

THE MARCH 1937

25^c

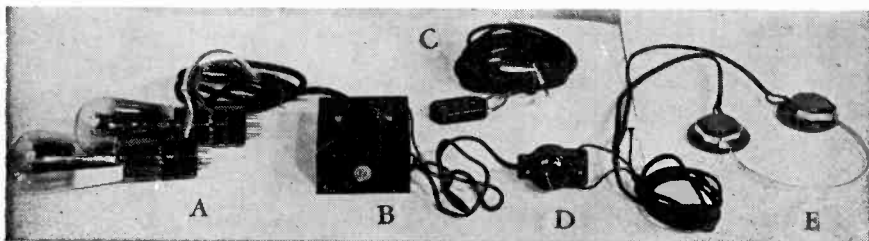
RADIO INDEX

The All-wave DX Log of the World



The Story of Television
The Mystery DX Contest
Complete Station-Identifying
Shortwave List

No. 107



The "Perfect" Phone Adapter

The device which makes it easy to attach headphones to any radio set. Anyone can install it, without tools, in no time at all. It cannot harm the receiver and the operation of the set is not affected in any way.

IDEAL FOR THE HARD-OF-HEARING

Those who are very hard of hearing can enjoy radio reception by using our new HOH Model Phone Adapter. It gives sufficient volume on the headphones without it being necessary to increase the volume of the receiver above normal.

THE VERY BEST HEADPHONES

For use with the Perfect Phone Adapter, we recommend the Trimm Featherweight Headphones. They weigh only 4 ounces and can be worn for hours, without fatigue. Very sensitive, designed for use by commercial operators, they get the weak signals which other, less sensitive 'phones fail to register.

We pay the postage on all orders.

If you live in Ohio add 3% for Sales Tax

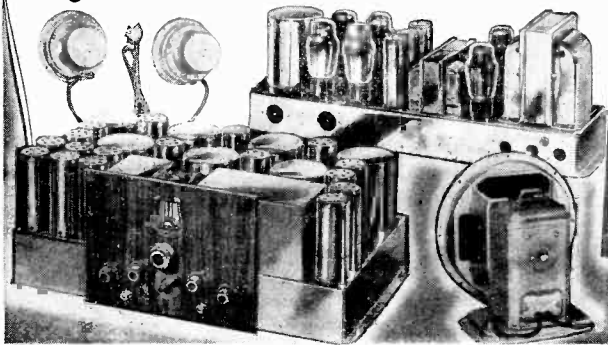
**The HOH Model Perfect Phone Adapter
with Trimm Featherweight Headphones. \$12.00**

**The HOH Model Perfect Phone Adapter
with a good pair of Trimm Headphones. . . . \$6.70**

*In ordering be sure to give
make and model of receiver
and a list of the tubes used.*

**The Radex Press
Conneaut, Ohio**

Get this Conclusive Evidence of WORLD SUPREMACY of 23 tube **SCOTT!**



E. H. SCOTT

STORY after story—page after page—of unique and exciting experiences—written by SCOTT owners—makes this 24-page Brochure unquestionably the most fascinating book of its kind ever written.—It tells of a side by side performance comparison test of the SCOTT and other radio receivers in a large, interference-crowded New York apartment building! Of unprecedented reception piercing a network of static in the iron ore hills of Washington State!

How the SCOTT "CAME THRU" in the moisture-soaked, stifling heat of the Panama Canal Zone. What the celebrated Jean Marie Robinault discovered when exploring with the SCOTT in the blizzard-swept Swiss Alps.

Read about the experiences of New Englanders tuning in far away Japan—of Californians dancing to European "swing." Here's an amazing book you ought to have—filled with sensational experiences of SCOTT owners themselves, from Florida to Washington, from California to Maine!

There's a story of reception of U. S. A. Stations from H. L. Davis writing from the battleship U.S.S. Oklahoma, tied up in the Portsmouth, England navy yard! Obsoe player James B. Spear put SCOTT high fidelity tone to an "acid" test—read how he did it! Learn what the exclusive SCOTT Volume Range Expander did not only for Radio Programs but to old phonograph records!

This is but a fragmentary sketch of

the fascinating adventures SCOTT owners unfold in this mountain of EVIDENCE—conclusively establishing the world supremacy of the SCOTT.

Every tone—every silvery harmonic of the flute—every thundering thrill of organ bass—you hear them *all* in their inspiring and exquisite truth of tone on a SCOTT!

Clear, dependable, foreign reception, with ample volume, from practically every country on the face of the earth!

Every radio enthusiast will want this brochure, for it's the first of its kind. Your sending for it obligates you in no way. Your copy will be mailed to you FREE at once upon receipt of the coupon below. Fill it out and mail it now!

MAKE A SIDE BY SIDE COMPARISON TEST

Cultural interests have in many ways long since burst land and sea boundaries. Thousands have searched for years without *real* success for a radio that would bring in the endless procession of world music and news free from distortion of tone.

In the new 23-Tube Full Range High Fidelity SCOTT you will find, for the first time, a glorious and perfect musical instrument that finally satisfies that deep and lasting pride of ownership that comes only from the knowledge that you have the best. If, in addition to the book "EVIDENCE" you want

SCOTT receivers are not sold through dealers but direct from SCOTT Laboratories where each is custom-built to order. Only in this manner can any radio guarantee its owner the world-supreme performance for which SCOTT receivers are famous. In New York and Los Angeles I have direct branch Studios as well as a Studio at the Laboratories in Chicago; all are owned and operated by me. If you live near any of the studios call, and see and hear an actual living room demonstration of the SCOTT. Your order placed at any of the studios will receive the same immediate attention as though you had mailed it to Chicago. Studio addresses are below.



complete information on the Custom Built SCOTT Radio itself, or want a "living room" demonstration in our New York, Los Angeles or Chicago Salon, simply place a check mark in the space provided for this purpose on the coupon.

Get "Evidence" . . . Mail Coupon NOW

- E. H. Scott Radio Laboratories, Inc. 4424 Ravenswood Ave., Dept. 1507, Chicago, Ill.
- Send me:
- Free book "EVIDENCE Establishing World Supremacy of 23-Tube SCOTT."
- Complete facts and prices on the SCOTT.
- Details of "living room" demonstration.

Name

Address

City State

E. H. SCOTT RADIO LABORATORIES, INC.

4424 Ravenswood Avenue, Dept. 1507, Chicago, Illinois

630 Fifth Avenue,
New York, N. Y.

115 N. Robertson Blvd.,
Los Angeles, Cal.

Builders of the World's Finest Custom-Built Radios Since 1924

MARCH 1, 1937



RADIO INDEX

Reg. U. S. Patent Office

ELIZABETH S. BUTLER

Publisher

PAGE TAYLOR

Editor

ASSOCIATE EDITORS

B. FRANCIS DASHIELL, *Technical*

CARLETON LORD, *Broadcast*



THIRTEENTH YEAR

NUMBER 107

CONTENTS

Cover Girl—Joan Blaine, in A Tale of Today

Page

| | |
|---|----|
| Let's Get Ready for Television, <i>by B. F. Dashiell</i> | 3 |
| The RADEX Mystery Contest | 8 |
| Do You Remember? <i>by James Hall</i> | 11 |
| The RADEX Puzzle Corner | 12 |
| With the Station Hunters, <i>by Carleton Lord</i> | 13 |
| Listeners Wanted | 19 |
| Unusual Service Problems, <i>by the Technical Editor</i> | 20 |
| Hints for Shortwave Fans, Part II | 27 |
| Tuning the Amateurs, <i>by Bernard Ahman, Jr.</i> | 30 |
| Leaves from a DXer's Scrapbook, <i>by Count de Veries</i> | 32 |
| The Shortwave Listeners Report | 35 |
| Ten Meters for DX..... | 42 |
| The Month's Changes | 48 |

\$1.75 Per Year

25c Per Copy

See Subscription Blank on Page 96

Published Monthly Excepting July and August

THE RADEX PRESS

Publication Office: - 326 Penton Bldg., Cleveland, Ohio

Editorial and Advertising Office: - - Conneaut, Ohio

Entered as second-class matter April 23, 1931, at the postoffice at Cleveland, Ohio, under the Act of March 3, 1879.

Printed in U. S. A.

Let's Get Ready For TELEVISION

• • • By B. FRANCIS DASHIELL

CONTRARY to popular opinion there is little that is entirely new to the art of television. Many of its basic principles have been known for a long time. Some of these things were accidentally discovered far in the past century. However, television, like radio, could not be developed until some means of amplifying very weak electric currents had been found. Then came our modern radio and cathode tubes. Now these ideas have been assembled, and television will become the great achievement of 1937 and the years to come.

So let's be ready for television when it arrives fully grown. We all know that the world's greatest scientists have been working steadily on the problem. Success is at hand, and sight broadcasting is about to be added to sound reception. As this will revolutionize the radio world we should be prepared, but television need cause neither uncertainty nor misunderstanding in the minds of the people for whom it has been designed.

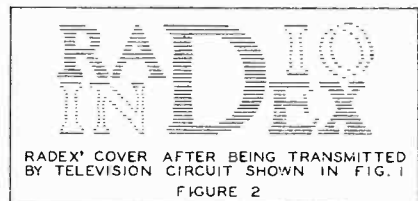
Television has passed through a period of development and, unfortunately, considerable premature exploitation. Many of us seemed to lose patience, while others lost some of their savings in various schemes. We still remember vivid promises that faded as the years passed by, but at last real progress has been made, actual receivers of excellent ability have been completed, and here and abroad the public is being given a taste of what is soon to come.

What Is Television?

Before we attempt any discussion of television, let's have an understanding of the meaning of the word

itself. Like "telephone" and "telegraph," it bears the Greek prefix "tele." This means, in effect, "far off" or "distant." To us, the remainder of the words is obvious. "Vision" means to "see"; "phone" signifying "sound"; and "graph" meaning "write." Thus, we "see from afar," have "sound at a distance," and "write far away."

Television must not always be associated with radio. The loose conception of the word may cover transmission of "still" pictures by wire. Certainly most of us are familiar with "Wirephotos" that appear in the daily papers. "Still" pictures, such as photographs, drawings and letters, are transmitted in facsimile. Even newspapers are copied over long telegraph lines. On the other hand, actual living scenes or motion pictures may be sent to distant points by the medium of land wires or radio. Radio, however, presents the greater prob-



lem, but offers the most to the public.

Right now the public fancy is television by radio—or "radiovision" if that term pleases. This is a natural result, for surely we look to radio to bring television entertainment into our homes. And, when the new receivers become available, as they are here and in England to a limited extent, we shall be able to watch plays and movies and actual scenes, while at the same time list-

ening to the sounds of music or voice as at present.

Unmasking Television

Television works essentially the same as radio. The greatest difference is the manner in which the signals are picked up and received. Instead of gathering sound in through a microphone, we must take light and broadcast it, in its many shades or degrees of illumination, as a simple radio wave. And the receiver, instead of throwing sound into a room from the loud speaker, must reassemble the jumbled radio signals in an orderly manner so as to recreate the picture, either "still" or "moving," and project it on a screen in the radio cabinet.

Some of us are not familiar with the simple fundamentals of radio—how it picks up the sound waves from a speaker's lips as they strike the microphone, and converts them into a flickering electric current that is impressed upon a penetrating "carrier" radio wave which is projected into space. As much of this is almost identical to the telephone, let us briefly consider that essential instrument.

First we speak into a mouthpiece which is the microphone. The air waves we set in motion strike the thin inner surface and cause it to vibrate in harmony with our voice vibrations. In turn, these vibrations work to vary the resistance of an electric circuit, and the current flowing through it begins to flicker or fluctuate in exact pitch or unison. Then, these variations of current, after passing over miles of wire, enter an electromagnet within a telephone receiver, somewhat similar to the loud speaker. The strength of the magnet changes with the current variations; and a thin iron disc, fastened close to the magnet, is set into vibration. By placing one ear close to the disc we hear the original speaker through recreated sound waves.

Turning Vision Into Sound

Similar things happen in radio. The tubes and tuning parts are merely means toward an end. The essential thing in any case is to convert sound into an electric current that carries characteristics similar to the sound waves. Any text book on physics or radio will be illustrated by some wavy lines that depict sound through the air or carried by an electric current or radio wave. Then the electric vibrations are converted again into mechanical vibrations so the ear can understand. There is only this and very little more to the fundamental action.

Let us remember, then, that radio can transmit and receive only electrical vibrations. When we have only sound, such as music or speech, the job is relatively simple, as we have observed. But when we attempt to use a picture or an actual living scene, and change that into electric vibrations which can be transmitted over a wire or through space by radio, we are faced with quite another problem.

But this is exactly what happens when we place a photograph or actual moving view before the television transmitter. Strange as it seems, a picture can be broken down into flickering electric impulses which are passed along a wire or through the air the same as any sound vibration. Thus we can obtain a one-way movement (length) to the characteristics of something that previously possessed two-way dimensions (length and breadth). At the receiving end these unidirectional electric waves are assembled again into a picture having its two dimensions. Radio is merely the medium of transmission. The mechanical work of breaking down the picture and putting it together again is separate and distinct from the radio operation. Let us, then forget radio for the time being.

A picture of Jean Muir transmitted by television and received on a Philco receiver at a distance of seven miles. The 345 line system is employed.



Photo-Electric Cells

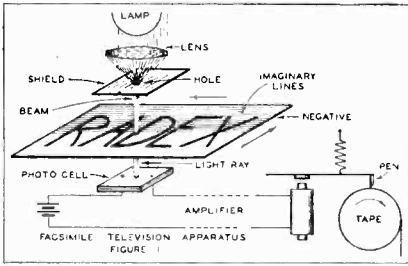
The discovery of the light-sensitive or photo-electric cell, frequently called the "electric-eye," dates back several generations. This, together with the moving picture, gave television investigators something to tie up with radio. The cell provided ways to control electric current by means of light. But this was not sufficient, for some method of splitting the picture into divisions or elements that could be transmitted successively was required. The early motion picture inventors, such as Nipkow, Weiller, Jenkins, and others, created whirling discs for this purpose, and they are still in use today.

In its simplest form the light-sensitive cell consists of selenium arranged so as to provide a resistance in an electric circuit. This re-

sistance varies whenever the cell is illuminated. Merely lighting a match will ring a bell; but in its highly developed state, such as the bolometer, the cell will measure the light from a tiny, distant start. The modern photo-electric cell will cause changes in the strength of an electric current when seemingly imperceptible variations occur in the illumination that falls upon it. On the other hand, in the receiver, tiny pulsations of current control powerful changes in the light that illuminates the television screen.

If a beam of light falls upon the photo-electric cell it causes a change in the current that flows through it. If anything passes through this ray of light so as to intercept it, there is an instant break in the current. Any opaque object will completely cut off the light and cause a mini-

Radiograms will be accepted free of charge by any amateur for transmission via "ham" radio to RADEX. Contact station W8BKM or W8PNF at Conneaut



mum of current to flow. But when a shaded or translucent object is used, less light will be cut off, and a little more current will flow. Now, if a transparent surface having different shadings between black and clear is passed slowly through the ray of light, the current flowing through the circuit will change accordingly.

Black Line Impulses

In this manner a light beam can be broken into impulses that correspond to the black lines of a drawing traced on a transparent surface. These impulses bring about changes in the current flowing through the circuit and may be detected any distance away. With this effect in mind we are ready to study an elementary television system that can be used to transmit pictures which are drawn in black and white.

First, we must study the simple circuit shown in Figure 1. There is a source of light, a concentrating lens, a sheet of opaque material with a tiny pin hole in it, and a sensitive photo-electric cell. The latter is connected in an electric circuit. Some distance away a magnetic relay moves a pen each time the "electric eye" permits a current to pass. The pen then touches a narrow strip of paper passing beneath, and makes marks whenever the sensitive cell operates.

Now draw some black lines on a sheet of clear celluloid. Pass the sheet slowly from side to side through the light ray that comes

through the tiny hole in the shield. Each time one of the black lines intercepts the tiny beam the current flickers and the pen will tap the paper. If the paper passes beneath the pen at *exactly the same rate of speed* as the celluloid is moved through the light ray, the distances between the marks on the tape and the corresponding portion of the picture will be the same. This brings us to one of the most important problems of television.

Synchronization

As long as the transmitter (sheet of celluloid) and the receiver (paper tape) run together always in step, the received picture will be synchronized with its original. Lack of synchronization produces distortion and the received picture will present only a meaningless jumble of marks. However, the new television control synchronization, for timing signals keep the sending and receiving ends in exact step.

