicago, Ill.		Newark, N. J.		New York City		Jackson, Tenn.	
WMBO 1310 Auburn, N. Y.		I WORC 1200		WROL 1310		I WTMJ 620	
Auburn, N. Y.		Worcester, Mass.		Knoxville, Tenn.		Milwaukee, Wis. WTOC 1260	
WMBQ 1500 Brooklyn, N. Y. WMBR 1370 Tampa, Fla.		WOS 630 Jeff's'n City Mo		WRR 1280 Dallas, Texas WRUF 830		Savannah, Ga.	
WMBR 1370		Jeff's'n City, Mo. WOV 1130 New York City		WRUF 830		Savannah, Ga. WWAE 1200	
Tampa, Fla.		New York City		Gainesville, Fla.		Hammond, Ind. WWJ 920	
WMC 780 Memphis, Tenn.		WOW 590 Omaha Nahr		WRVA 1110 Richmond, Va.		Detroit, Mich.	
WMCA 570		Omaha, Nebr. WOWO 1160		WSAI 1330		WWL 850 New Orleans, La.	
New York City WMIL 1500		Ft. Wayne Ind.		Cincinnati, Ohio WSAJ 1310 Grove City, Pa.		New Orleans, La.	
Brooklyn, N. Y.		WPAD 1420 Paducah, Ky.		Grove City Pa		WWNC 570 Asheville, N. C.	
WMMN 890		I WPAP 1010		WSAN 1440		WWRL 1500 Woodside, N. Y. WWSW 1500	
WMMN 890 Fairmont, W. Va.		New York City		Allentown, Pa.		Woodside, N. Y.	
WMPC 1500 Lapeer, Mich. WMRJ 1210		Pawtucket, R. I.		WSAR 1450 Fall River, Mass.		Pittsburgh, Pa.	
WMRJ 1210		WPCC 560		WSAZ 580		WWVA 1160	
Jamaica, N. Y.		Chicago, Ill.		Hunt'gton, W. Va.		WWVA 1160 Wheeling, W. Va.	
WMSG 1350		WPCH 810 New York City		WSB 740 Atlanta, Ga.		WXYZ 1240 Detroit, Mich.	
New York City WMT 600		WPEN 1500		WSBC 1210		XEA 1200	
Waterloo, Iowa		Philadelphia, Pa.		Chicago, Ill.		Guad'l'iara, Mex.	
WNAC 1230		WPG 1100		I WSBT 1230		XEB 1030	
Boston, Mass. WNAD 1010		Atl'ntic City, N.J. WPOE 1370		South Bend, Ind. WSEN 1210		Mexico City XEC 1333	
Norman, Okla,		Patchogue, N. Y.		Columbus, Ohio WSFA 1410		Toluca, Mexico	
WNAX 570		WPOR 780				XED 965	
Yankton, S. D.		Norfolk, Va. WPRO 1210		Montgomery, Ala. WSIX 1210		Reynosa, Mexico	-
WNBF 1500 Bingh'mt'n, N.Y.		Providence, R. I.		Springfield, Tenn.		XEE 1132 Oaxaco, Mexico	
WNBH 1310		WPSC 1230		Springfield, Tenn.		XEFA 1250	
New B'df'd, Mass.		State College, Pa.		WinstSal., N. C.		Mexico City	

XEFE 980 Laredo, Mexico XEH 1132 Monterrey, Mex. XEI 1000 Morelia, Mexico XEJ 857 Juarez, Mexico XEK 990 Mexico City XEL 1091 Saltillo, Mexico XEM 730 Tampico, Mexico XEN 711 Mexico City	XEO 940 Mexico City XEP 1400 Laredo, Mexico XEQ 1015 Juarez, Mexico XER 674 Mexico City XES 890 Tampico, Mexico XET 690 Monterrey, Mex. XETA 1140 Mexico City XETF 680 Veracruz, Mex.		XETO 1360 Mexico City XETY 1300 Mexico City XEU 800 Veracruz, Mex. XEV 1034 Puebla, Mexico XEW 910 Mexico City XEX 1210 Mexico City XEY 547 Merida, Mexico XEZ 588 Mexico City		XFC 805 Aguascal'nes, M. XFF 915 Chihuahua, Mex. XFG 638 Mexico City XF1 818 Mexico City XFX 860 Mexico City	
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(Continued from page 59)

