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

AND

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.

The chapter on Radio Principles explains the radio wave from its birth at the transmitter to its conversion into sound at the receiver. Numerous pictures and sketches enable the reader to grasp each stage. There is a list of the necessary technical words with their definitions in simple language and a list of the symbols used in radio diagrams with their meanings fully explained.

The chapter on Vacuum Tubes is, we think, the most simple and yet complete exposition of the principle and operation of radio tubes we have ever seen. The difference in tubes is fully explained and the reader learns not only the use and characteristics of each tube but the purpose served by each prong. Not only is the screen-grid tube covered but the new five-element as well.

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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We have secured a number of these books for those of our readers who will help us in this way to increase the field of RADEX. You can earn a copy in a few minutes by telling your friends about this magazine.

Price, \$1.00 postpaid

OCTOBER 1, 1931





25c per Copy

FRED CLAYTON BUTLER

Editor and Publisher

EIGHTH YEAR	Contents	NUMBER 52
Frontispiece	Natalie Towers, Columbia's Tele	evision Girl
What About the Pe By B. Francis	entode Tube? Dashiell	2
Puzzles and Radio		4
Questions and Ans By the Techni	werscal Editor	6
In the World of D	X	8
The Why of Call L By L. A. Corr	ettersidon	
The Story of Phil	Cook	
Readers Write Abo	out Radio	14
Ted Husing, Colur	nbia's Ace	16
Gossip Back of the By "Betty"	"Mike"	20
- · - · E E	mall Potatoes	
Key to Chain Stati Ready Refere	onsnce Table for Dial Numbers	31
Hour-by-Hou	Tonight?r Index to Chain Programs	32
A Complete Index Cross-Indexed	by Frequencies by Dial Numbers and Wave Le	engths 40
	by States and Cities Location of Station on Broadcas	
Complete Index by	Call Letters	60
Broadcasting Stati	ons of the World by Countries.	65
	ed Monthly Excepting July and	0
	ee Subscription Blank on Page 2	
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THE RADEX PRESS

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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. 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 tubes. 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 24)

BRAIN TEASERS for RADIO FANS

Get Your November RADEX FREE

F 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.

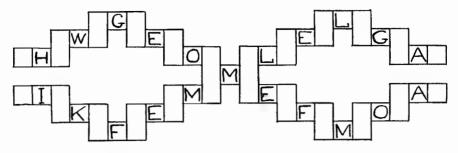
KFAB CKGW WGBC WKBW WGACA DEBC

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.

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.

Finding and Measuring Noises

device, called "Radio NEW Noise Meter," for the investiganay affect

HE world's most beautiful music comes to you every Sunday night during the Kellogg Slumber Hour. at 10:30 P.M. (Eastern Standard Time) Kellogg's Kaffee Hag Coffee and this beautiful music are real partners in bringing you restful sleep.

You may get the program over any of the N. B. C. Network of associated stations listed below:

WIZ New York WBZA Boston WHAM Rochester WBZ Springfield **KDKA** Pittsburgh WIR Detroit WLW Cincinnati WENR Chicago **KWK** St. Louis WREN Kansas City KFI (10 P.M., P.C.T.) Los Angeles KOMO (10 P.M., P.C.T.) Seattle KOA (10:30 P.M., M.S.T.) Denver

156

Litho, in U.S.A.

ounds. Six is obtained ers long.

standard

sed.

noise itself. By means of this it becomes possible to determine the intensity of the



"What is a reverse encore"? Here is Billy what is a reverse encore: Here is Billy Scholtz demonstrating one while Phil Brae unlooses 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 6:30 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 radio-frequency 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 RÂDEX 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 capitol Theater recently celebrated his sixth aninersary of broadcasting. With the Capitol Family each Friday evening 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? My 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 awav.

"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 Phileo 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 stations 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 mandolir. 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

HY do you not list programs from the NBC key Chicago which are WLS in the davtime 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

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

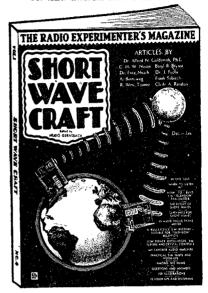
NIGHT: WWVA operates alone from 6:45 p.m. to 8:30 p.m. EST daily and from 10:30 p.m. to 1:00 a.m. EST on Mondays, Wednesdays and Saturdays. WOWO operates alone daily except Sunday from 8:30 to 10:30 p.m. EST and from 10:30 p.m. to 1:00 a.m. on Sundays, Tuesdays, Thursdays and Fridays.

"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



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Among the contributors to SHORT WAVE CRAFT, we find Lee de Forest, F. H. Schnell, "Bob" Hertzberg, C. W. Palmer, H. W. Secor, Clyde Fitch, 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.

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TED HUSING



WHEN Queen Marie of Roumania got lost in New York on her way to the studios of the Columbia Eroadcasting 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 ar 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 pride, "Our Ted!"

ß

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 - Education, 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 vet 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 broadcasting stations have gone to court over the issuance of temporary 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"

OL. 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

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.

Crosby started east.

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 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:

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Daily, 6:30 a.m1 a.m. Indiana Evansville WGBF 630 500 Sunday, 9 a.m10:30 p.m., CST. Monday, Wednesday, Friday, 6:30 a.m6:45 p.m. Tuesday, Tursday, 6:30 a.m11 p.m. Saturday, 6:30 a.m12 midnight. Sunday, 7:00 a.m12 midnight. Sunday, 7:00 a.m12 midnight. Sunday, 7:30 a.m12 midnight. Sunday, Friday, 6-9 a.m.; 4-6 p.m., 7-8 p.m. Wednesday, Friday, 6-9 a.m.; 4-6 p.m., 7-8 p.m. St. Joseph KFEQ 680 2500 Daily, 6 a.m. to sunset, CST. Raleigh WPTF 680 1000 Baily, 8 a.m12 midnight, CST. Raleigh WPTF 680 1000 Sunday, 10 a.m9:15 p.m. Str. Daily, 6:45 a.m9:15 p.m. Sr. Daily, 6:45 a.m9:15 p.m. Saturday, 12-4 p.m.; 6:30-8 p.m. Saturday, 12-1 p.m.; 6:30-8 p.m. Saturday, 12-1 p.m.; 6:30-7 p.m. Sunday, 8 a.m12 midnight, CST. Daily, 6 a.m12 midnight, CST. Sunday, 10 a.m3:30 p.m., PST. Tacoma KMO 860 500 Sunday, 10 a.m3:30 p.m., PST. Tacoma KMO 860 500 Sunday, 10 a.m3:30 p.m., PST. Daily, 6:45-7 p.m.; 9-12 p.m. Walla Walla KUJ 1370 100 Sunday, 9 a.m2 p.m.; 5-9 p.m., PST. Vest Virginia Charleston WOBU 580 250	Daily, 6:30 a.m1 a.m. Indiana Evansville WGBF 630 50(Sunday, 9 a.m10:30 p.m., CST. Monday, Wednesday, Friday, 6:30 a.m6:45 p.m. Tuesday, Tursday, 6:30 a.m11 p.m. Saturday, 6:30 a.m12 midnight. owa Waterloo WMT 600 50(Sunday, 7:00 a.m12 midnight. owa Waterloo WMT 600 50(Sunday, 7:00 a.m12 midnight. owa Waterloo WMT 600 50(Sunday, 7:30 a.m12 midnight. owa Waterloo WMT 600 50(Sunday, 7:30 a.m12 midnight. owa Waterloo WMT 600 50(Sunday, 7:30 a.m12 midnight. owa KFRU 630 50(Sunday, 7:30 a.m10 p.m., 7-6 p.m., CST. Mon., Tues., Thur., 6-9 a.m.; 4-6 p.m., 7-8 p.m. Wednesday, Friday, 6-9 a.m.; 4-6 p.m., 7-8 p.m. St. Joseph KFEQ 680 250(Daily, 6 a.m. to sunset, CST. North Carolina Asheville WWNC 570 100(Daily, 8 a.m12 midnight, CST. Raleigh WPTF 680 100(Sunday, 10 a.m9:15 p.m., EST. Daily, 6:45 a.m9:15 p.m. Saturday, 12-4 p.m.; 6:30-8 p.m. Saturday, 12-4 p.m.; 6:30-8 p.m. Saturday, 12-4 p.m.; 6:30-7 p.m. Outh Dakota Brookings KFDY 550 50(Daily (except Sunday), 12:30-2 p.m., CST. Yankton WNAX 570 100(Sunday, 8 a.m12 midnight, CST. Daily, 6 a.m12 midnight, CST. Daily, 6 a.m17 p.m.; 10 p.m. 4 a.m., PST. Tacoma KMO 860 500 Sunday, 10 a.m330 p.m., PST. Daily, 6:45-7 p.m.; 9-12 p.m. Walla Walla KUJ 1370 100 Sunday, 10 a.m330 p.m., PST. Vest Virginia Charleston WOBU 580 250	Illinois Sunda a.m	Chi ny, 7:30-10 n. CST	icago a.m.; 12:3	WIBO 0-6 p.m.; 7-	560 -8 p.m.;	1000 12-1:30
Owa	owa Waterloo WMT 600 500 Sunday, 7:00 a.m11 p.m., CST Daily, 6:00 a.m12 midnight. Missouri Columbia KFRU 630 500 Sunday, 7:30 a.mnoon; 5-6:15 p.m., CST. Mon., Tucs., Thur., 6-9 a.m.; 4-6 p.m.; 7-8 p.m. Wednesday, Friday, 6-9 a.m.; 4-6 p.m.; 7-8 p.m. St. Joseph KFFQ 680 2500 Daily, 6 a.m. to sunset, CST. North Carolina Asheville WWNC 570 1000 Daily, 8 a.m12 midnight, CST. Raleigh WPTF 680 1000 Sunday, 10 a.m9:15 p.m., EST. Daily, 6:45 a.m9:15 p.m. Oregon Corvallis KOAC 550 1000 Mon., Tucs., Wed., Fri., 12-3:30 p.m.; 6:30-8 p.m. PST. Thursday, 12-4 p.m.; 6:30-7 p.m. Saturday, 12-4 p.m.; 6:30-8 p.m. Saturday, 12-4 p.m.; 6:30-7 p.m. Sunday, 8 a.m12 midnight, CST. Daily (except Sunday), 12:30-2 p.m., CST. Vankton WNAX 570 1000 Sunday, 8 a.m12 midnight, CST. Daily, 6 a.m12 midnight, CST. Daily, 6 a.m12 midnight, CST. Daily, 7 a.m., 7 p.m.; 10 p.m. 4 a.m., PST. Tacoma KMO 860 500 Sunday, 10 a.m330 p.m., PST. Daily, 6:45-7 p.m.; 9-12 p.m. Walla Walla KUJ 1370 100 Daily, 9 a.m2 p.m.; 5-9 p.m., PST. Vest Virginia Charleston WOBU 580 250	Dany Indiana Sund	, 0:50 a.m Ev:	ansville	WGBF	630	500
owa Waterloo WMT 600 500 Sunday, 7:00 a.m11 p.m., CST Daily, 6:00 a.m12 midnight. 500 Missouri Columbia KFRU 630 500 Sunday, 7:30 a.mnoon; 5-6:15 p.m., CST. Mon., Tucs., Thur., 6-9 a.m.; 4-6 p.m., 7-8 p.m. 500 500 Wednesday, Friday, 6-9 a.m.; 4-6 p.m., 7-9 p.m. Saturday, 6-9 a.m.; 4-6 p.m., 7-9 p.m. 500 500 Saturday, 6-9 a.m.; 4-6 p.m., 7-9 p.m. St. Joseph KFEQ 680 2500 Daily, 6 a.m. to sunset, CST. St. Joseph WWNC 570 1000 North Carolina Asheville WWNC 570 1000 Daily, 8 a.m12 midnight, CST. Raleigh WPTF 680 1000 Sunday, 10 a.m9:15 p.m. EST. 1000	owa Sunday, 7:00 a.m11 p.m., CST Daily, 6:00 a.m12 midnight. Missouri Columbia KFRU 630 Sunday, 7:30 a.mnoon; 5-6:15 p.m., CST. Mon., Tucs., Thur., 6-9 a.m.; 4-6 p.m.; 7-8 p.m. Wednesday, Friday, 6-9 a.m.; 4-6 p.m.; 7-8 p.m. Saturday, 6-9 a.m.; 4-6 p.m.; 7-9 p.m. Saturday, 6-9 a.m.; 4-6 p.m.; 7-9 p.m. St. Joseph KFEQ 680 2500 Daily, 6 a.m. to sunset, CST. North Carolina Asheville WWNC 570 1000 Daily, 8 a.m12 midnight, CST. Raleigh WPTF 680 1000 Sunday, 19 a.m9:15 p.m., EST. Daily, 6:45 a.m9:15 p.m. Dregon Corvallis KOAC 550 1000 Mon., Tucs., Wed., Fri., 12-3:30 p.m.; 6:30-8 p.m. PST. Thursday, 12-4 p.m.; 6:30-8 p.m. Saturday, 12-4 p.m.; 6:30-8 p.m. Saturday, 12-1 p.m.; 6:30-7 p.m. South Dakota Brookings KFDY 550 500 Daily (except Sunday), 12:30-2 p.m., CST. Yankton WMAX 570 1000 Sunday, 8 a.m12 midnight, CST. Daily, 6 a.m12 midnight, CST. Daily, 6 a.m12 midnight, CST. Daily, 7 a.m7 p.m.; 10 p.m., 4 a.m., PST. Tacoma KMO 860 500 Sunday, 10 a.m330 p.m., PST. Daily, 6:45-7 p.m.; 9-12 p.m. Walla Walla KUJ 1370 100 Daily, 9 a.m2 p.m.; 5-9 p.m., PST. Vest Virginia Charleston WOBU 580 2500	Tueso Satur	lay, Wednes lay, Thursd day, 6:30 a.	sday, Frida ay, 6:30 a. m12 mid	ıy, 6:30 a.m m11 p.m. night.	6:45 p.	m.
Missouri Columbia KFRU 630 500 Sunday, 7:30 a.mnoon; 5-6:15 p.m., CST. Mon., Tues., Thur., 6-9 a.m.; 4-6 p.m., 7-8 p.m. Wednesday, Friday, 6-9 a.m.; 4-6 p.m., 7-8 p.m. St. Joseph St. Joseph KFFQ 680 2500 Daily, 6 a.m. to sunset, CST. KFFQ 680 2500 North Carolina Asheville WWNC 570 1000 Daily, 8 a.m12 midnight, CST. Raleigh WPTF 680 1000 Sunday, 10 a.m9:15 p.m. EST. Daily, 6:45 a.m9:15 p.m. EST. Daily, 6:45 a.m9:15 p.m. PST. Drauly, 6:45 a.m9:15 p.m. EST. Daily, 6:45 a.m9:15 p.m. EST. PST. Mon., Tues., Wed., Fri., 12-3:30 p.m.; 6:30-8 p.m. PST. Thursday, 12-4 p.m.; 6:30-8 p.m. PST. Saurday, 12-1 p.m.; 6:30-8 p.m. KFDY 550 500 Sunday Sa.m12 midnight, CST. Daily (except Sunday), 12:30-2 p.m., CST. Yankton WNAX 570 1000 Sunday, 8 a.m12 midnight, CST. Longaly, 6 a.m12 midnight, CST. Daily, 7 a.m7 p.m.; 10 p.m., 4 a.m., PST. Tacoma	Missouri Columbia KFRU 630 500 Sunday, 7:30 a.mnoon; 5-6:15 p.m., CST. Mon., Tucs., Thur., 6-9 a.m.; 4-6 p.m., T-8 p.m. Wednesday, Friday, 6-9 a.m.; 4-6 p.m., T-8 p.m. St. Joseph KFFQ 680 2500 Saturday, 6-9 a.m.; 4-6 p.m., T-9 p.m. St. Joseph KFFQ 680 2500 Daily, 6 a.m. to sunset, CST. WNC 570 1000 Daily, 8 a.m12 midnight, CST. Raleigh WPTF 680 1000 Sunday, 10 a.m9:15 p.m. EST. Daily, 6:45 a.m9:15 p.m. EST. Daily, 6:45 a.m9:15 p.m. PST. Oregon Corvallis KOAC 550 1000 Mon., Tucs., Wed., Fri., 12-3:30 p.m.; 6:30-8 p.m. PST. Thursday, 12-4 p.m.; 6:30-8 p.m. PST. Saturday, 12-1 p.m.; 6:30-8 p.m. KFDY 550 500 Daily (except Sunday), 12:30-2 p.m., CST. Yankton WMAX 570 1000 Sunday, 8 a.m12 midnight. VST. VSS. Sunday, 10 a.m12 midnight. VSS. 100 Sunday, 10 a.m3:30 p.m., FST. Daily, 6:45-7 p.m.; 9-12 p.m. Walla Walla	lowa	Wa	terloo	WMT	600	500
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Sunday, 10 a.m7:30 p.m., EST.	Sunday, 10 a.m7:30 p.m., EST.	Daily	Wal 9 a.m2 p	lla Walla .m.; 5-9 p.:	KUJ m., PST.	1370	100
	Daily, 9 a.m12 noon; 2-4 p.m.; 8:30-12 midnight.	Sunda	y, 10 a.m	7:30 p.m.,	EST.		

World Broadcasting Stations

	tinued from		ation	.0
Country and City	Call	Kcys.	Meters	Watts
Djokjakarta	PK2AF	5996	50	500
Makassar	PK6KZ	7313	41	500
Malabar Palembang	PLF PK4PA	17640 59964	17 5	240
Semarang	PK2AG	33304		
Surabaya	PK3CH	6662	45	250
SIAM		2142	140	500
Bangkok	HSP1	967	310	2500
	HSP2	${7890 \atop 7313}$	${38 \choose 41}$	2500
	HS2PJ	10167	29.5	500
TURKEY	HS11PJ	882	340	400
Angora		150	2000	5000
Istanbul		250	1200	5000
AUCTRALIA	OCEAN	IA		
AUSTRALIA Adelaide	5AD	1310	229	300
Adelaide	5CL	730	411	1000
	5DN	960 1200	313	100 200
Albury	5KA 2AY	1320	250 227	50 50
Ballarat	3BA	1300	231	50
Bathurst	3BZ 2MK	1155	260	50
Brisbane	4BC	1290	233	200
	4BK	1380	217	40
Canberra	4QG 2CA	760	393	2500
Carlton	2CA 3KZ	1350	222	200
Geelong	3GL	1400 1330	214 226	50 50
Gunnedah Hobart	2MO 7HO	890	337	50 50
	7ZL	580	517	600
Launceston . Lismore	7LA 2XN	1100 1340	273 224	20 50
Mackay	4MK	1340		
Melbourne	3AR	620	484	1000
	3DB 3LO	1180 ∫9369	255 32)	100 1000
		\ 800	375∫	
Moss Vale	3UZ 2MV	930 1221	322 246	100 50
Newcastle	2HD	1415	212	200
D d.	2NC 6WF	1245	241	2000
Perth	6ML	690 1010	435 297	1000 300
Rockhampton	4RK	930	322	2000
Sydney	2BL	9225 855	32.5	1000
	2FC	∫10520	28.5	1000
	2GB	\ 665 950	451 } 316	600
	2KY 2UE	1070	280	300
		1025	293	50
Toowoomba	2UW 4GR	1125 1020	267 294	100 50
Trafalgar	3TR			
Wangaratta FIJI	3WR	1260	238	50
Suva			(Short)	
NEW ZEALAND				
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
-11.10.011.01	3ZC	1200	250	250
Dunedin	2ZU 4YA	1100 648	273 461	7.5 500
Dulleuili	4ZB	1080	279	20
	4ZL	1220	246	180
	4ZM 4ZO	1080 1080	278 278	45 30
Ekatehuana	2ZE	1210	248	5
(Con	tinued on 1	next page)		

(Conti	nued from	page 23)	
Country and City	Call	Keys.	Meters Watts
Gisborne	2ZJ	1150	261 20
3.0.001.110	2ZM	1147	261 110
Greymouth	3ZR	820	366 20
Hamilton	1ZH	630	480 50
Hastings	2ZI	1330	226 15
	2ZL	1330	226 10
Invercargill	4ZI	1160	259 5 248 15
Manurewa	1ZM 2ZD	1210 1180	254 2.8
Masterton Napier	27.H	1260	238 15
Napier New Plymouth	2YB	1230	244 100
North Invercargill	47.P	1160	259 16
Palmerston North	27.F	1050	286 150
I aimerston Hortin	2ZO	1050	286 10
Wairoa	27.P	820	366 4
Wangunui	27.K	600	500 120
Wellington	2YA	720	416 5000
	2ZR	600	500 150
	AFRICA		
ALGERIA			
Algiers		824	364 2400
CANARY ISLANDS			
Las Palmas	EAR5	1071	280 500
EGYPT		0.00	242
Cairo		869	342
KENYA		909	330
Nairobi	7LO	(9640	31.1\ 1000
Nairobi	110	750	400
MADAGASCAR		(130 .	400
Tananarive		7495	40 500
MOROCCO		1133	10 000
Casablanca	AIN	5870	51
Cuchania	CNO	983	305 25
Rabat		6877	43.6 2000
		724	414
TUNISIA			
Carthage	TNU	162	1850
Constantine	8KR	7005	42.8
Tunis	TUA	240	1250 500
UNION OF SOUTH		800	375 1000
Cape Town Durban	ZTC ZTD	789	407 1000
Johannesburg	7.T.J	(9369	32 \ 15000
Jonannesburg	213	666	450
		(000	-00)

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.

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 kcys. 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: One radio map of North America One copy of the next RADEX 25c ☐ Trial subscription, next five issues of RADEX\$1.00 One year's subscription to RADEX, 10 issues, and Radio Map free Two subscriptions to RADEX with one leatherette cover and Radio Map, both free__ One two-year subscription with leatherette cover and Radio map, both free Leatherette Cover Write Name Plainly Street and Number 52City 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 1030 N	KPRC 920 N	wcco	WHK	WNAX
CFRB 960 C	KRLD	WCFL	1390 C	570 C
CKAC 730 C	1040 C	970 N	WHP	560 C
CKGW	1330 C	1490 N	1430 C	1190 N
690 NKDKA	550 N	940 N WDAE	1280 N WIBO	1000 N
980 N	1130 NKSTP	1220 C	560 N	1440 C
1290 C	1460 N	610 N	580 C	1200 C
1430 NKFAB	620 N———— KTHS	940 N	1300 N	590 N———— WOWO
770 N———— KFH	1040 N	930 C	610 C	1160 C
1300 C	1120 C	1120 C	WIS 1010 C	WPG 1100 C
KFI 640 N	KTSA 1290 C	WDOD 1280 C	WISN 1120 C	WPTF 680 N
KFJF 1480 C	760 C	WDRC 1330 C	WJAR 890 N	WQAM 560 C
KFKX 1020 N	KVOO 1140 N	WDSU 1250 C	WJAS 1290 C	WRC 950 N
KFPY 1340 C	KVOR 1270 C	WEAF 660 N	WJAX 900 N	WREC 600 C
KFRC 610 C	KWK 1350 N	WEAN 780 C	WJDX 1270 N	WREN 1220 N
KFSD 600 N	KYW 1020 N—	WEBC	WJJD	WRR
KFYR 550 N	WAAB	1290 N WEEI	1130 C	WRVA
KGB	1410 C	590 N	750 N	WSAI
1330 C KGO	860 C	870 N	760 N	1330 N
790 NKGW	I240 C	800 N	570 C	740 N
620 N	1320 C	610 C	1480 C	650 N
900 C	640 C	1360 C	550 C	1320 N
KHQ 590 N	WAPI 1140 N	1230 C	900 N	1340 C
KLRA 1390 C	WBAL 760 N	1270 N	WLAC 1470 C	620 N———— WTAG
KLZ	WBAP	560 N	WLAP	580 N
560 CKMBC	800 N	940 C	1010 C	1070 N
950 C	770 C	WFLA 620 N	1260 C	WTAQ 1330 C
KMOX 1090 C	1410 C	WGAR 1450 N	620 C	WTAR 780 C
KOA 830 N	WBEN 900 N	WGL 1370 C	WLIT 560 N	WTIC 660 N
кон	WBRC 930 C	WGN 720 N	WLS 870 N	WTMJ
1380 C	WBT 1080 C	WGR 550 C	WLW 700 N-	620 N
1260 C	WBZ-A 990 N	WGST 890 C	WMAL 630 C	1260 C
KOIN 940 C	WCAE	WGY	WMAQ	920 N
KOL 1270 C	WCAH	790 N———WHAM	670 C	WWNC 570 C
комо	1430 C	WHAS	780 N	WWVA
920 N———— KPO	G00 C	820 N	600 C	1160 C
680 N	1170 C	1440 C	1230 C	1240 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 Pacific Time, three hours.

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

System with WABC.	
These programs are correct to date but	
150 Can Daily	5:00-5:30 The Lady Next Door (ex. Sun.) WEAF WTAG WJAR KSD WRC WTAM
6:45-8:00 Tower Health Exercises (ex. Sun.) WEAF WEEL WELL WGY WCAE WRC	WENR 6:00-6:25 Waldorf-Astoria Orchestra (ex. Sun.)
WEAF WEEL WPL WGY WCAE WRC WBEN CKGW	WEAF WCAE WTAM WJAR WFI WRC
8:00-8:15 Gene and Glenn (ex. Sun.)	WGY WUC WHO WDAY KSD WWJ
8:00-8:15 Gene and Glenn (ex. Sun.) WEAF WTAM WTIC WJAR WTAG WEEI WCSH WFI WRC WGY WCAE WBEN	WKY WENR 6:45-7:00 Swift Program—Stehhins Roys (ex. Sat. and Sun.
8:15-8:30 Morning Devotions (ex. Sun.)	6:45-7:90 Swift Program—Stebbins Boys (ex. Sat. and Sun. WEAF WCAE WTIC WTAG WEEI WJAR WCSH WFI WRC WGY WBEN WDAF
8:15-8:30 Morning Devotions (ex. Sun.) WEAF WTIC WRC WCAE WGY WHAS	WCSH WFI WRC WGY WBEN WDAF
WCSH WJAR WWJ WPTF WIOD WFLA WSUN WTAG WGN WJAX WJDX WRVA	6:45-7:00 Literary Digest Topics—Lowell Thomas (ex. Su.) WJZ WBZ WBZA WHAM KDKA WLW
WBEN WFI KFYR WOW WCKY WIBA	WBAL
8:30-9:00 Cheerio (ex. Sun.)	7:00-7:15 Amos 'n' Andy (ex. Sun.)
WEAF WTIC WEEI WRC WCKY WWJ KPRC WFI WSB WSM WJAX WPTF	WJZ WHAM KDKA WBZ WBZA WRC CKGW WCKY WLW WBAL CFCF WRVA
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.)
WGY WOW WCAE WCSH WSMB WDAF KSTP WGN WDAY KFYR WAPI	WABC WOKO WFBL WKBW WLBZ WDRC WAAB WORC WHP WJAS WLBW WMAL
9:45-10:00 A. & P. Program (ex. Sun.)	WCAO WTAR WDBJ WADO WHK WKBN
WEAF WTIC WJAR WTAG WCSH WRC	WWNC WBT WTOC WQAM WDAE WXYZ
WGY WCAE WTAM WWJ WOC KSD WHO WDAF WTMJ WEBC WRVA WPTF	WBCM WREC WLAC WBRC WDSU WISN WFBM KSCJ WMT KMOX WNAX KOIL
WIOD WFLA WSUN WHAS WSM WMC	WIBW KFJF KRLD KTSA WACO KOH
WSB WSMB WJDX WOAI WKY WBEN	KVOR KGB KFPY KFRC KDYL KLZ
WFI KSTP WIBO WGN WOW KPRC WEEI WFAA WAPI WJAX	CFRB 7:15-7:30 Linit Orchestra (ex. Sat. and Sun.)
12:00-12:30 Don Bigelow and His Orchestra (ex. Sun.)	WABC WOKO WFBL WHEC WGR WEAN
WABC WOKO KFBL WHEC WGR WLBZ	WDRC WNAC WORC WCAU WJAS WMAL
WEAN WDRC WNAC WORC WPG WCAU WHP WJAS WLBW WMAL WCAO WTAR	WCAO WADC WKRC WSPD WBBM WCCO WMT KMOX KMBC KOIL CFRB
WDBJ WKBN WWNC WBT WTOC WDBO	7:30-7:45 Phil Cook, The Quaker Man. (ex. Sat. and Sun.)
WXYZ WBCM WSPD WDOD WREC WLAC	WJZ WBZ WBŽA WENR KFYR WDAY
WBRC WDSU WISN WTAQ WFBM KSCJ KMOX KMBC KLRA KOIL KFH KFJF	WBAL WGAR KDKA WREN KWK KFAB WTMJ KSTP WHAM WEBC WLW WRC
KRLD KTSA WACO KVOR	KOA KSL
12:30-1:00 Columbia Revue (ex. Sat. and Sun.)	7:45-8:00 Camel Quarter Hour-Morton Downey (ex. Sun.)
WABC WOKO WFBL WHEC WGR WLBZ WEAN WDRC WNAC WORC WPG WIP-	WABC WOKO WFBL WHEC WGR WLBZ WEAN WDRC WNAC WORC WCAU WHP
WFAN WHP WJAS WLBW WMAL WCAO	WJAS WMAL WCAO WTAR WDBJ WWVA
WTAR WDBJ WKBN WWNC WBT WTOC	WADC WHK WKRC WCAH WKBN WWNC
WDBO WXYZ WSPD WDOD WREC WLAC WDSU WISN WTAQ WOWO KSCJ WMT	WBT WTOC WQAM WDBO WDAE WXYZ WSPD WOWO WMAQ KMBC WSJS
KMBC KLRA KOIL KFH KFJF KRLD	7:45-8:00 The Goldbergs — Comedy Sketch (ex. Sun.)
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
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 WORC WNAC WORC WPG WCAU
WJDX WBAL WSB KWK KOA WBZ	WABC WOKO WFBL WHEC WGR WLBZ WEAN WDRC WNAC WORC WPG WCAU WHP WJAS WLBW WMAD WCAO WTAR WDBJ WADC WHK WKRC WCAH WWNC
WBZA KTHS WFLA WSUN WJAX KFAB KPRC KDKA WLW WPTF WSM WDAY	WBT WTOC WQAM WDBO WDAE WXYZ
KPRC KDKA WLW WPTF WSM WDAY KFYR WSMB WFAA WTMJ WIOD WIBA	WSPD WNOX WTAQ KFH WBTM
KYW	10:30-10:45 Ulars, Lil and Em (ex. Sun and Mon.)
3:00-3:30 Columbia Salon Orchestra (ex. Sat. and Sun.)	WJZ WBAL WHAM KDKA WJR KWK WREN WGAR WBZ WBZA WGN 11:00-11:15 Amos 'n' Andy (ex. Sun.)
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 WKEN WDAF WIMJ KECA
WDBO WXYZ WBCM WSPD WDOD WLAC	KSL WHAS WSM WGAR WSB WKY WENR WJR KSTP WSMB WJDX KTHS
WDSU WISN WTAQ WGL WFBM WMAQ KSCJ WMT KMBC KLRA KFH KFJF	KPRC WEBC KGO KHQ KOMO KGW
KSCJ WMT KMBC KLRA KFH KFJF KTRH KTSA KVI KFPY KFRC KLZ	KFSD WOAI WMC KOA KFAB WBAP
KVOR	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
WEAF WTIC WEEL WJAR WSAL KYW	WSAI WTAM WFAA WWJ WMC WSMB
KSD WOC WTAG WCSH WFI WRC 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