Instead of black marks on the transparent sheet let us sketch a picture in black lines. Place its upper-left-hand corner in the light ray. Then pass it steadily across until the spot of light rests on the upper-right-hand corner. The spot of light has then traced a horizontal line directly across the picture. The paper beneath the pen, which has moved at the same speed, bears marks that correspond to the black lines on the original. Return the picture to the left-hand-side, but *not* through the light ray. Then move the picture vertically upward, a fraction of an inch, and repeat its passage through the beam. This time the spot of light traces another horizontal line, but slightly below, and parallel to, the first. Now repeat the operation until the picture has been entirely passed through the light ray, and the little spot of brilliant light has swept across in many horizontal lines.

Each time the black lines of the picture break the light beam they operate the pen and make marks on the paper strip. Now, if this paper tape is cut into sections, and each placed parallel, side by side, so the rows of markings are spaced just as far apart as the original lines on the picture at the transmitter, a rather striking reproduction of the original picture will be produced. Of course, if the paper tape could be replaced with a sheet of paper that moves across horizontally, and vertically, a line at a time, always in step with the movement of the transmitting picture, a complete reproduction will be drawn by the receiving pen. Actually, all this is done, mechanically and electrically, in a more refined manner by commercial photograph transmitters.

Scanning the Pictures

The spot of light that moves across the image being transmitted is said to "scan" the scene. "Scanning" actually is accomplished at an extremely rapid rate. In the early days of television the best types of scanning devices, such as the Nipkow disc, wiped the spot of light across the picture about 25 times. This created 25 "lines." Then, when the last line was traced, that particular picture was completed, and the next "frame" began with another 25 lines. There usually appeared about 17 of these "frames" to the second the same that moving pictures used, and this meant that the disc turned at 17 revolutions per second. As scanning breaks up a picture into very narrow strips that apparently possess only length, it becomes obvious that the finer and closer the lines the clearer the results will be. This is a well-known fact in photo-engraving, such as the photographs reproduced in this magazine.

In the same way a photograph may be broken down into "lines"

or strips having their part of the high lights and dark shadows. The shadows vary the electric current proportionally. The current, instead of coming in sudden surges, as it does when a black line drawing is used, pulsates up and down in strength. For this reason the pen is no longer useful at the receiving end, for it cannot distinguish between faint shadows and solid blacks, and marks all alike.

Replace the pen with a tiny spot of concentrated light. It will now be possible to receive a photograph, for the lights and shadows of the original negative will be faithfully reproduced by the flickering of the illumination. As the spot of light sweeps, from left to right, a sheet of photographic paper, it affects the sensitive surface. Then the sheet must be moved up vertically to begin the next line. After the original negative has been passed completely through the transmitting beam of light, and the sensitive paper on the receiver has been covered by the flickering spot of light and finally developed, we shall find a very good print of the negative. All this, of course, hinges upon whether the two operations were exactly synchronized.

Living Scenes

The ultimate goal of television is the recreation of action—either motion pictures or actual, living scenes from studios or distant points. While we can produce "still" pictures with perfection, provided there is a sufficient number of "lines" to create every detail, we must work faster if a true, moving scene or picture is to be shown.

But, before we can grasp how all this happens, we must know something of the motion picture camera and projector. A moving picture machine projects in shadow on a screen a rapid succession of individual "still" pictures. Each of

(Please turn to Page 75)

The Mystery DX Contest

AS FINAL plans for the second Mystery DX contest approach the completion stage, it is evident that DXers of North America are in for a grand session of dial twisting over the week-end of February 20-22. If readers were able to gaze over our editorial shoulders, they would see the last-minute preparations for one of the finest DX marathons ever staged.

Since this issue will be on numerous news stands and in the hands of many subscribers before the contest actually gets under way, we cannot comment on the line-up of stations. However, our "CPC work" has been very successful and we can assure contestants of a great array of broadcasters.

Stations in every part of the country have expressed their willingness to participate, and we know that the final line-up will meet with the approval of listeners everywhere.

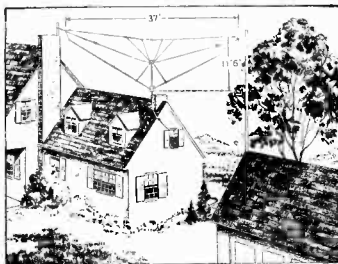
The actual scheduling of stations was done after full consideration had been given the particular requirements of every locality. We do not believe that any section of the country can complain that it did not receive an opportunity as good as any other territory.

One of the admitted weaknesses of last year's contest was an unintended hardship placed on West Coast listeners. During the 0200 to 0300 EST hour on each of the three mornings, stations in California, Oregon and Washington were still on their regular daily schedules. Obviously, it was a physical impossibility to dial each of these stations in search of a contest broadcaster.

This handicap has been eliminated by a definite policy in scheduling. During the 0200-0300 EST spot each morning, *no station in the Pacific Time zone will be transmitting for the contest.* Thus, listeners out there

can dial East with the knowledge that they aren't missing a thing.

Furthermore, realizing the congestion on the West Coast channels during this hour, we have made a particular effort to schedule only the more powerful stations which have a good chance of reaching the Pacific Coast at this time. With but one or two possible exceptions, a Western DXer should have no difficulty in tuning Central and Eastern



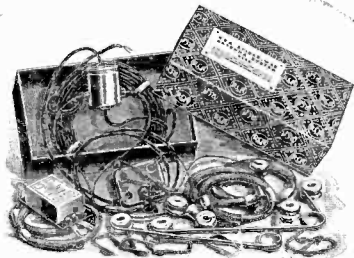
The Spider-Web antenna erected. This aerial system incorporates a series of doublet antennae and an improved transmission line to the receiver. It covers an exceptionally wide band of frequencies.

stations during the first hour each morning.

Scoring Changes

As noted last month, the scoring system has been altered slightly in an attempt to make up for possible handicaps of listeners on both the East and West coasts. We are of the opinion that this will eliminate any advantage of location on the part of contestants in the Central states, and will give every listener an equal opportunity to win one of the valuable awards.

Reports will still be judged on length and completeness. The mere *identification* of a station, which necessitates the definite reporting of one selection or announcement, won't be worth as much as a *complete report*, which must have at



The well-known RCA-Spider Web antenna kit which will be given as one of the prizes in the RADEX Mystery Contest.

least three successive selections or ten minutes of program material.

However, points for the two classifications will be awarded on a mileage basis. For an *identification report*—if the station is less than 200 miles from the contestant, 2½ points; between 200 and 2000 miles, 5 points; more than 2000 miles distant, 10 points. For a *complete report*—if the station is less than 200 miles from the contestant, 10 points; between 200 and 2000 miles, 20 points; over 2000 miles distant, 30 points.

We do not believe that contestants will have a great deal of difficulty in determining the mileage of each station heard. Most of the reports will undoubtedly be for stations between 200 and 2000 miles distant, and these will be easy to classify. All distances will be measured between the home town of the listener and the city in which the principal studios of the station are located, as listed in RADEX.

Contest Rules

As noted in the February issue, all contestants will compute their own scores and submit entries on the official contest forms supplied by us. However, all points claimed and so awarded will be subject to confirmation by the judges, and the decisions of the judges in all cases will be considered as final.

All entries must be postmarked

no later than February 24, 1937 at midnight and should be addressed to RADEX, Box 5284, Oak Lane Station, Philadelphia, Pa. Readers will note that this is a change over the address given in the February issue.

Because of the nature of the mail, all entries must be sent first class, and care should be taken that sufficient postage has been used. Entries arriving with postage due will not be accepted.

If one station is heard broadcasting for the contest on more than one day, it should be counted as many times as it was heard and a separate report made for each day. In no case, however, may a station be counted more than once on the same day, regardless of how many hours it may broadcast.

Late Comers

As a concession to DXers who wish to take part in the contest and who did not get their request for entry forms in by February 1st, we will continue to fill orders for these forms as long as the supply lasts. Late requests should be accompanied by the regular entry fee of 25 cents in coin or unused stamps, and should be addressed to RADEX, Box 5284, Oak Lane Station, Philadelphia, Pa.

All such orders will be filled on the date received, but we cannot assume responsibility if they are not received in time to be filled out and mailed before the contest deadline.

Verifying Contest Stations

In the February issue, we specified that no verifications would be issued for reports on contest stations. At the request of a number of stations, we have decided to reverse that rule.

If contestants desire a verification of a participating station, we will issue personal letters of confirmation for any broadcaster correctly reported. All such requests should be kept separate from contest entries and should be accompanied by 10

cents in coin for each verification desired.

All verification requests should be sent to RADEX, Box 5284, Oak Lane Station, Philadelphia, Pa. This is the third time that address has been given, so please use it for all contest correspondence!

Up Among the Prizes

After all reports have been checked, the contestant receiving the highest number of points will receive the latest model 23-tube Scott Full Range High Fidelity Receiver. To many fortunate readers, this outstanding custom-built model needs no introduction. Individually assembled in one of the country's finest radio laboratories, the Scott receiver enjoys an enviable reputation among those who insist upon the best.

Since November 1st, one of these receivers has been on test at our radio den and its performance has consistently amazed hard-boiled DXers. Combining a wonderful quality of reproduction with extreme power, sensitivity and selectivity, it leaves nothing to be desired in the way of a radio, regardless of one's individual requirements.

Another prize which will be a welcome award for some contestant is the Sky Buddy model of the Hallcrafters. A five-tube job covering 18 to 555 meters, this receiver incorporates many features found normally in far more elaborate models. A built-in audio beat oscillator makes DXing easy and enables the ham to copy his code stations. An illuminated airplane dial is accurately calibrated over the entire range of frequencies and makes for easy tuning. A built-in headphone jack on the front panel will be appreciated by all DXers. Reports from owners indicate that this is an exceptionally fine little receiver.

Radio Reference Library

The bound study and reference texts of the National Radio Institute is going to be a valuable addi-

tion to the library of the enthusiastic radio fan. These are the same texts used in the famous NRI correspondence courses and as such may be depended upon for accurate coverage of the fascinating subject of radio.

The DXer who likes to fuss with aerials will undoubtedly be pleased with another contest prize. This is the well-known RCA Spider Web antenna kit, which is particularly valuable for all-wave reception. Combining its experience in transoceanic communications work with its knowledge of home receiver requirements, the RCA engineers have developed a system which incorporates a series of doublet antennas and an improved transmission line to the receiver. The result of this arrangement is more stations, less noise on the short-wave bands, and an extremely wide frequency range—140 to 70,000 kcys.

Most listeners are familiar with National Union radio tubes, and some lucky contestant will win a replacement kit of as many as 12 of these tubes.

The Trimm Featherweight headphones are acknowledged by radio operators and DXers alike as just about the best in the field, so we are sure that this prize will be welcomed by one of the winners.

The replacement kit of six Arcurus tubes is going to come in mighty handy some morning when the receiver loses its punch. All DXers know the importance of having tubes in good condition, so here is a prize that will help increase the log.

As many readers have been enthusiastic about our Perfect Phone Adapter, we know that this prize will be well received by a winner—and it will help him "well receive" a faint station some morning.

The regular prize list is concluded with one of our World Globes and five yearly subscriptions to RADEX.

In addition, however, there will be
(Please turn to Page 59)

Do You Remember?

● ● ● By James Hall

James L. Hall, 1267 Fennimore St., Fairmont, W. Va., on checking the January issue of RADEX against a list published by the Department of Commerce on June 30, 1924, finds that only five stations, KFI, WGY, WJAG, WLS and WMAQ have retained their 1924 frequencies to the present time. No station has the same power now as in 1924.

Mr. Hall has compiled some of his recollections of early radio in a column he calls "Do You Remember?" which appears on this page. He would be interested in hearing the recollections of others about some of the early entertainers as well as about the stations themselves.

Do you remember when the first broadcasting (not experimental) licenses were issued in September 1921?

When the first neutrodyne receivers appeared?

When in March 1923, KDPM in Cleveland first used shortwaves as a means of repeating programs from KDKA? This process was put into large scale operation by KDKA and KFKX in Hastings, Nebr., about a year and a half later.

When KDKA transmitted the first shortwave program to England? (December 31, 1923). The first American program to be rebroadcast in England was transmitted by the same station on February 5, 1924, and on October 11 of the same year a program was rebroadcast in South Africa.

When the government list showed 22 stations of 1000 watts or over and only KGO and WEAJ used the "super" power of 2000 watts? (February 1925).

When KOP was the station of the Detroit Police Department?

When the Florida boom of 1925

IF you are interested in television, you ought to understand radio. Mr. B. Francis Dashiell, the author of the Story of Television running currently in RADEX, has written a book called

The Beginners' Story of Radio

in which the fascinating story of radio is written in plain English so everyone can understand it.

This leatherette-bound book, illustrated with 63 diagrams, explains everything that takes place within a radio receiver.

We will send you a copy for
only 35 cents.

**The RADEX PRESS
Conneaut, Ohio**

brought us our first consistent reception from that state with WMBF, WGBU, WJAX, WIOD and WGHB as new stations?

When PWX, 6KW, 7SR and 2BY were the Cuban standbys?

When CZE and CYJ in Mexico City were the only Mexican stations we could log and they both refused to answer letters?

Local papers report that a construction permit has been granted for a new station for Ashtabula, Ohio. It will be owned by the publisher of the Ashtabula Star-Beacon and the Conneaut News-Herald.

The RADEX Puzzle Corner

When the Call-O-Gram printed in the February RADEX was correctly solved the two middle lines read RADEX WISHES YOU THE BEST OF DX. The calls are:

1. RTA
2. WDAH
3. KGDE
4. XEE
5. W9XBY
6. EDT
7. WSUI
8. KIT
9. WOS
10. WHO
11. KGEF
12. XES
13. DX
14. WAYX
15. KPO or KGO
16. XEU

10. What is the peculiarity of the call letters KYW, KDKA, KQV?

(Answers on Page 34)

1
32?
4??
5???
6???
7???
8???
??

| Horizontal | Vertical |
|-------------------------|--------------------|
| 3 on 1310 | 1 880 in Calif. |
| 4 in Jackson | 2 a poem |
| 5 1310 in Pa. | 3 does not verify. |
| 6 Illinois, not Chicago | 4 in Ala |
| 7 Capital of the State | 4 West Lafayette |
| 8 on the MBS | 5 Jacksonville |
| | 6 Miami |
| | 7 Detroit |

Guess Again, DXers!

Compiled by Moe Luff, 2339 Hughes Ave., Bronx, N. Y.

1. What do the call letters KLUF stand for?
2. What call letters when inserted in the center of LACE will give the name of the city in which it is located?
3. The call letters KSAC stand for . . . ?
4. What west coast stations' call letters, when reversed, will give the call letters of an east coast station?
5. What three U. S. call letters when reversed will give you one each in Canada, Cuba and Mexico?
6. What do the call letters KCKN signify?
7. What do the call letters WNNY signify?
8. What station is not but should be located in Chicago, Ill., and why?
9. The call letters CHWK signify . . . ?



Nadine Conner, soprano, who was chosen by Nelson Eddy to accompany him on his nationwide concert and radio tour. She is 27 and sings in seven different languages.

With the Station Hunters

● ● ● By CARLETON LORD

OF ALL the material published in RADEX during the past year, a story in the May issue, "Five Years of DXing" by S. R. Lewis, has been the subject of the most reader comment. Written by a well-known DXer and the winner of last year's Mystery DX Contest, the article was an interesting treatise on long-distance reception.

The comment-provoking part of the story was the statement that, in June of 1934, Mr. Lewis had verified all but two active stations in the United States. At the time the copy went to press, our only reaction to the claim was that it was a laudable achievement, testifying to the skill which later won an important DX contest.

That some readers were not of the same opinion was soon evident. A few listeners protested that it was impossible to hear that many stations. One of these letters was printed last fall. Other DXers joined in the discussion—some questioning the claim, others citing similar records by equally prominent listeners. In the January issue, a reader suggested that Mr. Lewis must have done a lot of traveling to hear so many stations.

While RADEX will not attempt to decide what can or cannot be done in the way of reception, it will make every effort to give both sides to all questions. In another section of this issue, Mr. Lewis answers his critics with a logical analysis of the problem.

Further support comes from a well-known DXer who prefers to remain anonymous. He writes: "I believe many DXers have logged practically every station in this country. At the present time, I have logged every station which has been

on the air for three years or more, and I'm closing in on those which have opened only recently. Naturally, it would be impossible to do this in a month. It took me over eight years to get as far as I have. However, although my BCB log is getting close to 1300 stations, my list of foreigners is no longer than that of the average DXer with a total of 500 stations."

Counting Verifications

Another mooted point, which has been dormant for some time, concerns how to count verifications. The question is probably one which will never be solved to the satisfaction of everyone, but Stephen G. Spicer, 2030 Lenox St., Harrisburg, Pa., has his ideas on the subject.