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MICHOACAN	Watts		Kcys.	Havana W-23	50 CMBQ 15 CMBR	1405 1500
Morelia, Mich. Y-12	101	XEI	1000		150 CMBS	790
NEUVO LEON				1	150 CMBT 150 CMBW	1070 1010
Laredo, N. L. S-13	101	XEFE	980		30 CMBX	1405
,	2500 5000	XEP XEH	1400 1132		100 CMBY 150 CMBZ	1405 1010
Monterrey N. L. U-13	500	XET	690		500 CMC	840
OAXACA					150 CMCA 150 CMCB	1225 1070
Oaxaca, Oak. AA-14	105	XEE	1132		250 CMCD	1225 890
PUEBLA					250 CMCF 30 CMCG	1285
Puebla Z-13	101	XEV	1034		15 CMCH 15 CMCM	1285 1500
<b>TAMAULIPAS</b>					250 CMCN	1225
Reynosa, Tams. T-14	10000	XED	965	f ·	225 CMCO 600 CMCQ	660 1150
Tampico, Tams. W-14	500 500	XEM XES	730 890		20 CMCR	1285
VERA CRUZ	300	ALS	670		5 CMCT 50 CMCU	1500 1345
Veracruz, Ver. Z-14	500	XETF	680		15 CMCY	1345
, or act as , 1 as 1 = 1	101	XEU	800		3150 CMK 250 CMO	730 1150
YUCATAN					1400 CMW	588
Merida, Yuc. X-19	105	XEY	547	Holguin W-27	500 CMX 30 CMKF	890 1363
WEST	IND	IES		Matanzas W-24	7.5 CMGB	1185
BERMUDA	1. 12.				5 CMGD 50 CMGF	1140 977
	7	5 TJW	1490	n	60 CMGH	780 1249
Hamilton M-35	7.	3 1 ) **	1430	Pinar del Rio W-22	20 CMAB 30 CMAC	1375
CUBA	20	ON LOT	1275	Santa Clara W-25	15 CMHI	1110 1450
Cardenas W-24 Camaguey W-26	30	CMGE CM IC	1375 1321	Santiago X-28	20 CMKA 15 CMKB	1200
0 •	20	CMJE	856		150 CMKC 20 CMKD	1034 1100
Ciego de Avila W-26 Cienfuegos W-25	20 200	CMJB CMHA	1276 1154		20 CMKD 250 CMKE	1249
	40	CMHJ	645		30 CMKG 250 CMKH	1176 1327
Colon W-24 Havana W-23	100 50	CMGA CMBA	834 1345	Tuinucu	500 CMHC	790
Tiavaria 11-20	150	CMBC	965 965			
	150 7.5	CMBD CMBF	1345	DOMINICAN R	EPUBLIC	
	150	CMBG	1070 1405	Santo Domingo X-31	1000 HIX	669
	30 15	CMBI CMBJ	1285	Santo Domingo X-31	1000 11172	50.
	15	CMBK CMBL	1405 1500	HAITI		
	15 15	CMBM	1285	1	1000 11111	030
	30	CMBN	1405	Port au Prince X-30	1000 HHK	920

## Principal Broadcasting Stations of the World

As Compiled by the Bureau of Foreign and Domestic Commerce, Electrical Equipment Division, U. S. Department of Commerce