	The state of the s
11:15-11:30 Pryor's Cremo Military Band (ex. Sun.) WKBN WGST WBCM WLAP WDOD WREC	WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WDSU WISN WTAQ WCCO
WLAC WBRC WDSU WISN WOWO WFBM WMAQ WCCO KSCJ WMT KMOX KMBC KLRA WNAX KOIL WIBW KFJF WRR	KSCJ WMT KMBC KOIL WIBW KFJF KTSA KOH KOL KVI KFPY KDYI, KLZ CFRB
KLRA WNAX KOIL WIBW KFJF WRR KTRH KTSA WACO KOH KMJ KFBK	3:00.3:30 Moonehine and Hanavaualda
KOL KVI KFPY KOIN KFRC KHJ KDYL KLZ	3:00-3:30 Moonshine and Honeysuckle WEAF WTIC WEEI WJAR WTAG WLIT WRC WTAM WWJ KYW KSD WOC
11:30-11-45 Camel Quarter Hour-Morton Downey (ex.Su.) WGST WDOD WREC WLAC WNOX WBRC	WGY WBEN WHO WDAF WOW CFCF WCSH WCAE CKGW
WDSU WISN WFBM WCCO KSCJ WMT	3:00-4:00 Symphonic Hour — Tosha Seidel WABC WOKO WFBL WHEC WKBW WLBZ
WRR KTRH KTSA WACO KOH KOL KVI KFPY KOIN KFRC KHJ KDYL	WEAN WORC WAAB WCAU WHP WJAS WLBW WMAL WCAO WDBJ WKBN WWNC
KLZ KGB 11:30-11:45 Russ Columbo	WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN
WJZ WBAL WHAM WJR WENR WRC KFYR WIBA WSB	WTAQ WGL WFBM WMAQ WGCO KSCJ WMT KMBC KLRA KOIL KFH KEJF
12:30-1:00 Ann Leaf at the Organ WABC WOKO WKBW WEAN WNAC WPG	KRLD KTRH KTSA WACO KVI KFPY KDYL KLZ KVOR
WCAO WTAR WDBJ WADC WKBN WBT WTOC WQAM WDBO WDAE WXYZ WREC	3:00-4:00 The Friendly Hour WJZ WBAL KDKA KWK WREN KFAB
WLAC WĎSU WISN WFBM WCCO WMT KMBC WNAX KOIL WIBW KFH KFJF	WRVA WJAX KFYR WIOD KVOO WFLA WSUN KOA KSTP WEBC WKY KHQ
KRLD KTSA KOH KVOR KOL KFPY KDYL KLZ	WSB WGAR WDAY WJDX WSMB WFAA WBZ WBZA WSM WMC KGO WOAI
Sunday	WIBO WIBA (KTHS off 3:30) 3:30-4:00 Balkan Mountain Men
12:15-12:30 Echoes of the Orient WEAF WGY WTAM WDAF WCSH WCKY WTIC WLIT WBEN WOC WHO WCAE	WEAF WTIC WJAR WTAG WCSH WRC WGY WBEN WCAE WTAM WWJ WSAI KSD WDAF CKGW WLIT WEEI WENR
WTIC WLIT WBEN WOC WHO WCAE WENR WOC 12:30-1:00 Troika Bells	KSD WDAF CKGW WLIT WEEI WENR 4:00-5:00 Cathedral Hour WABC WOKO WFBL WHEC WKBW WLBZ
W.IZ. WBAL KWK WGAR KDKA WLW	WEAN WORC WAAB WCAU WHP WJAS
KFAB KFYR KOMO KFSD WHAM WTMJ WPTF WFLA WSUN WSM WAPI WKY KOA KECA KTAR KPO WHAS WSMB	WMAL WCAO WDBJ WHK WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN
KGO KSTP 1:15-1:45 Pop Concert Walter Logan	WOWO WFBM KSCJ KMOX KMBC KLRA KOIL KEH KEJE KELD KTEH WACO
WEAF WTIC WEEI WJAR WCSH WFI WRC WGY WBEN KGW KOMO KPO	KVI KFPY KDYL KLZ KVOR
KECA KGO KOA WHAS KFYR WDAY WCAE WTAM WWJ WIBO WOC WHO	4:00-5:00 National Sunday Forum WEAF WTIC WEEI WJAR WCSH WTAG KOA WOW WKY WOAI WSAI WJAX
WDAF WTMJ WENR WSMB WAPI KSL	WHAS WJDX KPRC WEBC WDAF WWJ WLIT WFLA WSUN KHQ KOMO WHO WOC WRC KGW WGY WSM WSB
1:30-2:00 Gypsy Trail WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WORC WPG WCAU	WSMB WBEN WRVA WIOD KPO WDAY
WHP WJAS WMAL WDBJ WHK WKBN WWNC WBT WTOC WDBO WXYZ WBCM	KFYR KSD WFAA 5:00-5:30 Pastorale — Andre Kostelanetz, Conductor WABC WOKO WFBL WGR WEAN WDRO
WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WTAQ WGL WMAQ WCOO KSCJ WMT KMOX KMBC KOIL KFJF KTRH	WNAC WORC WHP WJAS WLBW WCAO
WMT KMOX KMBC KOIL KFJF KTRH KTSA KVI KFPY KDYL KLZ KVOR 2:00-2:30 Ann Leaf at the Organ	WTOC WQAM WDBO WDAE WXYZ WBCM
WABC WOKO WFBL WKBW WLBZ WEAN WDRC WNAC WORC WHP WJAS WMAL	WREC WBRC WDSU WISN WOWO WFBM KSCJ KMBC KOIL WIBW KFH KFJF KRLD KOH KVOR KDYL KLZ CFRB
WDBJ WWVA WADC WHK WKBN WBT	5:00-6:00 Sabbath Reveries WJZ WBAL WHAM KWK WIOD WJDX
WREC WLAC WBRC WDSU WISN WTAQ WCCO KSCJ WMT KMBC KOIL WIBW	KOMO WFLA WSUN KTAR KGO KHQ WLW WREN CKGW KGW WOAI WBZ
KFJF KTSA KOH KOL KVI KFPY KDYL KLZ CFRB	WBZA WGAR WJAX WSMB WDAY WRVA KFAB WSM WMC WBAP WKY KDKA
2:15-2:30 The Caribbeans Dance Band	WEBC WIBA
WEAF WTIC WTAG WEEI WJAR WLIT WRC WGY WBEN WCAE WTAM WWJ	5:00-6:00 Gilbert and Sullivan Gems WEAF WTIC WJAR WTAG WRC WCSH WGY WWJ WFI WBEN WTAM WSAI
WSMB KOA KGO KGW KECA KFSD	WOC WHO WDAF CFCF WCAE WEEL
KTAR KFYR KSL 2:30-3:00 NBC Artists Service Program WEAF WTIC WOW WWJ KSD WRC	WOW 6:00-7:00 Catholic Hour
WTAM WCSH WDAF WLIT WBEN WEEL	WEAF WTIC WEEL WJAR WTAG WRC WCSH WGY WWJ WEBC WIOD WKY
CKGW 2:30-3:00 Yeast Foamers WIN WIN WIN WIN WORLD WIN	WJDX WSMB KSTP WCAE KOMO KSD KGW WOC KECA KTAR WHO WDAY
WJZ WBAL WBZ WBZA WGAR WJR WLW KDKA KYW KWK WREN KFAB	WJAX WFLA WSUN WMC WSB WBAP KPRC WOAI WRVA WDAF KOA KVOO WSM KPO WBEN WOW WENR KFYR
WTMJ KSTP WEBC WRVA WPTF WIOD WFLA WSUN WSM WSB WJAX WHAS WADL WIDY WSMR KTHS KYOO KOMO	WLIT KTHS WSAI
WAPI WJDX WSMB KTHS KVOO KOMO WFAA WKY WOAI KOA KSL KPO KECA KGW KHQ KTAR KFSD	6:35-7:00 Radio Luminaries — 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	7:00-7:25 Russian Singers WEAF WTIC WCSH WRC WCAE WWJ
WABC WOKO WFBL WKBW WLBZ WEAN WDRC WNAC WORC WPG WHP WJAS WCAO WDBJ WWVA WADC WKBN WBT	WSAI WOC WHO WDAF WTAG WJAR WBEN WENR WOW
HOAD HIDD HITA WADO WADN WIL	ADDIT WIND WOW

7:00-7:30 Over Jordan WJZ WHAM WJR KWK WREN KFAB	9:30-10:00 Around the Samovar
WIAM WILL KWA WREN KEAD	WABC WOKO WFBL WKBW WLBZ WEAN
7:00-7:30 Over Jordan WJZ WHAM WJR KWK WREN KFAB CFCF KSTP WDAY KFYR WRVA WJAX WIOD WFLA WSUN WHAS WSM WSB WAPI WJDX KVOO KPRC WKY WIBO WSMB 7:15-7:30 Fray and Braggiotti — Piano Team WABC WOKO WFBL WGR WLBZ WDRC WNAC WORC WHP WMAL WCAO WTAR WDBJ WWVA WADC WMWAL WCAO WTAR WDBJ WWVA WADC WMORC WHAC WBRC WDSU WTAQ WOWO WBM WCO WSCJ WAT KMOX KMBC KOII, WIBW KFH KFJF WACO KOH KVOR KGB KOL KVI KFPY KHJ KVOR KGB KOL KVI KFPY KHJ KYJE WACO WABC WABC WFBL WGR WLBW WMAL WCAO WADC WHK WKRC WAYZ WSPD WISN WOWO WFBM WBBM WCCO KMOX KMBC KOLL 7:30-8:00 lodent Club of the Air WEAF WJAR WTAG WCSH WLIT WGAY WLS	WDRC WNAC WORC WJAS WLBW WMAL
WAPI WJDX KVOO KPRC WKY WIBO	WBT WTOC WQAM WDBO WDAE WXYZ
WSMB 7:15-7:30 Fray and Braggiotti Piano Team	WLAC WBRC WDSU WISN WOWO WFBM
WABC WOKO WFBL WGR WLBZ WEAN	WIBW KFJF KRLD KTSA KOH KVOR
WDRC WNAC WORC WHP WJAS WLBW	KGB KOL KVI KFPY KFRC KHJ
WWNC WBT WTOC WQAM WDAE WXYZ	9:45-10:15 Kellogg Slumber Music
WBCM WLAC WBRC WDSU WTAQ WOWO	WJZ WBAL WBZ WBZA WHAM KDKA
KOIL WIBW KFH KEJF WACO KOH	10:15-10:45 Ted Weem's Orchestra
KVOR KGB KOL KVI KFPY KHJ	WEAF WEEL WTIC WJAR WTAG WCSH
7:30-7:45 Daddy and Rollo	WFI WRC WGY WBEN WCAE WTAM
WABC WFBL WGR WEAN WNAC WCAU	WDAF WTMJ KSTP WEBC WHAS WSM
WLBW WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WOWO WERM WRRM	WMC WSB WAPI WSMB WJDX WOAI
WCCO KMOX KMBC KOIL	KOMO KHQ KTAR KFSD KFI KPRC
7:30-8:00 Ident Club of the Air WEAF WJAR WTAG WCSH WLIT WRC WGY WBEN WCAE WWJ WSAI WLS	KSL
WGY WBEN WCAE WWJ WSAI WLS	WABC WOKO WFBL WHEC WKBW WLBZ
KSD WDAF	WEAN WORC WNAC WORC WCAU WHP
WABC WOKO WFBL WHEC WGR WLBZ	WWNC WRT WTOC WDBO WXYZ WSPD
WEAN WDRC WORC WIP-WFAN WHP	WDOD WREC WLAC WBRC WDSU WISN
WKBN WWNC WBT WTOC WDBO WXYZ	WOWO WEBM WCCO KSCJ WMT KMOX
WBCM WSPD WDOD WREC WLAC WBRC	KTSA KVI KFPY KFRC KDYL KLZ
WMT KMOX KMBC KLRA KOIL KEH	KVOR
KFJF KTRH WACO KVI KFPY KFRC	WEAF WEEL WCSH WRC WGY WDAF
KDYL KLZ KVOR 8:00-8:15 Fpps Jottick Molediae	CKGW WTMJ KSTP WCAE WTAM WWJ
WJZ WBZ WBZA WBAL WHAM WLW	WHAS WSM WJDX KPRC WKY KOA
WJR WGAR KYW KDKA KWK WREN	KGO KGW KTAR WSB KSD WRVA
KFYR WRVA WPTF WIOD WFLA WSUN	WFI WBEN WJAR WAPI WDAY KFYR
WHAS WSM WMC WSB WAPI WSMB	KHQ WPTF WOAI KSL WFAA
WKY WIBA KOA KSL KPO KFI	WABC WOKO WFBL WHEC WKBW WLBZ
KGW KOMO KHQ KTAR KFSD	WEAN WORC WNAC WPG WCAU WHP
WARC WEDI WHEC WCD WEAN WING	WLBW WMAL WDBJ WWNC WBT WTOC
WADO WIDD WHEO WOR WEAR WORD	WIDED WXYZ WSPD WDUD WREC WBRC
WNAC WCAU WJAS WMAL WCAO WADC	WDSU WISN WFBM WCCO KSCJ WMT
WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WGST WXYZ WSPD WREC WBRC WDSU WISN WOWO WFBM WMAO	WDBO WXYZ WSPD WDOD WREC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KLRA WNAX KOIL KFJF KRLD KTBH KTSA KVI KEPY KDYL KLZ
WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WGST WXYZ WSPD WREC WBRC WDSU WJSN WOWO WFBM WMAQ WCCO KSCJ KMOX KMBC KOIL WJBW	WDBU WISN WFBM WCCO KSCJ WMT KMOX KLRA WNAX KOIL KFJF KRLD KTRH KTSA KVI KFPY KDYL KLZ KVOR
WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WGST WXYZ WSPD WREC WBRC WDSU WISN WOWO WFBM WMAQ WCCO KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KVI KFPY KOIN KFBC KHI KLZ	WDBU 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 WARC WORD WEBL WHEC WKBW WLBZ
WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WGST WXYZ WSPD WREC WBRC WDSU WJSN 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	WDBU 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
WCCO KMOX KMBC KOIL 7:30-8:00 lobent Club of the Air WEAF WJAR WTAG WCSH WLIT WRC WGY WBEN WCAE WWJ WSAI WLS KSD WDAF 7:45-8:00 The Boswell Sisters WABC WOKO WFBL WEAN WDRC WORC WIP-WFAN WHP WJAS WLBW WMAL WCAO WDBJ WHK WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC KLRA KOIL KFH KFJF KTRH WACO KVI KFPY KFRC KDYL KLZ KVOR 8:00-8:15 Enna Jettick Melodies WJZ WBZ WBZA WBAL WJR WGAR KYW KDKA KWK WREN KFAB CFCF WTMJ KSTP KFYR WRVA WPTF WIOD WHAS WSM WMC WSB WAPI WSMB WJDX KTHS WFAA KPRC WJZ WSW WSB WAPI WSMB WJDX KTHS WFAA KPRC KOO WOAI KGW KOMO KHQ KTAR KFSD 8:00-8:15 Devils, Drugs and Doctors WABC WFBL WHEC WGR WABC WFBL WHEC WGR WADC WAC WSD WAAL WCAO WHK WKRC WGST WXYZ WBC WBAC WFLA WOOD WHAS WSM WMC WSB WAPI WSMB WJDX KTHS WFAA KPRC WOO WOAI KGW KOMO KHQ KTAR KFSD 8:00-8:15 Devils, Drugs and Doctors WABC WFBL WHEC WGR WAAC WCAU WJAS WMAL WCAO WADC 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 WSAI KSD WOW	WDBU 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 WFT WTOC WDBO WYZY WSDD
WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WGST WXYZ WSPD WREC WBRC WDSU WISN WOWO WFBM WMAQ WCCO KSCJ KMOX KMBC KOIL WIBW WRR KTSA KOL KYI KFPY KOIN KFRC KHJ KLZ 8:00-9:00 Chase and Sanborn WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE WWJ WSAI KSD WOW WIOD KSTP WHO WOC WHAS WEBC	WDBU WISN WFBM WCOO 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
WNAC WCAU WIAS WMAL WCAO WADC 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 WEAR WTIC WARR WGY WCAE WWJ WSAI KSD WOW WIOD KSTP WHO WOC WHAS WEBC WMC WSB WSMB K7HS KPRC WTMJ WTAM WIDY WEIN WCIN WDAF WEEN	WDBU WAYZ WSPD WDOD WREC WBRC WDBU 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 WBAN WDRC WNAC WPG WCAU WHP WBAN WDRC WTOC WDBO WXYZ WSPD WWNC WBT WTOC WDBO WXYZ WSPD WDDD WREC WLAC WBRC WDSU WISN WFBM WCCO KSCJ WMT KMOX KMBC
WEAF WITC WARK WIAG WCSH WRC WGY WCAE WWJ WSAI KSD WOW WIOD KSTP WHO WOC WHAS WEBC WMC WSB WSMB KTHS KPRC WTMJ WTAM WJDX WFLA WSUN WDAF WBEN	WDBU WAYZ WFBM WCOO 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 WFBM WCOO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR
WEAF WITC WARK WIAG WCSH WRC 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	WDBU WAYZ WDBU 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 WFBM WCOO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR
WEAF WITC WARK WIAG WCSH WRC 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 KVOO WFAA WRVA	WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCOO KSCJ WMT KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR
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WEAF WILG WARE WARE	WUNC WHAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDDOD WREC WLAC WBRC WDSU WISN KERA WNAX KOLL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR MONCIAY 6:15-6:30 Kate Smith and Her Swanee Music WABC WOKO WFBL WGR WLBZ WDRC WAAB WORC WHP WLBW WMAL WCAO WDBJ WWVA WWNC WBT CFRB WTOC WAAB WORD 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 KFSB WSMB WHAM WIBO KFYR KGO KWK
WEAF WILG WARE WARE	WUNC WHAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDDOD WREC WLAC WBRC WDSU WISN KERA WNAX KOLL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR MONCIAY 6:15-6:30 Kate Smith and Her Swanee Music WABC WOKO WFBL WGR WLBZ WDRC WAAB WORC WHP WLBW WMAL WCAO WDBJ WWVA WWNC WBT CFRB WTOC WAAB WORD 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 KFSB WSMB WHAM WIBO KFYR KGO KWK
WEAF WILG WARE WARE	WUNC WHAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDDOD WREC WLAC WBRC WDSU WISN KERA WNAX KOLL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR MONCIAY 6:15-6:30 Kate Smith and Her Swanee Music WABC WOKO WFBL WGR WLBZ WDRC WAAB WORC WHP WLBW WMAL WCAO WDBJ WWVA WWNC WBT CFRB WTOC WAAB WORD 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 KFSB WSMB WHAM WIBO KFYR KGO KWK
WEAF WILG WARE WARE	WUNC WHAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDDOD WREC WLAC WBRC WDSU WISN KERA WNAX KOLL KFH KFJF KRLD KTRH KTSA KFPY KDYL KLZ KVOR MONCIAY 6:15-6:30 Kate Smith and Her Swanee Music WABC WOKO WFBL WGR WLBZ WDRC WAAB WORC WHP WLBW WMAL WCAO WDBJ WWVA WWNC WBT CFRB WTOC WAAB WORD 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 KFSB WSMB WHAM WIBO KFYR KGO KWK
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WEAF WILG WARE WARE	WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WFBM WCOO KSCJ WMT KMOX KMBC KLRA WNAX KOLL 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 WABB WORC WHP WLBW WMAL WCAO WDBJ WWVA WWNC WBT CFRB WTOC WQAM WDBO WDAE WBCM WREC WLAC WBRC WDSU WTAQ WOWO WCCO KSCJ

WCCO KMOX KMBC KOIL KFJF KRLD KTRH KTSA KDYL KLZ - Concert Organist 7:00-7:30 Archer Gibson -WEAF WTAG KSD KOA WOW CFCF
WHAS WJAR KSL KGO WJDX 10:00-10:45 True Story — Mary and Bob WEAF WJAR WEEI WTAG WCSH WLIT WRC WGY WBEN WCAE WTAM WWJ 7:15-7:30 Tastyeast Jesters
WJZ WCKY WHAM WBZ WBZA WREN
KDKA WRC WRVA WPYF WJAX WIOD
WBAL WGAR WFLA WSUN WENR WOC WSAI KSD WHO WOW WDAF 7:30-7:45 Miller and Lyles — Comic Negro Dialogues
WABC WFBL WGR WLBZ WORC WJAS
WLBW WMAL WTAR WDBJ WADC WHK
WKBN WWNC WBT WTOC WQAM WDAE WXYZ WBCM WREC WLAC WBRC WDSU
WXYZ WBCM WREC WLAC WBRC WDSU
WISN WTAQ WOWO WFBM WCCO KSCJ
KMOX KMBC KOIL KFH KFJF KRLD
KOH KVOR KLZ CFRB KOA KFI KOMO WSUN WHAS KGO KTAR KYW WKY KGW KHQTAR KYW WKY

10:30-11:00 Arabesque — Desert Play

WABC WOKO WFBL WHEC WKBW WLBZ

WEAN WDRC WNAC WORC WCAU WHP

WAS WLBW WMAL WDBJ WWNC WBT

WTOC WDBO WXYZ WBCM WSPD WDOD

WREC WBRC WDSU WISN

WNAX KOIL KFH KFJF KRLD KTRH

KTSA KYI KFPY KFRC KDYL KVOR 7:45-8:00 Paris Night Life WJZ WBAL WHAM WJR WGAR WLW KWK WREN KYW KFAB 8:00-8:30 Roxy Symphony Concert
WJZ WGAR WBAL WLS
WFLA WSUN WSM WSB WRC WJDX
WREN WFAA KOA WIOD 8:00-8:30 Soconyland Sketches WEAF WTIC WTAG WEEL WJAR WCSH 10:45-11:00 The Simoniz Guardsmen WBEN WGY WEAF WTIC WEEI WJAR WCSH WLIT WWJ WRC WGY WBEN WSAI WCAE KSD WTAM WENR WOC WHO WOW KSD WTAM WENR WOC WDAF CFCF WTAG 11:45-12:00 Bert Lown and His Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WDRC WAAB WORC WCAU WHP WLBW 8:30-9:00 Voice of Firestone WMAL WCAO WTAR WDBJ WWNC WBT
WTOC WDBO WXYZ WBCM WSPD WDOD
WREC WLAC WBRC WDSU WISN WGL
WFBM WCCO KSCJ WMT KMBC KLRA
WNAX KFJF KTRH KTSA WACO KDYL 8:45-9:00 Tastyeast Gloom Chasers KVOR VABC WFBL WGR WLBZ WEAN WDRC WAAC WORC WCAU WJAS WCAO WADC WHK KCAH WXYZ WSPD WDSU WOWO WFBM WBBM WCCO KMOX KMBC 12:00-12:30 Paul Whiteman and His Orchestra WEAF WRC KYW WTMJ WSM WOW WSB WGY WAPI Tuesday 9:00-9:30 A. & P. Gypsies 7:00-7:30 Mid-Week Federation Hymn Sing
WEAF WTIC WTAG WFI KSD WJDX
KOA KGO KECA KGW WEEI WBEN
WCAE WSAI WIBO WPTF WIOD WFLA
WSUN WSB WAPI WKY WTIC WEEI WTAG WJAR WCSH WRC WGY KSD WOC WHO WDAF WTAM WBEN WWJ WSAI WLIT WRC 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 7:30-7:45 Corner Drug Store
WEAF WTIC WEEI WJAR WTAG WRC
WCSH WBEN WGY WFI WCAE WSAI
WOC WHO WOW WDAF KYW WCAE WSAI \(\text{WOC} \) \(\text{WHO} \) \(\text{WOW} \) \(\text{WDAF} \) \(\text{KY} \)

7:45-8:00 \(\text{Back} \) \(\text{of the News in Washington } \)

WJZ \(\text{WHAM} \) \(\text{WENR} \) \(\text{WREN} \) \(\text{KREN} \) \(\text{WFIF} \) \(\text{WIF} \) \(\text{WFIF} \) \(\text{WIF} \) \(\text{WSUN} \) \(\text{WSM} \) \(\text{WMC} \) \(\text{WSM} \) \(\text{WMC} \) \(\text{WSM} \) \(\text{WRC} \) \(\text{WIF} \) \(\text{WRC} \) \(\text{WIF} \) \(\text{WRC} \) \(\text{WIF} \) \(\text{VIR} \) \(\text{V 9:00-9:30 Maytag Orchestra WJZ WBZ WBZ chestra WBZA WHAM KDKA WJR WERC WKY WOA KFAB WEBC WREN KSTP WIOD WFLA KWK KYW KOA KSL KGO KECA KHQ KOMO KVOO WLW WFAA WGAR WDAY KFYR WSM WMC KECA KGW WAPI WSMB WFAA KPRC WHAS WBAL KECA 8:00-8:30 Armstrong Quakers WJZ WBAL WBZ WBZA WJR KWK WREN WLW WTMI 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 WBZA WHAM KDKA WLS 8:00-8:30 Blackstone Plantation WEAF WTIC WEEI WJAR WTAG WCSH WFI WRC KSD WOC WGY WBEN WOC WSAI KMBC KOIL WCAE WTAM WWJ WSAI WOW WEBC KSTP KYW 9:30-10:00 General Motors Program
WESH WTAG WESH WTAG WIAY WHO 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 WEAF WTIC WEEL WJAR WLIT WGN KSTP WMC WJAX WSB WOAI WKY KFI WSAI KOA KSL KGO KPRC KOMO KHQ WRC WGY WHO 8:30-9:00 National Dairy Virtuoso
WEAF WRC WFI WEEI WTIC
WJDX WSMB WAPI WMC WSM
WHAS WSB WTAG WCSH WGY
WCAE WTAM WWJ WSAI KSD
WHO WOW KPRC KYW WBEN WTMJ KFYR WRC WCAE WTAM KSD WOC WOW WDAF WEEI WTIC WJAR WHAS WSM WFAA WDAR WBEN WEBC WRVA WPTF WJAX WIOD WSUN WSM WMC WSB WJDX WFAA WCAE WKY KOA KSL 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 WFLA WJDX KVOO KGW KOMO KHQ KGO 8:45-9:00 Walter Winchell
WABC WFBL WGR WEAN WDRC WNAC
WCAU WJAS WMAL WCAO WADC WXYZ 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 WSPD WOWO WJJD KMOX KOIL