"Here is the rule that I go by," he informs. "If the call letters are changed, it is a new station. I support this contention with the reasoning that there is a new call letter listing and a new card or letterhead. If a station changes its frequency, it should be counted again. This is because its old wavelength might produce a better signal than its new, or vice versa. In other words, it may be more difficult or it may be easier to hear.

"As for the power, they all have enough watts to run, or we wouldn't hear them. If a station boosts its power, it may come in easier. If they lower the power, it is interesting to see if you can still hear the signal. So I don't call this a new station when heard a second time."

It seems to us that the questions of power and frequency are pretty much the same. A change in either can affect the ease with which the station is heard in a given location. Thus, if a variance caused by a frequency change justifies the

counting of a new station, why shouldn't a similar variance resulting from a power change receive the same consideration?

Of course, every DXer is going to continue his own methods of counting stations, shaping his policies according to his particular fancy. No amount of written arguments, editorial opinion or club regulation will alter his decision. A listener DXes primarily for his own pleasure and will govern his hobby to give him maximum enjoyment.

The only catch in the system is the difficulty of comparing logs. The conservative listener will consider only the most radical changes in call and location, discount deleted stations, and otherwise check a growing log. Another DXer will take advantage of every change as a justification to add to his total. Although both may have heard the same number of stations over a period of years, the first may show a current log of 600 veries and the second may point with pride to 800.

Perhaps the ultimate solution will be to classify the various systems. When reporting to RADEX, one DXer will claim 450 veries according to the "don't-count-deleted-stations" system, a second will list 500 catches by the "don't-count-a-location-change-unless-moving-to-another-state" system, and a third might take cognizance of the times by reporting 600 veries under the "ICAC" system. This, of course, would be translated as "I count all changes."

Station Schedules

One of the most valuable station lists seen in many a moon appeared in the January 13 edition of National Radio Club bulletin. Tabulated by Arthur Brackbill, Lancaster, Pa., the list gave stations which are on the air early in the day and have a good chance of being widely heard.

On the air at 0600 EST are WAIM, WHIO, WSAZ, WTIC, WMBG, WAWZ, WIBW and WPRO. On the

air at 0630 EST are WLW, WCSC, WSPD, WBNS, WCHS, WHKC, WLS, WMFR, WJEJ, WMMN, WFMD, WKZO and WTAM. Many of the lower power stations in this list are operating with clear channels at these hours and should be excellent DX targets.

Readers may undoubtedly supplement the list by consulting the time schedules in previous issues of RADEX and noting when needed stations sign on for the day.

Schedules from a number of Virginia stations are supplied by James R. Fitzgerald, Jr., RFD 4, Box 87-H, Richmond, Va. From his report we note that WRVA operated from 0700 to 2400 EST daily except Sunday, when they sign on at 1000. WMBG has a week-day schedule from 0700 to 2400 EST, and on Sundays broadcasts from 1330 to 1930 and 2130 to 2400 EST. WPHR operates from 0700 to local sunset. WBBL has a Sunday schedule from 1100 to 1215 and 1945 to 2115 EST.

California News Notes

"The populace out here is standing on its head," observes Roy E. Covert, 3940 24th Street, San Francisco, Calif., "trying to remember which station is served by which network. There now appear to be five major networks in the state--NBC Red, NBC Blue, Columbia, Mutual and the California Radio System. The San Francisco street cars now bear a poster on the dashboard: 'Your favorite Columbia programs are now being presented over KSFO.'

"After tying up with CBS, KSFO has dropped its after-midnight schedule. KROW has cut an hour off of its broadcasting day and now signs off at 0100 PST, KYA, just to be different, added two hours to its schedule and now continues until 0200 PST. KGGC has installed a new transmitter, which is now being tested in the early mornings. KVCV came on the air recently and shows a nice signal around 1800 PST.

KYOS, another new station, is very strong during the day. KHSL and KTRB also show a good daytime signal, but lose out at dusk to KFVB and WSB respectively."

"On December 18th," notes Anthony C. Tarr, 909 W. Lee St., Seattle, Wash., "I heard the inaugural broadcast from KLAH, Carlsbad, N. M. I was tuned to their frequency at 0300 EST when they put their carrier on for the first time, so can claim to be one of the first DXers to hear this new station. So far, the seasons' best reception has been from 4BU, a 100 watt Aussie on 1480 keys. They were heard on December 21st with a signal ranging from R2 to R5. The most consistent TP has been 4BH, with 600 watts on 1380. They have been heard R7 when no other Aussie could break through the QRM."

"I have been hearing CKCV at Quebec on two different frequencies," announces Allan Ford, Portneuf Station, P. Q. "I have tuned them on approximately 1440 keys with a good R8 signal, and then go down to 1310 and find them with no more than an R7. This has been carefully checked several times. On December 18th, I heard a mystery station on 1449 keys. At 9:28 PM, they struck a gong and then announced, 'This is the Canadian Radio Broadcasting Corp.' A heavy heterodyne from WHOM hung over the signal and they finally signed off at about 10:30. Would appreciate any help as to the identity of this one."

Noise Hurts DX Interest

"In the January issue you say that over-activity of CPCers hurts DXing," reminds Harold Wagner, 328 Hess Ave., Erie, Pa. "I agree with you in part, but contend that heavy interference also is a big factor. A few years ago, we only had to contend with local noises such as those caused by street cars, household appliances and the like. This made DXing difficult but not

impossible. This year the interference seems to be from the power lines and can be heard at great distances. Recently I drove out 20 miles from Erie and turned on the car radio. Although I was two miles from the nearest power line and a mile from a telephone line, the steady buzz could still be heard.

"It seems to me that the government should do something about such a situation. Canada and several foreign countries have a very efficient service for the elimination of interference. I should think that most radio owners in this country would be in favor of laws to control and eliminate radio noises."

Although a poll of listeners would probably show an overwhelming majority in favor of such legislation, it would undoubtedly be difficult to start a concerted action along those lines. The average listener is pretty much an easy-going individual, content to let things pass as they come. If radio interference gets too heavy, he merely shuts off his receiver and turns his attention to something else.

Also, it is possible that much of the noise we hear today is not caused by electrical appliances. A year or so ago, a peculiar wave of interference was reported throughout the East and could hardly have been caused by any one device. It must be remembered that we are in a period of increasing sunspot activity and some of the noise may be coming from these magnetic disturbances. The last similar period was in 1926, when little or no attention was paid to radio noise. Thus, without any real precedence to go by, we cannot say what is the cause of some forms of interference.

"As a result of eight years of DXing," sums up Fred Stone, Kintnersville, Pa., "I now have all but 48 stations in the United States, all in Canada, nearly all in Cuba and Mexico. During this time, the same receiver has averaged 12 hours a day

and I am still using only the second set of tubes. Add that up and you get quite a total."

Foreign Reception

"A year ago I asked you why I had never received any foreign stations," recalls Robert R. Shellard, RFD 5, Brantford, Ont., "although other DXers reported them regularly. I received many letters, all of which suggested that I put up a long aerial. This was done this fall, when I strung up 400 feet of wire. It is working very well.

"I started a new log in September and so far have received 335. My log for the past two seasons was 428, so I feel that this is quite an improvement. The best catches have been TGW, KGU and KHBC. There are 24 in California, about half of which are less than 500 watts in power. But I still have no foreigners!

"Of course, I don't expect to get them all at once. In fact, if I had been told last year that I could get a 250 watt station in Hawaii like KHBC, I would have thought the fellow was imagining things. It may be that foreign reception just isn't so good this year. At any rate, I am still trying and seem to get a little farther each time. I will get there yet!"

That most things come to he who waits is evidenced by a report from Frank Wheeler, 406 Eagle Point, Lakeside, Erie, Pa., who writes:

"At 0245 EST on January 3rd, I received my first trans-Atlantic station. It was Radio Normandie! I had been trying four years for a T.A., and at last I landed one. This season seems to be better for DX than last year. Perhaps it is because I am now using a 12 tube set as compared with a 9-tuber last year. Anyhow, I have received so far 22 new stations and two foreigners, while at this time a year ago I only had 19 new stations and no new foreigners."

"In preparation for the present

DX season," advises Harry V. Adams, Bay View, Digby Co., N. S., "I purchased a new Stewart Warner R-182-X receiver. It is a 6-tube job and I am well pleased with its performance on the broadcast band as well as the short waves. In seven weeks of listening, I have heard over 200 BCB stations and reports are out to LR1, LS2, Lille, Rennes, Belfast and Radio Normandie. Other foreigners heard include 1YA, 4YA, Paris, Bordeaux, LR4, PRC6, LT3 and Lyons. Would appreciate letters from other readers who have this type set."

"I have finally logged two broadcast band stations in South America," proudly proclaims Roy B. Edge, 14 Villa Ave., Buffalo, N. Y. "I have LR1 and LR4, catches which I had begun to think impossible. I had been reading where so many listeners were hearing all this foreign DX and, like many readers, began to think that it was a lot of bunk. However, I finally heard these two and it proves to me that patience is rewarded in the long run.

About Reports

In the opening paragraphs of the December DX article, we commented on an incident which brought no credit to American DXers. We referred to a report published last spring in which a reader listed a number of foreign stations which he claimed to have heard.

The publication of such a report was not in itself unusual. Scores of DXers throughout the country enjoy foreign reception with a fair degree of consistency. Given a clear morning in the right season of the year, the average listener has an excellent chance to span one of the oceans and bring in a station in Europe or Australia.

The trouble with the report in question was the simple fact that, at the time two of the stations were supposed to have been received, both were still in the process of construction. This fact was established by an

Australian listener and was checked with an official government report on broadcasting.

Lately the mail has been heavy with comments on the question of honest DXing. Many letters suggest that we expose listeners guilty of questionable practices. In the minds of the writers, nothing would be too severe for a listener who strayed from the straight and narrow.

While such a policy would undoubtedly drive suspected DXers out in the open, who is to say that they are guilty? We cannot help but feel that many innocent DXers would be drawn into an unfavorable position.

This magazine cannot attempt to decide what reception is possible and what is not. We will publish any interesting reports submitted by DXers of standing, in the belief that 99% of the DXers are honest. But here is the catch . . . if the reports are too obviously exaggerated or false such DXers are pretty apt to lose their standing among honest DXers, because they surely will be recognized.

Old Issues Available

RADEX is now out of print for the years up to and including 1928. For the year 1929 a very few copies of Nos. 29, 33 and 34 remain on hand. For 1930 we have a limited supply of Nos. 41, 42, 43 and 44. We can supply complete files of RADEX from No. 41 through No. 106 inclusive.

Past issues may be secured at the regular rates, that is 25c for single copies, \$1.00 for five and \$1.75 for ten.

"Here is a suggestion for some of the radio clubs. I have heard at least one station in every state but Delaware. As there are but two stations in this state, I should imagine that there are hundreds of other DXers who should appreciate a special from one of them."

Another RADEXer who would

probably like a whack at either WILM or WDEL is Billy Snow, 302 Harrington St., St. Joseph, Mo. "I started DXing in February 1935 and have logged 510 stations since then. LR1 is my most distant catch, although I feel that KHBC is the best catch. Although I have no T. A. or T. P., I have Hawaii complete and that is something. All states but Delaware have been heard at least once."

Orchids to Brinkley

DXers may say what they will about Doctor Brinkley and his border stations, but they do owe him a vote of thanks for having XEAW stand by for the PRF3 special on January 4th. Reports in club bulletins and letters from readers indicate that the Brazilian station was able to get into this country, something that would have been impossible but for the courtesy of Doctor Brinkley.

"Reception on the BCB here has been generally poor," bemoans George M. Curl, 16 School St., Tilton, N. H., "except for a few fine nights when static didn't completely drown out weak signals. PRF3 was heard on their recent special test program but they came in faintly and verification was impossible."

"I started my sixth year of DXing in January," announces Robert W. Botzum, 633 Moss St., Reading, Pa., "and am still using my old reliable 8-tube Atwater Kent. At the time of writing, my log reads 892 stations heard and 800 verified, with several reports still out. Included among my veries are 19 T.A.'s, 15 S.A.'s and 9 T.P.'s. All told, I have tuned 31 different countries on the broadcast band."

"In your December issue, you printed a claim that WWJ and not KDKA was first in the broadcasting field," reminds William Sykes, 3885 Laurel St., Vancouver, B. C. "Three years ago I had a letter from KQW which read as follows: 'This will acknowledge receipt of your communi-

cation regarding listening to KQW's DX program in celebration of our 26th anniversary as a broadcasting station. For your information, KQW is a 500 watt station operating on a frequency of 1010 keys. Our station is "The Pioneer Broadcasting Station of the World" and we have sufficient literature in our files to substantiate this statement.' Their letter was signed by F. J. Hart, president; Ralph R. Bryan, announcer, and Dan Williams, operator."

Builds New Set

"The old 6-tube Erla TRF receiver has been retired," informs T. R. Grosvenor, 247 S. Hillside, Wichita, Kans., "after building a log of 880 stations for me. I have built a new all-wave set using a 56, 57, 2-58's, 55, 2A5, 45's in push-pull and 80 rectifier. Yesterday morning, December 27th, was the first time that I really DXed with the set and I was very well pleased with its performance. As I have not listened to the frequency check broadcasts since last spring, there will be dozens of new stations for me to go after. With the new catches heard this past week-end, my log stands at 898 heard and 442 verified."

"Although I have been listening to the radio since the early days of 1922," observes Ernest W. Law, 10439 69th Ave., Edmonton, Alta., "I did not start DXing until January 1935. So far we have received 523 stations and have verified 200 of these. It wasn't until last winter that we had any success with foreign stations, and then we logged 10 in Australia and, four in New Zealand. No luck with the South Americans, however, although we believe that most anything is possible in radio if you keep trying."

"This season has brought me 19 new stations," avers Clarence Wakefield, Wiarton, Ont., "to make a grand total of 715 on the broadcast band. I don't count changes in frequency or call, although about 55 on

my log have been deleted since I heard them. So far, I haven't had a whisper from any of the T.A. stations. However, reception in other directions has been pretty good, with stations from coast to coast in the United States and Canada being heard, as well as a few across the Pacific."

Prize Letters

"I'm casting my vote in favor of the BCB prize letter in the January issue," ballots Edgar W. Jones, 1250



"Do You Want to be an Actor?" asks Haven MacQuarrie every Sunday night on the Chase and Sanborn program from Hollywood. In this program he gives movie-struck youth the benefit of expert coaching before they take parts in the final performance of dramatic sketches.

Fifth Ave. S., Lethbridge, Alta. "It was more interesting to me because the accomplishments of the blind are as great, if not greater, than those of us who have our sight. While the short wave tuning experiences are interesting, the feat could have been accomplished by a large majority of radio fans with much the same result. Mr. Lewis said: 'We can learn something of the very special brand of courage possessed by Frank Collins of Reubens, Idaho.'

And we certainly can! The accomplishments of the blind cannot go unrecognized!"

"The National Radio Club was organized in September, 1933," supplies John C. Kalmbach, Jr., 1195 Wehrle Dr., Williamsville, N. Y., "and has grown steadily until we now have members in every state in the Union, in Canada, Mexico and other parts of the world. Our six-page bulletin is issued weekly from September 1st to May 1st and goes to all members. Membership is \$1.25 a year, with no initiation fee. Further information may be obtained from the president of the club, Robert H. Weaver, 603 W. Market St., York, Pa."

Home-Made Booster

"Here is a hook-up which may be of interest to your readers," contributes M. F. Meade, 819 Wyandotte St., Kansas, Mo. "My sons broke into the r. f. circuit of my old Kolster K20, just ahead of the detector, and ran the signals into the aerial of a four-tube Philco midget. In other words, the Kolster was converted into an r.f. amplifier for the Philco. By using a double pole switch, the sets may be used in this manner or they may be operated independently as before. So far, the only drawback has been the broad tuning of the Kolster. We hope to correct this in time. Although we have no R meter, we would judge that careful tuning of the sets will increase signal strength about 200 per cent.

With Mr. Meade's letter was a sample of his new report card. It is just about the nicest one we have seen in a long time, and readers may have a sample by sending postage to Mr. Meade.

"In all my 10 years of DXing," postcards Charles L. Morgan, 800 E. 179th St., New York City, "I have never heard a better DX program than the one CFLC broadcast from 0200 to 0500 EST on December 27th. I gave them a report covering the full three hours. It was worth it!"

Listeners Wanted

The amateur radio stations listed below will be on the air at the times indicated and the operators request all listeners and amateurs overseas to report on their signals. Accurate reports, (from abroad only), will be verified for return postage, which can be sent in the form of International Reply Coupons.