Elec	ctrical	Equipmen	L DIV	ision,	O. S. Departmen	ni oi C	ommerc	e	
Country and City	Call	Keys.	Meters	Watts	Country and City	Call	Keys.	Meters	Watts
•		AMERICA				C Y 20	930	323	2000
ARGENTINA	500111	AMBRICA				CX20 CX22 CX24 CX26 CX30	970	309	250
Buenos Aires	LP4	669	448	5000		CX24	1010	297	1000
	LRi	789	380	500		CX26	1050	286	2000
	LR2	870	345	10000		CX30	1130	265	250
	LR3	949	316	5000		CX32	1170	256	200
	LR4	990	303	10000		CX34	1210	248	500
	LR5	828	362	2000		CX36	1250	240	250
	LR6	909	330	5000		CX38	1290	233	100
	LR7	750	400	7000		CX40	1330	226	100
	LR8	1106	271	10000		CX42 CX44 CX46	1370	219	500
	LR9	1030	291	10000		CX44	1410	213	20
	LS1	709	423	5000		CX46	1450	207	100
	LS2	1190	252	10000		CX48	1490	201	50
	LS3	1270	236	1000	Paysandu	CW40	1340	224	30
	LS5	1069	280	10000	e 1.	CW44	1420	211	30
	LS6 LS8	1349	222 244	3000 10000	Salto	CW32	1180	254	50
	LS9	1229 1388	216	10000		CW34 CW36	1220	236 238	50 30
Concordia	J2	1327	226	400		CW38	1260 1300	231	30
Concordia	LT2	810	370	1000	Tucuarembo	CW46	1460	206	20
Cordoba	LV2	911	329	1000	VENEZUELA	CW40	1400	200	20
General Pico	LT7		020	1000	Caracas	YVIBC	960	312	
La Plata	LT2	685	438	1000		YVZBC	6061	49.5	400
Los Molinos	LV8					EUROP			
Mendoza	LT4	759	395	500	AUSTRIA		_		
Parana	LT5	1249	240	50	Graz		851	353	7000
Rosario	LT3	1090	275	3000	Innsbruck		1058	284	500
	LV5	1369	279	500	Koagenfurt		667	453	500
	LV6	1079	279	100	Linz-Donau		1220	246	500
San Juan	LT6	730	411	5000	Vienna	UON2	∫6073		15000
Villaguay	LP2	1140	263	65	DEL CHILL		₹ 581	516	
BOLIVÍA	CDV	1250			BELGIUM	0.11488			
La Paz BRAZIL	CPX	1350	226	1000	Antwerp	ON4ED	1455	206	50
Ampara	PRAM	7		ćo.	Brussels	ON4GT	1375	218	100
Bahia	PRAH		445	50 50		ON4RB	589	509	3600
Campinas	FRAN	1171	256	20		ON4RC	1448	207 246	100
Curytiba	PRAN	882	340	50	Chatelineau	ON4FO ON4CE	1219 1338	216	100
Franca	PRAZ	1110	270	50	Dampremy	ON4FG	1455	206	200 25
Juiz de Fora	PRAJ	857	350	200	Ghent	ON4RG	1219	246	400
Para	PRAF	842	356	250	Liege	ON4RW	1219	246	200
Pelotas	PRAD	920	326	50	Ottomont	ON4EX	1388	216	100
Pernambuco	PRAP	706	425	3000	Velthem	Ottiba	589	509	15000
Porto Alegre	PRAG		425	3000	Verviers	ON4CF	1455	206	100
Ribeirao Preto	PRAI	1071	280	10	CZECHO-SLOVAKIA		1100	200	100
Rio de Janeiro	PRAA	750	400	1000	Bratislava	OKR	1075	279	12500
	PRAB	937	320	500	Brunn	OKB	878	342	36000
	PRAC	857	350	500	Kosice	OKK	1023	293	2500
	PRAK	1153	260	1000	Prague	OKIMPI	5169	58	5000
	PRAX	1363	220	1000		OKP	616	487	5000
Santos	PRAS	895	335	1000	DANZIG				
Sao Paulo	PRAE PRAR'	815 1006	368	1000	Danzig	PTB	662	453	<b>2</b> 50
BRITISH GUIANA	FRAR	1000	298	500	DENMARK		1067	•••	****
Georgetown	VRY	6832	43.86	8	Copenhagen Kalundborg		1067 260	281 1153	1000
CHILE	****	0032	13.00	0	Skamleback		15300	19.6	7500 500
Santiago	CMAB	625	480	1000	Skalineback		6057	49.5	300
	CMAC		373	1000			9488	31.6	
	CMAK		225	100	Soro		3088	971	2000
	CMAO		295	250	ESTONIA		3000	311	2000
	CMAQ	1224	245	100	Tallinn		1013	296	10000
Valparaiso	CMAJ	1034	290	100			250	1200	100
COLOMBIA					Tartu		735	408	2200
Bogota	HJN	706	425	2000	FINLAND				
DEDI	HKF	7688	39	50	Abo		1219	246	
PERU	Over	1764	170	••	Bjorenborg		1219	246	1500
Arequipa	OA6U	1764	170	20	Helsingfors		1357	221	10000
Lima	OAX OA4M	790	380	1500	Jakobstad		1219	246	750
URUGUAY	UATIVI	1428	210	12	Lahti		166	1796	40000
Montevideo	CX6	650	462	1000	Tammerfors		1020	• • • •	1000
one video	CX10	730	411	1000	Vipuri FRANCE		1030	291	<b>750</b>
	CX12	770	390	500		F2BD	963	312	500
	CX14	810	370	1000	A Bell	. 200	9761	30.75	
	CX18	890	337	250	Angers		1091	275	250
					-				200