9:00-9:30 Thrillers	
	WADC WHK WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC
WEAF WTIC WEEL WTAG WCSH WFI	WQAM WDBO WDAE WXYZ WBCM WREC
WRC WBEN WTAM WOW KOA KSL	WLAC WBRC WDSU WISN WTAQ WFBM
KGO KTAR KFSD KGW KOMO WOAL	WCCO KSCJ KMOX KMBC KOIL WIBW
WOC WHO KSTP WCAE WJAR WMC WDAY KVOO WKY WGY WEBC WIOD	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 WEAF WJAR KSD WSB KOA KGO
9:00-9:30 Hanry-George WABC WOKO WFBL WHEC WGR WEAN	WEAF WJAR KSD WSB KOA KGO KECA WGY WBEN WCSH WENR KFYR
WDRC WNAC WCAU WHP WJAS WMAL	WIBA WSM WJDX
WCAO WADO WHK WKRC WXYZ WSPD	7:15-7:30 Boscul Moments with Mme. Alda
WISN WOWO WBBM WCCO KMOX KMBC	WEAR WTIC WEEL WIAR WCSH WLIT
KOIL KFH	WRC WREN WENR WCAE WTAM
9:30-10:00 The Fuller Man	7:30-7:45 The Frigidarians
WEAF WTIC WJAR WTAG WCSH WFI WRC WBEN WGY WTAM WWJ KSD	WEAF WLIT KSD WTAG WHAS WSB
WRC WBEN WGY WTAM WWJ KSD	WAPI WJDX WJAR CFCF WFAA WTIC
WOC WHO WOW WDAF KOA WIMI	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 WOAI WKY 7:45-8:00 Esso Program "Believe It or Not" - Ripley
9:30-10:00 The Bristoleers	7:45-8:00 Esso Program "Believe It or Not" - Ripley
WABC WEBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WMAQ KMOX	WJZ WBAL KDKA WLW WRVA WPTF
WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WMAQ KMOX	WBZ WBZA WHAM
KMBC KOIL	8:15-8:30 Snoop and Peep WEAF WCSH WLIT WDAF KGO KGW
0.20 10.00 Dangay Lines of History	WEAF WCSH WLIT WDAF KGO KGW WHO WTAG WIOD WFAA KOA WCAE
WJZ WBAL WCKY WREN WBZ WBZA	CKGW WSM WOC ~
9:30-10:00 Danger Lines of History WJZ WBAL WCKY WREN WBZ WBZA WHAM WENR KDKA WIOD CKGW	8:15-8:30 Barbasel Program
10:00-10:15 Ren Rernie and His Orchestra	8:15-8:30 Barbasol Program WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS (WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WFBM WMAQ WCCO KMOX KMBC KOIL
WABC WFBL WEAN WDRC WNAC WCAU	WNAC WCAU WJAS (WMAT) WCAO WADC
WIAS WMAI 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	WARC WOKO WKBW WLBZ WDRC WAAR WORC WJAS WLBW WMAL WCAO WDBJ WWYA WADC WKBN WWNC WBT WTOC
KFPY KOIN KFRC KHJ KDYL KLZ	WORC WJAS WLBW WMAL WCAO WDBJ
10:00-11:00 Lucky Strike Dance Orchestra WEAF WTIC WEEI WJAR WTAG WCSH	WWVA WADC WKBN WWNC WBT WTOC
WEAF WTIC WEEL WJAR WTAG WCSH	WQAM WDBO WDAE WBCM WREC WLAC
WFI WRC WCAE WWJ WSAI KSD WOC WHO WTMJ WEBC WRVA WJAX	WBRC WDSU WTAQ WCCO KSCJ WMT KMOX KOIL KFH KFJF KRLD KTSA
WOC WHO WTMJ WEBC WRVA WJAX WIOD WFLA WSUN WHAS WSM WMC	KOH KVOR KDYL KLZ CFRB
WSB WSMB WJDX WOAI KOA KGO	8:30-9:00 Mobiloil Concert
WKY KGW KHO KOMO KTAR KFSD	WEAF WEEL WIAR WCSH WTAG WLIT
WDAF KVOO WTAM WBEN WOW WDAY	WRC WSAI KSD WOW WTAM KOA
KFI KSL KFYR KSTP WENR WPTF	KVOO WFAA WOAI WKY WTIC KSL
WGY WBAP WIBA (KPRC on 10:45 to 11:00)	WGY WEBC WDAF WCAE WHO WOC WWJ WBEN KSTP WTMJ WDAY KFYR
10:30-11:00 Nit Wit Hour	WWJ WBEN KSTP WTMJ WDAY KFYR
WABC WOKO WFBL WKBW WLBZ WEAN	
THE PARTY OF THE P	KYW
WNAC WORC WPG WHP WJAS WLBW	KYW
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WBBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9-00 Tastycast Gloom Chasers
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORG WCAII WJAS WCAO WADC
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WHK WCAH WXYZ WSPD WDSU WOWO
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDBC WTAR	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WCAO WADC WHK WCAH WXYZ WSPD WDSU WOWO
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casing Orchestra	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WCAO WADC WHK WCAH WXYZ WSPD WDSU WOWO
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casing Orchestra	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast 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 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYI. KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP	KYW 8:30-9:90 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:90 Tastyeast 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 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ
WNAC WORC WPG WMAL WCAO WOBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WCAO WADC WHK WCAH WYYZ WSPD WDSU WOWO WFBM WBBM WCCO KMOX KMBC 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WASC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WCAO WADC WHK WCAH WYYZ WSPD WDSU WOWO WFBM WBBM WCCO KMOX KMBC 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYI. KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDDD WREC WLAC WBRC WDSU	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WCAO WADC WHK WCAH WYYZ WSPD WDSU WOWO WFBM WBBM WCCO KMOX KMBC 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WOBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WODD WREC WLAC WBRC WDSU WISN WGL WFBM WCCO KSCJ WMT	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WCAO WADC WHK WCAH WYYZ WSPD WDSU WOWO WFBM WBBM WCCO KMOX KMBC 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WASC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WGL WFBM WCCO KSCJ WMT KMBC KLRA WNAX KFH KFJF KRLD	KYW 8:30-9:90 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:90 Tastyeast 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 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ WCCO KSCJ WMT KMOX KMBC KOIL KFH 9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT
WNAC WORC WPG WMAL WCAO WOBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDDO WREC WLAC WBRC WDSU WISN WGL WFBM WCCO KSCJ WMT KMBC KLRA KTRH KTSA WACO KVOR KFPY KRLD	KYW 8:30-9:90 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:90 Tastyeast 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 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ WCCO KSCJ WMT KMOX KMBC KOIL KFH 9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WGL WFBM WCOO KSCJ WMT KMBC KLRA WNAX KFH KFJF KRLD KTRH KTSA WACO KVOR KFPY KDYL	KYW 8:30-9:90 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:90 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WHK WCAH WXYZ WSPD WDSU WOWO WFBM WBBM WCOO KMOX KMBC 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ WCCO KSCJ WMT KMOX KMBC KOIL KFH 9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT WRAC WGY WOAE KOA KSL KGO KGW KOMO KHQ WSAI KSD WOCI
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WRC WLAC WBRC WDSU WISN WGL WFBM WCCO KSCJ WMT KMBC KLRA WNAX KFH KFJF KRLD KTRH KTSA WACO KVOR KFPY KDYL KLZ 12:00-12:30 Romanelli and His Orchestra WBC WFBL WHEC WKBW WLBZ WEAN	KYW 8:30-9:90 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:90 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WEAN WDRC WNAC WORC WCAU WJAS WHK WCAH WXYZ WSPD WDSU WOWO WFBM WBBM WCCO KMOX KMBC 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ WCCO KSCJ WMT KMOX KMBC KOIL KFH 9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT WRC WGW WCAE KOA KSL KGO KGW KOMO KHQ WSAI KSD WOC WHO WOW WWJ WSMB KPRC WOAI
WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WGL WFBM WCCO KSCJ WMT KMBC KLRA WNAX KFH KFJF KRLD KTRH KTSA WACO KVOR KFPY KDYL 12:00-12:30 Romanelli and His Ozchestra WABC WFBL WHEC WKBW WLBZ WEAN WNAC WPG WCAU WHP WLBW WCAO	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast 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 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WARC WCAU WJAS WAL WCAO WDBJ WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ WCCO KSCJ WMT KMOX KMBC KOIL KFH 9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WCAE KOA KSL KGO KGW KOMO KHQ WSAI KSD WOC WHO WOW WWJ WSMB KPRC WOAI WTMJ KSTP KYW WHAS WRVA WSM WTMJ KSTP KYW WHAS WRVA WSM WC WSB WBEN WTAM KFI CKGW
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WNAC WORC WPG WHP WJAS WLBW WMAL WCAO WOBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WGL WFBM WCOO KSCJ WMT KMBC KLRA WNAX KFH KFJF KRLD KTRH KTSA WACO KVOR KFPY KDYL KLZ 12:00-12:30 Romanelli and His Orchestra WABC WFBL WHEC WKBW WLBZ WTAR WDBJ WKBN WWNC WBT WNAC WPG WCAU WHP WLBW WCAO WTAR WDBJ WKBN WSPD WDOD WREC WLAC WBRC WDSU WTAR WDBJ WKBN WWNC WBT WDBO WXYZ WBCM WTAR WDBJ WKBN WSPD WDOD WREC WLAC WBRC WDSU WCOO KSCJ WMT KMSN WGL WFBM WSPD WDOD WREC WLAC WBRC WDSU WKSN WGL WFBM WCOO KSCJ WMT KKBN WGL WFBM WCOO KSCJ WMT KMSN WGL WFBM WNAC WPG WCAU WHP WLBW WCAO WTAR WDBJ KKBN WSPD WDOD WREC WLAC WBRC WDSU WKMN KMOX KMBC KLRA WNAX KOIL KFH KFJF KRLD KTRH KTSA WACO KVOR KFPY KFRC KDYL	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast 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 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ WCCO KSCJ WMT KMOX KMBC KOIL KFH 9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WCAE KOA KSL KGO KGW KOMO KHQ WSAI KSD WOC WHO WOW WWJ WSMB KPRC WOAI WTMJ KSTP KYW WHAS WRVA WSM WJAX KVOO 9:30-10:00 Eno Crime Club WABC WFBL WKBW WEAN WCAU WJAS WMAL WCAO WADC WHK WKC WXYZ WSPD WOWO WMAQ KMOX KMBC KOIL CFRB 9:30-10:00 Unter Masters Program
WNAC WORC WPG WMAL WCAO WOBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WGL WFBM WCCO KSCJ WMT KMBC KLRA WNAX KFH KFJF KRLD KTRH KTSA WCO KVOR KFPY KDYL KLZ 12:00-12:30 Romanelli and His Otchestra WABC WFBL WHEC WNAC WPG WCAU WHP WLBW WCAO WTAR WDBJ WKBN WHOW KFPY KOPYL KLZ 12:00-12:30 Romanelli and His Otchestra WABC WFBL WHEC WKBW WLBZ WEAN WNAC WPG WCAU WHP WLBW WCAO WTAR WDBJ WKBN WNC WBT WOO WTAR WDBJ WKBN WOCO KSCJ WMT KLZ 12:00-12:30 Romanelli and His Otchestra WABC WFBL WHEC WLAC WBRC WDSU WHP WLBW WCAO WTAR WDBJ WKBN WNC WBT WOO WTAR WDBJ WKBN WNC WBT WTOC WLAC WBRC WDSU WSPD WDOD WREC WLAC WBRC KFPY KFFR KRLD KFFF KRLD KTSA KAC KVOR KFFF KRLD KFFF KRLD KTSA KAC KVOR KFFF KRLD KFFF KRLD KTSA KAC KVOR KFFF KRLD KF	KYW 8:30-9:90 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:90 Tastyeast 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 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ WCCO KSCJ KMBC KOIL KFH 9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WCAE KOA KSL KGO WHO WOW WWJ WSMB KPRC WOAI WHMJ KSTP KYW WHAS WRVA WSM WMC WSB WBEN WTAM KFI CKGW WJAX KVOO 9:30-10:00 Eno Crime Club WABC WFBL WKBW WEAN WDRC WGAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WMAQ KMOX KMBC KOIL CFRB 9:30-10:00 Dutch Masters Program WJZ WBAL WBZ WBZA WHAM WGAR
WNAC WORC WPG WMAL WCAO WOBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WGL WFBM WCCO KSCJ WMT KMBC KLRA WNAX KFH KFJF KRLD KTRH KTSA WCO KVOR KFPY KDYL KLZ 12:00-12:30 Romanelli and His Otchestra WABC WFBL WHEC WNAC WPG WCAU WHP WLBW WCAO WTAR WDBJ WKBN WHOW KFPY KOPYL KLZ 12:00-12:30 Romanelli and His Otchestra WABC WFBL WHEC WKBW WLBZ WEAN WNAC WPG WCAU WHP WLBW WCAO WTAR WDBJ WKBN WNC WBT WOO WTAR WDBJ WKBN WOCO KSCJ WMT KLZ 12:00-12:30 Romanelli and His Otchestra WABC WFBL WHEC WLAC WBRC WDSU WHP WLBW WCAO WTAR WDBJ WKBN WNC WBT WOO WTAR WDBJ WKBN WNC WBT WTOC WLAC WBRC WDSU WSPD WDOD WREC WLAC WBRC KFPY KFFR KRLD KFFF KRLD KTSA KAC KVOR KFFF KRLD KFFF KRLD KTSA KAC KVOR KFFF KRLD KFFF KRLD KTSA KAC KVOR KFFF KRLD KF	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WJZ WBAL WHAM KDKA WGAR WJR WWW WLS 8:45-9:00 Tastyeast Gloom Chasers WABC WFBL WGR WLBZ WCAO WADC WHK WCAH WXYZ WSPD WDSU WOWO WHK WCAH WXYZ WSPD WDSU WOWO 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WABC WOKO WFBL WKBW WEAN WDRC WABC WOKO WFBL WKBW WEAN WDRC WABC WGW WJAS WMAL WCAO WDBJ WADC WHK WKRC WXYZ WFBM WMAQ WCCO KSCJ KMBC KOII, KFH 9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WCAE KOA KKW KOMO WWJ WSAH KSD WOC WHO WOW WWJ WSAH KSD WOC WHO WOW WWJ WSAH KSD WOC WHO WOW WWJ WSAB KPRC WOAI WTMJ KSTP KYW WHAS WRVA WSM WMC WSB WBEN WTAM KFI CKGW WJAX KVOO 9:30-10:00 Eno Crime Club WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WMAQ KMOX KMBC KOIL CFRB 9:30-10:00 Dutch Masters Program WJZ WBAL WBZ WBZA KDKA WJR WLW WENR KWK WREN
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WNAC WORC WPG WMAL WCAO WOBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KRLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDDO WREC WLAC WBRC WDSU WISN WGL WFPM WCCO KSCJ WMT KMBC KLRA KTRH KTSA WACO KVOR KFPY KDYL 12:00-12:30 Romanelli and His Orchestra WABC WFBL WHEC WKBW WLBZ WADC WFBL WHEC WKBW WLBZ WEAR WDBJ WKBN WWNC WBT WTOC WLAC WBRC WDSU WKOC KSCJ WMT KMOX KOIL KFH KFJF KRLD KTBA WACO KVOR KFPY KFRC KDYL KIZ 12:00-12:30 Rudy Vallee and His Connecticut Yankees WEAF WTIC WRC WDAF WDAY WBEN WWJ WBA KFYR WHAS	KYW 8:30-9:00 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:00 Tastyeast 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 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WARC WCAU WJAS WMAL WCAO WDBJ WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ WCCO KSCJ WMT KMOX KMBC KOIL KFH 9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WCAE KOA KSL KGO KGW KOMO KHQ WSAI KSD WOC WHO WOW WWJ WSMB KPRC WOAI WHO WOW WWJ WSMB KPRC WOAI WHO WSB WBEN WTAM KFI CKGW WJAX KVOO 9:30-10:00 Eno Crime Club WABC WFBL WKBW WEAN WJAX KVOO 9:30-10:00 Eno Crime Club WABC WFBL WKBW WEAN WCAU WJAS WMAL WCAO WKRC WXYZ WSPD WOWO WMAQ KMOX KMBC KOIL CFRB 9:30-10:00 Dutch Masters Program WJZ WBAL WBZ WBZA KDKA WJR WLW WEAF WTIC WEEI WJAR WTAG WCSH WIT WPC WGY WCAE WAAF WCAN WCAF WTIC WEEI WJAR WTAG WCSH WIT WRC WGY WCAE WAAF WCAN
WNAC WORC WPG WMAL WCAO WOBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WOWO WFBM WCCO KSCJ WMT KMOX KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KFPY KDYL KRLZ CFRB WDRC WTAR 11:45-12:00 Asbury Park Casino Orchestra WABC WOKO WFBL WHEC WKBW WLBZ WEAN WDRC WAAB WORC WCAU WHP WLBW WMAL WCAO WTAR WDBJ WKBN WWNC WBT WTOC WDBO WXYZ WBCM WSPD WDDO WREC WLAC WBRC WDSU WISN WGL WFPM WCCO KSCJ WMT KMBC KLRA KTRH KTSA WACO KVOR KFPY KDYL 12:00-12:30 Romanelli and His Orchestra WABC WFBL WHEC WKBW WLBZ WADC WFBL WHEC WKBW WLBZ WEAR WDBJ WKBN WWNC WBT WTOC WLAC WBRC WDSU WKOC KSCJ WMT KMOX KOIL KFH KFJF KRLD KTBA WACO KVOR KFPY KFRC KDYL KIZ 12:00-12:30 Rudy Vallee and His Connecticut Yankees WEAF WTIC WRC WDAF WDAY WBEN WWJ WBA KFYR WHAS	KYW 8:30-9:90 Jack Frost's Melody Moments WJZ WBAL WHAM KDKA WGAR WJR WLW WLS 8:45-9:90 Tastyeast 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 9:00-9:30 Gold Medal Fast Freight WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WDBJ WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ WCCO KSCJ KMBC KOIL KFH 9:00-9:30 Halsey Stuart Program WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WCAE KOA KGW KOMO KHQ WSAI KSD WOC WHM WWW WWJ WSMB KPRC WOAI WHM KSTP KYW WHAS WRVA WSM WJAX KVOO 9:30-10:00 Eno Crime Club WABC WFBL WKBW WEAN WGAU WJAS WMAL WCAO WADC WKRC WXYZ WSPD WOWO WMAQ KMOX KMBC KOIL CFRB 9:30-10:00 Dutch Masters Program WJZ WBAL WBZ KDKA WJR WLW WENR KWK WREN 9:30-10:30 Palmolive Hour WEAF WTIC WEEI WJAR WTAG WCSH WTMJ KSTP KYW WEAS WHAM WGAR KDKA WJR WLW WENR KWK WREN
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5-10:30 Hernandez Brothers

WASC WOKO WFBL WHEC WKBW WLBZ
WEAN WDRC WNAC WORC WCAU WHP
WJAS WLBW WMAL WCAO WTAR WDBJ
WWNC WBT WTOC WXYZ WBCM WSPD
WDOD WREC WLAC WBRC WDSU WISN
WDOD WREC WLAC WBRC WDSU WISN
WHAM KDKA WGAR WJR WLW WISN
WHAM KDKA WGAR WJR WLW WISN
KWK WWNC WB1
WOOD WREC WLAC WBRC WDSU WISN
WOWO WFBM WMAQ WCCO KSCJ KMBC
WNAX KOIL KFH KFFF KRLD KTRH
KTSA KVOR KVI KFPY KFRC KDYL
WASC WOKO SFBL WKBW WEAN WDRC
WNAC WORC WHP
WASS WLBW WMAL
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WWAS WORL WHE
WAS WIBLI WWVA WADLO WHE | NASA | NYOR | NYI | NFRU | N KERG WOAI KOA WFAA KSL KGO
KGW KHQ KOMO KFSD WIDX WDAF
WHAS WTAM WHO WOW WMC WPTF
WSB WWJ WAPI WBEN KFI WGY
WTMJ WAR WFLA WSUN KTAR KVOO
CFCF WSMB WTAG
11:00-11:15 "The Voice of Radio Digest"
WEAF KSD WOC WHO WDO WTMJ WJAR WSUN KTAR KVOO
CFCF WSMB WTAG
11:00-11:15 "The Voice of Radio Digest"
WEAF KSD WOC WHO WRC WEEI
WJAR WCSH WGY WIBO WIOD WOW
WTAM
11:30-12:00 Vincent Lopez and His Orchestra
WEAF WRC WEEI WTAM WDAF WJD
WENR
11:45-12:00 Huston Ray and His Orchestra
WABC WORC WHO WAPI WOAI WOW WIOD
WENR
11:45-12:00 Huston Ray and His Orchestra
WABC WORC WHO WAPI WOAI WOW WIOD
WENR
11:45-12:00 Huston Ray and His Orchestra
WABC WORC WHO WAPI WOAI WOW WIOD
WENR
11:45-12:00 Huston Ray and His Orchestra
WABC WORC WHO WAPI WOAI WOW WIOD
WENR
WORC WFG WHP WLBW WMAL WCAO
WTAR WDBJ WWVA WADC WWNC WBT
WTOC WQAM WDBO WDAE WXYZ WBCM
WTAR WDBJ WWVA WADC WWNC WBT
WTOC WQAM WDBO WDAE WXYZ WBCM
WRCO KSCJ WMT KMBC WNAX WIBW
KFJF KRLD KTSA KOH KVOR KFPY
KFRC KDYL KLZ

WEAF WTIC WTAG WJAR WCSH WSAI
WEAF WTIC WTAG WJAR WCSH CKGW
WFI WCAE WJA WCAO
WBAN WTAR WDBJ WAA WUSH KFI
KFPC KDYL KLZ

WBEN KTAR KFSD KSTP WSB WMC
WEAF WIBW WEAN WDRC WNAC WNAC WHK WKBN WCAU WHK WKBN WCAU WHK WKBN WCAU WHK WKRC WXYZ WSPD WOWO WBBM
WMAL WGAO WHK WKBN WEAN WDRC WAAB WBM WHAL WCAO
WTAR WDBJ WAAD WHA WAL WCAO
WTAR WDBJ WAAN WIBW WTA WBT WTOC WQAM WDBO WDAE WXYZ
WBC WLAC WBRC WSYZ WBCM
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WTAM
UNGC WFBL WKBW WEAN WDRC WAAB WBBM WMT KMBC WNAX WIBW WTA WBT WTOC WQAM WDBO WDAE WXYZ
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WBRC WFBL WRBW WEAN WDRC WCAU
WHK WKRC WXYZ WSPD WOWO WBBM
WMAL WCAO
WTAR WBBU WAAL WCAO
WAR WBRC WOKO WFBL WKBW WEAN WTOC WAR WBBM WTA KMBC WNAX WIBW
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UNGC WFBL WKBW WEAN WDRC
WACA WAR WCAO WHK WKRC WXYZ WSPD WOWO WBBM
WTAM
WBRC WFBL WKBW WEAN WDRC
WACA WABC WKAC WXYZ WSPD WOWO WBM
WTAM
WACO WAD WAD WWAL WOW
WTAM
WEAF WTOC WQAM WDBO WDAE WXYZ
WABC WORC WHP WJAS WHAL WCAO
WTAR WDBJ WAAA WOO WHK WKRO
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UNGC WFBL WKBW WEAN WORL
WTAR WDBJ WAAA WOO WHK WKRO
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WAC WAC WWTO WTA
WAC WTB WCAU
WAAR WDBJ WAAA WOO WAAB
WTAM
WTAM
WAC WAC WWT WOO WOO WALL
WARC WALL WROW WAAL WCAO
WTAR WDBJ WAAA WOO WAAB
WTAM
WAC WOO WHA WOO WOO WALL

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WMC WSMB WJDX KVOO WDAF WJAX KPRC WTAM WEBC WRVA WFLA WSUN WSB WPTF WFAA KGO KGW WOC	9:00-9:30 Interwoven Program
WSB WPTF WFAA KGO KGW WOC	WJZ WHAM WMC KDKA WJAX WKY WREN KPRC KWK WBZ WBZA WSMB
WHO KFI KOMO KHQ KFSD KTAR	KGW WIOD WFLA WSUN KSTP WHAS
WENR WDAY KFYR WAPI KTHS on 10:30) WIBA (KSTP WHAS WSM KPRC off 10:30)	KYW WEBC WCKY WSB WAPI WBAL WOAL KSL KGO KOMO KHQ KFSD
10:15-10:30 The Columbians — Freddie Rich's Orchestra	WOAI KSL KGO KOMO KHQ KFSD KTAR WGAR KFI KOA WRVA WTMJ
WABC WOKO WFBL WKBW WLBZ WEAN	9:00-9:30 Clicquot Club
WDRC WORC WPG WHP WJAS WLBW	WEAF WTIC WEEL WJAR WTAG WCSH
WMAL WTAR WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ	WLIT WRC WOW WCAE WSAI KSD WIBO WWJ WDAF WOC WHO WGY
WBCM WLAC WBRC WDSU WISN WFBM	WDEN
WCCO KSCJ WMT KMBC WNAX KOIL	9:00-9:45 Liberty Magazine Hour
WIBW KFH KFJF KRLD KTSA KOH KVOR KGB KOL KVI KFPY KFRC	WABC WEBL WKBW WEAN WDRC WNAC WCAII WIAS WMAI WCAO WADC WHK
KHJ KDYL KLZ CFRB	WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WMAQ KMOX
10:30-10:45 Tito Guizar — Tenor	
WASC WEST WCO KSCJ WKPT KMDX KMBC WNAY WORL WRA WHORL WHAT WDBJ WADC WKBN WWAL WCAO WTAR WDBJ WADC WKBN WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WREC WLAC WBRC WDSU WISN WCCO KSCJ WMT KMDX KMBC WNAY KOLL WBW KFH KELL KDLD	9:30-10:00 Pond's Dance Program WEAF WTAG WJAR WCSH WLIT WRC
WMAL WCAO WTAR WDBJ WADC WKBN	WEAF WTAG WJAR WCSH WLIT WRC WCAE WENR KSD WOC WHO WOW WGY WBEN WTAM WWJ
WWNC WBT WTOC WQAM WDBO WDAE	WGY WBEN WTAM WWJ
WAYZ WBCM WREC WLAC WBRC WDSU WISN WCCO KSCI WMT KMOY KMDC	9:30-10:00 Armour Program WJZ WBZ WBZA WJR KYW WREN
WISA WCCO KSCJ WMT KMOK KMBC WNAX KOIL WIBW KFH KFJF KRLD KTSA KOH KVOR KGB KOL KFPY KHJ KDYL KLZ CFRB CKAC 10:45-11-00 Pater's Parada — From Reader Contrale	KSTP WEBC WRVA WMC WSB WOAI
KTSA KOH KVOR KGB KOL KFPY	KOA KSL KGO WKY WHAS KGW KHQ KOMO KDKAŁ WJAX WJDX WPTF WIOD WTMJ WAPI WHAM KFI WSM WLW WSMB WGAR WBAL WFAA KWK
KHJ KDYL KLZ CFRB CKAC	KHQ KOMO KDKA* WJAX WJDX WPTF
10:45-11:00 Peter's Parade — Irene Beasley Contralto WABC WKBW WJAS WCAO WDBJ WADC	WJZ WBZ WBZA WJR KYW WREN KSTP WEBC WRVA WMC WSB WOAI KOA KSL KGO WKY WHAS KGW KHQ KOMO KDKAF WJAX WJDX WPTF WIOD WTMJ WAPI WHAM KFI WSM WLW WSMB WGAR WBAL WFAA KWK KPRC 9:45-10:00 Friendly Five Footnotes WABC WFBL WKBW WEAN WNAC WCAU WJAS WMAL WCAO WHK WKRC WALU WJAS WMAL WCAO WHK WKRC WSW WMAQ WCCO KMOX KMBC KOIL KRLD
WHK WKRC WCAH WKBN WWNC WBT WIS WGST WTOC WQAM WDBO WDAE	KPRC
WIS WGST WTOC WQAM WDBO WDAE	9:45-10:00 Friendly Five Footnotes
WXYZ WBCM WSPD WLAP WDOD WREC WLAC WNOX WBRC WDSU WISN WOWO	WIAS WMAL WCAO WHK WKRC WRT
WBBM WCCO KSCJ WMT KMOX KMBC	WABC WFBL WKBW WEAN WNAC WCAU WJAS WMAL WCAO WHK WKRC WBT WXYZ WREC WLAC WNOX WDSU WFBM
WNAX KOIL WIBW KFH KFJF KRLD	WMAQ WCCO KMOX KMBC KOIL KRLD
	KLZ 10:00-10:30 Pillsbury Pageant
KOIN KFRC KHJ KDYL KLZ WMBG 11:00-11:15 Little Jack Little	WABC WOKO WFBL WKBW WEAN WDRC
WEAF WTIC WOW WFI WIOD WTAM	WNAC WCAU WJAS WMAL WCAO WTAR
WWJ WENR 11:45-12:00 Radio Roundup	WDBJ WADC WHK WKRC WGST WXYZ WSPD WREC WOWO WMAQ WCCO KMOX
WABC WOKO WFBL WHEC WKBW WDRC	KMBC KOIL KFJF KRLD KOL KVI
WAAB WORC WCAU WHP WLBW WMAL	KMBC KOIL KFJF KRLD KOL KVI KFPY KOIN KFRC KHJ KDYL KLZ 10:00-10:30 Paul Whiteman's Paint Men WJZ WBZ WBZA WBAL WHAM KDKA WJZ WBZ WBZA WBAL WHAM KDKA
WCAO WTAR WDBJ WWNC WTOC WDBO WXYZ WBCM WSPD WREC WLAC WBRC	WJZ WBZ WBZA WBAL WHAM KDKA
WDSU WISN WCCO KSCJ WMT KMBC	WJR WGAR KYW KWK KPRC KSTP
KLRA WNAX KOIL KFJF KRLD KTRH	WEBC WDAY KFYR WRVA WPTF WIOD
KISA KVOR KIPI KDIL KLZ	WFLA WSUN WHAS WSM WMC WSB WSMB WJDX WFAA WOAI KOA WKY
Friday	KSL KGO KFI KGW KOMO KHQ
7:00-7:45 Major Bowes' Family	WLW KFSD WJAX KTAR WAPI WTMJ
WEAF WJAR WCSH WCAE WWJ WENR WOC WHO KOA WSMB WOW KSD	10:30-10:45 The Bon Bons — Negro Quartette WABC WOKO WFBL WKBW WLBZ WDRC WNAC WORC WPG WHP WJAS WMAL WCAO WTAR WDBJ WADC WWNC WBT WTOC WQAM WDBO WDAE WXYZ WBCM WLAC WBRC WDSU WOWO KSCJ
WTAG WRC WGY WBEN WIBA WFLA	WDRC WNAC WORC WPG WHP WJAS
WSUN WHAS WSB WJDX WFAA WSM	WMAL WCAO WTAR WDBJ WADC WWNC
7:30-7:45 Red Nichols and His Orchestra WFBL WDRC WORC WCAU WHP WLBW	WBCM WLAC WBRC WDSU WOWO KSCI
WCAO WTAR WDBJ WKBN WWNC WBT	WMT KMBC WNAX KOIL WIBW KFH
WTOC WDBO WXYZ WBCM WSPD WREC	KFJF KTSA KOH KVOR KGB KOL
WLAC WBRC WDSU WISN WTAQ WFBM KSCJ KMBC KOIL KFH KFJF KTRH	WBCM WLAC WBRC WDSU WOWO KSCJ WMT KMBC WNAX KOIL WIBW KFH KFJF KTSA KOH KVOR KGB KOL KFPY KHJ KDYL KLZ CFRB WLBW 10:30-11:400 RKO Theater of the Air WEAF WILC WIAP WIAG WLIT WGV
KYOR KLZ	
8:00-8:30 Nestle's Program	WCAE WWJ WSAI WIBO KSD WDAF WRVA WJAX WIOD WMC WSB WSMB
WJZ WBZ WBZA WHAM KDKA WREN KFAB WJR WLW KWK WGAR WBAL	WRVA WJAX WIOD WMC WSB WSMB WOC WJDX KGO KTS WOAI WKY
WLS WCKY	WRC WCSH WTMJ KOA KGW KFI
8:00-9:00 Cities Service Concert Orchestra	KHQ KOMO KTAR KFSD WHO WOW WTAM KSL WFLA WSUN WBEN WDAY
8:00-9:00 Cities Service Concert Orchestra WEAF WTIC WEEI WRC KTHS KGW KVOO WGY WLIT WCAE WJAR WCSH	WTÁM KSL WFLA WSUN WBEN WDAY KFYR WEEI WPTF WAPI WENR WHAS
WOW KYW WDAF KSD KSTP WTMI	WIBA
WKY WOC WEBC KOA WOAI KOMO	11:00-12:00 Vincent Lopez and His Orchestra
KGO KHQ WTAG KSL CKGW WSAI WHO KECA WTAM WBEN WWJ KTHS	WEAF WOO WHO (WDAY on 11:15) (WOW on 11:45) (WGV WCAE off 11:30) (WTAM KED WWI
(WFAA KPRC off 8:30) KTAR	WEAF WOC WHO (WDAY on 11:15) (WOW on 11:45) (WGY WCAE off 11:30) (WTAM KSD WWJ WSB on 11:30) KVOO WEEI WBEN KFYR
8:15-8:30 Barbasol Program	WDAF WFLA WSUN
WABC WOKO WFBL WKBW WEAN WDRC	11:45-12:15 Jack Denny and His Orchestra
WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC	WJZ WBAL WHAM KSTP KDKA WGAR
WABC WOKO WEBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WFBM WMAQ WCCO KMOX KMBC KOIL	WIZ WBAL WHAM KSTP KDKA WGAR KOA WJR WENR WREN CFCF KFYR WIBA WSM
WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WIAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WFBM WMAQ WCCO KMOX KMBC KOIL 8:30-9:00 March of Time	WJZ WBAL WHAM KSTP KDKA WGAR KOA WJR WENR WREN CFCF KFYR WIBA WSM
WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WFBM WMAQ WCCO KMOX KMBC KOIL 8:30-9:00 March of Time WABC WFBL WGR WEAN WDRC WNAC	WJZ WBAL WHAM KSTP KDKA WGAR KOA WJR WENR WREN CFCF KFYR WIBA WSM Saturday
WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WMAQ WCCO KMOX KMBC KOIL 8:30-9:00 March of Time WABC WFBL WGR WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WBT WXYZ WSPD WLAC WDSU	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 WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WMAQ WCCO KMOX KMBC KOIL 8:30-9:00 March of Time WABC WFBL WGR WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WBT WXYZ WSPD WLAC WDSU WCCO KMOX KMBC KOIL KOL KVI	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 WAAB WPG WHP WMAL WCAO WDBJ
WABC WOKO WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WMAQ WCCO KMOX KMBC KOIL 8:30-9:00 March of Time WABC WFBL WGR WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WBT WXYZ WSPD WLAC WDSU	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