These stations will be recognized by the phrase "Calling CQ DX on schedule." Address all reports to the stations in care of The Radex Press, Conneaut, Ohio, and we will forward them promptly.

The schedules below are effective from April 1 to May 1. Time is given in GMT.

W8BKM, Conneaut, Ohio, 3985 kcs. Every hour on the hour from 2300 Sat. to 1200 Sun.

W8PNF, Conneaut, Ohio, 14206 kcs. Every half hour from 2000 to 2300 on Sat. and Sun.

All radio amateurs who desire to contact far-off countries to complete their requirements for a WAC certificate are invited to use this column. The service is for those who use 'phone (A3) emission only. The requirements are simple: Requests are to be made in writing or via "ham" radio to RADEX. Operators must agree to QSL all correct reports if return postage is forwarded. Schedules printed in this column must be kept, on the frequencies specified.

Complete information about transmissions should be in our hands at least three months in advance to allow time for distribution of magazines throughout the entire world.

As most DXers are aware, there are many types of special broadcasts and one such as Mr. Morgan heard from CFLC is too seldom heard. The NNRC program from WOR on January 18th belonged in this class, and merely illustrated
(Please turn to Page 43)

Unusual Service Problems

In The HOME

● ● ● By B. FRANCIS DASHIELL

60 Vs 25 Cycles

I live in a district where the electric lighting current operates on 25 cycles instead of 60 as is usually the case. I am using a 60-cycle a.c.-d.c. receiver and it is not satisfactory. What I should like to know is whether a 60-cycle radio will work on a 25-cycle current. I have been told that it will not, but that a 25-cycle radio will work on a 60-cycle current. There are so many conflicting statements that I would be happy if you would advise me correctly.

Of course, any radio will operate on the various lighting current frequencies. But entire satisfaction cannot be expected. In fact, to do so might endanger the set under certain conditions. The power to run the radio is obtained from a transformer, while in a 110-volt a.c.-d.c. set, certain other conditions of current rectification prevail, usually without the aid of a power transformer. It is safer, in your case, to run the set on 25 cycles than it would be if you had a standard transformer operated set. Your question, however, raises an interesting point, which will be of interest to many readers similarly situated.

Transformers are designed to operate on alternating current, and the frequency of that current, together with the size and quantity of wire on the coils, determines the output of the transformer in volts and amperes. The windings or coils are calculated to provide a certain resistance to the flow of current, which, with alternating current is known as impedance. Any change in the frequency of the alternating current flowing through the wires

changes the resistance of the coil, and the lower the frequency the lower the resistance. If the resistance is too low the coil becomes a partial short circuit across the line and may heat to the danger point and burn out.

Therefore, a 60-cycle radio should never be connected to a 25-cycle lighting current. The voltage output of the transformer will not be correct and the set will not function properly. Heating will be noticed even if the transformer primary does not burn out. And the filter chokes and coils will not be of the proper size and capacity. Hum will be noticed. So, if you wish to use a 60-cycle standard radio on a 25-cycle line it will first be necessary to replace the power transformer and then make certain changes in the filtering system to handle the slower alterations which are more difficult to filter out.

Such alterations usually consist of increasing the capacities of the filter condensers by not less than twice the original, or even more, sometimes as much as three times. Replacing the choke coil or coils by larger ones, have greater inductances in henrys, also will tend to eliminate the bad hum that is created.

Now, on the other hand, a 25-cycle radio will operate better on 60-cycle current. The resistances of the transformer coils are naturally greater and there is little or no danger of the primary burning out. However, some hum will be noticed, for the filtering system still is not matched to the current used. The values of the filter condensers (across the choke coils) should be reduced to about half of the

original, and smaller chokes might be used.

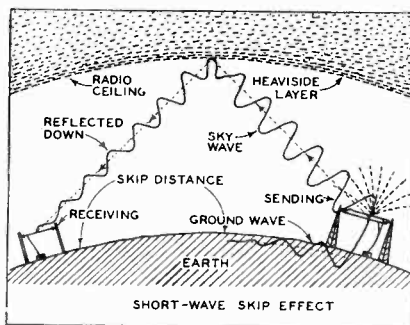
There is only one real solution to the problem that confronts the owner of a 60-cycle set where only 25-cycle current is available, and that is to get a set designed for the current in the home. However, if the set is worth the expense, and a competent mechanic or serviceman is available, the changes suggested should be made, and the parts necessary should be obtained from the manufacturer designing and building the set. The a.c.-d.c. set offers a slightly different problem, but in any case the hum that occurs can be dealt with as above mentioned. We suggest, however, in the case of an inexpensive set of this type, that a new one of 25-cycle design be procured.

Skip Effect

What is meant by the expression "skip distance" which one sees so often in radio magazines. Does it mean that radio waves skip from point to point?

It is known that radio waves can be reflected, just like light and heat waves. A radio wave, when it is shot away from its sending antenna, will travel outward by two routes—one, the ground wave, and the other, the sky wave. The ground wave soon disappears; this is the reason why we can hear nearby stations with only a ground wire and no antenna. The sky wave is a radiated wave. High above us in the outer air is an electrical region called the Kennelly-Heaviside Layer, or the "radio ceiling." When radio waves reach the outer atmosphere they are reflected back to earth by this ceiling.

When this radio wave is reflected it comes down at an angle, far beyond the limits of the ground wave. Between the vanishing point of the quickly absorbed ground wave and the beginning of the area covered by the sky wave there is a wide area not reached by any radiation from



this particular wave. Signals cannot be heard here for this is within the *skip-distance* region.

The effect of skip distance is shown in the accompanying illustration.

Coaxial Cable

On page 9 of the November issue of RADEX is a reference to carrying images over a wire. I am interested in procuring information about sending images in this manner, and shall appreciate it if you can tell me where I can get more information on the construction and operation of such apparatus.

The coaxial cable that was mentioned in the article on television in the November issue of RADEX is designed to carry high frequency currents or radio waves without them being broadcast into the air. In this way the wide band of frequencies necessary to transmit visual signals can be sent from place to place by wire.

The coaxial cable idea was developed by the experts of the Bell Telephone Laboratories for carrying many telephone calls at the same time. It was found it could be used to "pipe" television images from one broadcasting station to some point of reception. We suggest that you write the Bell Laboratories, care of the Bell Telephone Company, in New York City, and ask for such publications they may have for distribution regarding this remarkable cable.

Adding Power Tube

Is it possible to add another type 45 power tube to my Midwest A.C. 9-tube receiver? If so, will any change in sound or power be noticed, sufficient to make it worthwhile? I wrote the manufacturers but to date have not had any instructions. I also would like to know what the present output in watts would be.

The Midwest receiver you own already has two type 45 power tubes, and it is not at all practicable to add one more. If any addition should be made, it would be best to add two new tubes, each paralleling one of the old ones. Such additions, however, call for changes in potentials furnished the tubes and speaker windings, and the drain on the rectifier system would not be advisable.

The power from this set is about all that you can expect with good tone. You might try replacing the type 45 tubes with type 47s, using the adapters made by Alden, and which are available at most radio supply houses. These pentode tubes give more true tone and slightly more power than the older types of power output tubes. The type 47 draws a bit more amperage than the 45 but the Midwest 9 should be able to supply this slight overload. The power output of the two 45s is slightly in excess of 2 watts while that of the 47s should be close to 3 watts.

Foreign Broadcast Reception

I wish to construct a receiver solely for DX reception on the broadcast band. What do you recommend? I have thought of three r-f stages, detector, and audio stages; or a superheterodyne with a r-f stage ahead of the first detector. I have been a DX listener since 1923 but never had a set that would bring in foreign broadcast band stations. At present I have a ten-tube set that does not bring in foreign stations on the broadcast band.

First, before you have serious de-

sires to pick up foreign broadcasting stations in the so-called broadcast band, as we here in the United States understand it, stop to consider the distance away such stations are and the power they use. When a broadcast receiver is located on the Atlantic seaboard it is very obvious that consistent reception of the Pacific Coast stations is a rare event. There are so many stations working within the broadcast limits that even if a distant station is within range it might be drowned out or its signal heterodyned in such a way that reception and identification is impossible. To receive stations on the other side of the sea, even from the Atlantic Coast side of this country, requires the spanning of distances far greater than across the United States.

A good broadcast receiver should do this, of course, without much strain on its abilities. Whether a ten-tube set can perform is a question, but it is always exceptional when it does so. The larger sets, such as Scott's 20-odd tube, and others, have the ability to tune to and pick up those weak DX signals. And much DX reception on the broadcast band is being accomplished on smaller sets, when the weather is right, if interference is absent, and the time and patience of the operator perfect.

When you attempt to build a receiver that will do all this you are pitting all your untrained and inexperienced skill against the engineers and manufacturers who have been striving for just this same thing for years. Building simply a three-stage radio-frequency receiver will not give this sort of satisfactory reception, nor will a superheterodyne with a single r-f stage ahead of the detector solve the problem. Most superheterodynes now use a r-f stage ahead of the detector, only they call it a pre-selector. There is nothing new to this idea.

Sets of this kind can be built, and

such work would be highly interesting, using modern tubes of great amplification power. But the problems of shielding, tuning and perfect balance are almost insurmountable for the amateur experimenter. RADEX does not attempt to provide circuits for its readers, because it knows from wide experience that a mere circuit drawn on a piece of paper is not a proper guide to follow in building a set with modern-day tubes and parts. A wiring diagram is the smallest part of the job. There are radio magazines that provide this service, which obviously is beyond the scope of RADEX, and we suggest that you carefully peruse the pages of some of these. We know that, unless we conducted an experimental laboratory, it would be unfair to all concerned if we described a set of great r-f amplifying powers, and did not give measurements, exact specifications, shielding and location of all parts down to the minutest details.

Tubes Burn Out

I have an Atwater Kent model 559 receiver which will not run over a month without burning out a tube. I had this trouble from the first, and three different repair men have been unable to locate the trouble. I should like to hear from you as I feel that you can help me.

When tubes burn out it is natural that an excess voltage on the heater or filament is the cause. Now, just what brings about these surges of high voltage often seems completely hidden, but it is a fact that the trouble exists. There is no cure except to find the cause. An examination with a test meter of the voltages across the heater terminals of all the tube sockets under all conditions of operation is imperative. Such things as cathode resistors and condensers and internal short circuits that might overload the heaters and filaments must be included in the search. The voltage divider that feeds these parts of the

tubes, and the transformer section that provides current to the tubes all must be tested. The possibility of some loose contact causing a short circuit with a filament of a tube must not be overlooked. Try connecting a low-voltage a.c. voltmeter across the terminals of the heater supply from the power transformer and watching for a surge of increased voltage late in the evening when light switches are snapped on and off.

I have a Midwest receiver that uses 18 tubes. It seems to be off balance just now as the short wave stations do not all come in where they are supposed to. London comes in about 15 points off, and then at times it can hardly be heard. I put in a number of new tubes, but it has not helped. Can a good service man work on this set? One tells me that he can. Or will it be best for me to return the set to the factory? I don't wish to do this because of the expense.

All radio sets get something wrong once in a while. Any good service man should be capable of working on any set, for when we come down to it, all sets are fundamentally similar. If you have a good service man available, by all means patronize him. The added expense of sending the set to the factory and the longer loss of time is not justified. However, you might write the Midwest people, and they will advise you whether they wish to make the repairs or not.

We think that all this set needs is a simple lining up of short wave tuning circuits. Any serviceman with certain testing apparatus can do the job. The short wave bands of all-wave sets sometimes get out of alignment and need readjustment. Of course, if there is some error of calibration, the trouble would exist in all sets, and this is not the case you may be sure. It also is possible for the higher frequencies to get off a bit when the oscillator circuits

"drifts." Installing so many new tubes would not help this particular trouble unless the oscillator tube happened to be defective.

"Air-Line" Antenna

What kind of an aerial do you advise for use with my 7-tube all-wave "Air-Line" receiver. I have logged a few foreign stations in Europe, England, France and Germany, but can't seem to get them very clear or with much volume. I now use two wires, one 90 feet and the other 25 feet. I would like to get rid of the noise of on-coming cars on U. S. Route 12. This set seems to be rather noisy on the short waves. Down from 11 to 6 meters it has too much noise for good listening, and this seems to be a "slushing" sound. It has all new tubes. The set works fine on the broadcast band.

We suggest that you try an antenna of the doublet type, a number of which are on the market and may be purchased at most radio stores. They, also have been described in the pages of this magazine. Run the antenna at right angles to any power line and street car line that may be near. The motor car noise is very hard to control, and the antenna may help some if far enough away from the highway. In this case most any length of transmission line lead-in can be used. As to the noise that you encounter on the 11 to 6 meter band, this is not unusual, for the higher frequencies often are noisy, and increasing volume adds to the noise level or background. However, if some of the noise comes from power lines and street cars, a good antenna should be of considerable assistance. As a rule, good reception is not obtained on this 11-6 meter wave band from distances. But better distance comes in over the 11 meter end. When you get close to 5 meters, the range is practically visual—that is, you hear from places that you can see. In this case the higher the antenna the better the reception. All in all, we

are of the firm opinion that you are getting very fine reception on a set having only 7 tubes, and any improvement in antenna will not clear up the weak and indistinct signals now coming in. The new antenna should, however, seem to increase the volume for it cuts out some of the noise and thus reduces the noise background that tends to ruin signals.

Had Two G. E. Sets

I had a new G. E. model E-81 set last October, but it was in a repair shop much of the time, and in two months it was replaced with a different model called the E-91 because I had had so much trouble. Now the new one had to have a tube in a short time, and I notice that the colored tuning light stays green constantly instead of turning red when the set is not properly tuned. Is this second set worth sending to the shop or shall I get rid of it like I did the first one?

This is a well-recognized brand of radio and there is no reason why you should experience similar trouble with two sets. In fact, no unusual amount of trouble should be given by either of the sets. It is possible, however, that you just happened to get a set that had some defect that slipped by the inspector, or it had been damaged or put out of adjustment by some accident. Even with the very best of things, like fine motor cars, there might be one that fails to get perfect assembly and adjustment.

We suggest that you hold on to the set you have and get a good service man to make an estimate of the cost of repairs and submit the estimate to the G. E. agent from which you purchased the set in a distant city, and see what his reaction is. It is almost certain that some slight work on the local serviceman's part will correct the trouble and the set will give years of fine service. A tube, of course, is apt to burn out or fail at any time. And

the failure of the color tuning light indicates that the set is off tuning and fails to resonate in the tuning or i.f. circuits. This accounts for the weakened signals, and here your serviceman can quickly fix the trouble and get the set back in tune for all time.

Set Not Selective

I have a set that is not very selective on the broadcast band, yet rather good on the short waves. If I can increase the volume of this set, will you tell me how. Does it make any difference if the lead-in wire is 40 or 60 feet long? Please tell me how to make the set more selective on the broadcast band.

You have not mentioned the name of the set, so it is impossible for us to give more detailed information. If our readers would be more explicit when writing about their troubles and give us full information about the set so we can identify it in our files of circuits, we can be of much more assistance.

However, in most sets, if they are not properly balanced the selectivity will be seriously impaired. We suggest a good serviceman, for the job of aligning is not difficult or costly, and the net result, too, will be that the volume will be increased. If the set and tubes are in good condition, without failing resistors and condensers or leaking tuning units and poor coils, there is not much else that can be done to increase the volume. To do this, it would be necessary, then to add an additional audio amplification stage. If the set is modern, with shielded chassis, the job is quite impracticable. The extra tube and circuit would draw heavily on the power parts and the voltage readings over some of the circuits would change with a loss of signal intensity.

A forty to sixty foot antenna lead-in should not affect reception if it is well insulated and as much in the open or clear as practical. In some cases, the lead-in wire is part of

the antenna, and the 20 feet of additional wire might change the tuning ability of the antenna, but we doubt whether this is noticeable in ordinary radio reception.

Antenna Troubles

I have a Wilcox-Gay 7-tube set with 5 bands from 15 to 2200 meters. Also have a G. E. doublet antenna, but I do not think it keeps out noise. I think that a good "Zep" antenna with tuned feeders would be better. Now, when I hook up the antenna as one straight wire it does better on this particular set. Also have a short wave 5-tube set, and the same effect is noticed.

Your suggestion of a tuned Zep antenna is good, but it would mean naturally that you would have to have an additional tuning control. If the Zep were made for just a narrow band that you wished to receive on at all times there would be some advantage. We suggest, instead that you use the doublet antenna which you have but procure a good antenna coupling condenser such as made by Lynch and others. Your set will not properly connect to an antenna of the doublet or two lead-in style, unless the coupling transformer is used. Otherwise, use a good flat-top antenna of conventional design with a ground wire.