Bairste   1364   220   1500   LATVIA   TUZ   571   525   10000	Country and City	Call	Keys.	Meter:	s Watts	Country and City	Call	Keys,	Meters	Watts
Section   1986   278   200	Biarritz		1515	198	250		YLZ	571	525	10000
Geneble   914   328   1500   Lusemburg   LOAA   1344   223   10000			986	304	1500	Kovno	RYK	155	1935	7000
June   June				278 328		LUXEMBURG Luxemburg	LOAA	1344	223	10000
Limages	Juan les Pins		1219			NETHERLANDS		1220	246	
Marsan	Limoges		1022	293	500		PFBI	∫1004	298	7000
Marsan	Lyon							9500	31.2	8
Marseille	Marsan					Huizen				
Nimes	Marseille		950	316	500			160	1875	
Paris	Nimes			240		The Hague				
PPTT	Paris			1725 2650	13500			671	447	400
FL		Frame	901	331		Bergen		824	364	1200
PRC				2650				815	368	800
F8GC									587 236	
Pontoise		F8GC	∫ 825	368∫	1500	Nidaros		662	453	1350
Pontoise			∫ 968	310\	2000	Oslo	LKO	279	1071	75000
Rennes	Pontoise			41∫ 19.6	8)		LKP LKR		453 447	
Renies			11899	25.2	(0)	Stavanger		1240	241	500
St. Elienne	Rennes			272	1500	POLAND	LKW			
Strasbourg   100				386 220						
Toulouse	Strasbourg		867	345	6000	Lwow		779	385	
Aix-la-Chapelle		MRD	1175	255	1500	Warsaw		1412	203	25000
Aix-la-Chapelle	GERMANY		770	381	8000			779	385	500
Berlin	Aix-la-Chapelle					Lisbon	CT1AA	942	319	1000
Bremen			716	419	1700	Bucharest		759	394	12000
Breslau   923   325   1700   Cartagena   EAJI3   1119   268   10000			9560				EAJ18			
Breslau         923         325         1700         Cartagena         EAJ15         1219         246         100           Cologne         1319         227         1700         Madrid         EAJ2         750         400         750           Dresden         941         319         300         EAJ7         708         424         1500           Flensburg         1373         219         600         EAM         9772         30.7            Frankfort         770         390         1700         Oviedo         EAJ19         815         368         30           Freiburg         527         469         300         San Sebastian         EAJ5         809         365         1000           Gleiwitz         1157         259         560         Seville         809         365         1000           Hamburg         806         372         1700         SWEDEN         809         365         1000           Hamburg         806         372         1700         SWEDEN         80         250         1200         600           Kaiserslautern         1112         270         300         Boras         SCA <td< td=""><td>Bremen</td><td></td><td></td><td></td><td></td><td>Barcelona</td><td>EAJI EAII3</td><td></td><td></td><td></td></td<>	Bremen					Barcelona	EAJI EAII3			
Dresden	Breslau		923	325	1700	Cartagena	EAJ15	1219	246	100
Freiburg	Dresden		941	319	300	Madrid	EAJ7	708	424	
Freiburg						Oviedo		9772 815	30.7 368	30
Hamburg			527	469	300	San Sebastian	EAJ5	809	365	
Kaiserslautern	Hamburg		806	372	1700	SWEDEN				
Kiel   1292   232   300				270						150
Continue			1220	246			SCB			
Leipzig	Konigsberg		1085	277	1700	Gavle	SCE	1470	204	200
Muehlacker         833         360         60000         Horby         SBH         1166         257         10000           Muenister         1319         227         600         Hudiksvall         SCF         1112         270         150           Munisch         563         553         1700         Jonkoping         SCH         1490         202         250           Nuremburg         1256         239         2300         Kalmar         SCI         1220         246         200           Stettin         1058         284         600         Karlsborg         SAS         11760         52.5            HUNGARY         Karlskrona         SCJ         1530         196         200           LELAND         SCK         1378         218         250           Karlskrona         SCL         1220         246         200          LELAND            Karlskrona         SCL         1378         218         250          LELAND	Leipzig		1184	253	2300	Halmstad	SCE	1391	216	200