WTOC WQAM WDBO WREC WLAC WBRC WIBW KFJF KRLD KGB KOL KVI KLZ CFRB WFBM	WDSU WISN I	KOIL KVOR KDYL	WLW WIOD	KGW WOC		WTMJ KHQ WDÅY	KSL KTAR KFYR	KGO KFSD WPTF
5:30-5:45 Song Shoppe WEAF WTIC WWJ WBEN KSD WJAR WSB WTAM WOW 7:00-7:15 Nick Lucas	WCAE KSTP V	WRC KOA	WREN WIBA	KDKA KOMO	KSL KHQ WLW WGAR	KGO KFSD WEBC KYW	WTMJ KTAR WDAY KSTP	KWK
WEAF WTIC WFI KOA KGO WCSH 7:15-7:30 Political Situation William Wile WABC WOKO WFBL	WENR KFYR I in Washington—	WSB KSD Frederic WDRC	9:30-10:00 Na WABC WDRC WLBW	stional R WOKO WNAC WMAL	adio For WFBL WORC WTAR	um from WKBW WPG WDBJ WQAM	WLBZ WHP WADC	ton, D. C. WEAN WJAS WKBN WDAE
WAAB WORC WHP WDBJ WWNC WTOC WXYZ WBCM WREC WTAQ WOWO WCCO KOIL KFH KFJF	WJAS WLBW WWQAM WDBO WLAC WDSU WKSCJ KMOX I	WMAL WDAE WISN		WFBM KOIL KVOR	WLAC KSCJ KIBW KGB KDYL	WDSU WMT KFH KOL KLZ	WISN KMOX KFJF KVI	WTAQ
KGB KOL KVI KLZ WBT 7:15-7:30 Laws That Safeguar WEAF WJAR WTAG	KFPY KFRC I	TETT	9:30-10:00 ClowEAF WEAF WRC	ub Valspa WTIC WGY		WTAG WCAE WOC	WCSH WTAM	WFI WWJ WDAF
WBEN WOC WHO KGO WEEI KECA WJDX WDAY WENR 7:15-7:30 Tastyeast Jesters	WEBC WOAI I KOMO KTAR V WOW	KOA WTIC	KSTP WSB WOW	WEBC WAPI WTMJ	WRVA WSMB CKGW WJDX	WJAX WBAP WPTF WDAY	WHO WHAS KPRC WIOD KFYR	WMC WOAI WFLA
WJZ WHAM WCKY WBZA WBAL WRC WPTF WJAX WIOD 7:30-7:45 Sonata Recital WJZ WHAM WREN	WFLA WSUN	WRVA WLW		$egin{array}{l} ext{WBZ} \ ext{WREN} \end{array}$	CFCF	WHAM CKGW how Boat	WJR	WIBO WCKY
KDKA KWK KFAB KECA KFSD 7:30-7:45 Lee Morse — Croon WEAF WOC WHO	KOA KPO I er WJAR WDAF V	KGW WOW	WABC WDRC WMAL WBT	WOKO WNAC WTAR WTOC	WFBL WORC WDBJ WDBO	WHEC WPG WHK WXYZ	WKBW WCAU WKBN WBCM	WLBW WWNC WSPD
WRVA CFCF WTIC WRC WGY WBEN 8:00-8:30 Civic Concerts Serv WEAF WTIC WTAG WOC WHO WOW	WTAM WSM V rice Program WGY WCAE I	WFI WENR KSD WSAI	WACO	KSCJ KFH KVOR		KFPY	KTRH KFRC	WFBM WNAX KT A KDYL
WDAF WJAR WCSH 8:00-8:30 Teddy Black's Orch WJZ WBAL WHAM CKGW CFCF WIBO	WFI WBEN V estra WJR KWK V WRVA WFLA V	WREN	WWJ WOW	WRC WSAI WDAF	WGY WGN WTMJ	WBEN KSD KSTP	WOC WEBC	$\begin{array}{c} \text{WCSH} \\ \text{WTAM} \\ \text{WHO} \\ \text{WRVA} \end{array}$
WSPD KMOX KMBC	WCAO WADC V	WNAC	WSB WKY KOMO I		WFLA WJDX KSL KTAR	WSUN KVOO KGO KFSD	WHAS WFAA KFI WDAY	WMC WOAI KGW KFYR
8:30-8:45 Kate Smith and La WABC WFBL WHEC WPG WCAU WHP WKBN WWNC WBT WSPD WLAC WBRC	WDRC WAAB WLBW WTAR WDBO WXYZ	WDBJ WBCM	11:00-11:15 L WEAF WTAM	WTIC	WFI	WCAE		WGY
WFBM WMAQ KSCJ KLRA WNAX KOIL WACO KVOR KVI 8:30-9:00 Silver Flute	WMT KMOX I KFH KFJF I KFPY KFRC I	KTRH KDYL	WEAF WOW WTAM WIOD	WGY	WWJ	WDAF	WCAE	$^{\rm WHO}_{\rm WFI}_{\rm CFCF}$
WEAF WTIC WGY WJAR WWJ WSAI 8:45-9:00 Tastyeast Gloom Ch WABC WFBL WGR WNAC WORC WCAU	WTAG WCSH V	WOW WFI WDRC WADC	WABC WDRC WMAL WBT	WOKO WAAB	WFBL WORC WWVA	WKBW WPG	stra WLBZ WHP WHK WDAE	WEAN WLBW WWNC WXYZ
WHK WCAH WXYZ WFBM WBBM WCCO 9:00-9:15 The Boswell Sisters WABC WOKO WFBL	WSPD WDSU V KMOX KMBC	wowo	WBCM WFBM KOIL	WREC WCCO	WLAC KSCJ KFH	WBRC WMT KFJF KFRC	WDSU KMBC KRLD KDYL	WISN WNAX KTSA KLZ
WDRC WNAC WORC WLBW WMAL WCAO WKBN WWNC WBT WBCM WSPD WREC WISN WTAQ WFBM WMT KMOX KMBC KFJF KTRH KTSA KFRC KDYL	WPG WCAU WTAR WDBJ WTOC WDBO WLAC WBRC WMAQ WCCO WNAX KOIL KVOR KVI	WHP WHK WXYZ WDSU KSCJ KFH KFPY	WTAR 12:00-12:30 J WABC WNAC WTAR WBT WREC WCCO	Jack Pett WOKO WPG WWVA WTOC WLAC KMT	tis and I WFBL WHP WADC WQAM WBRC KMOX	His Orcho WKBW WLBW WHK WDBO WDSU KMBC	WLBZ WMAL WKBN WDAE WISN WNAX	WEAN WCAO WWNC WBCM WFBM KOIL
WSAI WIBO KSD	WTAG WCSH WCAE WTAM WOC WHO	WWJ WDAF WSUN	KFPY 12:00-12:30 S WEAF	herbo's WTIC WOW	KRLD KLZ Continen WGY WMC	KTSA WXYZ itals WBEN KPRC	WTAM KOA	KSD WRC

NOTICE OF COPYRIGHT

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

KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: * Verifies receptions 2c; sends station stamp 10c; † Verifies 2c; no stamp; † 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; \$, Sunday only; Stations dividing time have same small figures; X representation has the property power during down. 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 101

Manitoba Telephone System Partido Socialista Surt

550 kilocycles 545.1 meters

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

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

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560 kilocycles 535.4 meters

KFDM $_{\mathbf{C}}^{\mathbf{X}+}$ Beaumont, Texas Denver, Colo. KLZ KTAB WFI 1000 1000 San Francisco, Cal. Philadelphia, Pa. iN 500 WIBO WLIT WNOX WPCC 3+N 1N Chicago, Ill. 1000 500 Philadelphia, Pa. Knoxville, Tenn. Chicago, Ill. Miami, Fla. X+C 3S 1000 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

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570 kilocycles 526.0 meters

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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

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1	WHAS XFI	i	10000	N 818	Louisville, Ky. Mexico City	Courier-Journal & Times Sria. de Ind., Commercio y Trabajo	
	830	kild	ocycl		361.2 meters	742 21 /	7
×/	CMGA KOA WEEU WHDH WRUH	† †	100 12500 1000 1000 5000	834 N DCP D Dn	Colon, Cuba Denver, Colo. Reading, Pa. Boston, Mass. Gainesville, Fla.	Leopoldo V. Figueros National Broadcasting Co., Inc. Berks Broadcasting Co. Matheson Radio Co., Inc. University of Florida	, Lin
	840	kilo	ocycl	es 3	356.9 meters/	3/2	1 Land
/	CFCA CHCT CKLC CMC CNRD CNRT	*	500 1000 1000 500 1000 500	1 2 2 2 1	Toronto, Ont. Red Deer, Alta. Red Deer, Alta. Havana, Cuba Red Deer, Alta. Toronto, Ont.	Star Publishing & Ptg. Co. G. F. Tull & Ardern, Ltd. Alberta Pacific Grain Co., Ltd. Cuban Telephone Co. Canadian National Railways Canadian National Railways	345
	850	kilo	ocycl	es 3	352.7 meters	7 - 1 - 1 - 1	CUT
4	-KWKI WWL	H *	10000 5000	1	Sh <mark>rev</mark> eport, La. New Orleans, La.	Hello World Broadcasting Corp. Loyola University	TUO C
	860	kilo	ocycl	es 3	348.6 meters	770 3000 V	Ž
/	CMJE KMO WABO WBOO WHB XEJ XFX) WAS	5000 5000 5000 5000 101 500	856 + Dr XC D 857	Camaguey, Cuba 1 Tacoma, Wash. New York City New York City Kansas City, Mo. Juarez, Mexico Mexico City, Mexico	Manuel Fernandez KMO, Inc. Atlantic Broadcasting Corp. Atlantic Broadcasting Corp. WHB Broadcasting Co. Juan Buttner Secretaria de Educacion Publica	ON DOTTED LINES
	870	kile	ocycl	es 3	344.6 meters	THE TOTAL V	
	WENF WLS		50000 50000	1N 1N	Chicago, Ill. Chicago, Ill.	National Broadcasting Co., Inc. Agricultural Broadcasting Co.	
	880	kilo	ocyc1	es 3	340.7 meters	1,	- Learne
	CHMI CJCB CKCV CNRC KFKA KLX KPOF WCOC WGBI WQAI WSUI	* † † * * * * * * * * * * * * * * * * *	50 50 50 50 500 500 500 250 250 250	3 3 2+ 2 + 1	Hamilton, Ont. Sydney, N. S. Quebec, Que. Quebec, Que. Greeley, Colo. Oakland, Cal. Denver, Colo. Meridian, Miss. Scranton, Pa. Scranton, Pa. Iowa City, Iowa	Maple Leaf Radio Co., Ltd. N. Nathanson G. A. Vandry Canadian National Railways Midwestern Radio Corp. Tribune Publishing Co. Pillar of Fire, Inc. Mississippi Broadcasting Co., Inc. Scranton Broadcasters, Inc. Scranton Times University of Iowa	7.5
					[49]		

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	890	kilo	cycl	es 3	336.9 meters	V	
	CFBO	*	500		St. John, N. B.	C. A. Munro, Ltd.	
	CKCO CKPR	‡	100	3	Ottawa, Ont.	Dr. G. M. Geldert	
	CMCF	†	$\frac{50}{250}$	3	Port Arthur, Ont. Havana, Cuba	Dougall Motor Car Corp. Raoul Karman	
	CMX	*	500		Havana, Cuba Havana, Cuba Shenandoah, Iowa	Francisco Lavin	
	KFNF	*	500	2+	Shenandoah, Iowa	Henry Field Co.	
	KGJF KUSD	*	250 500	2+	Little Rock, Ark. Vermillion, S. D.	Church of the Nazarene University of South Dakota	
	WGST	*	250	+c	Atlanta, Ga.	Georgia School of Technology	
	WILL.	*	250	$^{2}_{+N}$	Atlanta, Ga. Urbana, Ill.	University of Illinois	
	WJAR WKAQ	*	250 250		Providence, R. I.	The Outlet Co. Radio Corp. of Porto Rico	
	WMMI	N *	250	+	San Juan, P. R. Fairmount, W. Va.	Holt-Rowe Broadcasting Co.	
	XES	\$	500		Tampico, Mexico	Difusora Portena XES	
	900	kilo	cycl	es 3	333.1 meters	all	
	KGBU		500		Ketchikan, Alaska	Alaska Radio & Service Co.	
	KHJ	*	1000	C	Los Angeles, Cal.	Don Lee, Inc.	
	KSĒI TIC	*	250 50		Pocatello, Idaho San Jose, Costa Rica Buffalo, N. Y.	KSEI Broadcasting Association, Inc.	
	WBEN	*	1000	Ñ	Buffalo, N. Y.	Buffalo Evening News	
Rates	WJAX WKY	*	1000	N	Jacksonville, Fla.	City of Jacksonville	
1	WKY WLBL	*	1000 2000	N D	Oklahoma City	WKY Radiophone Co.	
					Stevens Point, Wis.	Wisconsin Dept. of Markets	
	910	kilo	ocycl	es :	329.6 meters	1 . () .]	
	CFQC CHNS	*	500	1	Saskatoon, Sask. Halifax, N. S.	The Electric Shop, Ltd.	1
	CIGC		500 5000	3	Halifax, N. S.	Halifax Herald, Ltd.	3
	CJGC CNRH		500	3	London, Ont. Halifax, N. S.	Free Press Printing Co., Ltd. Canadian National Railways Canadian National Railways	
	CNRL	*	500	3	London, Ont.	Canadian National Railways	
	CNRS	- †	500 5000	1	Saskatoon, Sask. Mexico City	Canadian National Railways Mexico Music Co.	10
1	ALW	,	3000				
	920	kilo	ocycl	es (325.9 meters	935 16-mil	
	HHK	*	1000		Port au Prince, Haiti	Republic of Haiti	
	KFEL KFXF	† *	500 500	1 1	Denver, Colo.	Eugene P. O'Fallon, Inc. Colorado Radio Corp.	
	KOMO		1000	N	Denver, Colo. Seattle, Wash.	Fisher's Blend Station Inc	
	KPRC	*	1000	+N D	Houston, Texas Chicago, Ill.	Houston Printing Co. Drovers' Journal Publishing Co. Babson Statistical Organization, Inc.	ie
	WAAF WBSO		500 500	D D	Chicago, Ill.	Drovers' Journal Publishing Co.	
_	WWI	Ť	1000	N	Needham, Mass. Detroit, Mich.	The Detroit News	
	WWJ XFF		250	915	Chihuahua, Mexico	Gobierno del Estado de Chihuahua	
	930	kilo	ocycl	es (322.4 meters	34' V	
	CFCH		50	3	North Bay, Ont.	Northern Supplies, Ltd.	
	CFLC	*	50	3	Prescott, Ont.	Radio Association	
	CFRC	*	50			Radio Association	
	CJCA			3	Kingston, Ont.	Queen's University	
	KFWI	t	500	1	Edmonton, Alta. San Francisco, Cal	Queen's University The Edmonton Journal, Ltd.	
	CJCA KFWI KGBZ	†	500 500 500	1	Edmonton, Alta. San Francisco, Cal	Queen's University The Edmonton Journal, Ltd. Radio Entertainments, Inc. Dr. George R. Miller	
	KGBZ KMA	*-	500 500 500 500	1	Edmonton, Alta. San Francisco, Cal. York, Nebr. Shenandoah, Iowa	Queen's University The Edmonton Journal, Ltd. Radio Entertainments, Inc. Dr. George R. Miller May Seed & Nursery Co.	
	KGBZ KMA KROW	*	500 500 500 500 500	1 2+ 2+ 1-X	Edmonton, Alta. San Francisco, Cal. York, Nebr. Shenandoah, Iowa	Queen's University The Edmonton Journal, Ltd. Radio Entertainments, Inc. Dr. George R. Miller May Seed & Nursery Co. Educational Broadcasting Corp.	Part
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and the second	KGBZ KMA KROW WBBC WDBJ WIBG 940 KOIN WAAT WCSIN WAAT WCSIN WAAT WCSIN WHA XEO	kilo	500 500 500 500 500 250 25 0 Cycl 1000 1000 1000 750 500 500 100	2+ 2+ 2+ 1+X +C +C S S C D N N C D+	Edmonton, Alta. San Francisco, Cal. York, Nebr. Shenandoah, Iowa Oakland, Cal. Birmingham, Ala. Roanoke, Va. Elkins Park, Pa. 319.0 meters Honolulu, Hawaii Portland, Oregon Jersey City, N. J. Portland, Maine Fargo, N. D. Hopkinsville, Ky. Madison, Wis. Mexico City 315.6 meters Hollywood, Cal. Billings, Mont.	Queen's University The Edmonton Journal, Ltd. Radio Entertainments, Inc. Dr. George R. Miller May Seed & Nursery Co. Educational Broadcasting Corp. Birmingham Broadcasting Co., Inc. Times-World Corp. St. Paul's P. E. Church. Qualty P. E. Church. Marion A. Mulrony KOIN, Inc. Bremer Broadcasting Corp. Congress Square Hotel Co. WDAY, Inc. WFIW, Inc. University of Wisconsin National Revoluncionario Party Warner Bros. Broadcasting Corp. Northwestern Auto Supply Co., Inc.	
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- Sat 10-1 2 mor INDEX BY FREQUENCIES AND DIAL NUMBERS 1060 kilocycles 282.8 meters KWJJ Broadcast Co., Inc. Consolidated Gas Elec. & Pwr. Co. Portland, Ore. KWJJ WBAL 500 Dn Baltimore, Md. Norfolk, Nebr. 10000 1N WJAG WTIC 1000 Dn Norfolk Daily News Travelers Broadcasting Service Corp. 50000 Hartford, Conn. don the 1070 kilocycles 280.2 meters Havana, Cuba Havana, Cuba Havana, Cuba 150 Francisco Garrigo **CMBG** E. Perera CMBT 150 CMCB Antonio Capablanca 150 Julius Brunton & Sons Co. Superior Broadcasting Service KJBS WCAZ WDZ Ď 100 San Francisco, Cal. 50 $\bar{\mathbf{D}}$ Carthage, Ill. Tuscola, Ill. James L. Bush National Broadcasting Co., Inc. WTAM W 100 D 50000 Cleveland, Ohio 1080 kilocycles 277.6 meters 1091 Charlotte, N. C. Station WBT, Inc. Wilbur Glenn Voliva 5000 WBT WCBD WMBI 5000 Ī Dn Zion, Ill. Chicago, Ill. Moody Bible Institute 5000 1 Dn 1090 kilocycles 275.1 meters -1-1-1 Voice of St. Louis, Inc. Antonio Garza Castro St. Louis, Mo. Saltillo, Mexico 1091 11112 1110 1100 kilocycles 272.6 meters X ALIE. Jose Caluff E. F. Peffer Santiago, Cuba 20 CMKD ĎX Stockton, Cal. New York City KGDM WLWL WPG 250 Missionary Society of St. Paul 5000 îc Atlantic City, N. J. WPG Broadcasting Corp. 5000 6 Crant 1110 kilocycles 270.1 meters 1124 Santa Clara, Cuba Sioux Falls, S. D. Richmond, Va. Laviz y Paz Sioux Falls Broadcasting Assn., Inc. 15 2500 Dn KSOO WRVA Larus & Bros. Co., Inc. 1120 kilocycles 267.7 meters 35 N. S. Dalgleish & Sons R. T. Holman, Ltd. Kamloops, B. C. Summerside, P. E. I. CFJC CHGS 100 100 Harold R. Carson CJOC KFIO 100 Lethbridge, Alta Spokane, Wash. Spokane Broadcasting Corp. Ď 100 Spokane, Wash. Los Angeles, Cal. Inglewood, Cal. Seattle, Wash. Houston, Texas Orlando, Fla. Wilmington, Del. Milwaukee, Wis. Milwaukee, Wis. College Station, Texas Echo Park Evang. Assn. KFSG 500 3Y KMCS 500 Dalton's, Inc. Radio Sales Corp. KRSC 50 D 2C 500 Rice Hotel KTRH Orlando Broadcasting Co., Inc. +C +X WDBO 500 WDEL, Inc. Marquette University WDEL 250 WHAD 250 Evening Wisconsin Co. 250 îС WISN Agricultural & Mech. College WTAW 500 265.3 meters 1130 kilocycles 10 14/10 Radio Service Corp. of Utah Loyal Order of Moose Salt Lake City KSL 5000 WJJD WOV C Dn Mooseheart, Ill. New York City 20000 D International Broadcasting Corp. 1000 Alfonso Zorilla B. XEE Oaxaca, Mexico 105 Tarnava y Cia. 1132 Monterrey, Mexico 5000 115

1140 kilocycles 263.0 meters

CMGD Matanzas, Cuba 5000 iN Tulsa, Okla. KVOO WAPI 5000 1N Birmingham, Ala. XETA 500 Mexico City

1150 kilocycles 260.7 meters

600 Havana, Cuba CMCQ CMHA 1154 Cienfuegos, Cuba 200 CMQ WHAM 250 Havana, Cuba Ñ Rochester, N. Y. 5000

240 1,00 Rafael Rodriguez Southwestern Sales Corp. Alabama Polytechnic Institute Manuel Espinosa Tagle 1000 Andres Martinez Fox Bros. Co.

Jose Fernandez Stromberg-Carlson Tel. Mfg. Co.

		INDI	EX :
9 1160	kil	ocyc]	les
WOWO WWVA	*	$\frac{10000}{5000}$	1C 1C
1170	kil	ocyc]	les
CMKG WCAU			112 C
		ocycl	les
CMGB KEX	 *-	7.5 5000	118 2
KOB WDGY	*	20000 1000	2 1 D
WGBS	‡	500	1.1

258.5 meters kilocycles

Ft. Wayne, Ind. Wheeling, W. Va.

256.3 meters

/ ₹ 10000 1176

Santiago de Cuba Philadelphia, Pa.

West Virginia Broadcasting Corp.

Main Auto Supply Co.

Ricardo Arnaldo Universal Broadcasting Co.

kilocycles 254.1 meters

Matanzas, Cuba Portland, Ore. State College, N. M. Minneapolis, Minn. 1185 5000 20000 1 Dn 1000 New York City Minneapolis, Minn. 500 1 Dn WHDI 500 WMAZ 500 Macon, Ga.

Western Broadcasting Co. restern Broadcasting Co. College of Agriculture & Mech. Arts Dr. George W. Young General Broadcasting System, Inc. Dr. George W. Young

Jose Anorga

Junior Chamber of Commerce

25

Mary

1190 kilocycles 252.0 meters

WOAI '* 50000

San Antonio, Texas

Southern Equipment Co.

249.9 meters 1200 kilocycles

CMKB		15		Santiago de Cuba
KBTM		100	D	Paragould, Ark.
KFJB	†	100	+-	Marshalltown, Iowa
KFWF		100	5+	St. Louis, Mo.
KGDE	*	100	+	Fergus Falls, Minn,
KGDY		100	1	Huron, S. D.
KGEK	÷-	100	9	Yuma, Colo.
KGEW	†	100	9	Fort Morgan, Colo.
KGFJ	'	100	,	Los Angeles, Cal.
KGHI	*	100		Little Rock, Ark.
KGY	÷	10	<u></u>	Lacey, Wash.
KMLB	,	100	$_{ m D}^{+}$	Monroe, La.
KSMR		100	D	Santa Maria, Cal.
KVOS	*	100		Bellingham, Wash.
KWG	*	100		Stockton, Cal.
WABI	†	100		Bangor, Maine
WABZ	*	100	1	New Orleans, La.
WBBZ	*	100		Ponca City, Okla.
WBHS		50	10CP	Huntsville, Ala.
WCAT	+	100	1001	Rapid City S. D.
WCAX	*	100	2	Rapid City, S. D. Burlington, Vt.
WCLO		100	2	Janesville, Wis.
WCOD	† †	100	3	
WEPS	+	100	3 7	Harrisburg, Pa. Worcester, Mass.
WFAM	† *	100	8	South Bend, Ind.
WFBC	*	50	10	Knoxville, Tenn.
WFBE		100	+	Cincinnati, Ohio
WHBC	Ť-	10	48	Canton, Ohio
WHBY	+	100	43	Green Bay, Wis.
WIBX	*	100	+	Utica, N. Y.
WIL	*	100	5+	
WJBC	*	100	6	St. Louis, Mo. La Salle, Ill.
WJBL	†	100	6	
WJBW	+	100	1	Decatur, Ill.
WILL	*		3	New Orleans, La.
WKJC	*	100	ુ	Lancaster, Pa.
WLBG		100	+	Petersburg, Va.
WNBO	*	100	4	Washington, Pa.
WNBW	† †	10		Carbondale, Pa.
WNBX	Ţ	10	2	Springfield, Vt.
WORC	*	100	7CX	Worcester, Mass.
WRBL	ţ	50		Columbus, Ga.
WWAE	*	100	8	Hammond, Ind.