If one wire of a doublet is disconnected it will often act as a "T" type of antenna and in some cases give louder signals than the doublet especially if the doublet was not working very efficiently in the first place due to directional effect, poor matching transformer or lack of one, or failure to respond to all frequencies when not in proper resonance.

Also, the greatest signal does not mean everything; rather it is the signal to noise ratio which is the greatest importance with a sensitive and efficient radio receiver. If the noise level is missing entirely, a very weak signal is entirely intelligible.

New Antenna

I have just purchased a 9-tube all-wave G. E. set, and would like to know what antenna to use. A serviceman told me about a plan he has and says it would work nicely with my set. It is a straight horizontal wire split with an insulator so one section is 18 feet and the other 30 feet. Two leadins run down to the set, one to the short wave terminal and the other to the long wave terminal. Would this give good results? Also, I am told that an antenna must be erected cross-wise of the power lines on the street. Is this so?

We do not see anything special about the antenna you have described. In fact, it happens to be two separate antennas for each terminal. A doublet antenna, such as the General Electric people make for their own sets, is advisable. Or a conventional antenna will give good results. A wire about 40 to 60 feet long, with the leadin off one end will suffice. If there are any power lines close to the aerial it would be an advantage to run the antenna top at right angles, but as far away as possible.

Short Wave Hopes

I purchased a Philco 9-tube set, model 660B, and while I get some German, Italian and South American stations, I feel that I am not getting all the distance I should. As I am very anxious to get distance on the short waves would you suggest that I buy a short wave receiver having about 5 tubes? The stations I get come in strong but do not understand why I can't get more around the world. Is it necessary to get an 18 to 23 tube set in order to get Japan and other stations half way around the world? I can not understand all these DX records others make. Do they have "super" sets that I don't know anything about?

It would be useless for you to purchase a short-wave receiver of five tubes and expect it to get distance from around the world. Surely, when you cannot do this with ease with a 9-tube widely recognized set, it would be just as great a problem with a small, inexpensive receiver.

Short wave reception is something that cannot be pulled in on a moment's notice. Sometimes nine tubes will do it, and again 25 tubes would fail. So there you are. Really, we think you are doing well with a nine tube set to get Europe and South America as loud as you say they are. This, to our mind speaks well of the set you have. As soon as people understand that short waves are not consistent and that while a set is advertised as "short-wave" it may not get all "foreign" short waves, the better satisfied they will be with what they are able to pick up.

While you may not think your all-wave set is made for distance, it is only necessary that a receiver have good sensitivity to bring in distant stations under good conditions. So do not think that this set is not made for distance, because it is. If it lacks sensitivity then this is a matter for a good serviceman who can balance and align the set for maximum results. Also, the tubes may need an examination and replacing here and there. In most cases, when foreign stations come in, as in your case, the set is very sensitive, and under good conditions the elusive stations will finally be located. Possibly more experience will yield better results or possibly you are too anxious. Many atmospheric conditions, as well as locality, play a great part in distant reception on the short waves. The remarkable distant DX records that have been made, have not been accomplished all in one night, one station immediately after another. Frequently they represent months and months of painstaking effort.

Hints for SHORTWAVE Fans

An Explanation of SW Reception—Part II

THERE are hundreds of short-wave stations on the air, and the average receiver will pick up at least a score of overseas broadcasters during a day and evening with very little effort, but, most listeners ask, how does one know who it is if the announcements are made in Serbian or Hindustani? The problem of properly identifying stations is most discouraging to s.w. listeners.

While it is not possible for us to teach the various foreign languages, we do give as much information as possible in our new indices so listeners can identify strange stations by their manner of announcing or by various signals they employ to facilitate their identity. For North American listeners the biggest problem is to conquer the Spanish language. If one masters the alphabet he has made a good start, because call letters are given by the letters of the alphabet.

The Spanish Alphabet

| | |
|----------------|-----------------------------|
| A, Ah | N, En-nay |
| B, Bay | O, Oh |
| C, Say or thay | P, Pay |
| D, Day | Q, Koo |
| E, Ay | R, Air-ray |
| F, Ef-fay | S, Ess-say |
| G, Hay | T, Tay |
| H, Ah-chay | U, Oo |
| I, Ee | V, Vay |
| J, Ho-tah | W, Doo-ble-vay |
| K, Kah | X, eckis; ay-kis; ek-key |
| L, El-lay | Y, Yay |
| M, Em-may | Z, Zed. |

These pronunciations are given the way they sound on the radio and may not agree with Spanish textbooks. Slightly different accents are heard in different countries, which accounts for the dif-

ference in pronunciation of some of the letters.

The Spanish numerals, also very important, are given below:

| | |
|-------------------|-----------------|
| One, Oo-no | Six, sase |
| Two, Dose | Seven, Sate |
| Three, Trace | Eight, Oh-cho |
| Four, Koo-ah'trow | Nine, Noo-ay-ve |
| Five, Theeng-ko | Ten, Diez |

Telling Time

The conversion of time from one standard to another is very difficult for some listeners. In RADEX we use the 24-hour clock and it is always Eastern Standard Time unless otherwise specified. The idea of the 24-hour clock is not new, nor is it original, although we believe we are the first radio magazine to practice its use consistently. It pleases us, quite naturally, to know that most

Time Conversion Table

The time given through RADEX, unless otherwise specified, is Eastern Standard by the 24-hour clock,

| EST 24-hr. | | |
|------------|-------|------|
| EST | clock | GMT |
| Midn't | 0000 | 0500 |
| 1 am. | 0100 | 0600 |
| 2 am. | 0200 | 0700 |
| 3 am. | 0300 | 0800 |
| 4 am. | 0400 | 0900 |
| 5 am. | 0500 | 1000 |
| 6 am. | 0600 | 1100 |
| 7 am. | 0700 | 1200 |
| 8 am. | 0800 | 1300 |
| 9 am. | 0900 | 1400 |
| 10 am. | 1000 | 1500 |
| 11 am. | 1100 | 1600 |
| Noon | 1200 | 1700 |
| 1 pm. | 1300 | 1800 |
| 2 pm. | 1400 | 1900 |
| 3 pm. | 1500 | 2000 |
| 4 pm. | 1600 | 2100 |
| 5 pm. | 1700 | 2200 |
| 6 pm. | 1800 | 2300 |
| 7 pm. | 1900 | 2400 |
| 8 pm. | 2000 | 0100 |
| 9 pm. | 2100 | 0200 |
| 10 pm. | 2200 | 0300 |
| 11 pm. | 2300 | 0400 |

For times throughout the entire world consult the RADEX Time Converter.

of our readers use this time system in all their letters. For the benefit of new readers who may not be familiar with this method of writing time, we have decided to print a little chart each month showing various local times compared with the EST 24-hour clock and GMT. This month our chart shows conventional EST alongside the other two systems.



Believe it or not, here's Popeye! That Hercules of comic-strip characters is brought to life by Floyd Buckley, who qualifies as a he-man in his own right. He has been a cowboy, gold miner and a stunt man in the movies, in addition to playing the banjo for a traveling medicine man and touring with Buffalo Bill.

Ham Lingo

Some of the amateur radio operators use abbreviated forms of many radio terms. We do not consider them as slang expressions, but feel that occasional use of these words, in addition to adding "color" to a radio fan's language, enables us to express a great many ideas by the use of only a few letters.

Perhaps the most frequently-heard expressions are "73" and "CQ." 73

is the amateur's way of saying "best regards," and vy 73 is "very best regards." CQ is a general call to any radio station that might wish to make a two-way contact.

Radio operators are nearly always "old men," (OM) and a feminine operator is a YL (young lady). An operator's wife is an XYL.

The letter "X" saves using a number of other letters, as in xmitter, xmission, xtal, for transmitter, transmission and crystal. Schedule is more often spelled "sked."

A radio operator is an "op"; his typewriter is a "mill"; he proudly refers to his xmitter as "junk" or a "rig," while his aerial is usually a "sky wire" and the pylons supporting the sky wire are "sticks." Instead of typing on his typewriter he "pounds" the mill, and the hand with which he operates his key is his "fist."

The letter "K" means "go ahead." CUL stands for "see you later." The QRA is a station's address. QRM is interference from some other station, while local QRM is interference caused by faulty electrical appliances nearby. QRN is atmospheric or natural static.

To Request Verifications

A large number of stations welcome reports of reception from their listeners and usually acknowledge the reports with a verification. This practice started in the old days when a listener thought he needed a letter or card from a station to prove to his doubting friends that the broadcaster actually was heard. In these modern times a DXer's friend will usually believe him when he mentions reception of a California or Oregon station, but he still collects the cards and letters for his own amusement, just as some of us collect postage stamps or match boxes.

Among radio fans verifications are known by various names, the most common being "veri," "confirma-

tion," "QSL," and "wallpaper." A collection of attractively colored QSL cards pasted up on a wall makes an attractive-looking radio den but only the very best DXers can ever hope to paper an entire room in this manner. Many of them try it, however, and this practice has led many radio stations to believe that this is the primary object of collecting cards.

It should not be necessary to state that DXers should never request a verification from a station until the station is positively identified. A few so-called DXers write for verifications from every new station that is reported without bothering to tune for them, and we have known of some who have written to shortwave stations while they did not even possess a shortwave receiver. This sort of chiseling has caused several prominent stations to adopt the practice of ignoring all reports, so all DXers suffer because of the thoughtlessness of two or three persons.

Complete Reports

At least a half hour of the program should be logged, if this is possible, and this log should be as accurate, truthful and complete as possible. The letter should include the date and time of the reception, the frequency on which the station was heard, the call letters, location and accurate data on the signal strength and quality. Time should be given in EST if the station is located in North or South America, and in GMT if it is located elsewhere.

The names of all musical numbers recognized should be given and unfamiliar musical items can be described, as, a "fox trot," "tenor solo," "stringed instruments," etc. Most of the musical numbers heard from South America are unfamiliar and their tempo is undecipherable, but if one pays close attention to the announcer he can usually catch the

name of the dance tune to follow. A list of the names of the various dances is given here; listen for these words when trying to catch announcements:

| | |
|----------|----------------|
| Bambuco | Marcha |
| Criolla | Paso-doble |
| Fox | Tango |
| Jota | Cancion (song) |
| Pasillo | Fandango |
| Son | Joropo |
| Bolero | Merangue |
| Danzon | Rumba |
| Habanera | Walse |

Whenever possible, the names of advertisers sponsoring programs should be given; regardless of the language spoken it is oftentimes easy to catch the trade names of various products, such as Victor, Sessions, Philco, Pepsodent, etc.

The Signal Data

That the report may be of some value to the station it is necessary that the writer mention, truthfully, how well the station is heard, describing volume by the R Code, quality of the QSA Code, and hazards such as interference, static or fading, by the S, X and N symbols.

R1 indicates the faintest signal that can be heard on headphones.

R2 is a weak headquarters signal.

R3 is audible but only partially readable.

R4 a fair signal.

R5 a good headphone or a weak speaker signal.

R6 Fair speaker volume.

R7 Strong volume.

R8 Very strong volume.

R9 Maximum volume.

The QSA Code describes quality as follows:

QSA1 Unintelligible.

QSA2 Signals which can be understood only now and then.

QSA3—Poor signals understood with difficulty.

QSA4 Good signals, easy to understand.

QSA5 Perfectly understandable.

Fading is indicated by the letter

"S". S means slight fading; SS means deep fading, and SSS is a complete fadeout. The letter "R" indicates rapid fading.

Static is indicated by X, rather bad static by XX and very heavy static by XXX.

If no fading or static is present, this fact is indicated by "N".

These symbols are usually written one after the other in this fashion: VPD, R7, QSA4/SS/X.

Always Prepay Postage

When writing to overseas stations it is customary to enclose return postage in the form of International Reply Coupons. These can be procured from any Post Office for nine cents each, and can be exchanged in any country in the Universal Postal Union for postage stamps on a first class letter to this country. Contrary to some published reports, *all countries* are members of the UPU except Laccadive and Maldive Island, the State of Alaouites, Northern Rhodesia, and Tonga. Radio stations in which we are interested do not exist in any of these localities.

Tuning the AMATEURS

● ● ● By B. L. Ahman, Jr.

MARCH should mark the beginning of extreme DX pleasure for 20-meter (14 megacycle) band listeners, and vice versa for those who listen on 40 meters. This winter the Venezuelans, Colombians and Central Americans have been very active on 7 megs. and many new calls were heard, but an overabundance of CW ruined most of the pleasure of listening to them.

On 14 megs. the opposite is true. Contrary to last season, the winter brought in numerous DX stations. One of these, LUSAB, the station of Felix Gunther, Federico Lacroze

2158, Buenos Aires, Argentina, was heard nearly every evening. Early or late, he does a lot of talking. "Don Felix," as he is known by his friends, is president of the South American Radio Association, the *Rueda del Oeste*, of which many Spanish-speaking amateurs are members.

The members of the Rueda del Oeste are required to send QSL cards to other members when their signals are reported, under penalty of expulsion. A regulation multi-colored card showing the flags of all the participating countries in their natural colors is used. The writer was recently made an SWL member of this club.

We would like again to remind shortwave listeners that amateurs are not always prompt in replying, mainly because some of them have extremely heavy mail. SU1CH in Cairo, Egypt had 7000 letters to reply to last spring. Even the ordinary close-by amateurs receive a great many reports, and since they have to answer all their mail personally we sometimes wonder how they ever find time to do it. Needless to say, return postage should always be paid when requesting a confirmation.

Following are four stations that we know anyone can hear with a little persistent tuning, on 14 megs.

HK3JA, Jorge Acevedo F., Apartado 330, Bogota, Colombia. Like PY2CK, Mr. Acevedo has an inferiority complex concerning his English, although he speaks it excellently. Tune for him at the extreme low frequency end of the band. His signal is usually a good R9 in most parts of the USA. Send him some snapshots and he will send you some excellent views of Bogota. The best time is in the evenings after 7:30, although as summer approaches he can be heard earlier.

G2MF, Mr. J. Fife Mortimer,

Hoylake Road, Moerton, Cheshire, England. This is probably the hardest of this little group to hear but is chosen because he personally salutes those who report reception to him. He notifies the reporters of the date and time to listen in for the aerial greeting. Best heard after 5:30 pm, on the low frequency end of the band.

LU5CZ, Jorge Delcasse, Cuba 1919, Buenos Aires, Argentina. Another Rueda del Oeste member, he replies promptly and sends personal greetings on each card. Uses the low frequency side of the 14 meg. band, coming in best at twilight.

CO2KY, Raul Perez Falcon, Box 945, Havana, Cuba. This is the easiest of this group to hear. Sr. Perez sends a special card to SWL listeners, but since he has a very heavy mail he requires a lot of time to reply. Comes in well on several frequencies, and is heard R9 all over the USA.

All shortwave stations are licensed as amateurs in some South and Central American countries. One should not be surprised to hear a broadcasting station calling CQ on the amateur bands as this is quite a common occurrence. Some of the hard-to-get Dominican stations have been picked up by the writer on the amateur bands. On the other hand some broadcasters call CQ on their regularly assigned frequencies, some of these being PRADO, HJU, HJ1ABP, HJ1ABE and many other Cuban, Colombian, Ecuadorian, Venezuelan and Costa Rican stations.

It would interest us to know how many of our readers would like to read thumb-nail sketches of some of the best-heard foreign amateurs and descriptions of their rigs. Incidentally, we also would like to hear from all SWL's and amateurs. Let us know what you are hearing and what kind of news you want in this column. Address Bernard

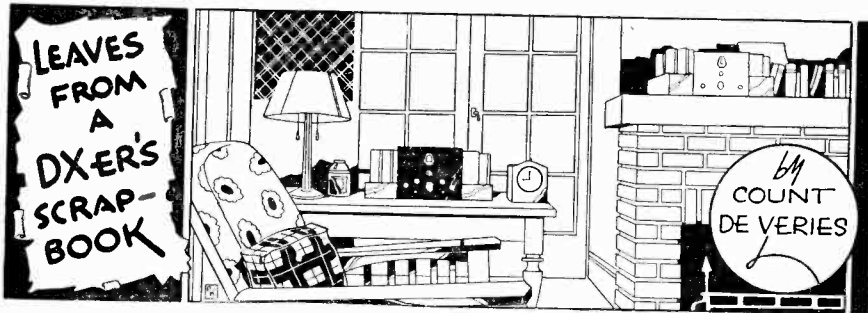


Lysbeth Hughes' deft fingers sweep over her harp as she sings during broadcasts by Horace Heidt's Brigadiers on Monday nights. This 23-year old singing harpist comes from San Francisco and made her debut as a harpist at the age of 14.

Ahman, Jr., 3313 Westerwald Ave., Baltimore, Md.