Muenster   1319   227   600   Hudiksvall   SCF   1112   270   15	Magdeburg Mueblacker					Helsingborg	SCG			
Nuremburg   1256   239   2300   Kalmar   SCI   1220   246   200	Muenster		1319	227	600	Hudiksvall	SCF	1112	270	150
HUNGARY	Nuremburg		1256	239	2300	Kalmar	SCI	1220	246	
Budapest   S45   S50   20000   Karlstad   SCK   1378   218   250   ICELAND   Kiruna   SCL   1220   246   200   Reykjavik   TFA   1200   250   S00   Kiruna   SCL   1220   246   200   Reykjavik   TFA   1200   250   S00   Kiristinehann   SCM   1480   203   250   IRISH FREE STATE   SCN   689   436   250   S00   S	Stettin HUNGARY		1058	284	600		SAS SCJ			200
Reykjavik	Budapest		545	550	20000	Karlstad				
Cork         6OK         1337         224         1000         Malmo         SBC         1301         231         60           Dublin         2RN         726         413         1500         Motala         SBC         223         1348         30000           ITALY         Norrkoping         SCO         1112         270         250           Bolzano         IBZ         62         453         2000         Orebro         SCV         1265         237         200           Genoa         IGE         779         385         1200         Ornskoeldsvik         SCW         1373         218         2000           Milan         IMI         599         501         7000         Ostersund         SBF         770         390         600           Naples         INA         905         331         1500         Saffle         SCP         1220         246         600           Palermo           3000         Stockholm	Reykjavík	TFA	1200	250	500	Kristinehamn	SCM	1480	203	250
Dublin   2RN   726   413   1500   Motala   SBC   223   1348   30000     TALY	Cork	6OK				Malmo			231	60
Bolzano	Dublin ITALY	2RN				Motala	SBG	223	1348	30000
Milan         IMI         599         501         7000         Ostersund         SBF         770         390         600           Naples         INA         905         331         1500         Saffle         SCP         1220         246         600           Palermo          3000         Stockholm           75000           Rome         IRC         680         441         3000         SBA         659         436         1000           ILAX         6667         45         Sundsvall         SBD         554         542         10000	Bolzano					Orebro	SCV	1265	237	200
Naples         INA         905         331         1500         Saffle         SCP         1220         246         600           Palermo           3000         Stockhołm           75000           Rome         IRC         680         441         3000         SBA         659         436         1000           11AX         6667         45          Sundsvall         SBD         554         542         10000	Milan	IMI	599	501	7000	Ostersund	SBF	770	390	600
Rome IRC 680 441 3000 SBA 659 436 1000 11AX 6667 45 Sundsvall SBD 554 542 10000		INA	905	331		Saffle			246	600
Turin ITO 1031 272 7000 Trollhattan SCQ 1112 266 250							SBA			1000
	Turin			272	7000		SCQ			