Melchor Aguero W. J. Beard's Temple of Music Marshall Electric Co., Inc. St. Louis Truth Center, Inc. Jaren Drug Co. Voice of South Dakota Beehler Elec. Equipment Co. City of Fort Morgan Ben S, McGlashan Berean Bible Class KCYS. 1210 St. Marten's College J. C. Liner Santa Maria Radio MTRS. KVOS, Inc. Portable Wireless Tel. Co., Inc. 247.8Pine Tree Broadcasting Corp. Samuel D. Reeks DIAL C. L. Carrell The Hutchens Co State School of Mines Burlington Daily News WCLO Radio Corp. Keystone Broadcasting Corp. Alfred Frank Kleindienst South Bend Tribune south Bend Iribune First Baptist Church Post Publishing Co. St. John's Catholic Church St. Norbert's College WIBX, Inc.

Missouri Broadcasting Corp. Kaskaskia Broadcasting Co. Commodore Broadcasting, Inc. Charles C. Carlson, Jr. Kirk, Johnson & Co. WLBG, Inc. John Brownlee Spriggs Home Cut Glass & China Co. First Congregational Church Alfred Frank Kleindienst WRBL Radio Station, Inc.

1210 kilocycles 247.8 meters

CFCO		100	8	Chatham, Ont.
CFNB	*	500		Fredericton, N. B.
CJOR	*	500		Sea Island, B. C.
CKMC		100	8	Cobalt, Ont.
CKPC	†	50	8+	Preston, Ont.
KDFN	Ť	100		Casper, Wyo.

Western Ontaric "Batter Radio" Club James S. Neill & Sons, Ltd. G. C. Chandler R. L. MacAdam Metal Shingle & Siding Co.

Hammond-Calumet, Broad, Corp.

Alberto Palos Sauza

Donald Lewis Hathaway

CUT OUT ON DOTTED LINE

Hammond, Ind. Guadalajara, Mexico

		INDE	EA BI	FREQUENCIES A	IND DIAL NUMBERS
KDLR	+	100		Devil's Lake, N. D.	KDLR,Inc.
KFOR	*	100	+	Lincoln, Nebr.	Howard A, Shuman
KFVS	*	100	6	Cape Girardeau, Mo.	Hirsch Battery & Radio Co.
KFXM KGCR KGMP	†	100	9	San Bernardino, Cal.	J. C. & E. W. Lee
KGCK	Ţ	100		Watertown, S. D.	Greater Kampeska Radio Corn.
KGNO	8	$\frac{100}{100}$		Elk City, Okla. Dodge City, Kansas	Bryant Radio & Electric Co. Dodge City Broadcasting Co. James McClatchy Co.
KMJ	*	100		Fresno, Cal.	James McClatchy Co.
KPPC	§.	50	9	Pasadena, Cal.	Pasadena Presbyterian Church
KWEA	*	100		Shreveport, La.	Hello World Broadcasting Corp.
WALR	*	100		Zanesville, Ohio	Roy W. Waller
WBAX	*	100	1	Wilkes-Barre, Pa.	John H. Stenger, Jr.
WBBL	† *	100	7S	Richmond, Va. Springfield, Ill. Yonkers, N. Y. Chicago, Ill.	Grace Covenant Pres. Church
WCBS WCOH	*	$\frac{100}{100}$	3	Springfield, III.	H. L. Dewing & Chas. Messter
WCRW		100	4	Chicago III	Clinton P. White
WDWF		100	4 5 6	Providence, R. I.	Westchester Broadcasting Corp. Clinton R. White Cherry & Webb Broadcasting Co. First Trust & Savings Bank
WEBQ	*	100	6	Harrisburg, Ill.	First Trust & Savings Bank
WEDC		100	4	Chicago, Ill.	Emil Denemark, Inc.
WGBB	*	100	3	Freeport, N. Y.	Harry H. Carman
WGCM	[* *	100		Gulfport, Miss.	Great Southern Land Co., Inc.
WHBF WHBU	Ť	$\frac{100}{100}$	~	Rock Island, Ill.	Beardsley Specialty Co.
WIBU	*	100		Povpetta Wie	Citizens Bank Wm. C. Forrest
WIBI		100	3	Anderson, Ind. Poynette, Wis. Red Bank, N. J.	Monmouth Broadcasting Co.
WJBI WJBU	*	100	1	Lewisburg, Pa.	Bucknell University
WJBY	*	100		Gadsen, Ala.	Gadsen Broadcasting Co., Inc.
WJBY WJW WLCI	*	100		Mansfield, Ohio	Mansfield Broadcasting Assn.
WLCI	*	50		Ithaca N Y	Lutheran Assn. of Ithaca Havens & Martin, Inc.
WMBG WMRJ	*	100	7	Richmond, Va. Jamaica, N. Y. Jamestown, N. Y. Manitowoc, Wis. Pawtucket, R. I.	Havens & Martin, Inc.
WOCL	*	100 25		Jamaica, N. Y.	Peter J. Prinz A. E. Newton
WOMT		100		Manitowag Wie	Francis M. Kadow
WPAW	*	100	5	Pawtucket, R. I.	
WPRO	*	100	5	Providence, R. I.	Shartenburg & Robinson Co. Cherry & Webb Broadcasting Co.
WQDX	*	100		Thomasville, Ga.	Stevens Luke
WRBQ WSBC WSEN	† *	100	<i>+</i>	Greenville, Miss.	J. Pat. Scully
WSBC		100	4	Chicago, Ill.	World Battery Co., Inc.
WSIX	† *	$\begin{array}{c} 100 \\ 100 \end{array}$		Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, Ill.	Columbus Broadcasting Co.
WSOC	Ť	100		Gastonia N. C.	WSOC Inc
WTAX	Ť	100	2	Springfield, Ill.	638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc.
XEX		500		Mexico City	Excelsior, Cia Editorial S. A.
1220	1-:1	1		215 0 4	1233 6 1000
1220	KII	ocycl	es	245.8 meters	7 7 7 20 7 10 10 10 10 10 10 10 10 10 10 10 10 10
CMCA		150	1225 1225	Havana, Cuba	M. Cruz
CMCD CMCN		$\frac{250}{250}$	1225	Havana, Cuba	Angel Bertamaty
KEKU	*	500	1	Havana, Cuba	Antonio Ginard University of Kansas
KFKU KTW		1000		Lawrence, Kansas Seattle, Wash.	First Presbyterian Church
KWSC WCAD	*	1000	D D	Pullman, Wash. Canton, N. Y.	State College of Washington
WCAD	*	500	D	Canton, N. Y.	St Lawrence University
WCAE	*	1000	N	Pittsburgh, Pa.	WCAE, Inc. Tampa Publishing Co. Jenny Wren Co.
WDAE	*	$\frac{1000}{1000}$	C 1N	Tampa, Fla.	Tampa Publishing Co.
				Lawrence, Kansas	Jenny wren Co.
1230	kild	ocycl	05	243.8 meters	1248
KEOD	1111	100			1
KFQD KGGM		250	+-	Anchorage, Alaska Albuquerque, N. Mex.	Anchorage Radio Club New Mexico Broadcasting Co.
KYA	†	1000	-1-	San Francisco, Cal.	Pacific Broadcasting Corp.
WBIS	*	1000	2	Boston, Mass.	Shepard Broadcasting Service, Inc.
WFBM	: k	1000	1C	Indianapolis, Ind.	Indianapolis Power & Light Co.
-WNAC	*	1000	2C	Boston, Mass.	Shepard Broadcasting Service, Inc.
WPSC WSBT	*	500	D	State College, Pa.	Pennsylvania State College
	t	500	1	South Bend, Ind.	South Bend Tribune
1240	kile	ocycl	es	241.8 meters	12.5
CMAR	1111	20	1249		Francisco Martinez
CMAB CMKE		250	1249	Pinar del Rio, Cuba Santiago de Cuba	Edmundo Recamier
KGCU		250	3	Mandan, N. D.	Mandan Radio Assn.
KLPM	Ť	250	3	Santiago de Cuba Mandan, N. D. Minot, N. D.	John B. Cooley
KTAT			1	Ft. Worth, Texas	S A T Broadcast Co
****	Ť	1000	1	rt, worth, rexas	S. A. I. Bloadcast Co.
WACO	† †	1000	1C	Waco, Texas	Central Texas Broadcasting Co., Inc.
WACO WXYZ	Ť			Waco, Texas Detroit, Mich.	Mandan Radio Assn. John B. Cooley S. A. T. Broadcast Co. Central Texas Broadcasting Co., Inc. Kunsky-Trendle Broadcasting Corp.

1250 kilocycles KFMX † 1000 2 KFOX * 1000 2 239.9 meters Northfield, Minn. Long Beach, Cal.

Carleton College Nichols & Warinner, Inc.

			INDE	X BI	FREQUENCIES A	ND DIAL NUMBERS	
	KIDO WAAM WCAL WDSU WGCP WLB WODA WRHM XEFA	† ; *	1000 1000 1000 1000 250 1000 1000 250	1+X 2 C 1 2 1 2	Boise, Idaho 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. Uhait May Radio Broadcast Corp. University of Minnesota Richard E. O'Dea Minnesota Broadcasting Corp. Luis F. Murguia	
	1260	kilo	ocycl	es 2	38.0 meters	1275	
	KOIL KRGV KVOA KWWG WLBW WTOC	* * †	1000 500 500 500 500 500	C 1 D 1 C+ 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.	1
	1270	kilo	ocycl	es 2	36.1 meters		
	CMJB KGCA KOL KVOR KWLC WASH WEAI WFBR WJDX WOOD	***	20 50 1000 1000 1000 500 1000 500 1000 500	1276 2D C C 2D 1 D N N	Ciego de Avila, Cuba Decorah, Iowa Seattle, Wash. Colorado Springs, Colo Decorah, Iowa Grand Rapids, Mich. Ithaca, N. Y. Baltimore, Md. Jackson, Miss. Grand Rapids, Mich.	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	kilo	oevel	es 2	34.2 meters	1014	
/	CMBJ CMBM CMCG CMCH CMCR KFBB WCAM WCAP WDOD WIBA WOAX WRR	* * *	15 15 30 15 20 1000 500 500 1000 500 500 500	1285 1285 1285 1285 1285 1285 14 1 1 +C +N 1	Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Great Falls, Mont. Camden, N. J. Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Trenton, N. J. Dallas, Texas	Jesus Lopez Jose Leiro Jose Lusto 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	kilo	ocycl	es 2	32.4 meters	#	
	KDYL KFUL KLCN KTSA WEBC WJAS WNBZ	† * * *	1000 500 50 1000 1000 1000 50	C 1 D 1+C +N C+ D	Salt Lake City Galveston, Texas Blytheville, Ark. San Antonio, Texas Superior, Wis. Pittsburgh, Pa. Saranac Lake, N. Y.	News Publishing Co. C. L. Lintzenich Lone Star Broadcast Co.	1310 MTRS 228.
	1300	kilo	ocvc1	es 2	30.6 meters	1 1 3 Not 2	DIAL
	KFAC KFH KFJR KGEF KTBR WBBR WEVD WHAP WHAP WHOD WOQ XETY	****	1000 1000 500 1000 500 1000 500 1000 500 1000 1000 2000	4 2C 3 4 3 1 1 1 1 N 2	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.	CUT OUT ON DOTTED LINES
	1310	kilo	ocycl	es 2	228.9 meters		DO
	KCRJ KFBK KFGQ KFJY KFPL KFPM KFUP KFUP	† † † * † * †	100 100 100 100 100 15 100 100	7 7 7 8 8	Jerome, Arizona Sacramento, Cal. Boone, Iowa Ft. Dodge, Iowa Dublin, Texas Greenville, Texas Denver, Colo. Grand Junction, Colo.	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.	TTED LINES



Corp.

Corp.

KFXR	† *	100	+	Oklahoma City	Exchange Ave. Baptist Church
KGBX	*	100		St. Joseph, Mo.	KGBX, Inc.
KGCX	Ť	100	+	Wolf Point, Minn.	First State Bank of Vida
KGEZ	†	100		Kalist ell, Mont.	Treloar-Church Broadcasting Co
KGFW	Ť	100		Ravenna, Nebr.	Central Nebraska Broadcasting
KIT	Ť	50		Yakima, Wash.	Carl E. Haymond
KMED	†	100		Medford, Ore.	Mrs. W. J. Virgin
KRMD		50	9	Shreveport, La.	Robert M. Dean
KTLC	*	100		Houston, Texas	Houston Broadcasting Co.
KTSL		100	9	Shreveport, La.	G. A. Houseman
KTSM	Ť	100	2	El Paso, Texas	W. S. Bledsoe & W. T. Blackwell
KWCR	+	100	7	Cedar Rapids, Iowa	Harry F. Paar
KXRO	t	100		Aberdeen, Wash.	KXRO, Inc.
WBEO		100	CP	Marquette, Mich.	Lake Superior Broadcasting Co.
WBOW	*	100		Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE		100		Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	*	100	1	Joliet, Ill.	WCLS, Inc.
WDAH	† *	100	2	El Paso, Texas	Bledsoe & Blackwell
WEBR	*	100	+	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WEXL	†	50		Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG	*	100	3X	Altoona, Pa.	Wm. F. Gable Co.
WFDF	*	100		Flint, Mich.	Frank D. Fallain
WFDV	+	100	D	Rome, Ga.	Dolies Goings
WGAL	*	100	5	Lancaster, Pa.	WGAL, Inc.
WGH	*	100		Newport News, Va.	Hampton Roads Broadcasting
WHAT	Ť	100	4	Philadelphia, Pa.	Independence Broadcasting Co.
WJAC	*	100	3	Johnstown, Pa.	Johnstown Automobile Co.
WJAK	*	50	6	Marion, Ind.	Marion Broadcasting Co.
WKAV	*	100	-	Laconia, N. H.	Laconia Radio Club
WKBB	*	100	ĩ	Joliet, III.	Sanders Bros. Radio Station
WKBC	*	100		Birmingham, Ala.	R. B. Broyles Furniture Co.
WKBS	*	100		Galesburg, Ill.	Permil N. Nelson
WLBC	†	50	6	Muncie, Ind.	Donald A. Burton
WMBO	÷	100		Auburn, N. Y.	Radio Service Laboratories
WNBA	*	100		New Bedford, Mass.	New Bedford Broadcasting Co.
WOL	*	100			American Broadcasting Co.
WRAW	*	100	5X	Washington, D. C.	Reading Broadcasting Co.
WROL		100		Reading, Pa.	
	+	100		Knoxville, Tenn.	Stewart Broadcasting Co.
WSAJ	*			Grove City, Pa.	Grove City College
WSJS	*	100	ā	Winston-Salem, N. C.	Winston-Salem Journal Co.
WIEL	Ť	100	4	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
WTJS	T	100	+	Jackson, Tenn.	Sun Publishing Co.
1320	12:1	ocvel	99	227 1 meters	13 21.00

1320 kilocycles 227.1 meters

CMJC CMKH KGHF KGMB KID KTFI	†	15 250 250 250 250 250	1321 1327 + 1+ 1+	Camaguey, Cuba Santiago de Cuba Pueblo, Colo. Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho
	† *			

1330 kilocycles 225.4 meters

KGB	*	500	C	San Diego, Cal.
KSCJ	*	1000	1+C	Sioux City, Iowa
WDRC	*	500	C.	Hartford, Conn.
WSAI	*	500	N	Cincinnati, Ohio
WTAO	*	1000	1C	Eau Claire, Wis.
XEC		50	1333	Toluca, Mexico
				·

1340 kilocycles 223.7 meters

-0 -0		-5			
CMBA		50	1345	Havana, Cu	ıba
CMBF		7.5	1345		
CMCU		50	1345	Havana, Cu	ıba
CMCY		15	1345	Havana, Cu	
KFPW	+	50	D	Fort Smith.	, Ark.
KFPY	*	1000	С	Spokane, W	'ash.
WCOA	*	500		Pensacola, l	F Ia.
WSPD	*	1000	C	Toledo, Ohi	io
				-	

__ 1350 kilocycles 222.1 meters

KWK WAWZ WBNX WCDA	* * *	1000 250 250 250 250	N 1 1 1	St. Louis, Mo. Zarephath, N. J. New York City New York City
WEHC	*	500	D	Emory, Va.
WMSG		250	1	New York City

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

Don Lee, Inc. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co. Jesus R. Benavides

Oscar Montenegro Jose G. Reigada Jorge Garcia Serra M. D. Autran 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. Emory & Henry College Madison Sq. Garden Brdctg. Corp.

1360) kilo	ocvc	les	220.4 meters		
		30	1363		Manuel J. de Gongora	
CMKF KGER KGIR	*	1000		Long Beach, Cal.	Consolidated Broadcasting Corp.	
KGIR WCSC	† *	500 500		Butte, Montana	KGIR, Inc. Lewis Burk	
WFBL	*	1000	CX	Charleston, S. C. Syracuse, N. Y. Chicago, Ill.	Onondaga Radio Broadcasting Corp.	
WCEC	*	500	1+ 1+	Chicago, Ill.	Oak Leaves Broadcasting Station, Inc.	
WJKS WQBC	*	1000 500	1 D	Gary, Ind. Vicksburg, Miss.	Johnson-Kennedy Radio Corp.	
XETO	. 1	101		Mexico City	Delta Broadcasting Co., Inc. Ricardo Gonzales Montero	
1270	1-:1-	201701	loc	218.7 meters		
) kilo	ocyci			Oscar S. Mechoso	
CMAC CMGE		30 30	1375 1375	Pinar del Rio, Cuba Cardenas, Cuba	Genaro Sebater	
HŔB	_	2300		Tequaqalpa, Hond.	E 11 D 11 1 C-	
KCRC KFBL	† *	100 50	$\frac{2}{3}$	Enid, Okla.	Enid Radiophone Co. Leese Bros.	
KFII	†	100		Everett, Wash. Astoria, Ore.	KFII Broadcasters, Inc.	
KFJI KFJM KFJZ KFLX	*	100		Grand Forks, N. D.	University of North Dakota Estate of H. C. Meachem	
KFJZ	*	100 100		Ft. Worth, Texas Galveston, Texas	George Roy Clough	
KGAR	*	100	+-	Tucson, Arizona	Tucson Motor Service Co.	
KGDA	†	100	2	Mitchell, S. D.	Mitchell Broadcasting Corp.	
KGFG KGFL	† † †	100 50		Oklahoma City Raton, N. M.	Oklahoma Broadcasting Co., Inc. W. E. Whitmore	
KGKL	· †	100		San Angelo, Texas	KGKL, Inc. W. W. McAllister	
KMAC	†	100	5	San Antonio, Texas	W. W. McAllister	
KONO KOOS	† † *	100 100	5	San Antonio, Texas	Mission Broadcasting Co. H. H. Hanseth, Inc.	
KRE		100	6	Marshfield, Ore. Berkeley, Cal. Walla Walla, Wash.	First Congregational Church	
KRE KUJ	Ť	100	3	Walla Walla, Wash.	First Congregational Church KUJ, Inc. KVL, Inc.	
KVĽ KWKC		$\frac{100}{100}$		Seattle, Wash.	Wilson Duncan Broadcasting Co.	
WBGF	, † I † I *	50		Kansas City, Mo. Glens Falls, N. Y.	W. N. Parker and H. H. Metcalfe	
WBTM	Į †	100	7	Danville, Va.	Clarke Electric Co.	
WCBM WELK	1 *	$\begin{array}{c} 100 \\ 100 \end{array}$	+Z + C	Baltimore, Md. Philadelphia, Pa.	Baltimore Broadcasting Corp. WELK Broadcasting Station, Inc.	
WGL	¢ *	100	Ċ	Fort Wayne, Ind.	WELK Broadcasting Station, Inc. Fred Z. Zieg	
WHBD	†	100		Mount Orah Ohio	F. P. Moler	
WHBQ WHDF	† †	100 100	+ 1 Y + 7	Memphis, Tenn. Calumet, Mich. Jackson, Mich. Detroit, Mich. Tifton, Ga.	Broadcasting Station WHBQ, Inc. Upper Michigan Broadcasting Co.	
WIBM		100	1	Jackson, Mich.	WIBM. Inc.	
WJBK WJTL WLEY WLVA	*	50 100	I.	Detroit, Mich.	James F. Hopkins, Inc. Oglethorpe University	
WLEY		100	+	Lexington, Mass.	Lexington Air Stations	
WLVA	Ť	100	7	Lynchburg, Va.	Lynchburg Broadcasting Corp.	
WMBR WPOE	t t	$\frac{100}{100}$		Tampa, Fla.	F. J. Reynolds Nassau Broadcasting Corp.	
WODN	† 1 *	100	D	Patchogue, N. Y. St. Albans, Vt.	A. J. St. Antoine	
WRAK	*	100		Williamsport, Pa. Wilmington, N. C.	A. J. St. Antoine C. R. Cummins	
WRAM WRBJ	! * †	$\frac{100}{10}$		Wilmington, N. C. Hattiesburg, Miss.	Wilmington Radio Association Hattiesburg Broadcasting Co.	
WRDO	\$	100	CP	Augusta, Maine	WRDO, Inc. Racine Broadcasting Corp.	
WRJN WSVS	*	100 50		Augusta, Maine Racine, Wis. Buffalo, N. Y.	Racine Broadcasting Corp. Seneca Vocational School	
					Seneca vocational School	
1380	kilo	eycl	es	217.3 meters	<u> </u>	
KOH	†	500	С	Reno, Nevada	The Bee, The	KCYS.
KQV KSO	† *	500 500	2	Pittsburgh, Pa.	KQV Broadcasting Co. Iowa Broadcasting Co.	1400
WKBH		1000	î	Clarinda, Iowa La Crosse, Wis.	WIZDII I	ATT C
WSMK	*	200	$\bar{2}$	La Crosse, Wis. Dayton, Ohio	Stanley M. Krohn, Ir.	MTRS.
1390	kilo	eyel	es	215.7 meters		214.
KLRA	*	1000	1C	Little Rock, Ark.	Arkarisas broaccasting co.	DIAL
KOY KUOA	*	$\frac{500}{1000}$	ī	Phoenix, Arizona	Nielson Radio & Sporting Goods Co. University of Arknasas	
WHK	† *	1000	Ĉ	Fayetteville, Ark. Cleveland, Ohio	Radio Air Service Corp.	
1400	kilo	eyel	es	214.2 meters	17 . Aug	CUT OUT ON DOTTED LINES
CMBI		30	1405	Havana, Cuba Havana, Cuba	Heriberto Meireles	OTTED LINE
CMBK CMBN		15 30	$\frac{1405}{1405}$	Havana, Cuba Havana, Cuba	Jose L. Ferriol Armado Romeu	Ε̈́O
CMBO		50	1405	Havana, Cuba	Emilio Salas	ĭĞ
CMBX		30	1405	Havana, Cuba	Bertin Fernandez	
CMBY KLO	*	100 500	1405	Havana, Cuba Ogden, Utah	Lino E. Cosculluela Peery Building Co.	£Ζ
KLO	-	500		oguen, otan	I cory bulloning co.	o _

 KOCW WBAA WBBC WCGU WCMA WFOX WKBF WLTH XEP 1410 KFLV KGRS WAAB WBCM WBCM WHIS WHIS WODX WRBX WSFA	* † * * † † * * * * * * * * * * * * * *	250 500 500 500 500 500 500 2500 2500 500	++++++++++++++++++++++++++++++++++++++	Chickasha, Okla. Lafayette, Ind. Brooklyn, N. Y. Brooklyn, N. Y. Culver, Ind. Brooklyn, N. Y. Indianapolis, Ind. Brooklyn, N. Y. Laredo, Mexico 212.6 meters Rockford, Ill. Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Mobile, Ala. Roanoke, Va. Montgomery, Ala.	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 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. Montgomery Broadcasting Co., Inc.
1420	•		-	211.1 meters	Money broadcasting co., The
KABPS KFIZ KFOU KFXD KFYO KFYO KFYO KGFF KGGC KGIW KGIX KGKX KGVO KGIW KGIX KGWO WEDI WHOE WHOE WHOE WHOE WHOE WHOE WHOE WHOE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	100 100 100 100 100 100 100 100 100 100	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	San Antonio, Texas Portland, Ore. Fond du Lac, Wis. Holy City, Cal. Nampa, Idaho Flagstaff, Arizona Abilene, Texas Shawnee, Okla. San Francisco, Cal. Trinidad, Colo. Las Vegas, Nevada Sand Point, Idaho Missoula, Montana Red Oak, Iowa Eugene, Ore. Portland, Ore. Houston, Texas Presque Isle, Maine Waterbury, Vt. Erie, Pa. Cicero, Ill. Battle Creek, Mich. Anniston, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Ironwood, Mich. Cicero, Ill. Kansas City, Kansas Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. 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 WEHS, Inc. 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. Michigan Broadcasting Co. Michigan Broadcasting Co. Voice of South Carolina Associated Broadcasting Corp.
1430	kilo	cycl	es	209.7 meters	
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, Nebr. Harrisburg, Pa. Columbus, Ohio Manchester, N. H. Memphis, Tenn. Harrisburg, Pa. Memphis, Tenn.	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.
1440	kilo	ocycl	es	208.2 meters	1 1
TZT C	•	250	n	Oalstand Cal	Wannan Bros

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

Oakland, Cal. Greensboro, N. C. Allentown, Pa. Rochester, N. Y.

KLS WBIG WCBA WHEC

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		INDE	$\mathbf{S}\mathbf{X}$ B	Y FREQUENCIES A	ND DIAL NUMBERS	
WMBD WOKO WSAN WTAD	* † * †	500 500 250 500	3+ 2C 1 3	Peoria Heights, Ill. Albany, N. Y. Allentown, Pa. Quincy, Ill.	Peoria Broadcasting Co. WOKO, Inc. Allentown Call Publishing Co., Inc. Ills. Stock Medicine Broadcasting Co.	
1450	kil	ocycl	les	206.8 meters	, , , , , , , , , , , , , , , , , , ,	
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	ocycl	les	205.4 meters		
-KSTP WJSV)*	10000 10000	N	St. Paul, Minn. Alexandria, Va.	National Battery Broadcasting Co. Independent Publishing Co.	
1470	kil	ocycl	les	204.0 meters		
KGA WLAC	† *	5000 5000	Ċ.	Spokane, Wash. Nashville, Tenn.	Northwest Broadcasting System, Inc. Life & Casualty Insurance Co.	
1480	kil	ocycl	les	202.6 meters	· · · · · · · · · · · · · · · · · · ·	
KFJF WKBW	*	5000 5000	С С	Oklahoma City Buffalo, N. Y.	National Radio Mfg. Co. Buffalo Broadcasting Co., Lessees	or V
1490	kil	ocycl	les	201.2 meters	V V	
TJW WCHI WCKY WJAZ	***	7.5 5000 5000 5000	1 IN 1	Hamilton, Bermuda Chicago, III. Covington, Ky. Chicago, III.	People's Pulpit Association L. B. Wilson, Inc. Zenith Radio Corp.	
1500	kil	ocycl	les	199.9 meters		
CMBL CMBR CMCM CMCM CMCM CMCM CMCM KGFI KGFI KGFI KGKY KPJM KPO KREG KUT KXO WDIX WKBV WKBV WKBV WKBV WMBC WMBC WMBC WMBC WMBC WMBC WMBC WMBC	** † † -* * † † * -* † * * † * - † * * * *	15 15 15 100 100 50 100 100 100 100 100	+	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. Bristol, Tenn. Philadelphia, Pa. Augusta, Ga. Rutland, Vt. Woodside, N. Y. Pittsburgh, Pa.	Boston Broadcasting Co. LeRoy Joseph Beebe Paul J. Gollhofer Arthur Faske First M. P. Church Howitt, Wood Radio Co., Inc. Radiophone Brdcstg. Station, Inc. Wm. Penn Broadcasting Co. Musicove, Inc. Philip Weiss Music Co. Long Island Broadcasting Corp. William S. Walker	KCYS. 1500 MTRS. 199.
1 400 1		,		[53]		DIAL
A Sec.	6 9 5	١		→ A A	Character of	1 1 3