The writer wishes to express his thanks to E. R. Roberts of Indianapolis and Edward Schmeichel of Chicago for help in getting started on these columns. VY 73's and lots of DX!

No doubt in the future a television receiver will be regarded not only for its entertainment value but also for its domestic utility. A washing demonstration was an item in the London television programs recently. Soapsuds and steam filled the screen when Mrs. Daisy Pain showed how washing should be done. She explained how to locate grease spots when the garments are wet, how to wash white clothes, how to remove stains and how to scald colored materials. Finally, she showed how to wash woolens without shrinking them and, what is equally important, how to revive woolens already shrunk.



Into WMIN, St. Paul, during the Joe Louis-Joe Brescia fight last fall, a telegraph ticker brought this message: "Flash . . . urgent . . . New York . . . Joe Louis knocked out . . ." An excited bystander rushed the message to the announcer, who told listeners that "Joe Louis was knocked out."

A few minutes later the announcer received the rest of the message. ". . . Joe Brescia in 2 minutes and 12 seconds of the third round in a fight here tonight. Louis had everything his own way." The bystander was Edward Hoffman, owner of WMIN. Reading the first part of the message and eager to broadcast the news over the station which he had just opened, he clipped it from the ticker and rushed to the announcer in the hope of beating other local stations to the flash.

The story of that fight and the embarrassment of Mr. Hoffman is old stuff now. But how often can we find a counterpart in DXing today, when the dialer jumps at conclusions without making sure of his facts.

To a DXer with a potent imagination, many things are possible during an evening of dialing. A faint burst of Oriental music played by a tired engineer in California is interpreted as being an honest-to-goodness Jap. The announcer down in Texas with an odd accent may be construed as standing before an Australian or New Zealand micro-

phone. Perhaps the only limit to that type of DXing is the extent of the imagination.

Naturally, it is possible for these listeners to compile truly amazing records. Their logs show stations from all over the world. It's grand fun until the arrival of the inevitable showdown—and that is likely to prove embarrassing. The DXer may have acted in perfectly good faith and actually believed that he heard the stations reported, but that won't excuse him in the eyes of those who snicker at his discomfiture.

Moral: it's better to be careful than sorry!

Network Recordings

Some twenty million Americans went to work on the morning of January 20th. At noon of that day, President Roosevelt was inaugurated for his second term. A few thousand saw the formalities in Washington. A few million radio listeners heard the president's address. The twenty million workers went about their jobs, ate their lunches, and went back to work.

At nine o'clock that evening, the Mutual network swiped a page from the books of the British Broadcasting Corp. and presented a recording of the inaugural address. The twenty million workers laid aside their evening papers to hear the transcribed broadcast. Everything was just dandy.

One can't help but recall a previ-

ous transcription of the president's voice which failed to reach the audience for which it was intended. Columbia cut it off before it had really started and NBC refused to touch it with a ten-foot pole. That was the famous Vandenburg "debate."

The networks explained that it was against their policy to broadcast recordings of speech or music. Most everybody agreed that neither NBC or Columbia wanted to risk the displeasure of the FCC. Policies can be established with remarkable rapidity—almost as fast as renewals of licenses can be refused.

It is admitted that Mutual has no connection with NBC or CBS, that its policies are formulated by different executives. It is remembered that several Mutual stations broadcast the Vandenburg "debate" last fall.

However, one salient fact was observed on the inauguration broadcast. Before and after the recording was played, it was announced that "the transcription had been made by *special permission*." Who gave the permission? Was it Mutual executives, the Federal Communications Commission, some other government agency, or perhaps the president himself?

If permission was granted in this instance, it seems logical to assume that it was denied in the Vandenburg incident. And if such is the case, it follows that the "policy" explanation offered by NBC and CBS was without foundation and that the two networks actually were subjected to some manner of censorship, voluntary or otherwise.

Americans have always been rather proud of their freedom from censorship in the press and on the air, so this apparent confirmation of former charges of gagging leaves a bad taste. Before another election rolls around, the FCC would do well to issue a definite statement of policy so we all would know where we stand.

Factors Affecting Reception

Since the first radio listener dialed the most remote station within the range of his receiver, DXers have been interested in the factors which affect long distance reception. He wants to know why he can log an Aussie on one particular morning and fails to hear even a carrier the other six days a week.

During the past year, the Bureau of Standards has been conducting tests on stations in Europe and South America. Measurements of signals have been made under every conceivable condition. We now learn that attention is being given to trans-Pacific reception.

While DXers cannot hope to have at their disposal the equipment and facilities of the Bureau of Standards, they can make careful studies of general conditions at the time they are listening. If accurate logs and notes are kept for each night's dialing, interesting conclusions can be drawn and theories propounded.

In the February issue were noted a few general observations on the apparent effect of atmospheric pressure on long distance reception. A few cases were recalled when a study of the weather map might explain varying DX conditions. As reception tests on the Scott receiver continue, these observations are extended and it is hoped that some definite conclusions may be reached.

In this connection, readers are invited to make their own notes and send in their theories. Weather maps are generally to be found in the larger post offices as well as in many newspapers. By checking localities of high and low pressure, and noting how signals from stations in and beyond these areas behave, theories may be established. When signal behavior under given conditions can be checked a second and a third time, the theories may be confirmed.

Temperature and Reception

Temperature is another factor which appears to exert considerable influence on radio signals, but I often wonder whether we really appreciate the actual effects.

In the late spring and summer, for example, we all know that DXing is difficult, if not impossible. Static frequently blots out all but the most powerful signals and seldom permits reception over a distance. Because static is heard in warm weather, we assume that higher temperatures act against long distance reception.

If this is true, we would expect that cold weather would bring better reception. To a certain extent this is true. However, there appears to be a very definite lower limit, below which reception again falls off.

It has frequently been noted that DX improves until the temperature gets down to about 20° above zero. When the thermometer falls below that, signals appear to get weaker and fading increases. During the record-breaking cold spells of the past two winters, DX was often practically impossible. When the temperature dropped to around 20° below zero, even stations within a 500-mile radius were erratic.

Thus, it would seem that ideal DXing weather occurs somewhere between 20° and 40° above zero. Below that range, signals fall off; above it, we begin to find static on the increase. Apparently the good DXer must follow a relatively-narrow path between the two temperature barriers.

And yet we can only prove that half of this idea is true. We do know that extremely cold weather is bad for reception. We merely assume that high temperatures have an adverse effect, because the accompanying static blots out signals.

As a matter of fact, no one has ever had a chance to observe how far signals would travel in warm

weather. Naturally, you will say, because there is too much static!

Actually, the point isn't as absurd as it may first appear. Not a few engineers are of the opinion that natural as well as man-made static is carried on waves which may eventually be divorced from radio waves, at least insofar as reception is concerned. If that is ever accomplished, static would cease to be a menace to warm-weather reception. In such a case, how would the interference-free signal penetrate the warm air?

Of course we don't know the answer to that question, but it provides food for hungry brain cells!

Answers

(Questions on Page 12)

1. The owner, George R. CLOUGH
2. LaWRENce, Kansas.
2. Kansas State Agricultural College.
4. KROW, Oakland, Calif., becomes WORK, York, Pa.
5. (a) KCRK, Enid, Okla., becomes CRCK, Quebec, P. Q.
(b) KEX, Portland, Ore., becomes XEK, Mexico City.
(c) WMC, Memphis, Tenn., becomes CMW, Havana, Cuba
6. Kansas City Kansan.
7. W-attertow-N, N-ew Y-ork.
8. WIND, Gary, Ind. Chicago is called the "Windy City."
9. A contraction of Chilliwack, B. C.
10. They are the only K calls located in the east coast states. All other K calls, except KFIZ, are located west of the Mississippi River.

A new "West Coast Network" was instituted the first of the year, supplanting the Don Lee System, it was recently announced from CBS headquarters. Programs over this network will be keyed from either Los Angeles or San Francisco.

The SHORTWAVE

LISTENERS Report

• • • The Thrill Bands

TRANSOCEANIC reception paled into insignificance this month. For real radio thrills shortwave fans covered the police bands, the amateurs, airports, coast guards and other emergency services. While flood waters tore through the Ohio and Mississippi valleys radio operators stood by their posts, working day and night, doing everything they could to help relieve the suffering of thousands of stricken persons. Normal operating procedure was set aside and anything was done to get the messages through. Amateurs contacted police stations; police, airports and others contacted broadcasting stations; amateurs set up networks of their own to get messages into isolated areas. One network consisted of a 5-meter station in Pittsburgh, a station on 160 meters and a third on 75. Stations of the Eastern Airlines situated in Washington, Chicago, Jacksonville, Indianapolis, and Atlanta handled flood traffic. Over 150 field transmitters and receivers were brought into the area and used by government services.

When these lines are read the flood will be over, cities will already be rebuilding and people will be returning to normal lives. The story of the greatest flood this country has ever known will be written into history, but impressed on the memory of radio listeners will be the greatest story of all—one that will not go into history books—the story of faithful devotion to service as exemplified by the radio amateurs.

Verify Daventry

Through the efforts of two good fans, RADEX shortwavers will have

an opportunity to verify reception of the Daventry transmissions. It is well known that the stations of the British Broadcasting Corp. do not verify reception of their transmissions, although they do send attractive little "thank you" cards to show their appreciation for reports. We will not enter into a discussion of this matter again, except to say that we feel they are justified in the position they take. Nevertheless, shortwave fans desire good verifications from all the stations they hear, and now is their opportunity to verify Daventry.

Bernard Ahman and Carroll Weyrich of Baltimore, Md., are the two public-spirited citizens of Radextown. To obtain verifications listeners should tune for the Daventry broadcasts on the three Saturday evenings of March 6, 13 and 20, on Transmission No. 5, which is radiated between 1800 and 2000 EST. Reports should consist of the names of at least two musical selections and one verbatim announcement; the call letters of the station heard should be given, and the reports sent, with five cents, to Carroll Weyrich, 4310 Evans Chapel Road, Baltimore. These reports should be in the mail within 24 hours after the close of the broadcast. The remittance may be sent in coin or in stamps of small denomination. If verifications are desired from more than one station, separate reports should be forwarded for each station reported. The verification cards, attractively printed in large letters, will be sent out as soon as possible after the last monitoring date, March 20.



Billy Jones and Ernie Hare, song and comedy entertainers now in their 15th year of broadcasting, who are heard on Sunday nights on the Original Gillette Community Sing with Wendell Hall and Milton Berle. This pair was the first ever to receive compensation for broadcasting on the radio.

The "Awatea" Verified

"Probably the most important verification I have received so far is the one from ZMBJ," avers J. H. Hyde, Elmwood, Conn. "The card gives the following information: The ship is the T. S. S. 'Awatea,' owned by the Union S. S. Co. The call letters, ZMBJ, and the slogan, 'The Ears and Voice of the Tasman.' The transmitter is crystal controlled on a frequency of 13.2 megs., and employs 300-400 watts power. I heard this ship shortly after 2 am, EST on 13.2 megs. The ship's radio operator was trying to contact Sydney, Australia or Wellington, N. Z. and at the time they were somewhere out in the Atlantic Ocean."

Time Signals

The time signal broadcast schedule from NAA and NSS at Arlington, Va., was revised the first of the year. The new schedule calls for

transmissions every hour, commencing at five minutes before the hour and continuing until the even hour, except at 0855, 1055, 2055 and 2255 EST. The complete schedules and frequencies are given in our s.w. indices. The broadcast band transmissions on 690 kcs. were discontinued last June 1st.

Amateurs

This month Bernard Ahman returns with his amateur column which proved so popular in the November issue. A large number of our readers have been requesting amateur news for some time and we feel that the column prepared by Mr. Ahman just about fills the bill. We are anxious to have comments from our readers on this new service.

A new amateur service presented this month for the first time is a column on 28 megacycle (10 meter) reception. This column, prepared with the help of several enthusiastic listeners and amateurs, at the suggestion of Fred Satterthwaite of 544 Colonial Court, Toledo, Ohio, appears in another section of RADEX. For real DX, 10 meters is highly recommended.

The response to our initial appearance of the "Listeners Wanted" column has not been very gratifying. This stunt is being given a trial in this magazine, and frankly, we think it is a pretty good idea. Amateurs are invited to make use of the space we are devoting to them.

Fred Satterthwaite had an unusual experience on the 14 meg. band. He heard a Toledo station and the signal, he says, traveled 2000 miles air-line to reach his set. The station was W7AO in Toledo, Ore.

Argentina

LSX, 10350 kcs., Transradio Argentina, Buenos Aires, has a new sustaining program originating in their own studios, according to information received from Manuel Barbera of Buenos Aires. The pro-

gram deals with the importance and development of Argentine produce, particularly cattle and agricultural. The broadcast is called "La Voz de la Argentina," and announcements are made in Spanish, English, French and German. These programs can be heard on Mondays and Fridays from 1700 to 1745 EST with Bill Clark, well-known engineer, at the microphone.

LRX on 9660 kcs. is now on daily from 1800 to 2230.

Austria

The Austrian experimental station OER2 is now on 11,800 megs. on weekdays and well received by E. L. Peters of Westport, N. S., Canada.

British Guiana

VP3MR in Georgetown, British Guiana, claims to be on 6010 kcs but actually has been moving all over between 5975 and 6017. It operates most consistently near 5980 kcs.

Chile

The Santiago station CB615, known as "Radio Service" has been operating experimentally on 12295 kcs., we are told by Manuel Barbera of Buenos Aires. While working on 12 megs they have ceased their 6150 kcs. transmissions. As their transmissions are much better now it is presumed they will adopt the new frequency permanently. They work from 1100 to 1300 and 1600 to 2000 EST.

The schedule of CB960 in Santiago is 1130 to 2130, EST.

CEC at Santiago on 10670 and CED at Antofagasta on 10230 kcs. work with each other nearly every night after 2100 EST.

Colombia

Station HJ1ABP, "Radio Cartagena," 9600 kcs. with 1000 watts power, presents programs for American DXers every Saturday night. The programs, dedicated to the Newark News Radio Club and presented by Sr. Eldon J. Lagonterie, start at 2200. Reports are requested and

should be addressed to P. O. Box 37. HJ1ABP has been reported on various frequencies; 9600, 9616, 9618 and 9620 are some of the reported frequencies. We show them on 9618 in our index. This station has been reported at 0700 in the mornings quite frequently.

HJ1ABE, Cartagena, is heard every night lately around 2000 MST with an R9 signal by Sgt. A. W. Brummond, Box 84, Fort Douglas, Utah. Sgt. Brummond **says** they hold quite closely to the assigned frequency.

R. B. Oxrieder reports that HJ4ABC, "Ecos de Combeima," Ibague, is back on the air on 6090 kcs., interfering with CRCX, being just a shade higher in frequency than the Canadian station.

HJ4ABH has been reported on 9550 kcs. instead of 9520. This station, situated in Armenia, Colombia, signs off with the "Indian Love Call."

HJ4ABD, Medellin, Colombia, 5760 kcs. They have the 5760 kcs. frequency assigned to them but they haven't been using it for some time. They went up to 6135, stayed there about a week or ten days, then moved to 5930. After a while they moved again, to 6138 kcs. and surprisingly have stayed very close to that frequency since.

Costa Rica

A new Costa Rican station is TIMS, 5905 kcs., at Puntarenas. There is still some question on the identification of this one, as the signals are quite weak. It signs in Spanish and English at 11 pm. EST and I think the call is TIMS, although the last two letters may be wrong.

Czechoslovakia

The Prague station has been reported on as many as six different frequencies, but the most dependable seems to be 11840 kcs. The identification signal consists of a trumpet playing a few bars from Dvorak's "New World Symphony." The pro-

grams can be heard until about 1630 EST.

Dominican Republic

HI1J, San Pedro de Macoris, D. R., is now on 5855 kcs.

HI9B, Santiago de los Caballeros, D. R., moved to 5884 from 6045 and is now quite easy to get.

Ecuador

HC1PM in Quito, Ecuador, is supposed to be on 5725 but is actually on 5735, phoning irregularly and broadcasting on Tuesday nights.

Fiji

Geo. K. Glass of 9284 Boleyn St., Detroit, Mich., says that VPD2 at Suva has been discontinued and a new frequency, VPD3, is now being used. VPD3 works on 8720 kcs. from 0530 to 0700 EST. VPD on 13075 is no longer heard. Anthony Tarr of Seattle, Wash., also reports the new frequency.

Great Britain

The British Broadcasting Corp. has undertaken the publication of a bulletin called "BBC Empire Broadcasting." This is a 12-page weekly journal with full details of coming Empire programs, together with illustrations and notes about the more important items. This publication can be obtained direct from the corporation at 10 shillings per year (about \$2.50).