Country and City	Cali	Keys.	Meters	Watts	Country and City	Call	Keys.	Meters	Watts
Uddevalla	SCR	1058	286	50	Nalchik	RA67	279	1075	1200
Umea	SCS	1384	231	20	Nizhni-Novgorod	RA13	357	840	1800
Uppsala	SCT	662	458	150	Novorossisk	RA33 RA10	268 308	1117 975	4000 1200
Varberg	SCU	1058	283	300	Odessa Orenburg	RA25	469	640	1000
SWITZEŘLAND Basel		244	1010	500	Petropavlovski	RA64	857	350	45
Berne		∫1210	246	500	Petrozavodsk	RA46	302	765	2000
		9375	32∫		Rostov-on-Don	RA14	366	820	4000
Beromunster		651	459	60000	Samara	RA22 RA32	333 714	900 420	1200 200
Geneva		395 743	760 404	1200 25000	Saratov Sevastopol	RASZ RAS	375	800	250
Sottens Zurich	H9XD	3529	85	25000	Simferpol		667	450	
A) di Tell		9375	32∫		Smolensk	RA68	969	30	20
		653	459	630	C. I'	RA72	1999 411	150 730	800 1200
UNITED KINGDOM	1 2BD	995	301	1000	Stalino Stavropol	RA77 RA20	545	550	1200
Aberdeen Belfast	2BE	1238	242	1000	Sverdlovsk	RA15	286	1050	500
Bournemouth	6BM	1040	288	1000	Tashkent	RA27	419	715	2000
Cardiff	5WA	968	310	1000	Tiffis	RA11	345	870	4000
Chelmsford			479	25000	Tomsk	RA21 RA44	1000 435	300 690	150 1200
Daventry	5GB 5XX	626 193	1553	25000	Tver Ulyanovsk	RASI	600	600	20
Dundee	2DE	1040	288	130	Vel Ustjuk	RA16	461	650	1200
Edinburgh	2EH	1040	288	350	Vladivostok	RA17	625	480	1500
Glasgow	5SC	752	399	1000	Vologda	RA41	343	875	1200
Huddersfield		<b>626</b>	479	30000	Voronezh	RA12 ASIA	316	950	1200
11.31	6KH	\996 1040	301∫ 288	130	BRITISH MALAYA	ASIA			
Hull Leeds and	UKII	1040	88\	130	Johore	VS3AB	7055	42.5	
Bradford		1500	200∫		Singapore	VS1AB	7260	41.3	
Liverpool	6LV	1040	288	130	CEYLON		400	500	1750
London	2LO	842	356) 261	30000	Colombo CHINA		600	500	1750
Manchester	2ZY	\1150 797	376	1000	Canton	CAB	689	435	1000
Newcastle	5NO	1148	261	130	Hangchow	XGY	895	335	250
Plymouth	5PY	1040	288	130	Harbin	COHB	674	445	1000
Sheffield _	6FL	1040	288 288	130 130	Mukden	COMK	723 606	415 495	2000 500
Stoke on Trent	6ST 5SX	1040 1040	288 288	130	Nanking Peking	XGZ COPK	937	320	1000
Swansea VATICAN CITY	HVJ	∫15112		10000	Shanghai	NKS	967	310	50
TATICAL CIT		5965	50.26	}		KRC	890	338	250
YUGOSLAVIA						KSMS	1082	277	50
Belgrade		695	432 569	2500 3000		RSC SSC	1276 1071	235 280	50 50
Lljubljana		527 977	700			XAH	1240	240	50
Zagreb						XCBL			250
5 0 D 15	RUSSIA		ating of	Lutiona	Tientsin	CRC	1071	280	500
No authentic list official or otherwise,	ic available	an proace but the fol	lowing a	forma-	FRENCH INDO-CH	COTN	625	480	500
tion is provided for	such use :	as may be	made of	it. The	Haifong	HIVA	3446	87	2500
nower retings are ev	idently the	measurem	ent at t	ne gen-	Saigon		6119	49	
erator. Which is usua	lly five to t	en times th	e antenn	a input	HONG KONG				
rating, shown for oth	ner countrie	9.			Victoria	ZBW	845	355	1500
RUSSIA	RV19	334	898		INDIA Bombay	VUB	840	357	3000
Achabad Archangelsk	KAIS	586	511		Calcutta	vuc	810	370	3000
Armavir	RV50	580	511	200	JAPAN				
Artemovsk	RV26	811	370	1200	Dairen	JQAK	760	395	500
Astrakhan	RV35	435 217	700 1381	1000 4000	Fukuoka Hirasio	JOLK JHBB	680 7995	441 37.5	500
Baku	RV8 RA8	400	750	700	Hiroshima	JOFK	850	353	10000
Bogorodsk Dniepropetro▼sk	RV30	784	382	1000	Kanazawa	<b>JO1K</b>	710	422	3000
Erivan	RV21	400	750	1200	Keijo	JODK	690	435	6000
Gomel	RV40	621	483	1200	Kumamoto	JOCK	790 625	38 <del>0</del> 480	10000 500
Groznyi	RV23 RV58	797 273	377 1100	8000	Kyoto	JONK JONK	635	472	500
Imeni Pop Irkutsk	RV14	185	1621	500	Nagano Nagoya	JOCK	810	370	10000
Ivanovo-Vos-	10.11	100			Okayama	JOKK	700	429	500
nesensk	RV31	892	336	900	Osaka	JOBK	750	400	10000
Kazan	RV17	616	487	4000	Sapporo	JOHK JOIK	830 770	361 390	10000 10000
Kharbarovsk	RV54	1053 176	285 1790	4000	Sendai Shidzuoka	JOPK	778	386	500
Kiev	RA45	397	755	1200	Taihoku	JFAB	7590	39.5	
Kolpinsk				100000		JFAK	670	448	10000
Koursk	RA34	521	575	1000	Tokyo	JOAK	{590 870	508 345	10000
Krasnodar	RA38	584 300	513 1000	1000 10000	NETHERLAND EA	ST INDIES	(010	343)	
Leningrad	RA42 RA51	1999	150	350	Bandoeng	PLE	∫18860	15.9	
Minsk	RA18	349	860	1200			9410	31.80	5∫
Moscow	RA1	207	1450	40000		IBR	5170	58	1000
	RAZ	666	450	500	Batavia (Co	PK1AA ntinued on	3998	75	500
	RA4	666	450	300	(00	ice of the Contract of the	proye was		