1544 W2D A OIG CG HAW Y36 BYSP

ALABAMA	***			San Jose J-1	500	KOW	1010
	Watts	WEDW	Kcys.	Santa Ana M-3	100	KREG	1500
Anniston O-22 Birmingham O-21	100 5000	WFDW WAPI	1420 1140	Santa Barbara M-2	100	KDB KSMR	1500
	500	WBRC	930	Santa Maria L-2 Stockton J-2	100 250	KGDM	1200 [11∪0
Gadsden O-21	100 100	WKBC WJBY	1310 1210		100	KWG	1200
Huntsville N-21	50	WBHS	1200	COLOBADO			
Mobile Q-20	500	WODX	1410	COLORADO			
Montgomery P-21	500	WSFA	1410	Colorado Springs K-11 Denver K-11	1 1000 500	KVOR KFEL	1270 920
				Denver K-11	100	KFUP	1310
ALASKA					500	KFXF	920
Anchorage	100	KFQD	1230	l	1000 12500	KLZ KOA	560 830
Ketchikan	500	KGBU	900		500	KPOF	880
				Fort Morgan J-11	001	KGEW	1200
ARIZONA				Grand Junction K-9	100	KFXJ	1310
	100	VEVV	1420	Greeley J-11 Pueblo L-11	500 250	KFKA KGHF	880 1320
Flagstaff M-7 Jerome M-6	100	KFX Y KCR J	1310	Trinidad L-11	100	KĞİW	1420
Phoenix N-6	500	KOY	1390	Yuma J-12	100	KGEK	1200
D M.6	500	KTAR	620	CONTRACTOR			
Prescott M-6 Tucson O-7	100 100	KPJM KGAR	1500 1370	CONNECTICUT			
1463011 0-7	500	KVOA	1260	Bridgeport H-27	250	WICC	600
				Hartford H-27	500 50000	WDRC WTIC	1330 660-1060
ARKANSAS				Storrs H-28	250	WCAC	600
Blytheville M-19	50	KLCN	1290	l .			
Fayetteville M-16	1000	KUOA	1290 1390	DELAWARE		****	
Fort Smith N-16 Hot Springs N-17	50 10000	KFPW KTHS	1340 1040	Wilmington J-26	250 100	WDEL WILM	1120 1420
Little Rock N-17	100	KGHI	1200	1	100	WILIVI	1420
	250	KGJF	890	DISTRICT OF (COLU	MBIA	
Paragould M-18	1000 100	KLRA KBTM	1390 1200	Washington J-26	250	WMAL	630
, aragodia iii-io	100	1001	1200		500	WRC	950
CALIFORNIA					100	WOL	1310
	100	KRE	1370	FLORIDA			
Berkeley J-2 Burbank M-3	500	KELW	780	Clearwater R-24	1000	WFLA	620
Culver City M-3	250	KFVD	1000	Gainesville Q-24	5000	WRUF	830
El Centro N-4 Fresno K-2	100 100	KXO KMJ	1500 1210	Jacksonville Q-24 Miami T-25	$\frac{1000}{1000}$	WJAX WIOD	900 1300
Hollywood M-3	1000	KFWB	950	Wilailii 1-25	1000	WQAM	
	5000	KNX	1050	Orlando R-24	500	WDBO	1120
Holy City K-1 Inglewood M-3	100 500	KFQU KMCS	1420 1120	Pensacola Q-21 St. Petersburg S-24	500 1000	WCOA WSUN	1340 620
Long Beach M-3	1000	KFOX	1250	Tampa R-24	1000	WDAE	1220
	1000	KGER	1360	1	100	WMBR	1370
Los Angeles M-3	1000 1000	KECA KFAC	1430 1300	CEORCIA			
	50000	KFI	640	GEORGIA			
	500	KFSG	1120	Atlanta O-22	250 5000	WGST	890 740
	1000	KGEF	1300	Augusta O-23	100	WSB WRDW	1500
	100 100	KGFJ KHJ	1200 900	Columbus O-22	50	WRBL	1200
	500	KMPC	710	Macon O-23	500	WMAZ	1180
	500	KMTR KTM	570	Rome N-22 Savannah O-24	100 500	WFDV WTOC	1310 1260
Oakland J-1	500 250	KLS	780 1440	Thomasville Q-22	100	WODX	1210
Oakiand Jul	500	KLX	880	Tifton P-23	100	WJTL	1370
	500	KROW	930	Toccoa N-23	500	WTFI	1450
Pasadena M-3	50 100	KPPC KFBK	1210 1310	HAWAII			
Sacramento J-2 San Bernardino M-3	100	KFXM	1210	Honolulu	250	KGMB	1320
San Diego N-3	500	KFSD	600	INIUIUIU	1000	KGWIB	940
San Francisco J-1	500 1000	KGB KFRC	1330 610	YD 4770		_	. •
San Francisco j=1	500	KFWI	930	IDAHO			
	100	KGGC	1420	Boise G-5	1000	KIDO	1250
	7500 100	KGO KJBS	790 1070	Idaho Falls G-7 Nampa G-5	250 50	KID KFXD	1320 1420
	5000	KPO	680	Pocatello H-7	250	KSEI	900
	1000	KTAB	560	Sand Point D-6	100	KGKX	1420
	1000	KYA	1230	Twin Falls H-6	250	KTFI	1320
				<u> </u>			

ILLNOIS	Watts		Kcys.	Shenandoah J-16	500	KFNF	890
Carthage J-18 Chicago I-20	50 10000 10000	WCAZ KFKX KYW	1070 1020 1020	Sioux City I-15 Waterloo I-17	500 1000 500	KMA KSCJ WMT	930 1330 600
	500 25000	WAAF WBBM	920 770	KANSAS			
	1500	WCFL -	970	Dodge City L-13	100	KGNO	1210
	$\frac{5000}{100}$	WCHI WCRW	1490 1210	Kansas City K-16 Lawrence K-16	100 500	WLBF KFKU	1420 1220
	100 50000	WEDC WENR	- ¹²¹⁰		1000	WREN	1220
	500	WGES	1360	Manhattan K-15 Milford K-14	500 5000	KSAC KFBI	580 1050
	25000 1000	WGN — WIBO	720 560	Topeka K-16 Wichita L-15	1000 1000	WIBW KFH	580 1300
	5000 25000	WJAZ - WJBT - WLS	1490 770	KENTUCKY	1000	,	1000
	50000 5000	WLS	870	Covington K-22	5000	WCKY	1490
	5000 5000	WMAQ WMBI	670 1080	Hopkinsville M-20	1000	WFIW	940
	500 100	WPCC WSBC	560 1210	Louisville L-21	10000 250	WHAS WLAP	820 1010
Cicero I-20	100	WEHS	1420	Paducah M-19	100	WPAD	1420
	$\frac{100}{100}$	WHFC WKBI	1420 1420	LOUISIANA			
Decatur K-19 Galesburg J-18	100 100	WJBL WKBS	1200 1310	Monroe P-18	100	KMLB WABZ	1200
Iarrisburg L-19	100	WEBQ	1210	New Orleans R-19	$\frac{100}{1000}$	WDSU	1200 1250
Joliet I-19	100 100	WCLS WKBB	1310 1310		100	WJBO	1420
a Salle J-19	100	WJBC	1200		100 500	WJBO WJBW WSMB	1200 1320
Mooseheart I-19 Peoria Heights J-19	20000 500	WJBC WJJD WMBD	1130 1440	Shreveport P-17	5000 50	WWL KRMD	850 1310
Quincy K-18 Rockford I-19	500 500	WTAD KFLV	$\frac{1440}{1410}$	Sinevepore 1-17	1000	KTBS	1450
Rock Island I-18	100	WHBF	1210		$\frac{100}{100}$	KTSL KWEA	1310 1210
Springfield K-19	100 1 00	WCBS WTAX	1210 1210		10000	KWKH	850
Fuscola 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 Presque Isle D-29	$\frac{1000}{100}$	WCSH WAGM	940 1420
Anderson J-21 Connersville K-21	$\frac{100}{100}$	WHBU WKBV	1210 1500		100	*********	1120
Culver I-20	500	WCMA	1400	MARYLAND	10000	WD AT 5	. 1060
Evansville L-20 Fort Wayne J-21	500 100	WGBF WGL	630 1370	Baltimore J-26	10000 250	WBAL 76 WCAO	600
Gary I-20	$\frac{10000}{1000}$	wowo	1160 1360		100 500	WCBM WFBR	1370 1270
lammond I-20	100 1000	WJKS WWAE	1200	Cumberland J-25	100	WTBO	1420
ndianapolis J-21	500	WFBM WKBF	1230 1400	MASSACHUSE	TTS		
Lafayette J-20 Marion J-21	500 50	WBAA WIAK	1400 1310	Boston G-28	500	WAAB	1410
Muncie J-21 South Bend I-20	50	WJAK WLBC	1310		1000 1000	WBIS WEEI	1230 590
	100 500	WFAM WSBT	1200 1230	İ	1000	WHDH	830
Terre Haute K-20	100	WBOW	1310		$\frac{100}{1000}$	WLOE WNAC	1500 1230
IOWA			1	Fall River H-28	250 100	WSAR WLEY	1450 1370
Ames I-17	5000	WOI	640	Needham G-28	500	WBSO	920
Boone I-17	100	KFGO	1310	New Bedford H-28 Springfield H-27	$\frac{100}{15000}$	WNBH WBZ-A	1310 990
Cedar Rapids I-18 Clarinda J-16	100 500	KWCŘ KSO	1310 1380	Springfield H-27 Worcester G-28	100	WEPS	1200
Council Bluffs J-16	1000 5000	KOIL WOC	1260 1000		100 250	WORC WTAG	1200 580
Davenport I-18 Decorah H-18	50	KGCA	1270	MICHIGAN			
Des Moines I-17	100 5000	KWLC WHO	1270 1090	Battle Creek I-21	50	WELL	1420
Fort Dodge I-16	100	KFJY WSUI	1310	Bay City H-22 Calumet E-19	500	WBCM	1410
owa City I-18 Marshalltown I-17	500 100	KFJB	880 1200	Detroit H-22	100 50	WHDF WJBK	1370 1370
Ottumwa J-17 Red Oak J-16	100 100	KFJB WIAS KICK	1420 1420		5000 100	WJBK WJR WMBC	750
CO OR J-10	100	ATOR	1720		100	WINDC	1420

Detroit H-22	1000 WWJ	920	NEVADA	Watts		Kcys.
East Lansing H-21	1000 WWJ 1000 WXY2 1000 WKAR	1240 1040	Las Vegas L-5 Reno I-3	100 500	KGIX KOH	1420 1380
Flint H-22 Grand Rapids H-21	100 WFDF 500 WASH	1310 1270			KOH	1300
Ironwood F-18	500 WOOD 100 WJMS	1270 1420	NEW HAMPSH			
Jackson I-21 Kalamazoo I-21	100 WIBM	1370	Laconia G-28 Manchester G-28	100 500	WKAV WFEA	1310 1430
Kalamazoo 1-21 Lapeer H-22	1000 WKZO 100 WMPO	590 1500				2 20 0
Ludington H-20 Marquette F-19	50 WKBZ 100 WBEO	1500	NEW JERSEY Asbury Park I-27	500	WCAP	1200
Royal Oak H-22	50 WEXL	1310	Atlantic City J-27	5000	WPG	1280 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 WHOM	940
Minneapolis G-17	5000 WCCO 1000 WDGY		li	500 250	WKBO	1450 1450
	500 WHDI	1180	Newark I-27	1000 250	WAAM WGCP	1250 1250
Moorhead F-15	1000 WRHN 50 KGFK	1 1250 1500		250	WNJ	1450
Northfield G-17	1000 KFMX 1000 WCAL	1500 1250 1250	Paterson I-27	5000 1000	WOR WODA	710 1250
St. Paul G-17	1000 WLB	1250	Red Bank I-27	100 500	WJBI WOAX	1210 1280
	10000 KSTP	1460	Trenton I-26 Zarephath I-27	250	WAWZ	1350
MISSISSIPPI			NEW MEXICO			
Greenville O-18 Gulfport Q-19	100 WRBQ 100 WGCN	1210 1 1210	Albuquerque N-7	250	KGGM	1230
Hattiesburg O-19	10 WRBJ	1370	Raton M-11 State College P-9	20000	KGFL · KOB	1370 1180
Jackson P-19 Meridian P-20	1000 WJDX 500 WCOC	1270 880	_	20000	KOB	1100
Tupelo N-20 Vicksburg P-18	100 WDIX 500 WQBC	1500 1360	NEW YORK		******	
	000 WQDC	1500	Albany H-27 Auburn H-25	500 100	WOKO WMBO	1440 1310
MISSOURI Cp. Girardeau L-19	100 KFVS	1210	Binghamton H-26 Brooklyn I-27	100 500	WNBF WBBC	1500 1400
Columbia K-17	500 KFRU	630	Brooklyll 1-27	1000	WBBR	1300
Grant City J-16 Jefferson City L-17	100 KGIZ 500 WOS	1500 630		500 500	WCGU WFOX	$\frac{1400}{1400}$
Joplin M-16 Kansas City K-16	100 WMBH 1000 KMBC	I 1420 950	i	500 100	WLTH WMBQ	1400 1500
ransas city re-10	100 KWKC	1370		100	WMIL	1500
	1000 WDAF 500 WHB	610 860	Buffalo H-24	$\frac{1000}{100}$	WBEN WEBR	$\frac{900}{1310}$
St. Joseph K-16	1000 WOQ 2500 KFEO	1300 680		1000 5000	WGR WKBW	550 1480
	100 KGBX	1310		1000	WMAK	1040
St. Louis L-18	500 KFUO 100 KFWF 50000 KMOX	550 1200	Canton F-26	50 500	WSVS WCAD	1370 1220
	50000 KMOX 500 KSD	1090 550	Freeport I-27	100 50	WGBB WBGF	1210 1370
	1000 KWK	1350	Glens Falls G-27 Ithaca H-25	1000	WEAI	1270
	1000 WEW 100 WIL	760 1200	Jamaica H-27	50 100	WLCI WMRJ	1210 1210
MONTANA			Jamestown H-24	25	WOCL	1210
Billings F-9	1000 KGHL	950	Long Island City I-27 New York City I-27	100 5000	WLBX WABC	1500 860
Butte F-7 Great Falls E-8	500 KGIR 1000 KFBB	1360 1280		250 5000	WBNX WBOQ -	1350 860
Kalispell D-7 Missoula E-7	100 KGEZ 100 KGVO	1310 1420		250	WCDA	1350
Wolf Point E-11	100 KGCX	1310		50000 500	WEAF WEVD	660 1300
NEBRASKA				500 1000	WGBS WHAP	1180 1300
Clay Center J-14	1000 KMMJ			250	WHN	1010
Lincoln J-15	5000 KFAB 100 KFOR	770 1210		30000 5000	WJZ WLWL	760 1100
Norfolk I-15	500 WCAI	590 1060		500 250	WMCA WMSG	570 1350
North Platte J-13	500 KĞNF	1430		500	WNYC	570
Omaha J-15	500 WAAW 1000 WOW	660 590		1000 250	WOV WPAP	1130 1010
Ravenna J-14	100 KGFW	1310		500	WPCH	810
Scottsbluff I-11 York J-15	100 KGKY 500 KGBZ	1500 930		250 250	WQAO WRNY	$\frac{1010}{1010}$
-						

Patchogue I-27	100	WPOE	1370	Medford G-2	100	KMED	1310
Rochester G-25	5000	WHAM	1150	Portland E-3	5000	KEX	1180
1001100001 0 21	500	WHEC	1440	i	100	KBPS	1420
Saranac Lake F-26	50	WNBZ	1290		500	KF JR KGW	1300
Schenectady G-27	50000	WGY	790	1	1000 1000	KOIN	620 940
Syracuse G-25	1000	WFBL WMAC	1360 570		500	KTBR	1300
	250 250	WSYR	570	!	500	KWII	1060
Troy G-27	500	WHAZ	1300	1	100	KWJJ KXL	1420
Tupper Lake F-26	100	WHDL	1420	L			
Utica G-26	100	WIBX	1200	l pennsylvani	A		
Woodside I-27	100	WWRL	1500		250	WCD 4	1440
Yonkers I-27	100	WCOH	1210	Allentown I-26	250 250	WCBA WSAN	1440 1440
WORKER OF BOT	7374			Altoona I-25	100	WFBG	1310
NORTH CAROL	LINA			Carbondale H-26	10	WNBW	1200
Asheville M-23	1000	WWNC	570	Elkins Park I-26	25	WIBG	930
Charlotte M-24	5000	WBT	1080	Erie H-24	100	WEDH	1420
Gastonia M-24	100	WSOC	1210	Grove City I-24	100	WSAJ	1310
Greensboro M-24	$\begin{array}{c} 500 \\ 1000 \end{array}$	WBIG WPTF	1440 680	Harrisburg I-25	500 100	WBAK WCOD	1430 1200
Raleigh M-25 Wilmington N-26	100	WRAM	1370		500	WHP	1430
Winston-Salem M-24	100	WSJS	1310	Johnstown J-24	100	WIAC	1310
				Lancaster I-26	100	WJAC WGAL	1310
NORTH DAKO	TA				100	WKJC	1200
	1000	VEVD	550	Lewisburg I-26	100	WJBU	1210
Bismarck F-13	100	KFYR KDLR	1210	Oil City I-24	500 10000	WLBW WCAU	1260 1170
Devils Lake E-14 Fargo F-15	1000	WDAY	940	Philadelphia I-26	100	WELK	1370
Grand Forks E-15	100	KFJM	1370	1	500	WFAN	610
Mandan F-13	100	KGCU	1240		500	WFI	560
Minot E-13	100	KLPM	1240		100	WHAT	1310
					500	WIP	610
OHIO					500 100	WLIT WPEN	560 1500
Akron I-23	1000	WADC	1320		250	WRAX	1020
Canton I-23	10	WHBC	1200		100	WTEL	1310
Cincinnati K-22	100	WFBE	1200	Pittsburgh J-24	50000	KDKA	980
	1000	WKRC	550		500	$KQV_{\underline{}}$	1380
	50000	WLW	700		1000	WCAE	1220
Cleveland I-23	500 500	WSAI WGAR	1330 1450		$\frac{1000}{100}$	WJAS WWSW	$\frac{1290}{1500}$
Cieveland 1-23	1000	WHK	1390	Reading I-26	1000	WEEU	830
	500	WJAY WTAM	610	reading 1-20	100	WRAW	1310
	50000	WTAM	1070	Scranton H-26	250	WGBI	880
Columbus J-22	500	WAIU	640		250	WQAN	880
	500 750	WCAH WEAO	1430 570	State College I-25	500 100	WPSC WNBO	$\frac{1230}{1200}$
	100	WSEN	1210	Washington J-24 Wilkes-Barre I-26	100	WBAX	1210
Dayton J-22	200	WSMK	1380	Wilkes-Barre 1-20	100	WBRE	1310
Dayton J-22 Mansfield J-22	100	WJW	1210	Williamsport I-25	100	WRAK	1370
Mount Orab K-22	100	WHBD	1370	1			
Steubenville J-23	50 1000	WIBR WSPD	1420 1340	PHILIPPINES			
Toledo I-22 Youngstown I-23	500	WKBN	570	1	500	W7DC	1200
Zanesville J-23	100	WALR	1210	Cebu	1000	KZRC KZIB	1300 1153
				Manila	1000	KZKA	1110
OKLAHOMA					500	KZRM	625
Chickasha N-14	250	KOCWI	1400				
Elk City N-13	100	KOCW! KGMP	1210	PORTO RICO			
Enid M-14	100	KCRC	1370	San Juan W-34	250	WKAO	890
Norman N-15	500	WNAD	1010	San Juan W-34	200	WICAQ	090
Oklahoma N-15	5000	KFJF	1480	DIVODE IOI IN	-		
	100	KFXR	1310	RHODE ISLAN	D		
	100 1000	KGFG	1370 900	Newport H-28	100	WMBA	1500
Ponce City M-15	1000	$\begin{array}{c} WKY \\ WBBZ \end{array}$	1200	Pawtucket H-28	100	WPAW	1210
Ponca City M-15 S. Coffeyville M-15	500	KGGF	1010	Providence H-28	100	WDWF	1210
Shawnee N-15	100	KGFF	1420		250 250	WEAN WJAR	780 890
Tulsa M-15	5000	KVOO	1140		100	WPRO	1210
,					100		1210
OREGON				COLUMN CAROL	TNIA		
Astoria D-2	100	KFJI	1370	SOUTH CAROI			
Corvallis E-2	1000	KOAC	550	Charleston O-25	500	WCSC	1360
Eugene F-2	100	KORE	1420	Columbia N-24	500 100	WIS WSPA	1010 1420
Marshfield F-1	100	Koos	1370	Spartanburg N-23	100	WSPA	1420

V							
SOUTH DAKO	ΓA Watts		Kcys.	VIRGINIA	Watts		Keys.
Brookings H-15		KFDY	550	Alexandria K-26	10000	WJSV	1460
Huron H-14 Mitchell H-14	$\frac{100}{100}$	KGDY KGDA	1200 1370	Arlington J-25 Danville L-25	$\frac{1000}{100}$	NAA WBTM	690 1370
Pierre G-13 Rapid City H-12	200	KGFX	580	Emory L-23	500	WEHC WLVA	1350
Rapid City H-12 Sioux Falls H-15	100 2500	WCAT KSOO	1200 1110	Lynchburg L-25 Newport News L-26	$\frac{100}{100}$	WLVA WGH	$\frac{1370}{1310}$
Vermillion I-15	500	KUSD	890	Norfolk L-26	500	WPOR	780
Watertown G-15 Yankton I-15	$\frac{100}{1000}$	KGCR WNAX	1210 570	Petersburg L-26	500 100	WTAR WLBG	780 1200
I ankton 1-15	1000	WINAA	3/0	Richmond K-26	100	WBBL	1210
TENNESSEE			- 1		100 5000	WMBG	1210
Bristol L-23	100	WOPI	1500	Roanoke L-24	250	WRVA WDBJ	1110 ~ 930
Chattanooga N-21	1000	WDOD	1280	i	250	WRBX	1410
Jackson N-20 Knoxsville M-22	100 50	WTJS WFBC	1310 1200	WASHINGTON			
Terronoviale ivi aa	1000	WNOX	560	Aberdeen D-2 Bellingham C-3	100 100	KXRO KVOS	$\frac{1310}{1200}$
Memphis N-19	100 500	WROL WGBC	1310 1430	Everett C-3	50	KFBL	1370
Mempins 14-17	100	WHBQ	1370	Lacey D-3	$\frac{10}{1000}$	KGY	1200
	500 500	WMC WNBR	780 1430	Pullman E-5 Seattle C-3	5000	KWSC KJR	1220 970
	500	WREC	600		1000	KOL	1270
Nashville M-21	5000 5000	WLAC	1470 650		$\frac{1000}{100}$	KOMO KPCB	920 650
Springfield M-20	100	WSM WSIX	1210		50	KRSC	1120
opg.					$\frac{1000}{100}$	KTW KVL	1220 1370
TEXAS					500	KXA	570
Abilene P-13		KFYO	1420	Spokane D-5	100 1000	KFIO KFPY	$\frac{1120}{1340}$
Amarillo N-12	1000 1000	KGRS WDAG	1420 1410		5000	KGA	1470
Austin Q-14	100	KUT	1500	T	1000	KHO	590
Beaumont R-17 Brownsville U-15		KFDM KWWG	560 1260	Tacoma D-3	500 1000	KMÒ KVI	860 760
College Sta. Q-15	500	WTAW	1120	Walla Walla E-5	100	KUJ	1370
Corpus Christi S-14		KGFI	1500	Wenatchee D-4 Yakima D-4	50 50	KPQ KIT	$\begin{array}{c} 1500 \\ 1310 \end{array}$
Dallas P-15	10000 50000	KRLD WFAA	1040 800	1			1010
D 111 D 14	500	WRR	1280	WEST VIRGINI		WILLS	1410
Dublin P-14 El Paso P-9	100 100	KFPL KTSM	1310 1310	Bluefield L-24 Charleston K-23	250 250	WHIS WOBU	580
	100	WDAH	1310	Fairmount J-24	250	WMMN	890
Fort Worth P-15	$\frac{100}{1000}$	KFJZ KTAT	1370 1240	Huntington K-23 Wheeling J-24	250 5000	WSAZ WWVA	$\frac{580}{1160}$
	10000	WBAP	800		0000		
Galveston R-16		KFLX KFUL	1370 1290	WISCONSIN	1000	WTAO	1220
Greenville O-15	15	KFPM	1310	Eau Claire G-18 Fond du Lac H-19	$\frac{1000}{100}$	WTAQ KFIZ	1330 1420
Harlingen T-14 Houston R-16	500 1000	KRGV KPRC	1260 920	Green Bay G-19	100	WHBY	1200
Houston K-10	100	KTLC	1310	Janesville I-19 La Crosse H-18	100 1000	WCLO WKBH	$\frac{1200}{1380}$
		KTRH	1120	Madison H-19	750	WHA	940
San Angelo Q-13	100 100	KX YZ KGKL	1420 1370	Manitowoc H-20	500 100	WIBA Womt	1280 1210
San Antonio R-14	100	KABC	1420	Milwaukee H-19	250	WHAD	1120
	100 100	KMAC KONO	1370 1370		250 1000	WISN WTMJ	1120 620
	1000	KTSA	1290	Poynette H-19	1000	WIBU	1210
T-1 D 16	50000 100	WOAI KGKB	1190 1500	Racine I-20	100	WRJN	1370
Tyler P-16 Waco Q-15	1000	WACO	1240	Sheboygan H-20 Stevens Pt. G-19	500 2000	WHBL WLBL	1410 900
Wichita Falls O-14	250	KGKO	570	Superior F-17	1000	WEBC	1290
TITALE				WYOMING			
UTAH				Casper H-10	100	KDFN	1210
Ogden I-7 Salt Lake City I-7	$\frac{500}{1000}$	KLO KDYL	1400 1290	ļ			1210
Sait Dake City 1-7	5000	KSL	1130	CAI	NADA	1	
VERMONT				ALBERTA			
Burlington F-27	100	WCAX	1200	Calgary B-7	500	CFAC	690
Rutland G-27	100	WSYB	1500	Cangary D-7	10000	CFCN	985
St. Albans F-27	100 10	WQDM WNBX	1370 1200		500 500	CHCA	690 690
Springfield G-27 Waterbury F-27	50	WDEV	1420	1	500	CJCJ CNRC	690
	- "						

Edmonton A-8	250	CHMA	580	QUEBEC	Watt		Keys.
	500 500	CJCA CKUA	930 580	Montreal E-26	1650	CFCF	1030
Lethbridge C-8	100	CJOC CHCT	1120		5000 5000	CHYC	730 730
Red Deer A-8	$\frac{1000}{1000}$	CKLC	840 840		5000	CKAC CNRM	730
	1000	CNRD	840	Quebec D-27	100 100	CHRC CKCI	645 645
DDITICH COLL	IN ATO T A		ļ		50	CKCV	880
BRITISH COLU Chilliwack B-3	100	CHWK	665		50	CNRQ	880
Kamloops B-5	100	CFJC	1120	SASKATCHEWA			
Sea Island Vancouver B-3	500 50	CJÓR CHLS	1210 730	Fleming C-13	500 500	CJRW CJRM CHWC	665 665
vancouver B-3	50	CKCD	730	Moose Jaw C-11 Regina C-12	500	CHWC	960
	50 50	CKFC CKMO	730 730	_	500	CJBR CKCK	960 960
	100	CKWX	730		500 500	CNRR	960
W 6-1 0.1	500	CNRV	1030	Saskatoon B-11	500	CFQC	910
Victoria C-3	50	CFCT	630	Yorkton B-13	500 500	CNŘS CJGX	910 630
MANITOBA				İ			
Brandon D-14	500	CKX	540	CENTRAL	AM	ERICA	
Winnipeg D-15	5000 5000	CKY CNRW	780 780	COSTA RICA			
				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	$\begin{array}{c} 1210 \\ 630 \end{array}$	GUATAMALA			
St. John D-30	500	CFBO	890	Guatamala CC-19	50	TGW	570
NEWFOLINDI A	N.T.			HONDURAS			
NEWFOUNDLA	500	VOWR	675	Tegucigalpa CC-21	2300	HRB	1370
St. Johns A-35	300	VOWK	673		2000		
NOVA SCOTIA				SALVADOR	# 00	DIVO	
Glace Bay C-32	10000	VAS	685	Salvador CC-19	500	RUS	664
Halifax E-31	500 500	CHNS CNRH	910 910	MEX	TCC		
Sydney C-32 Wolfville D-31	50 50	CJCB CKIC	880 1010	1		,	
WOHVINE D-31	30	CRIC	1010	AGUASCALIENT			
ONTARIO			į	Aguascalientes W-10	350	XFC	805
Chatham H-22	100	CFCO	1210	CHIHUAHUA			
Cobalt E-23	100 500	CKMC CHCS	1210 1010	Chihuahua, Chih. R-9	250	XFF	915
Hamilton H-24	50	CHML	880	COAHUILA			
Vingston C 25	500 50	CKOC CFRC	1010 930	Juarez P-9	101	XEJ	857
Kingston G-25 London H-23	5000	CJGC	910		1000	XEQ	1015
North Bay	500 50	CNRL CFCH	910 930	Saltillo, Coah. U-12	10	XEL	1091
Ottawa F-25	100	CKCO	890	D. F.			
Port Arthur E-19	500 50	CKPR	600 890	Mexico City Y-13	1000	XEB	1030
Prescott F-25	50	CKPR CFLC	930		250	XEFA	1250
Preston H-23	50 500	CKPC CFCA	$\begin{array}{c} 1210 \\ 840 \end{array}$		$\frac{101}{1000}$	XEK XEN	990 711
Toronto G-24	500	CFCL	580	1	5000	XEO	940
	5000	CFRB	960	İ	101 500	XER XETA	674 1140
	500 5000	CKCL CKGW	580 690		100	XETO	1360
	500	CKNC	580		2000 500	XETY XEX	1300 1210
	500 5000	CNRT CNRX	840 960		5000	XEW	910
	5000	CPR Y	690		500 2000	XEZ XFG	588 638
	50	CKCR	645		1000	XFI	818
Waterloo G-23				i	500	XFX	860
		CI AND	- 1	Toluca Y-12	50		1333
PRINCE EDWA	RDS I		590	Toluca. Y-12	50	XEC	1333
		SLAND CFCY CHCK CHGS	580 1010 1120	Toluca. Y-12 JALISCO Guadalajara, Jal. X-10	50		1333