The Daventry station GSP is to be discontinued on 15310 kcs. and in its place will be used GSB on transmission 5. The reason for the change is that overseas transmissions on 15 megs. have been very poor in England and it is generally found that transmitting conditions are nearly reciprocal, according to information received from Raphael Geller, 1652 Radcliff Ave., Bronx, N. Y.

Guatemala

TGWA is operating on and verifies as 9450 kcs.

Hong Kong

"We have received a verification from ZBW in Hong Kong which

gives their power as 2½ kw, and their schedule as, weekdays from 2330 to 0130 and 0400 to 1000, and Sundays from 0000-0130 and 0300-0930," contribute Carl and Anne Eder, Willmar, Minn.

Japan

"The new 50 kw Japanese stations are now in operation" submits Raphael Geller. "JZI and JZK are now operating on regular schedules on Mondays and Thursdays from 1600 to 1700 EST, and Tuesdays and Fridays from 1400 to 1500. Sometimes JZJ is also used. JZI works on 9535 kcs; JZJ on 11800 and JZK on 15160. Announcements are made in English, although of course the major portion of the program is in Japanese. Reports should be addressed to the Broadcasting Corp. of Japan, Atagoyama, Shiba, Tokyo." "Station JZG is heard near 6350 kcs from 0330 to 0440 working in parallel with JVT," postcards A. C. Tarr. "At 0400 they sign their call in Morse and switch to inverted speech. JZJ on 11800 broadcasts a daily program to Western USA from midnight to 0100 EST."

Labrador

"I logged VOWQ, Northwest River, Labrador, shortly after 1900 on a frequency estimated to be 8650 kcs. or thereabouts," submits J. Herbert Hyde, Elmwood, Conn. "This station was working duplex with CZ9U."

Martinique

"Radio Fort de France (if it has call letters I have yet to hear them), in Martinique, French West Indies, is heard on 9445 kcs," contributes R. B. Oxrieder. "Announcements are made in French and English."

Mexico

"The information I sent on the Mexican stations last month is already pretty much out of date," explains Anthony Tarr, 909 W. Lee St., Seattle, Wash. "XEBR in Hermosillo, Son. on 11820 relays XEBH,

daytimes only. The address is Aparatado 68.

"XEDQ in Guadalajara moved to 9480 and is reported working between 2300 and 0100 EST. XEFT, Veracruz, heard at midnight on 9460. XEPW on 6120 in Mexico City signs off at midnight. This station announces as 'La Voz del Aguila Azteca desde Mexico.' XETU in Guadalajara on 6115 megs. works from 2100 to 2400 EST. XEWI in Mexico City on 11900 kcs also operates sometimes on 6015."

Netherland East Indies

The schedule of the NIROM stations on the island of Java is sent to us by Geo. K. Glass. They broadcast daily from 0530 to 1030 or 1100; 1800-1930 and 2230 to 0200. Saturdays 1030-1130 and 2230-2400. Sundays 0000-0200 and 0530-1030. The stations used are YDA, YDB, PMN, PLP, YDC and PMH, all given in our index.

Nicaragua

YNOP, Managua, Nicaragua, a comparatively new station which varies in frequency somewhat, but announces as 5758 kcs. It is known as "Radio Bayer."

Panama

Carl and Anne Eder report hearing HP5K on 6000 kcs, Colon, Panama, in the mornings at 0700, with a very good signal and announcing in very good English.

"I am hearing a Spanish-speaking station on 11.750 megs. which appears to be in David City, Panama," reports Alfred H. Bacon, 928—13th St., New Westminster, B. C. "Several test programs were heard but they were marred by very bad fading. A new station, YV1RH, in Valencia, Venezuela, is heard nightly at 10:30 pm. PST testing on about 5.810 megs. Announcements are often made in English."

Peru

The strange station on 6164 kcs. has finally been identified as OAX1A, at Ica, Peru. It signs off at 2300

with the Good Night Waltz, according to Capt. R. B. Oxrieder.

Another Ica station is added to our list by Manuel Barbera of Buenos Aires. The new transmitter is OAX5B, "Radio Universal," on 11796 kcs. According to announcements made by the speaker, they broadcast from 1200 to 1600 and 2000 to 2200, EST. The address is Estafeta de Correos.

Another new Peruvian is OAX4A, 9350 kcs, heard on weekdays from 1830 to 2330 and on Sundays from 1930 to 2430 by Ray. W. Sahlbach, 3200a Miami St., St. Louis, Mo. A 3-note chime is heard before the station announcements, and the address is Box 116.

A further report from Mr. Oxrieder, since the above paragraphs were written, tentatively alters some of the information on Peruvian stations. "The stranger on 6164, mentioned in a former letter as OAX1A, moved to 6175 for a couple days, and



Laughing at the world through an NBC microphone is the merry team of Victor Moore and Helen Broderick, two of America's foremost stage comedians, brought together for the first time on the air by the new Twin Stars program on Fridays at 9:30 pm.

then returned to 6164. At first I thought they announced as Ica, but that didn't seem right because Ica is supposed to be in the 5th district. The announcements sounded like Radio Philca so I looked over a map very carefully and the only town that looks right is Quilca, but unless they have their districts arranged in a very peculiar manner, Quilca should not be in the 1st district either. This station signs off in English about 2300 every night, gives his address as Box No. 9, and claims his frequency is 6133 kcs.

"OAX5B is in Ica, on 11804 kcs., but the frequency varies."

Poland

That elusive Polish station SPW works on 13635 kcs. on Mondays, Wednesdays and Fridays from 1230 to 1330. This information also is from R. B. Oxrieder, 122 E. Hamilton Ave., State College, Pa.

Sweden

"For the past few days I have heard a station in Stockholm, Sweden, operating on 11705 kcs. The call letters are SM5SX," writes Robert Bjur. "The best reception is obtained on Wednesday from 1700 to 1800 EST." The complete schedule of this station is Saturday 0700-1700; Sunday 0900-1700; other days 0200-0245; 0630-0700; 1100 to 1700.

U. S. S. R.

At this time the only new s.w. station I am picking up is RAN at Moscow, USSR, on 31.51 meters. This station broadcasts every Sunday from 5 to 6:30 pm. MST with Russian music and speech in English." Ernest Law, 10439-69th St., Edmonton, Alta., is the one reporting.

United States

"On page 22 of the January R-DEX you state that W9XAA will be off the air during rebuilding. This is not accurate," corrects Mr. Maynard Marquardt, Technical Supervisor of WCFL-W9XAA, Chicago Federation of Labor, 666 Lake Shore Drive. "W9XAA is using its present trans-

mitter and constructing an entirely new one separate from the present one. We have amended our application to the FCC and are now asking for permission to use 20,000 watts in the new W9XAA."

Another letter from Mr. Marquardt tells us that W9XAA signs off in a variety of languages, including English, German, French, Norwegian, Polish, Russian and occasionally Spanish. "Our night time schedule," he writes, "is from 1700 until midnight, CST, on 6080 kcs., and we use a directional antenna aimed at Central Europe. We also have under construction, and will complete within ten days, a new directional aerial on which we will transmit from 0630 until noon CST on 11830 kcs., aiming at the west coast of the United States, Australia and New Zealand."

Two South American stations now rebroadcast the Saturday matinee performances of the Metropolitan Opera Co. in New York, heard in this country over the NBC Networks, under the sponsorship of the Radio Corp. of America.

The two stations are Radio Splendide at Buenos Aires and Radiobras at Rio de Janeiro. The programs are transmitted from New York over W3XAL at Bound Brook, N. J. The new directional-beam antenna for South American broadcasts is used for these transmissions. Transmission problems, which limited NBC's broadcasts to Latin America in the past, are overcome in a large measure by use of this new antenna. Because of its directive quality the aerial will have the equivalent of a six-fold increase in power. This is true on both of W3XAL's frequencies, 17780 and 6100 kcs.

A directive antenna for European broadcasts is now under construction at Bound Brook and is expected to be in operation by March 1.

We wrote: "Will you please advise us what languages are used by

W9XF when the station is signing off?"

W9XF answered: "If verification is desired please send complete details of program heard."

We think 9XF uses French, German, English and Spanish, but not being language experts we would like to confirm this information.

Some new police broadcasters are reported by Charles Gamwell, Jr., 11 Taconic St., Pittsfield, Mass. They are WEVN, Bel Air, Md., 1678 kcs., WPHK, near Wilmington, Ohio, 1682 kcs., and WAKX, York, Pa., on 2442 kcs.

Venezuela

Rex Davis of Cumarebo, Venezuela; Bernard Ahman of Baltimore



The Morin Sisters, heard on the Fitch Jingle Program, are, reading down, Marge and Evelyn, sopranos, and Pauline, contralto. Marge makes the arrangements they sing, Evelyn is the business head and Pauline, the oldest, is the boss of the group.

and the NNRC Venezuelan Director Jesus Ma. Lander Garcia, Caracas, as well as R. B. Oxrieder of State College, Pa., send information on a complete revision of the call signs of Venezuelan stations. This country is now divided into districts, evidently

from 1 to 9, so all the stations in the same district will bear the same numeral. The complete list of changes appears in "The Months Changes in Station Data" on Page 48.

YV1RH, 6360 kcs., Maracaibo, reads letters and reports of reception on Thursdays at 2210 to 2245, EST.

Correspondence Wanted

Kenneth W. Crawford, 5006 Lynedale Ave., S., Minneapolis, Minn., uses a Majestic 5-tube receiver with a Stewart-Warner s.w. converter, and would like to hear from users of similar equipment.

"Will you please put my name in your list for exchanging SWL cards," requests Francis de Chambeau, 2830 Fifth Ave., Hibbing, Minn. "I have been DXing for 10 months and am interested in 20 meter amateurs as well as s.w. broadcasts."

Manfred C. Johnson, 2318 Third Ave., Hibbing, Minn., also requests exchange of SWL cards. "I am especially interested in hearing from Grunow owners," he states. "I use two inverted L antennas, one 40 feet high and 80 feet long and the other 30 feet high and 100 feet long. I have a total of 50 countries on 20 meter 'phone and have heard all continents several times."

"I would like to ask readers to answer a question for me," invites Herbert Hop, 63 E. 21st St., Holland, Mich. "I have been hearing a station on about 9.490 or 9.5 megs. It comes in very well but I cannot get the call letters or the location. When they announce they make all sorts of sounds, such as a baby crying, a siren blowing, or a person laughing. Many popular recordings are played."

An itinerant aircraft license has been granted Wallace Beery to work on the 3105 kcs. frequency with 10 watts power. The station, for which call letters have not yet been assigned, will be installed in his plane NC-50Y.

Ten For DX

THE 10-meter or 28 megacycle amateur 'phone band is not accessible on most all-wave receivers, but those who have tuned on 28 megs. are enthusiastic about its DX possibilities.

Elmer Rahmes of W8JFC in Sharonville, Ohio, advises us, through W8BKM, of the best time to listen for signals from certain parts of the world. Egypt is heard near 1000, EST. European stations are best between 0330 and 1300. Africans are good all morning. Australia is heard in the evenings from 1800 to 2000 and Japanese amateurs come through between 1800 and 1900. South America is not very active on 10 but a few stations are heard near 1800 EST.

J. F. Satterthwaite, 544 Colonial Court, Toledo, Ohio, submits some sizzling dope on ultra-high frequencies. All this information is his:

ZU6P, W. F. Myer, 58 Sixth Ave., Bezuidenhout Valley, Johannesburg, Union of S. Africa, is on 28189 shortly after noon. This station has had so many reports he is now 500 cards behind.

SU1SG, F. H. Pettitt, Catholic Club, Mustapha Barracks, Alexandria, Egypt, usually on CW but occasionally on 'phone.

OEIFH, Fritz Haas, Frankenberg-gasse 12, Wien IV, Austria, just before noon.

A lady operator at G6DH, owned by D. W. Heightman, 59 Burrs Road, Clacton on Sea, Essex, England, on 28100.

G6VX, T. St. G. Leigh Clark, 42 Lynmouth Rd., Stamford Hill, N16, London, on 28120, verified.

G6GO is on 28840.

PAOVX, Netherlands, on 28190 at noon.

EI2L, Irish Free State on 28124 megs.

OA4AK, Peru, will verify on 10 meters but not on 20 meters.

LU8AB, Felix Gunther, F. Lacroze 2158, Buenos Aires, Argentina, on 28140.

LU9AX, Ernesto Guerrini, Figueroa 578, Buenos Aires, on 28125 between 1600 and 1800 EST.

K6MVB, Hawaii, is the loudest signal on 28 megs. here. It is verified.

K7PQ, R. J. Fox, Box 301, Ketchikan, Alaska, 350 watts, on 28500 at 1800 EST.

Other good stations are K7FDE, FBSVX, ZL1CD on 28520. ZS1C is reported on 28100 but I have not heard it.

Direction Finders

One topic which is in the mind of nearly every American today is the subject of safety in air transportation. Recent disasters seem to indicate the necessity for additional safeguards for those who fly.

Ray W. Brown, official of the contest board of the National Aeronautical Association and sales manager of the General Tire & Rubber Co., has been working for nearly two years to bring about the adoption of the radio direction finder by all air line companies. He feels that the present system of radio beams is out of date and should be discarded in favor of the direction finder.

When bad flying conditions prevail it is sometimes impossible for a pilot to ride on a beam and there have been times when a pilot was on the wrong beam, but the direction finder enables one to set his course by any radio station.

Mr. Brown, flying under adverse conditions in the vicinity of Terre Haute, Ind., was able to determine his exact position in respect to Terre Haute by tuning in stations in that city, in Goshen, Ind., and in Cleveland. Then, tuning in WWO at Cleveland as a homing point, he was able to drop to 2500 feet and start to break through the overcast. Near Bucyrus, Ohio, however, the storm started to move in rapidly so

he changed his homing point to broadcast station WADC in Akron and rode home safely.

Station Hunters

(Continued from Page 19)

what can be accomplished by a little planning. If CPCers would spend half of their activity time on arranging details of programs already scheduled, listeners would have a program worthy of attention and the station response would be boosted considerably.

J. Edward Diehm, Jr., 424 Walnut St., Pottstown, Pa. says, "I have been DXing for about seven years and have 539 veries on the BCB to show for the effort. I'm serving on the CPC of the URDXC and am having a fine time. Would be pleased to hear from DXers just starting in the game, as I feel sure I can be of some aid to them."

Foreign Tests

"Recently I visited the Bureau of Standards in Washington, informs J. L. Lippincott, Box 2, Tufts College, Mass., "and had a long talk with Mr. Kirby, who is making some of the measurements of foreign stations during the current tests. He showed me charts of reception from some of the T.A.s and LR1. He would like to receive word from DXers as to how the T.A.'s and T.P.'s come in. He is anxious to know whether or not Europeans come in better when broadcast in the same latitude as the listener. Their tests have shown that the Europeans are much weaker than the South Americans, and they are looking for some explanation of this. Also, DXers who can receive both T.A. and T.P. stations (especially Japs in the same latitude as some of the T.A.'s) might be able to gather interesting data."

"Being an old timer in the DX

hobby," admits Lemuel Cavileer, 1223 Keswick Ave., Haddon Heights, N. J., "you boys tempt me with your contest and I want to sample some of the fun you are sure to offer. When I say 'old timer,' I refer to the radio age—not my own. My boy friend had a radio—or wireless, as it was then called—when we entered World War and he had to dismantle it. I can remember Station WOO in Philadelphia when they came near wearing out the store organ. And how about the week all the stations in the U.S.A. had to sign off from 10 to 11:30 PM just to see how far we could hear on this thing called radio. I got a framed certificate for receiving 2LO, HRB and OAX on one tube. And how about the thrills when the Ekko stamps arrived from 6KW, CNRR and KGBU? But enough of this and on with the Mystery DX Contest!"

Believing that some time they may have two networks, like the NBC Red and Blue, the CBS has, for a long time, tried to obtain a second outlet in New York City. A rather complicated procedure would be necessary; it was planned that the Paulist Fathers, operators of WLWL, would buy WOV for \$300,000, and then junk WOV, transferring its facilities to WPG in Atlantic City. Thus WPG would acquire full time with 1000 watts on 1130 kcs. WLWL would then assume full time on 1100 kcs. in New York, after which the Paulists would sell WLWL to the CBS.

The situation just became a bit more complicated, however. Arde Bulova, the watch maker, bought WOV from John Iraci for \$300,000. This was the key to the whole CBS shift and it is problematical now what the final outcome will be. Mr. Bulova has purchased several radio stations this year and it is believed he plans to start a new network.