## HOW TO TUNE A SET CORRECTLY

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

590 kilocycles 508.2 meters

600 kilocycles 499.7 meters

610 kilocycles 491.5 meters

620 kilocycles 483.6 meters

630 kilocycles 475.9 meters

640 kilocycles 468.5 meters

650 kilocycles 461.3 meters

660 kilocycles 454.3 meters

670 kilocycles 447.5 meters WMAQ 5000 Chicago, III.

680 kilocycles 440.9 meters

KPO 5000 San Francisco, Call WPTF 5000 Kulligh, N. C.

WAAW 500 Omehs, Nehr, WEAF 50000 New York City

5000 Nunhville, Tenn

5000 Los Angeles, Callf 5000 Columbus, Ohio

Vicroria, B. C. Yorkion, Sask. Moneton, N. B. Matarian, Mrs. Cotumbic, Mo. Evany-Bre, Ind. Washington, D.

WDAP WHAN WIP WOO

RPI

Iroquola Falla, Ont. Laramte, Wyo San Hego, Calif. Hallanure, Md. Heloli, Win Lawrenceburg, Tenn. Memphia Tenn. Hartford, Conn.

A LL stations in America are listed in RADEX in three tables:

1st by Frequencies. 2nd by Call Letters

3rd by States and Cities.
The Index by Frequencies is the one to be used,

the other two are merely

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

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

greatest volume.

Let us assume that the station we are hearing is WEAF in New York. First we must ascertain the frequency for this station. Look it up under WEAF in the Index by Call Letters or under New York in the Index by States and Cities. In either of these indexes we find that the frequency of WEAF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEAF is one of the two stations which have been assigned the 660 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

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

We now have found that the dial numbers for 630 keys, are 72-70 and the dial numbers for 660 keys, are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 650 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 INDEX BY FREQUENCIES AND DIAL NUMBERS page. We are now able to Waymer, Inc.

aska Wesleyan University
on Elec. Illuminating Co.
Jmen of the World
sanuel Missionary Coilege 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 et, we can tell almost invariably which station we are hearing. The we are hearing. The 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

Ablithi Power A Paper Co.
Bishop N. S. Thomas
Airlan Radio Corp.
Monumental Kadio Co., Inc. n School of Muste Insurance Co. Con Lee, Inc.
Aspess Chy Ster Co.
Reysing Broadcasting Co., Inc.
Crubel Bros., Inc.
Unity School of Chefatealry 73 + 71Electrical Equipment Co. Oregonian Publishing Co. Lampa Publishing Co. Rollins Codings, inc. Thompson L. Gudmey Milwaubre Journal 72 | 70 Victoria litrasileaving Are'n Winning trails bachange Carastin Sartonal Railways Castillo Litras Stephens Callege Sympositic on the Afr. Inc. Fransville on the Sir, in M. A. Leese Co. Brate Marketing Bureau 70 | 68 | 69 167 Omaha Crain Sechange National Broadcasting Co., Inc.

68166

67 | 65

Male fires. A The Chronicle

Chicago Dally News, Inc

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 Cail 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. 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.



If all the Radio sets I've "focted" 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 Fadio that I really didn't know the first thing. I thought Radio was a plaything—that was all I could see in it for me.

# IThought 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 skimping 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

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—not

because I had to be.

When broadcasting first became the rage, I first began dabbling with Radio. There's a fascination—something that g abs hold of a fellow—about twitting 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—epiploying thousands and thousands of trained men. I usuallystayed 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 ny neasly little clerical job and devoted my full time to my Radio business.

Since that time I've gave 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 you for. 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 hefore, over \$100 a week. And I know the luture helds 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 be interested in.

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

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

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

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

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