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CFAC 690		CJRW 665		CMBS 790		CMKD 1100	<u> </u>
Calgary, Alta.		Fleming, Sask.		Havana, Cuba		Santiago, Cuba	
CFBO 890 St. John, N. B.		CKAC 730 Montreal, Que.		CMBT 1070 Havana, Cuba		CMKE 1249 Santiago, Cuba	
CFCA 840		CKCD 730		CMBW 1010		[CMKF 1363	
Toronto, Ont.		Vancouver, B. C.		Havana, Cuba		Holguin, Cuba	
CFCF 1030 Montreal, Que.		CKCI 645 Quebec, Que.		CMBX 1405 Havana, Cuba		CMKG 1176 Santiago, Cuba	
CFCH 930		CKCK 960		1 CMBY 1405		CMKH 1327	
North Bay, Ont.		Regina, Sask.		Havana, Cuba		Santiago, Cuba	
CFCL 580	- 1	CKCL 580 Toronto, Ont.		CMBZ 1010		CMQ 1150	
Toronto, Ont. CFCN 985		CKCO 890		Havana, Cuba CMC 840		Havana, Cuba CMW 588	
Calgary, Alta.		Ottawa, Ont.		Havana, Cuba		Havana, Cuba	
CFCO 1219	ļ	CKCR 645		CMCA 1225		CMX 890	
Chatham, Ont. CFCT 630		Waterloo, Ont. CKCV 880	I	Havana, Cuba CMCB 1070		Havana, Cuba CNRA 630	
Victoria, B. C.		Quebec, Que.		Havana, Cuba		Moncton, N. B.	
CFCY 580		CKFC 730		CMCD 1225		CNRC 690	
Ch'lottet'n,P.E.I. CFJC 1120		Vancouver, B. C. CKGW 690		Havana, Cuba CMCF 890		Calgary, Alta. CNRD 840	
Kamloops, B. C.		Toronto, Ont.		Havana, Cuba		Red Deer, Alta.	
CFLC 930		CKIC 1010		CMCG 1285	——	CNRH 910	
Prescott, Ont. CFNB 1210		Wolfville, N. S. CKLC 840		Havana, Cuba CMCH 1285		Halifax, N. S. CNRL 910	
Fredericton, N.B.	- 1	Red Deer, Alta.		Havana, Cuba		CNRL 910 London, Ont.	
CFQC 910		CKMC 1210		CMCM 1500		CNRM 730	
Saskatoon, Sask.		Cobalt, Int. CKMO 730		Havana, Cuba		Montreal, Que.	
CFRB 960 Toronto, Ont.	- 1	Vancouver, B. C.		CMCN 1225 Havana, Cuba		CNRO 600 Ottawa, Ont.	
CFRC 930		CKNC 580		CMCO 660		CNRQ 880	
Kingston, Ont.		Toronto, Ont.		Havana, Cuba		Quebec, Que.	
CHCA 690 Calgary, Alta.		CKOC 1010 Hamilton, Ont.		CMCQ 1150 Havana, Cuba		CNRR 960 Regina, Sask.	
CHCK 1010		CKPC 1210		CMCR 1285		CNRS 910	
Ch'lottet'n, P.E.I.]	Preston, Ont. CKPR 890		Havana, Cuba		Saskatoon, Sask.	
CHCS 1010 Hamilton, Ont.		CKPR 890 Port Arthur, Ont.		Havana, Cuba		CNRT 840 Toronto, Ont.	
CHCT 840		CKUA 580		I CMCU 1345		CNRV 1030	
Red Deer, Alta.		Edmonton, Alta.		Havana, Cuba		Vancouver, B. C.	
CHGS 1120 Sum'rside, P.E.I.	- 1	Vancouver, B. C.		CMCY 1345 Havana, Cuba		CNRW 780 Winnipeg, Man.	
CHLS 730		CKX 540		1 CMGA 834		CNRX 960	
Vancouver, B.C.		Brandon, Man. CKY 780		Colon, Cuba		Toronto, Ont.	
CHMA 580 Edmonton, Alta.		Winnipeg, Man		CMGB 1185 Matanzas, Cuba		CPRY 690 Toronto, Ont.	
CHML 880		CMAB 1249		CMGD 1140		HHK 920	
Hamilton, Ont. CHNS 910		Pinar del Rio, Cu CMAC 1375		Matanzas, Cuba CMGE 1375		Port au Prince, H.	
CHNS 910 Halifax, N. S.		CMAC 1375 Pinar del Rio, Cu		CMGE 1375 Cardenas, Cuba		HIX 669 Santo Domingo	
CHRC 645		CMBA 1345		CMGF 977		HRB 1370	
Quebec, Que. CHWC 960		Havana, Cuba CMBC 965		Matanzas, Cuba		Tequeigalpa	
CHWC 960 Regina, Sask.	ĺ	CMBC 965 Havana, Cuba		CMGH 780 Matanzas, Cuba		KABC 1420 San Antonio, Tex.	
CHWK 665		CMBD 965		CMHA 1154		KBPS 1420	
Chilliwack, B. C.		Havana, Cuba		Cienfuegos, Cuba	 	Portland, Ore.	
CHYC 730 Montreal, Que.	i	CMBF 1345 Havana, Cuba		CMHC 790 Tuinucu, Cuba		KBTM 1200 Paragould, Ark.	
CJBR 960		CMBG 1070		CMIII 1110		KCRC 1370	
Regina, Sask.		Havana, Cuba		Santa Clara, Cu CMHJ 645		Enid, Okla.	
CJCA 930 Edmonton, Alta.		CMBI 1405 Havana, Cuba		CMHJ 645 Cienfuegos, Cuba		KCRJ 1310	
CJCB 880		CMBJ 1285		CMJB 1276		Jerome, Ariz. KDB 1500	
Sydney, N. S.		Havana, Cuba		Ciego de Avila		S. Barbara, Cal.	
CJCJ 690	- 1	CMBK 1405		CMJC 1321		KDFN 1210	
Calgary, Alta		Havana, Cuba CMBL 1500		Camaguey, Cuba CMJE 856		Casper, Wyo. KDKA 980	
London, Ont.		Havana, Cuba		Camaguey, Cuba		Pittsburgh, Pa.	
CJGX 630	1	CMBM 1285		CMK 730		KDLR 1210	
Yorkton, Sask. CJOC 1120		Havana, Cuba CMBN 1405		Havana, Cuba CMKA 1450		Devils Lake, N.D. KDYL 1290	
Lethbridge, Alta.		Hayana, Cuba		Santiago, Cuba		Salt Lake City	
CJOR 1210		CMBQ 1405		CMKB 1200		KECA 1430	
Sea Island, B. C CJRM 665		Havana, Cuba CMBR 1500		Santiago, Cuba CMKC 1034		Los Angeles, Cal. KELW 780	
Moose Jaw, Sask.		Havana, Cuba		Santiago, Cuba		Burbank, Cal.	
,	1	,		3-,		KEX 1180	
-						Portland, Ore.	
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FAB 770	KFSD 600		KGFG 1370 Oklahoma City		KIT 1310 Yakima, Wash.	
incoln, Nebr. FAC 1300	San Diego, Cal. KFSG 1120		KGFI 1500		KJBS 1070	
os Angeles, Cal.	Los Angeles, Cal.		Corp's Ch'sti, Tex		San F'ncisco, Cal.	
FRR 1280	KFUL 1290		KGFJ 1200		l KJR 970	
reat Fls., Mont.	Galveston, Texas		Los Angeles, Cal. KGFK 1500		Seattle, Wash. KLCN 1290	_
IFBI 1050 filford, Kans.	KFUO 550 St. Louis, Mo.		KGFK 1500 Moorhead, Minn.		Blytheville, Ark.	i
FBK 1310	KFUP 1310		KGFL 1370		l KLO 1400	
acramento, Cal.	Denver, Colo.		Raton, N. M.		Ogden, Utah	
FBL 1370	1 KFVD 1000		KGFW 1310		KLPM 1240	
verett, Wash.	Culver City, Cal.		Ravenna, Nebr.		Minot, N. Dak.	
FDM 560	KFVS 1210		KGFX 580		KLRA 1390 Little Rock, Ark.	i
eaumont, Tex. FDY 550	Cape Gir'rd'u, Mo KFWB 950		Pierre, S. D. KGGC 1420		KLS 1440	
rookings, S. D.	Hollywood, Cal.	· 1	San F'ncisco, Cal.		Oakland, Cal.	
FEL 920	KFWF 1200		KGGF 1010		I KLX 880	
enver, Colo.	St. Louis, Mo.		Coffeyville, Okla. KGGM 1230		Oakland, Cal.	
FEQ 680	KFWI 930		KGGM 1230		KLZ 560	İ
. Joseph, Mo.	San F'ncisco, Cal.		Albuq'rque, N.M. KGHF 1320		Denver, Colo. KMA 930	
FGQ 1310	KFXD 1420		RGHF 1320	1	KMA 930 Shenandoah, Ia.	İ
oone, Iowa FH 1300	Nampa, Idaho KFXF 920		Pueblo, Coio. KGHI 1200		KMAC 1370	
ichita, Kansas	Denver, Colo.		Little Rock, Ark.		San Antonio, Tex.	
FI 640	KFXJ 1310		KGHL 950		KMBC 950	
os Angeles, Cal.	Grand June., Col.		Billings, Mont.		Kan. City, Mo. KMCS 1120	
FIO 1120	KFXM 1210		KGIR 1360		KMCS 1120	
ookane, Wash.	San Ber'd no, Cal.		Butte, Mont.		Inglewood, Cal.	
FIZ 1420 ond du Lac, Wis.	KFXR 1310 Oklahoma City		KGIW 1420 Trinidad, Colo.		KMED 1310 Medford, Ore.	
FJB 1200	KFXY 1420		KGIX 1420		KMJ 1210	
arshalltown, Ia.	Flagstaff, Ariz.		Las Vegas, Nev.		Fresno, Cal.	į .
FJF 1480	KFYO 1420				KMLB 1200	
klahoma City	Abilene, Texas		Grant City, Mo. KGJF 890		Monroe, La.	_
FJI 1370	KFYR 550		KGJF 890		KMMJ 740	1
storia, Ore.	Bismarck, N. D. KGA 1470		Little Rock, Ark. KGKB 1500		Clay Ctr., Nebr. KMO 860	
FJM 1370 rd. Forks, N.D.	KGA 1470 Spokane, Wash.		Tyler, Texas		Tacoma, Wash.	
FJR 1300	KGAR 1370		I KGKL 1370		KMOX 1090	
ortland, Ore.	Tucson, Arizona		San Angelo, Tex.		St. Louis, Mo.	
FJY 1310	KGB 1330		KGKO 570		KMPC 710	1
ort Dodge Ia.	San Diego, Cal.		Wichita Flls., Tex.		Los Angeles, Cal. KMTR 570	
t. Worth, Tex.	KGBU 900 Ketchikan, Al'ka		KGKX 1420 Sand Point, Idaho		Los Angeles, Cal.	
FKA 880	KGBX 1310		KGKV 1500		KNX 1050	
reeley, Colo.	St. Joseph, Mo.		Scottsbluff, Nebr. KGMB 1320		Los Angeles, Cal.	
FKU 1220	1 KGBZ 930 1		KGMB 1320		KOA 830	1
awrence, Kans.	York, Nebr.		Honolulu, T. H.		Denver, Colo.	
FKX 1020	KGCA 1270 Decorah, Iowa		KGMP 1210		KOAC 550 Corvallis, Ore.	
hicago, Ill. FLV 1410	KGCR 1210		Elk City, Okla. KGNF 1430		I KOR 1180	
ockford, Ill.	Watertown, S. D.		No. Platte, Nebr.	1	State Coll., N.M.	
FLX 1370	KGCU 1240		I KCNO 1210		I KOCW 1400	
alveston, Tex.	Mandan, N. D.		Dodge City, Kas. KGO 790		Chickasha, Okla.	
FM X 1250	KGCX 1310	1	KGO 790	 	KOH 1380	
thfield, Minn.	Wolf P't, Mont. KGDA 1370		San F'ncisco, Cal. KGRS 1410		Reno, Nevada KOIL 1260	
enandoah, Ia.	Mitchell, S. D.		Amarillo, Texas		Council Bluffs, Ia.	
FOR 1210	KGDE 1200		KGU 940		KOIN 940	
ncoln, Nebr.	Fergus Falls, Minn		Honolulu, Hawaii		Portland, Ore.	_
FOX 1250	KGDM 1100		KGVO 1420		KOL 1270	
ong Beach, Cal.	Stockton, Cal.		Missoula, Mont.		Seattle, Wash.	1-
FPL 1310	KGDY 1200		KGW 620		KOMO 920	
ublin, Texas FPM 1310	Huron, S. D. KGEF 1300		Portland, Ore. KGY 1200		Seattle, Wash. KONO 1370	-
reenville, Texas	Los Angeles, Cal.		Lacey, Wash.		San Antonio, Tex.	
FPW 1340	ł KGEK 1200		KHJ 900		KOOS 1370	
. Smith, Ark.	Yuma, Colo.		Los Angeles, Cal.		Marshfield, Ore.	
FPY 1340	KGER 1360		KHO 590		KORE 1420	
ookane, Wash.	Long Beach, Cal.		Spokane, Wash.		Eugene, Ore.	
FQD 1230	KGEW 1200		KICK 1420		KOY 1390	
nchorage, Alas. FQU 1420	Ft.Morgan, Colo. KGEZ 1310		Red Oak, Iowa KID 1320		Phoenix, Arizona KPCB 650	
FQU 1420 oly City, Cal.	KGEZ 1310 Kalispell, Mont.		KID 1320 Idaho Falls, Ida.		Seattle, Wash.	
FRC 610	KGFF 1420		KIDO 1250		KPJM 1500	
	Shawnee, Okla.		Boise, Idaho		Prescott, Ariz.	
ın F'ncisco, Cal						1
nn F'ncisco, Cal FRU 630	Bhawnee, Okia.			1		
n F'ncisco, Cal FRU 630 olumbia, Mo	Individee, Onia.					

			WDEL
KPO 680	KUOA 1390	WABI 1200	WCAE 1220
San F'neisco, Cal. KPOF 880	Fayetteville, Ark KUSD 890	Bangor, Maine WABZ 1200	Pittsburgh, Pa. WCAH 1430
Denver, Colo.	Vermillion, S. D.	New Orleans, La.	Columbus, Ohio
KPPC 1210	KUT 1500	WACO 1240	WCAJ 590
Pasadena, Cal. KPQ 1500	Austin, Texas KVI 760	Waco, Texas WADC 1320	Lincoln, Nebr. WCAL 1250
Wenatchee, Wash	Tacoma, Wash.	Akron, Ohio	Northfield, Minn.
KPRC 920 Houston, Texas	KVL 1370 Seattle, Wash.	WAGM 1420	WCAM 1280
KQV 1380	KVOA 1260	Presque Isle, Mc. WAIU 640	Camden, N. J. WCAO 600
Pittsburgh, Pa.	Tucson, Arizona	Columbus, Ohio	Baltimore, Md.
KQW 1010 San Jose, Cal.	KVOO 1140 Tulsa, Okia.	WALR 1210	WCAP 1280 Asbury Pk., N. J.
KRE 1370	KVOR 1270	Zanesville, Ohio WAPI 1140	WCAT 1200
Berkeley, Cal.	Col. Sp'gs, Colo.	Birmingham, Ala.	Rapid City, S. D.
KREG 1500 Santa Ana, Cal.	KVOS 1200 Bellingh'm, Wash.	WASH 1270 Gr. Rapids, Mich.	WCAU 1170
KRGV 1260	KWCR 1310	WAWZ 1350	Philadelphia, Pa. WCAX 1200
Harlingen, Texas	Cedar Rapids, Ia.	Zarephath, N. J.	Burlington, Vt.
KRLD 1040 Dallas, Texas KRMD 1310	KWEA 1210 Shreveport, La.	WBAA 1400 Lafayette, Ind.	WCAZ 1070 Carthage, Ill.
KRMD 1310	KWG 1200	WBAK 1430	WCBA 1440
Shreveport, La.	Stockton, Cal.	Harrisburg, Pa.	Allentown, Pa.
KROW 930 Oakland, Cal.	KWJJ 1060 Portland, Ore.	WBAL 760-1060	WCBD 1080 Zion, Ill.
KRSC 1120	KWK 1350	Baltimore, Md. WBAP 800	WCBM 1370
Seattle, Wash.	St. Louis, Mo.	Fort Worth, Tex. WBAX 1210	Baltimore, Md.
KSAC 580 Manh'tt'n, Kans.	KWKC 1370 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 Decorah, Iowa	WBBL 1210 Richmond, Va.	WCDA 1350 New York City
KSEI 900	KWSC 1220	WBBM 770	WCFL 970
Pocatello, Idaho	Pullman, Wash. KWWG 1260	Chicago, Ill. WBBR 1300	Chicago, Ill.
KSL 1130 Salt Lake City	Brownsville, Tex.	WBBR 1300 Brooklyn, N. Y.	WCGU 1400 Brooklyn, N. Y.
KSMR 1200	KXA 570	11 WRRZ 1200	WCHI 1490
Santa Maria, Cal. KSO 1380	Seattle, Wash. KXL 1420	Ponca City, Okla. WBCM 1410	Chicago, Ill. WCKY 1490
Clarinda, Iowa	Portland, Ore.	Bay City, Mich.	Covington, Ky.
KSOO 1110	KXO 1500	WBEN 900	WCLO 1200
Sioux Falls, S. D. KSTP 1460	El Centro, Cal. KXRO 1310	Buffalo, N. Y. WBEO 1310	Janesville, Wis. WCLS 1310
St. Paul, Minn.	Aberdeen, Wash.	Marquette, Mich.	Joliet, Ill.
KTAB 560	KXYZ 1420 Houston, Texas	WBGF 1370 Glens Falls, N. Y.	WCMA 1400
San F'neisco, Cal. KTAR 620	il KYA 1230	H WBHS 1200	Culver, Ind. WCOA 1340
Phoenix, Ariz.	San F'neisco, Cal.	Huntsville, Ala.	Pensacola, Fla.
KTAT 1240 Ft. Worth, Tex.	KYW 1620 Chicago, Ill.	WBIG 1440 Greensboro, N.C.	WCOC 880 Meridian, Miss.
KTBR 1300	NAA 690	WBIS 1230	WCOD 1200
Portland, Ore.	Arlington, Va.	Boston, Mass.	Harrisburg, Pa.
KTBS 1450 Shreveport, La.	RUS 664 Salvador	WBMS 1450 Hackensack, N.J.	WCOH 1210 Yonkers, N. Y.
KTFI 1320	TGW 570	II WBNX 1350	WCRW 1210
Twin Falls, Ida. KTHS 1040	Guatamala TIC 900	New York City	Chicago, Ill. WCSC 1360
Hot Spgs., Ark.	TIC 900 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. WBRC 930	Portland, Maine WDAE 1220
Los Angeles, Cal.	St. Johns, N. F.	Birmingham, Ala.	Tampa, Fla.
KTRH 1120	WAAB 1410	WBRE 1310	WDAF 610
Houston, Texas KTSA 1290	Boston, Mass. WAAF 920	Wilkes-Barre, Pa. WBSO 920	Kansas City, Mo. WDAG 1410
San Antonio, Tex.	Chicago III	Needham, Mass.	Amarillo, Texas
KTSL 1310	WAAM 1250 Newark, N. J.	WBT 1080	WDAH 1310
Shreveport, La. KTSM 1310	Newark, N. J. WAAT 940	Charlotte, N. C. WBTM 1370	El Paso, Texas WDAY 940
El Paso, Texas	Jersey City, N. J.	Danville, Va.	Fargo, N. D.
KTW 1220	WAAW 660	WBZ-A 990	Fargo, N. D. WDBJ 930
Seattle, Wash. KUJ 1378	Omaha, Nebr. WABC 860	Springfield, Mass. WCAC 600	Roanoke, Va. WDBO 1120
Walla Wal., Wash.	New York City	Storrs, Conn.	Orlando, Fla.
	1	H WCAD 1220	WDEL 1120
		Canton, N. Y.	Wilmington, Del.
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WDEV 1420	WFDW 1420		WHDI 1180		WJBO 1420	
Waterbury, Vt.	Anniston, Ala.		Minneap., Minn.		New Orleans, La.	
WDGY 1180 Minneap., Minn.	WFEA 1430 Manchester, N.H.	į	WHDL 1420 Tupp'r L'ke,N.Y.	Į	WJBT 770 Chicago, Ill.	
WDIX 1500	WFI 560		WHEC 1440		WJBU 1210	
Tupelo, Miss.	Philadelphia, Pa.		Rochester, N. Y.		Lewisburg, Pa.	
WDOD 1280	WFIW 940 Hopkinsville, Ky.	1	WHFC 1420	-	WJBW 1200	
Chattan'ga, Tenn WDRC 1330	WFLA 620		Cicero, Ill. WHIS 1410		New Orleans, La. WJBY 1210	
Hartford, Conn.	Clearwater, Fla.	- 1	Bluefield, W. Va.		Gadsden, Ala.	
WDSU 1250	WFOX 1400		WHK 1390		WJDX 1270	
New Orleans, La. WDWF 1210	Brooklyn, N. Y. WGAL 1310		Cleveland, Ohio WHN 1010		Jackson, Miss. WJJD 1130	
Providence, R. I.	Lancaster, Pa.	- !	New York City		Mooseheart, Ill.	
WDZ 1070	WGAR 1450		WHO 1000		WJKS 1360	
Tuscola, Ill.	Cleveland, Ohio		Des Moines, Ia.		Gary, Ind. WJMS 1420	
WEAF 660 New York City	WGBB 1210	- 1	WHOM 1450		WJMS 1420	
WEAI 1270	Freeport, N. Y. WGBC 1430		Jersey City, N. J. WHP 1430		Ironwood, Mich. WJR 750	
Ithaca, N. Y.	Memphis, Tenn.		Harrisburg, Pa.	l	Detroit, Mich.	
WEAI 1270 Ithaca, N. Y. WEAN 780	WGBF 630		WIAS 1420		WJSV 1460	
Providence, R. I.	Evansville, Ind.		Ottumwa, Iowa		Alexandria, Va.	
WEAO 570 Columbus, Ohio	WGBI 880	1	WIBA 1280		WJTL 1370	
WFRC 1200	Scranton, Pa. WGBS 1180		Madison, Wis. WIBG 930		Tifton, Ga. WJW 1210	
Superior, Wis.	New York City WGCM 1210		Elkins Park, Pa.		Mansfield, Ohio	
WEDQ 1210	WGCM 1210		WIBM 1370		WJZ 760	
Harrisburg, Ill.	Gulfport, Miss.		Jackson, Mich.		New York City	
WEBR 1310 Buffalo, N. Y.	WGCP 1250 Newark, N. J.	- 1	WIBO 560 Chicago, Ill.	i	WKAQ 890 San Juan, P. R.	
WEDC 1210	WGES 1360		WIBR 1420		WKAR 1040	
Chicago, Ill.	Chicago, Ill.		Steubenville, O.		E. Lansing, Mich.	
WEDH 1420	WGH 1310		WIBU 1210	ĺ	WKAV 1310	
Erie, Pa. WEEI 590	Newp't News, Va		Poynette, Wis		Laconia, N. H. WKBB 1310	
Boston, Mass.	Ft. Wayne, Ind.	ı	Topeka, Kansas	- 1	Joliet, Ill.	
WEEU 830	WGN 720		WIRY 1200		WKBC 1310	
Reading, Pa.	Chicago, Ill.		Utica, N. Y. WICC 600		Birmingham, Ala.	
WEHC 1350	WGR 550 Buffalo, N. Y.	- 1	WICC 600 Bridgeport, Conn	ì	WKBF 1400 Indianapolis, Ind.	
Emory, Va. WEHS 1420	WGST 890		WIL 1200		WKBH 1380	
Cicero, Ill.	Atlanta, Ga.		St. Louis, Mo.		La Crosse, Wis.	
WELK 1370		1	WILL SOU		WKBI 1420	
Philadelphia, Pa.	Schenec'dy, N.Y. WHA 940		Urbana, Ill		Cicero, Ill. WKBN 570	
WELL 1420 Battle C'k, Mich.	Madison, Wis.		Wilmington, Del.	i	Youngstown, O.	
44 TEL 110	WHAD 1120		WIOD 1300		WKBO 1450	
Chicago, Ill.	Milwaukee, Wis.		Miami, Fla.		Jersey City, N. J. WKBS 1310	
WEPS 1200 Worcester, Mass.	WHAM 1150 Rochester, N. Y.	1	WIP 610 Philadelphia, Pa.	- 1	WKBS 1310 Galesburg, Ill.	
WEVD 1300	WHAP 1300		WIS 1010		WKBV 1500	
New York City	New York City		Columbia, S. C.		Connersville, Ind.	
WEW 760	WHAS 820		WISN 1120	l	WKBW 1480	
St. Louis, Mo. WEXL 1310	Louisville, Ky. WHAT 1310		Milwaukee, Wis WJAC 1310		Buffalo, N. Y. WKBZ 1500	
Royal Oak, Mich.	Philadelphia Pa		Johnstown, Pa.		Ludington, Mich.	
	WHAZ 1300 Troy, N. Y. WHB 860		WJAG 1060		Ludington, Mich. WKJC 1200	
Dallas, Texas WFAM 1200	Troy, N. Y.		Norfolk, Nebr.		Lancaster, Pa.	
WFAM 1200 So. Bend, Ind.	WHB 860 Kansas City, Mo.	i	WJAK 1310 Marion, Ind.		WKRC 550 Cincinnati, Ohio	
WFAN 610	WHBC 1200		WJAR 890		WKY 900	
Philadelphia, Pa.	Canton, Ohio		Providence, R. I.		Oklahoma City	
WFBC 1200	WHBD 1370	- 1	WJAS 1290	1	WKZO 590	
Knoxville, Tenn WFBE 1200	Mt. Orab, Ohio WHBF 1210		Pittsburgh, Pa		Kalamazoo, Mich. WLAC 1470	
Cincinnati, Ohio	Rock Island, Ill.	- 1	Jacksonville, Fla.		Nashville, Tenn.	
WFBG 1310	WHBL 1410		WJAY 610		WLAP 1010	
Altoona, Pa.	Sheboygan, Wis. WHBQ 1370		Cleveland, Ohio		Louisville, Ky.	
WFBL 1360	WHBQ 1370	- 1	WJAZ 1490	- 1	WLB 1250	
Syracuse, N. Y. WFBM 1230	Memphis, Tenn		Chicago, Ill. WJBC 1200		St. Paul, Minn. WLBC 1310	
Indianapolis, Ind.	Anderson, Ind.		La Salle, Ill.	İ	Muncie, Ind.	
WFBR 1270	WHBY 1200		WJBI 1210	i	WLBF 1420	
Baltimore, Md.	Green Bay, Wis. WHDF 1370		Red Bank, N. J.		Kansas City, Ks. WLBG 1200	
WFDF 1310 Flint, Mich.	Calumet, Mich.	-	WJBK 1370	-	WLBG 1200	
WFDV 1310	WHDH 830		Detroit, Mich. WJBL 1200		Ettrick, Va. WLBL 900	
Rome, Ga.	Boston, Mass		Decatur, Ill.		Stevens Pt., Wis.	
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WLBW 1260	WNBO 1200	WPTF 680	WSM 650
Oil City, Pa.	Washington, Pa.	Raleigh, N. C.	Nashville, Tenn.
WLBX 1500 L. I. City, N. Y.	WNBR 1430 Memphis, Tenn.	WQAM 560	WSMB 1320 New Orleans, La.
WLBZ 620	WNBW 1200	Miami, Fla. WQAN 880	WSMK 1380
Bangor, Maine	Carbondale, Pa.	Scranton, Pa.	Dayton, Ohio
WLČI 1210	WNBX 1200	WQAO 1010 New York City	WSOC 1210 Gastonia, N. C.
Ithaca, N. Y. WLEY 1370	Springfield, Vt. WNBZ 1290	WQBC 1360	WSPA 1420
Lexington, Mass.	Sar'n'c L'ke, N.Y.	Vicksburg, Miss.	Spartanburg, S.C. WSPD 1340
WLIT 560	WNJ 1450	WQDM 1370	WSPD 1340
Philadelphia, Pa. WLOE 1500	Newark, N. J. WNOX 560	St. Albans, Vt. WQDX 1210	Toledo, Ohio WSUI 880
Boston, Mass.	Knoxville, Tenn.	Thomasville, Ga.	Iowa City, Iowa
WLS 870	WNYC 570	WRAK 1370	EWSUN 620
Chicago, Ill.	New York City WOAI 1190	Williamsport, Pa. WRAM 1370	St. Petersb'g, Fla. WSVS 1370
WLTH 1400 Brooklyn, N. Y.	WOAI 1190 San Antonio, Tex.	Wilmington, N.C.	Buffalo, N. Y.
WLVA 1370	WOAX 1280	WRAW 1310	WSYB 1500
Lynchburg, Va. WLW 700	Trenton, N. J.	Reading, Pa.	Rutland, Vt.
Cincinnati, Ohio	WOBU 580 Charlest'n, W.Va.	WRAX 1020 Philadelphia, Pa.	WSYR 570 Syracuse, N. Y.
WLWL 1100	WOC 1000	WRBJ 1370	WTAD 1440
New York City	Davenport, Iowa	Hattiesburg, Miss	Quincy, Ill.
WMAC 570	WOCL 1210	WRBL 1200	WTAG 580
Syracuse, N. Y. WMAK 1040	Jamestown, N. Y. WODA 1250	Columbus, Ga. WRBQ 1210	Worcester, Mass. WTAM 1070
Buffaio, N. Y.	Paterson, N. J.	Greenville, Miss.	Cleveland, Ohio
WMAL 630	WODX 1410	WRBX 1410	WTAQ 1330
Washington, D.C. WMAQ 670	Mobile, Ala.	Roanoke, Va. WRC 950	Eau Claire, Wis. WTAR 780
Chicago, Ill.	Ames. Iowa	Washington, D.C.	Norfolk, Va.
WMAZ 1180	WOKO 1440 Albany, N. Y.	WRDO 1370	WTAW 1120 College Sta., Tex.
Macon, Ga. WMBA 1500	WOL 1310	Augusta, Maine WRDW 1500	WTAX 1210
Newport, R. I.	Washington, D.C.	Augusta, Ga.	Springfield, Ill.
WMBC 1420	WOMT 1210	WREC 600	WTBO 1420 Cumberland, Md.
Detroit, Mich. WMBD 1440	Manitowoc, Wis. WOOD 1270	Memphis, Tenn. WREN 1220	WTEL 1310
Peoria HghtsIll.	Gr. Rapids, Mich.	Lawrence, Kans.	Philadelphia, Pa.
WMBG 1210	WOPI 1500	WRHM 1250	WTFI 1450 Toccoa, Ga.
Richmond, Va. WMBH 1420	Bristol, Tenn. WOQ 1300	Minneap., Minn. WRJN 1370	WTIC 660-1060
Joplin, Mo.	Kansas City, Mo.	Racine, Wis.	Hartford, Conn.
WMBI 1080 Chicago, Ill.	WOR 710 Newark, N. J.	1 WKNY 1010	Jackson, Tenn.
WMBO 1310	WORC 1200	New York City WROL 1310	WTMJ 620
WMBO 1310 Auburn, N. Y.	Worcester, Mass.	Knoxville, Tenn.	Milwaukee, Wis.
WMBQ 1500 Brooklyn, N. Y.	WOS 630 Jeff's'n City, Mo.	WRR 1280	WTOC 1260 Savannah, Ga.
WMBR 1370	WOV 1130	Dallas, Texas WRUF 830	WWAE 1200
Tampa, Fla.	New York City	Gainesville, Fla WRVA 1110	Hammond, Ind.
WMC 780 Memphis, Tenn.	WOW 590 Omaha, Nebr.	Richmond, Va.	WWJ 920 Detroit, Mich.
WMCA 570	IF WOWO 1160 i	WSAI 1330	[W W L 850
New York City	Ft. Wayne, Ind.	Cincinnati, Ohio	New Orleans, La.
WMIL 1500 Brooklyn, N. Y.	WPAD 1420 Paducah, Ky.	WSAJ 1310 Grove City, Pa.	WWNC 570 Asheville, N. C.
WMMN 890	WPAP 1010	WSAN 1440	I WWRL 1500
Fairmont, W. Va.	New York City	Allentown, Pa.	Woodside, N. Y.
WMPC 1500 Lapeer, Mich.	WPAW 1210 Pawtucket, R. I.	WSAR 1450 Fall River, Mass.	WWSW 1500 Pittsburgh, Pa.
WMRJ 1210	WPCC 560	WSAZ 580	WWVA 1160
Jamaica, N. Y.	Chicago, Ill.	Hunt'gton, W.Va.	Wheeling, W. Va.
WMSG 1350 New York City	WPCH 810 New York City	WSB 740 Atlanta, Ga.	WXYZ 1240 Detroit, Mich.
WMT 600	WPEN 1500	WSBC 1210	XEA 1200
Waterloo, Iowa	Philadelphia, Pa.	Chicago, Ill.	Guad'l'jara, Mex.
WNAC 1230	WPG 1100 Atl'ntic City, N.J.	WSBT 1230	XEB 1030
Boston, Mass. WNAD 1010	WPOE 1370	South Bend, Ind. WSEN 1210	Mexico City XEC 1333
Norman, Okla.	Patchogue, N. Y.	Columbus, Ohio	Toluca, Mexico
WNAX 570 1	WPOK 780	WSFA 1410	XED 965
Yankton, S. D. WNBF 1500	Norfolk, Va. WPRO 1210	Montgomery, Ala. WSIX 1210	Reynosa, Mexico XEE 1132
Bingh'mt'n, N.Y.	Providence, R. I.	Springfield, Tenn.	Oaxaco, Mexico
WNBH 1310	WPSC 1230	WSJS 1310	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 1254 Mexico City XEY 588 Mexico City		XFC 805 Aguascal'ntes, M. XFF 915 Chihuahua, Mex. XFG 638 Mexico City XFI 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	1405
Morelia, Mich. Y-12	101	XEI	1000		15 CMBR 150 CMBS	1500 790
NEUVO LEON					150 CMBT 150 CMBW	1070 1010
Laredo, N. L. S-13	101	XEFE	980		30 CMBX	1405
Monterrey N. L. U-13	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
PUEBLA			į		250 CMCF 30 CMCG	890 1285
Puebla Z-13	101	XEV	1034		15 CMCH 15 CMCM	1285 1500
TAMAULIPAS					250 CMCN	1225
Reynosa, Tams. T-14	10000	XED	965	l	225 CMCO 600 CMCQ	660 1150
Tampico, Tams. W-14	500 500	XEM XES	730 890		20 CMCR	1285
VERA CRUZ					5 CMCT 50 CMCU	1500 1345
Veracruz, Ver. Z-14	500	XETF	680		15 CMCY	1345 730
MICATANI	101	XEU	800		3150 CMK 250 CMQ	1150
YUCATAN	105	XEY	547		1400 CMW 500 CMX	588 890
Merida, Yuc. X-19			347	Holguin W-27	30 CMKF	1363
WEST	IND)	[ES		Matanzas W-24	7.5 CMGB 5 CMGD	1185 1140
BERMUDA					50 CMGF	977
Hamilton M-35	7.	5 TJW	1490	Pinar del Rio W-22	60 CMGH 20 CMAB	780 1249
CUBA					30 CMAC	1375 1110
Cardenas W-24	30	CMGE	1375	Santa Clara W-25 Santiago X-28	15 CMHI 20 CMKA	1450
Camaguey W-26	15	CMJC	1321		15 CMKB	1200
Ciego de Avila W-26	20 20	CMJE CMJB	856 1276		150 CMKC 20 CMKD	1034 1100
Cienfuegos W-25	200	CMHA	1154 645		250 CMKE	1249
Colon W-24	40 100	CMHJ CMGA	834		30 CMKG 250 CMKH	1176 1327
Havana W-23	50	CMBA	1345 965	Tuinucu	500 CMHC	790
	150 150	CMBC CMBD	965			
	7.5	CMBF	1345	DOMINICAN R	EPUBLIC	
	150 30	CMBG CMBI	1070 1405	Santo Domingo X-31	1000 HIX	669
	15	CMBJ	1285	,		
	15 15	CMBK CMBL	1405 1500	HAITI		
	15 30	CMBM CMBN	1285 1405	Port au Prince X-30	1000 HHK	920
	30	CIVIDIA	1403	Tore au Trince X-30	1000 111110	- J20

Principal Broadcasting Stations of the World

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

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Country and City	Call		Keys.	Meters	Watts	Country and City	Call	Keys.	Meters	
S	OUTH A	MER	ICA				CX20	930	323	2000
ARGENTINA							CX22	970	309	250
Buenos Aires	LP4		669	448	5000		CX24	1010	297	1000
	LR1		789	380	500		CX26	1050	286	2000
	LR2		870	345	10000		CX30	1130	265 256	250 200
	LR3		949	316	5000		CX32	1170 1210	248	500
	LR4		990	303	10000		CX34 CX36	1250	240	250
	LR5		828	362	2000 5000		CX38	1290	233	100
	LR6 LR7		909 750	330 400	7000		CX40	1330	226	100
			1106	400 271	10000		CX40	1370	219	500
	LR8 LR9		1030	291	10000		CX44	1410	213	20
	LS1		709	423	5000		CX46	1450	207	100
	LS1		1190	252	10000		CX48	1490	201	50
	LS2		1270	236	1000	Paysandu	CW40	1340	224	30
	LS5		1069	280	10000	1 aysundu	CW44	1420	211	30
	LS6		1349	222	3000	Salto	CW44 CW32	1180	254	50
	LS8		1229	244	10000	Ballo	CW34	1220	236	50
	LS9		1388	216	10000		CW36	1260	238	30
Concordia	J2		1327	226	400		CW38	1300	231	30
Concor dia	LT2		810	370	1000	Tucuarembo	CW46	1460	206	20
Cordoba	LV2		911	329	1000	VENEZUELA	0.1.10			
General Pico	LT7					Caracas	YVIBC	960	312	
La Plata	LT2		685	438	1000		YV2BC	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	49.4	15000
Villaguay	LP2		1140	263	65			∖ 581	516 f	
BOLIVIA						BELGIUM				
La Paz	CPX		1350	226	1000	Antwerp	ON4ED	1455	206	50
BRAZIL	PD 4 1 4					Brussels	ON4GT	1375	218	100
Ampara	PRAM			*:::	50		ON4RB	589	509	3600
Bahia	PRAH		674	445	50		ON4RC ON4FO	1448	207 246	100
Campinas	DD (M		1171	256	20	Chatalian		1219		100 200
Curytiba	PRAN		882	340	50	Chatelineau	ON4CE	1338	216 206	200 25
Franca	PRAZ		1110	270 350	50 200	Dampremy Ghent	ON4FG ON4RG	1455 1219	246	400
Juiz de Fora	PRAJ		857 842	350 356	250 250		ON4RW	1219	246	200
Para Pelotas	PRAF PRAD		920	326	250 50	Liege Ottomont	ON4EX	1388	216	100
Perotas Pernambuco	PRAP		706	425	3000	Velthem	UN4EX	589	509	15000
Porto Alegre	PRAG		706	425	3000	Verviers	ON4CF	1455	206	100
Ribeirao Preto	PRAI		1071	280	10	CZECHO-SLOVAKIA		1433	200	100
Rio de Janeiro	PRAA		750	400	1000	Bratislava	OKR	1075	279	12500
Kio de Janeiro	PRAB		937	320	500	Brunn	OKB	878	342	36000
	PRAC		857	350	500	Kosice	OKK	1023	293	2500
	PRAK		1153	260	1000	Prague	OK1MPI	5169	58	5000
	PRAX		1363	220	1000	114500	OKP	616	487	5000
Santos	PRAS		895	335	1000	DANZIG	0111	010		
Sao Paulo	PRAE		815	368	1000	Danzig	PTB	662	453	250
Day 1 maio	PRAR'		1006	298	500	DENMARK				
BRITISH GUIANA						Copenhagen		1067	281	1000
Georgetown	VRY		6832	43,86	8	Kalundborg		260	1153	7500
CHILE						Skamleback		15300	19.6	500
Santiago	CMAB		625	480	1000			6057	49.5	
	CMAC		804	373	1000			9488	31.6	
	CMAK		1333	225	100	Soro		3088	971	2000
	CMAO		1016	295	250	ESTONIA				
	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				
	HKF		7688	39	50	Abo		1219	246	1111
PERU						Bjorenborg		1219	246	1500
Arequipa	OA6U		1764	170	_20	Helsingfors		1357	221	10000
Lima	OAX		790	380	1500	Jakobstad		1219	246	750
	OA4M		14 2 8	210	12	Lahti		166	1796	40000
URUGUAY	OV.					Tammerfors		1111		1000
Montevideo	CX6		650	462	1000	Vipuri		1030	291	750
	CX10		730	411	1000	FRANCE				\ # 00
	CX12		770	390	500	Agen	F2BD	963		500
	CX14		810	370	1000			9761	30.75	
	CX18		890	337	250	* Angers		1091	275	250

Country and City	Call	Keys.	Motors	Watts	Country and City	Call	Keys.	Meters	Watts
Beziers	Can	1364	220	1500	LATVIA	Can	nego.	1.100010	11 11000
Biarritz		1515	198	250	Riga LITHUANIA	YLZ	571	525	10000
Bordeaux		1199	250	5000		RYK	155	1935	7000
Caen		986 1080	304 278	1500 200	Kovno LUXEMBURG	KIK	133		1000
Grenoble		914	328	1500	Luxemburg NETHERLANDS	LOAA	1344	223	10000
Juan les Pins Lille		1219	248	250 500			1220	246	
Limoges		1132 1022	265 293	500	Bloemendaal Hilversum	PFBI	1004	298	7000
Lyon	YN	644	466	3000		DC.I	160	1875	
	YR	1030 7463	291 40.2	500	Huizen	PCJ PHI	9500 17775	31.2 16.9	
Marsan		750	400	250	77472017	PH9	∫1003	298)	6200
Marseille		950	316	500	C-1	PCF	160 280	1875∫ 1071	2000
Montpellier Nimes		1049 1250	286 240	200 500	Scheveningen The Hague	PCF	1000	300	350
Paris		(174	1725)	13500	NORWAY				
		113	2650 f 331	500	Aalesund Bergen	LKA LKB	671 824	447 364	400 1200
	FPTT	901 671	448	1000	Bodo	LKB	662	453	625
	FL	113	2650	15000	Fredriksstad	LKF	815	368	800
		207 9375	1446} 32		Hamar Kristianssand	LKH	811 1273	587 236	800 500
	F8GC	825	368	1500	Nidaros		662	453	1350
		4262	61		Notodden	LKN	671	447	900
		968 7317	310	2090	Oslo	LKO LKP	279 662	1071 453	75000 800
Pontoise		15235	41∫ 19.6	8)	Porsgrund Rjukan	LKR	671	447	170
		11899	25.2	0}	Stavanger		1240	241	500
Rennes		11308	25.6 272	3) 1500	Tromsoe POLAND	LKM	662	453	110
Rheims		777	386	500	Katowice		734	409	10000
St. Etienne		1364	220	250	Krakow		959	313	1500
Strasbourg Toulon		867 1200	345 250	6000 500	Lwow Poznan		779 896	385 335	1500
Toulouse	MRD	1175	255	1500	Warsaw		1412	203	25000
CERMANY		770	381	8000	Wilna		779	385	500
GERMANY Aix-la-Chapelle		1319	227	300	PORTUGAL Lisbon	CT1AA	942	319	1000
Augsburg		536	560	300	RUMANIA	CTIAA			
Berlin		716	419 184	1700 35000	Bucharest		759	394	12000
		1635 95 6 0		8 30000	SPAIN Almeria	EAJ18	1195	251	200
_		1058	284	600	Barcelona	EAJ1	855	349	7500
Bremen Breslau		950 923	316 3 2 5	300 1700	Cartagena	EAJ13 EAJ15	1119	268 246	10000 100
Cologne		1319	227	1700	Madrid	EAJ2	1219 750	400	750
Dresden		941	319	300		EAJ7	708	424 30.7	1500
Flensburg Frankfort		1373 770	219 390	600 1700	Oviedo	EAM EAJ19	9772 815	368	30
Freiburg		527	469	300	San Sebastian	EAJ5	809	365	1000
Gleiwitz Hamburg		1157 806	259 372	5600 1 700	Seville SWEDEN		809	365	
Hanover		530	566	300	Boden	SBE	250	1200	600
Kaiserslautern		1112	270	300	Boras	SCA	1301	229	150
Kassel Kiel		1220 1292	246 232	300 300	Eskilstuna Falun	SCB SCC	1220 932	246 332	200 500
Konigsberg		1085	277	1700	Gavle	SCE	1470	204	200
Langenburg Leipzig		635 1184	473 253	17000 2300	Goteborg	SBB SCE	932 1391	322 216	10000 200
Magdeburg		1058	284	600	Halmstad Helsingborg	SCE	1301	231	200
Muehlacker		833	360	60000	Horby	SBH	1166	257	10000
Muenster Munich		1319 563	227	600 1700	Hudiksvall Jonkoping	SCF SCH	1112 1490	270 202	150 250
Nuremburg		1256	553 239	2300	Kalmar	SCI	1220	246	200
Stettin		1058	284	600	Karlsborg	SAS	11760	52,5	****
HUNGARY Budapest		545	550	20000	Karlskrona Karlstad	SCJ SCK	1530 1378	196 218	200 250
ICELAND		343	330	20000	Karistad	SCL	1220	246	200
Reykjavik	TFA	1200	250	500	Kristinehamn	SCM	1480	203	250
IRISH FREE STAT	FE 60K	1337	224	1000	Malmberget Malmo	SCN SBC	689 1301	436 231	250 60
Dublin	2RN	726	413	1500	Motala	SBG	223	1348	30000
1TALY					Norrkoping	SCO	1112	270	250
Bolzano Genoa	IBZ IGE	62 779	453 385	2000 1200	Orebro	SCV SCW	1265 1373	237 218	200 2000
Milan	IMI	599	501	7090	Ornskoeldsvik Ostersund	SBF	770	390	600
Naples	INA	905	331	1500	Saffle	SCP	1220	246	600
Palermo Rome	IRC	680	441	3000 3000	Stockholm	SBA	659	436	75000 1000
,	I1AX	6667	45		Sundsvall	SBD	554	542	10000
Turin	ITO	1031	272	7000	Trollhattan	SCQ	1112	266	250

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Country and City	Cali	Keys.	Meters	Watts	Country and City	Call	Keys.	Meters	Watts
Uddevalla	SCR	1058	286	50	Nalchik	RA67	279	1075	1200
Úmea	SCS	1384	231	20	Nizhni-Novgorod	RA13	357	840	1800
Uppsala	SCT	662	458	150	Novorossisk	RA33	268	1117	4000
Varberg	SCU	1058	283	300	Odessa	RA10	308	975	1200
SWITZERLAND		244	1010	500	Orenburg Petropavlovski	RA25 RA64	4 69 857	640 350	1900 45
Basel Berne		1210	246	500	Petrozavodsk	RA46	302	765	2000
Derne		9375	32	200	Rostov-on-Don	RA14	366	820	4000
Beromunster		651	459	60000	Samara	RA22	333	900	1200
Geneva		395	760	1200	Saratov	RA32	714	420	200
Sottens		743	404	25000	Sevastopol	RA9	375	800	250
Zurich	H9XD	3529	85)		Simferpol	D. C. C.	667	450	
		\9375 653	32∫ 459	630	Smolensk	RA68 RA72	909 1999	30 150	20 800
UNITED KINGDOM	A	633	459	030	Stalino	RA77	411	730	1200
Aberdeen	2BD	995	301	1000	Stavropol	RA20	545	550	1200
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	Tiflis	RA11	345	870	4000
Chelmsford	112		* : _ :	:::	Tomsk	RA21	1000	300	150
Daventry	5GB	626	479	25000 25000	Tver	RA44	435	690	1200
D J	5XX	193 1040	1553 288	25000 130	Ulyanovsk V-1 Hatink	RA51	600 461	600 650	20 1200
Dundee Edinburgh	2DE 2EH	1040	288	350	Vel Ustjuk Vladivostok	RA16 RA17	625	480	1500
Glasgow	5SC	752	399	1000	Vologda	RA41	343	875	1200
Huddersfield		626	479	30000	Voronezh	RA12	316	950	1200
114440-0		\996	301∫			ASIA			
Hull	6KH	1040	288	130	BRITISH MALAYA				
Leeds and		∫1040	88)	130	Johore	VS3AB	7055	42.5	
Bradford	at 1/	1500	200∫	120	Singapore	VS1AB	7260	41.3	
Liverpool	6LV 2LO	1040 842	288 356)	130 300 00	CEYLON Colombo		600	500	1750
London	ZLU	1150	261	30000	CHINA		600	200	1120
Manchester	2ZY	797	376	1000	Canton	CAB	689	435	1000
Newcastle	5NO	1148	261	130	Hangchow	XGY	895	335	250
Plymouth	5PY	1040	288	130	Harbin	СОНВ	674	445	1000
Sheffield	6FL	1040	288	130	Mukden	COMK	723	415	2000
Stoke on Trent	6ST	1040	288	130	Nanking	XGZ	606	495	500
Swansea	5SX	1040	288	130	Peking	COPK	937	320	1000
VATICAN CITY	HA1	{15112 59 6 5	50.26	10000	Shanghai	NKS KRC	967 890	310 338	50 250
YUGOSLAVIA		(3363	30.20	,		KSMS	1082	277	50 50
Belgrade		695	432	2500		RSC	1276	235	50
Lljubljana		527	569	3000		SSC	1071	280	50
Zagreb		977	700			XAH	1240	240	50
	RUSSIA					XCBL	::::		250
						CRC			
No authentic list	of Russia	ı an broades	asting st	ations.	Tientsin	COTN	1071	280	50 0
No authentic list	of Russia	n broadce but the fol	lowing in	itorma-		COTN	625	280 480	50 0 50 0
official or otherwise.	of Russia	n broadce but the fol	lowing in	itorma-	FRENCH INDO-CH	COTN IINA	625	480	500 500
official or otherwise, i tion is provided for nower ratings are ev	of Russia is available, such use a idently the	an broadca but the fol as may be measurem	lowing in made of ent at tl	itorma- it. The ne gen-	FRENCH INDO-CH Haifong	COTN IINA	625 3446	480 87	500 500 2500
official or otherwise, it tion is provided for power ratings are ev erator. Which is usua	of Russia is available, such use a idently the illy five to to	an broades but the fol as may be measurem en times th	lowing in made of ent at tl	itorma- it. The ne gen-	FRENCH INDO-CH Haifong Saigon	COTN IINA	625	480	500 500
official or otherwise, tion is provided for power ratings are everator. Which is usua rating, shown for other controls are to the controls of the control of the contro	of Russia is available, such use a idently the illy five to to	an broades but the fol as may be measurem en times th	lowing in made of ent at tl	itorma- it. The ne gen-	FRENCH INDO-CH Haifong Saigon HONG KONG Victoria	COTN IINA	625 3446	480 87	500 500 2500
official or otherwise, ition is provided for power ratings are everator. Which is usua rating, shown for oth RUSSIA	of Russis available, such use a identity the lly five to the countries	an broader but the fol as may be measurem en times th s.	lowing in made of ent at tl e antenn	it. The ne gen- a input	FRENCH INDO-CH Haifong Saigon HONG KONG Victoria INDIA	COTN IINA ZBW	625 3446 6119 845	480 87 49 355	500 500 2500 1500
official or otherwise, ition is provided for power ratings are everator. Which is usua rating, shown for oth RUSSIA Achabad	of Russia is available, such use a idently the illy five to to	an broader but the fol as may be measurem en times th s.	lowing in made of ent at the e antenn	itorma- it. The ne gen-	FRENCH INDO-CH Haifeng Saigon HONG KONG Victoria INDIA Bombay	COTN IINA ZBW VUB	625 3446 6119 845 840	480 87 49 355 357	500 500 2500 1500 3000
official or otherwise, ition is provided for power ratings are everator. Which is usua rating, shown for oth RUSSIA Achabad Archangelsk	of Russia is available, such use a idently the lly five to to her countrie RV19	an broader but the fol as may be measurem en times th s. 334 586	lowing in made of ent at the e antenn 898 511	it. The ne gen- a input	FRENCH INDO-CH Haifong Saigon HONG KONG Victoria INDIA Bombay Calcutta	COTN IINA ZBW	625 3446 6119 845	480 87 49 355	500 500 2500 1500
official or otherwise, ition is provided for power ratings are everator. Which is usua rating, shown for oth RUSSIA Achabad Archangelsk Armayir	of Russis available, such use a idently the illy five to the countrie RV19	an broader but the fol as may be measurem en times th s. 334 586 580	lowing in made of ent at the e antenn 898 511 511	it. The ne gen- a input	FRENCH INDO-CH Haifong Saigon HONG KONG Victoria INDIA Bombay Calcutta JAPAN	COTN IINA ZBW VUB VUC	625 3446 6119 845 840 810	480 87 49 355 357 370	2500 2500 1500 3000 3000
official or otherwise, it ion is provided for power ratings are everator. Which is usua rating, shown for oth RUSSIA Achabad Archangelsk Armavir Artemovsk	of Russis available, such use a identity the lly five to the countrie RV19 RV50 RV26	an broader but the fol as may be measurem en times th s. 334 586	lowing in made of ent at the e antenn 898 511	it. The ne gen- a input	FRENCH INDO-CH Haifong Saigon HONG KONG Victoria INDIA Bombay Calcutta JAPAN Dairen	COTN IINA ZBW VUB	625 3446 6119 845 840	480 87 49 355 357	2500 2500 1500 3000 3000
official or otherwise, it ion is provided for power ratings are everator. Which is usua rating, shown for oth RUSSIA Achabad Archangelsk Armavir Artemovsk Astrakhan	of Russis available, such use a identity the identity the filly five to their countries RV19 RV50 RV26 RV35	an broader but the follows may be measuremen times the s. 334 586 580 811 435	lowing in made of ent at the antenn 898 511 511 370 760	it. The ne gen-a input	FRENCH INDO-CH Haifong Saigon HONG KONG Victoria INDIA Bombay Calcutta JAPAN Dairen Fukuoka	COTN IINA ZBW VUB VUC JQAK	625 3446 6119 845 840 810 760	480 87 49 355 357 370 395	2500 2500 1500 3000 3000
official or otherwise, it ion is provided for power ratings are everator. Which is usua rating, shown for oth RUSSIA Achabad Archangelsk Armavir Artemovsk Astrakhan Baku	of Russia available, such use a such use a idently the lly five to their countries RV19 RV50 RV50 RV26 RV35 RV8 RV8	an broader but the fol as may be measurem en times th s. 334 586 580 811	lowing in made of ent at the e antenn 898 511 511 370	it. The ne gena input 200 1200 1200 4000 700	FRENCH INDO-CH Haifong Saigon HONG KONG Victoria INDIA Bombay Calcutta JAPAN Dairen	COTN IINA ZBW VUB VUC JQAK JOLK JHBB JOFK	625 3446 6119 845 840 810 760 680	355 357 370 395 441	2500 2500 1500 3000 3000
official or otherwise, it ion is provided for power ratings are everator. Which is usua rating, shown for oth RUSSIA Achabad Archangelsk Armavir Artemovsk Astrakhan	of Russia available, such use a identity the illy five to the countrie RV19 RV50 RV26 RV35 RV8 RA8 RA8	an broades but the fol sa may be measuremen times th s. 334 586 580 811 435 217 400 784	lowing in made of ent at the antenn 898 511 511 370 760 1381 750 382	it. The ne gena input 200 1200 1200 1000 4000 700 1000	FRENCH INDO-CH Haifong Saigon HONG KONG Victoria INDIA Bombay Calcutta JAPAN Dairen Fukuoka Hirasio Hiroshima Kanazawa	ZBW VUB VUC JQAK JOLK JHBB JOFK JOJK	625 3446 6119 845 840 810 760 680 7995 850 710	480 87 49 355 357 370 395 441 37.5 353 422	500 500 2500 1500 3000 3000 500 500 10000 3000
official or otherwise, it ion is provided for power ratings are everator. Which is usua rating, shown for oth RUSSIA Achabad Archangelsk Armavir Artemovsk Astrakhan Baku Bogorodsk Dniepropetrovsk Erivan	of Russis available, such use sidently the lly five to the recountrie RV19 RV50 RV50 RV50 RV50 RV35 RV8 RA8 RV30 RV21	an broades but the fol as may be measurem en times th s. 334 586 580 811 435 217 400 784 400	lowing ir made of ent at the e antenn 898 511 511 370 700 1381 750 382 750	it. The ne gen-a input 200 1200 1200 4000 700 1000 1200	FRENCH INDO-CH Haifong Saigon HONG KONG Victoria INDIA Bombay Calcutta JAPAN Dairen Fukuoka Hirasio Hiroshima Kanazawa Keijo	ZBW VUB VUC JQAK JOLK JHBB JOFK JOJK JODK	625 3446 6119 845 840 810 760 680 7995 850 710 690	480 87 49 355 357 370 395 441 37.5 353 422 435	500 500 2500 1500 3000 3000 500 10000 3000 6000
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HOW TO TUNE A SET CORRECTLY

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

LL stations in America are listed in RADEX A LL stations ...
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.

Lot 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 Yo k City and is owned by the National Broadcasting Co., Inc.

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

as 69-67.

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

We now have found that the dial numbers for 630 kcys, are 72-70 and the dial numbers for 660 kcys, are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 650 kcys. We listen carefully and if they are on the air and within range of our set we will tune in WSM of Nashville at this point. We then enter the dial readings for WSM opposite 650 keys. Now it is clear that if we reset our dials at 71-69 our set will be tuned to 640 keys, and at that point KFI of Los Angeles will be heard, always assuming, of course, that it is on the air and within range of our particular set.

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620 kilocycles 483.6 meters

630 kilocycles 475.9 meters

640 kilocycles 468.5 meters

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660 kilocycles 454.3 meters WAAW 500 Omaha, Nebr. WEAF 50000 New York City

670 kilocycles 447.5 meters WMAQ 5000 Chicago, III.

680 kilocycles 440.9 meters 5000 San Francisco, Cat.

INDEX BY FREQUENCIES AND DIAL NUMBERS ol of Music Insurance Ca.

72 | 70

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mileg Grain Eschange
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67 | 65 |

Now we tune in some other station, proceeding as before until after an evening or two, we have blanks filled on every page. We are now able to set our dials for any frequency we desire and consequently any station we may want whether we have ever received it be-

fore or not.

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

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

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

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

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



If all the Radio sets I've "fooled" with in my time were piled on top of each other, theu'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 the job.

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

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

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

Up to a year ago, I was just a dabbler - I thought Radio was a plaything. I never realized what an enormous, fastgrowing industry Radio had come to be — employing 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 "You're kidding me," I said.
"I'm not," he replied. "Take a look at this ad."

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

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

Since that time I've gone right on up. They would have given me just as much help too if I had wanted to follow some other line of Radio besides building my own retail business — such as broadcasting manufacturing, experimenting, sea operating or any one of the score of lines they prepare 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 before, over \$100 a week. And I know the future holds even more, for Radio is one of the most progressive, fastest-growing businesses in the world today. And it's work that I like - work a man can 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

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 Radioclip 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.1KO, 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 salesman will call

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