The Frequency Checks

THE engineers of the Federal Communications Commission have arranged a schedule of programs for the purpose of checking the frequency of a great number of low-powered stations. Interfering stations are silenced for these tests which continue for twenty minutes with frequent announcements of call and location.

These special programs take place during the second week of each month. The March tests will commence on Monday the 8th and continue through Saturday the 13th. April tests will commence on Thursday the 8th and continue through Wednesday the 14th, exclusive of Sunday; and the May tests will start on Saturday the 8th and carry through Friday the 14th, exclusive of Sunday.

The following schedule has just been received from the FCC and readers should preserve it for future reference.

| The Second Monday | | | |
|-------------------|------|------|---------------------|
| 2:00-2:20 | WLNH | 1310 | Laconia, N. H. |
| | WJBO | 1420 | Baton Rouge, La. |
| 2:10-2:30 | WBRB | 1210 | Red Bank, N. J. |
| | WHPB | 1500 | Selma, Ala. |
| 2:20-2:40 | WMAS | 1420 | Springfield, Mass. |
| | WIOD | 1300 | Miami, Fla. |
| 2:30-2:50 | WWRL | 1500 | Woodside, N. Y. |
| | WJBW | 1200 | New Orleans, La. |
| 2:40-3:00 | WOKO | 1430 | Albany, N. Y. |
| | WMBR | 1370 | Jacksonville, Fla. |
| 2:50-3:10 | WCAX | 1200 | Burlington, Vt. |
| | WOPJ | 1500 | Bristol, Tenn. |
| 3:00-3:20 | KTRH | 1290 | Houston, Texas |
| | WMBO | 1310 | Auburn, N. Y. |
| | WMSO | 1420 | Sheffield, Ala. |
| 3:10-3:30 | WOC | 1370 | Davenport, Ia. |
| | WCAD | 1220 | Canton, N. Y. |
| | WMPN | 1210 | Clarksdale, Miss. |
| 3:20-3:40 | KWLC | 1270 | Decorah, Ia. |
| | WMBQ | 1500 | Brooklyn, N. Y. |
| | WNBR | 1430 | Memphis, Tenn. |
| 3:30-3:50 | KFPW | 1210 | Fort Smith, Ark. |
| | WMPF | 1310 | Plattsburg, N. Y. |
| | WDHO | 580 | Orlando, Fla. |
| 3:40-4:00 | KABC | 1420 | San Antonio, Texas |
| | WQDM | 1390 | St. Albans, Vt. |
| | WSMB | 1320 | New Orleans, La. |
| 3:50-4:10 | KADA | 1200 | Ada, Okla. |
| | WFAS | 1210 | White Plains, N. Y. |
| | WHEF | 1500 | Kosciusko, Miss. |
| 4:00-4:20 | KFDM | 560 | Beaumont, Texas |
| | WCAP | 1280 | Asbury Park, N. J. |
| | KIS | 1280 | Oakland, Calif. |
| | WAGF | 1370 | Dothan, Ala. |
| 4:10-4:30 | KCRJ | 1310 | Jerome, Ariz. |
| | KMLB | 1200 | Monroe, La. |

| | | | |
|-----------|------|------|--------------------|
| 4:20-4:40 | KLUF | 1370 | Galveston, Texas |
| | WDEV | 550 | Waterbury, Vt. |
| | KGDM | 1100 | Stockton, Calif. |
| | WDNC | 1500 | Durham, N. C. |
| 4:30-4:50 | KROC | 1310 | Rochester, Minn. |
| | KGAR | 1370 | Tucson, Ariz. |
| | KALB | 1420 | Alexandria, La. |
| 4:40-5:00 | KOVC | 1500 | Valley City, N. D. |
| | WBNO | 1200 | New Orleans, La. |
| 4:50-5:10 | KRE | 1370 | Berkeley, Calif. |
| | WLAK | 1310 | Lakeland, Fla. |
| 5:00-5:20 | KIEM | 1450 | Eureka, Calif. |
| | WGCM | 1210 | Gulfport, Miss. |
| 5:10-5:30 | KDON | 1210 | Del Monte, Calif. |
| | WMLN | 1370 | St. Paul, Minn. |
| | WTAL | 1310 | Tallahassee, Fla. |
| 5:20-5:40 | KUMA | 1420 | Yuma, Ariz. |
| 5:30-5:50 | KWG | 1200 | Stockton, Calif. |
| 5:40-6:00 | KGMB | 1320 | Honolulu, T. H. |

| The Second Tuesday | | | |
|--------------------|------|------|-----------------------|
| 2:00-2:20 | WBAX | 1210 | Wilkes Barre, Pa. |
| 2:10-2:30 | WDAS | 1370 | Philadelphia, Pa. |
| 2:20-2:40 | WBRL | 1210 | Richmond, Va. |
| 2:30-2:50 | WFBG | 1310 | Altoona, Pa. |
| 2:40-3:00 | WMBG | 1210 | Richmond, Va. |
| 2:50-3:10 | WEBR | 1310 | Buffalo, N. Y. |
| 3:00-3:20 | KDAL | 1500 | Duluth, Minn. |
| | KFIZ | 1420 | Pond du Lac, Wisc. |
| | WLVA | 1200 | Lynchburg, Va. |
| 3:10-3:30 | KPAC | 1260 | Port Arthur, Texas |
| | WOMT | 1210 | Manitowoc, Wisc. |
| | WBTM | 1370 | Danville, Va. |
| 3:20-3:40 | KCKN | 1310 | Kansas City, Kans. |
| | WKRC | 550 | Cincinnati, Ohio |
| | WHEC | 1430 | Rochester, N. Y. |
| 3:30-3:50 | WNAD | 1010 | Noemah, Okla. |
| | WMBC | 1420 | Detroit, Mich. |
| | WRAC | 1370 | Williamsport, Pa. |
| 3:40-4:00 | KFVS | 1210 | Cape Girardeau, Mo. |
| | WTAD | 900 | Quincy, Ill. |
| | WJAC | 1310 | Johnstown, Pa. |
| 3:50-4:10 | WTAW | 1120 | College Station, Tex. |
| | WBNS | 1430 | Columbus, Ohio |
| 4:00-4:20 | WBNY | 1370 | Buffalo, N. Y. |
| | WCOL | 1210 | Columbus, Ohio |
| | KOOS | 1200 | Marshfield, Ore. |
| | WBRE | 1310 | Wilkes Barre, Pa. |
| 4:10-4:30 | KLPM | 1240 | Minot, N. Dak. |
| | WPAV | 1370 | Portsmouth, Ohio |
| | KPQ | 1500 | Wenatchee, Wash. |
| | WPAR | 1420 | Parkersburg, W. Va. |
| 4:20-4:40 | KRMD | 1310 | Shreveport, La. |
| | KFIO | 1120 | Spokane, Wash. |
| | WCLO | 1200 | Janesville, Wisc. |
| | WSYR | 570 | Syracuse, N. Y. |
| 4:30-4:50 | KGCA | 1270 | Decorah, Iowa |
| | KORE | 1420 | Eugene, Ore. |
| | WJAY | 610 | Cleveland, Ohio |
| | WNBF | 1500 | Binghamton, N. Y. |
| 4:40-5:00 | KTEM | 1370 | Temple, Texas |
| | KGBU | 900 | Ketchikan, Alaska |
| | WGH | 1310 | Newport News, Va. |
| | WHBC | 1290 | Canton, Ohio |
| 4:50-5:10 | KGVO | 1260 | Missoula, Mont. |
| | KRLH | 1420 | Midland, Texas |
| | WHK | 1390 | Cleveland, Ohio |
| | WWSW | 1500 | Pittsburgh, Pa. |
| 5:00-5:20 | KGCC | 1450 | Wolf Point, Mont. |
| | WSAY | 1210 | Rochester, N. Y. |
| | WSPD | 1240 | Toledo, Ohio |
| 5:10-5:30 | KAST | 1370 | Astoria, Ore. |
| | KNET | 1420 | Palestine, Texas |
| | WAVE | 940 | Louisville, Ky. |
| 5:20-5:40 | KCMO | 1370 | Kansas City, Mo. |
| | KFJH | 1210 | Klamath Falls, Ore. |
| | WXYZ | 1240 | Detroit, Mich. |
| 5:30-5:50 | KIDW | 1420 | Lamar, Colo. |
| | WGAR | 1450 | Cleveland, Ohio |

| | | | | | | | |
|-----------------------------|------|-------------------|-----------------------|----------------------------|------|------|----------------------|
| 5:40-6:30 | KQV | 1380 | Pittsburg, Pa. | 4:20-4:40 | KGKB | 1500 | Tyler, Texas |
| | WCAT | 1200 | Rapid City, S. Dak. | | KGU | 750 | Honolulu, T. H. |
| The Second Wednesday | | | | | | | |
| 2:00-2:20 | WMFI | 1420 | Daytona Beach, Fla. | 4:30-4:50 | WBOW | 1310 | Terre Haute, Ind. |
| 2:10-2:30 | WAIM | 1200 ⁷ | Anderson, S. C. | | KGKL | 1370 | San Angelo, Tex. |
| 2:20-2:40 | KVOL | 1310 | Lafayette, La. | | KSUN | 1200 | Lowell, Ariz. |
| 2:30-2:50 | WHBQ | 1370 | Memphis, Tenn. | | WCBS | 1420 | Springfield, Ill. |
| 2:40-3:00 | WKAQ | 1240 | San Juan, P. R. | 4:40-5:00 | KHSL | 950 | Chico, Calif. |
| 2:50-3:10 | WSJS | 1310 | Winston-Salem, N. C. | | KRRV | 1310 | Sherman, Texas |
| 3:00-3:20 | KFAB | 1420 | Aberdeen, S. Dak. | 4:50-5:10 | WTMV | 1500 | East St. Louis, Ill. |
| | WFAM | 1200 | South Bend, Ind. | | KFRN | 1370 | Bakersfield, Calif. |
| | WFDF | 1370 | Wilmington, N. C. | 5:00-5:20 | WHBF | 1210 | Rock Island, Ill. |
| 3:10-3:30 | KLCN | 1290 | Blytheville, Ark. | | KHCB | 1400 | Hilo, T. H. |
| | WPAX | 1210 | Thomasville, Ga. | 5:10-5:30 | WTRC | 1310 | Elkhart, Ind. |
| 3:20-3:40 | KFPL | 1310 | Dublin, Texas | | KTRR | 740 | Modesto, Calif. |
| | WBXN | 570 | Youngstown, Ohio | 5:20-5:40 | WVAE | 1200 | Hammond, Ind. |
| | WRDW | 1500 | Augusta, Ga. | 5:30-5:50 | WIBM | 1370 | Jackson, Mich. |
| | KGBX | 1230 | Springfield, Mo. | | WALR | 1210 | Zanesville, Ohio |
| 3:30-3:50 | WELL | 1420 | Battle Creek, Mich. | The Second Friday | | | |
| | WQBC | 1360 | Vicksburg, Miss. | 2:00-2:20 | WGNY | 1210 | Newburgh, N. Y. |
| 3:40-4:00 | KFNJ | 1200 | Grand Junction, Colo. | 2:10-2:30 | WCNW | 1500 | Brooklyn, N. Y. |
| | KPLC | 1500 | Lake Charles, La. | 2:20-2:40 | WGBB | 1210 | Freeport, N. Y. |
| | WADC | 1320 | Akron, Ohio | 2:30-2:50 | WABY | 1370 | Albany, N. Y. |
| 3:50-4:10 | KARK | 890 | Little Rock, Ark. | 2:40-3:00 | WNRI | 1200 | Newport, R. I. |
| | WGPC | 1420 | Albany, Ga. | 2:50-3:10 | WSYB | 1500 | Rutland, Vt. |
| | WOSU | 570 | Columbus, Ohio | 3:00-3:20 | KICA | 1370 | Clovis, N. Mex. |
| 4:00-4:20 | KFJZ | 1370 | Fort Worth, Texas | | WEBQ | 1210 | Harrisburg, Ill. |
| | WHBU | 1210 | Anderson, Ind. | | WABI | 1200 | Bangor, Me. |
| | WJNO | 1200 | West Palm Beach, Fla. | 3:10-3:30 | WACO | 1420 | Waco, Texas |
| 4:10-4:30 | WBEO | 1310 | Marquette, Mich. | | WLBC | 1310 | Muncie, Ind. |
| | WCOG | 880 | Meridian, Miss. | 3:20-3:40 | WEGW | 760 | St. Louis, Mo. |
| | WLB | 1250 | Minneapolis, Minn. | | WIBX | 1200 | Utica, N. Y. |
| 4:20-4:40 | KSO | 1430 | Des Moines, Iowa | 3:30-3:50 | WKBB | 1500 | E. Dubuque, Ill. |
| | WKLE | 1500 | Griffin, Ga. | | KUOA | 1260 | Fayetteville, Ark. |
| | WMPC | 1200 | Lapeer, Mich. | | WAGM | 1420 | Presque Isle, Me. |
| 4:30-4:50 | WEXL | 1310 | Royal Oak, Mich. | 3:40-4:00 | WIDF | 1370 | Calumet, Mich. |
| | WHLB | 1370 | Virginia, Minn. | | KIUJ | 1310 | Santa Fe, N. Mex. |
| 4:40-5:00 | WJMS | 1420 | Ironwood, Mich. | | KJWJ | 1210 | Akron, Ohio |
| | WJRD | 1200 | Tuscaloosa, Ala. | 3:50-4:10 | WNBZ | 1290 | Sarasota Lake, N. Y. |
| 4:50-5:10 | KFNX | 1310 | Oklahoma City, Okla. | | WJBK | 1500 | Detroit, Mich. |
| | WTAX | 1210 | Springfield, Ill. | | WMBH | 1420 | Joplin, Mo. |
| | WBIG | 1440 | Greensboro, N. C. | 4:00-4:20 | WRDO | 1370 | Augusta, Me. |
| 5:00-5:20 | KFJB | 1200 | Marshalltown, Iowa | | KIUL | 1210 | Garden City, Kans. |
| | WEOA | 1370 | Evansville, Ind. | | WCMJ | 1310 | Ashland, Ky. |
| 5:10-5:30 | KPDN | 1310 | Pampa, Texas | 4:10-4:30 | WTHT | 1200 | Hartford, Conn. |
| | WDZ | 1020 | Tuscola, Ill. | | WCAZ | 1070 | Charthage, Ill. |
| 5:20-5:40 | KELD | 1370 | Eldorado, Ark. | 4:20-4:40 | WNLC | 1500 | New London, Conn. |
| | WAYX | 1200 | Waycross, Ga. | | WMFG | 1210 | Hibbing, Minn. |
| 5:30-5:50 | KDLR | 1210 | Devils Lake, N. Dak. | 4:30-4:50 | WTAQ | 1330 | Green Bay, Wisc. |
| 5:40-6:00 | KRBC | 1420 | Abilene, Texas | | KIUP | 1370 | Durango, Colo. |
| The Second Thursday | | | | | | | |
| 2:00-2:20 | WSVS | 1370 | Buffalo, N. Y. | 4:40-5:00 | KNOW | 1500 | Austin, Texas |
| 2:10-2:30 | WKOK | 1210 | Sunbury, Pa. | | WEMP | 1310 | Milwaukee, Wis. |
| 2:20-2:40 | WRAW | 1310 | Reading, Pa. | 4:50-5:10 | KGDE | 1200 | Fergus Falls, Minn. |
| 2:30-2:50 | WJTN | 1210 | Jamestown, N. Y. | | WGRC | 1370 | New Albany, Ind. |
| 2:40-3:00 | WTEL | 1310 | Philadelphia, Pa. | 5:00-5:20 | KIUN | 1420 | Pecos, Texas |
| 2:50-3:10 | WHIS | 1410 | Bluefield, W. Va. | 5:10-5:30 | KGKE | 1200 | Sterling, Colo. |
| 3:00-3:20 | KGKO | 570 | Wichita Falls, Tex. | 5:20-5:40 | KNAC | 1370 | San Antonio, Texas |
| | WCPO | 1200 | Cincinnati, Ohio | 5:30-5:50 | WIL | 1200 | St. Louis, Mo. |
| | WQAN | 850 | Scranton, Pa. | 5:40-6:00 | KGFG | 1370 | Oklahoma City, Okla. |
| 3:10-3:30 | KFYO | 1310 | Lubbock, Texas | 5:50-6:10 | KANS | 1210 | Wichita, Kans. |
| | WGL | 1470 | Ft. Wayne, Ind. | The Second Saturday | | | |
| 3:20-3:40 | WLEU | 1320 | Erie, Pa. | 2:00-2:20 | WMFR | 1200 | High Point, N. C. |
| | KGFI | 1500 | Corpus Christi, Texas | 2:10-2:30 | WMFO | 1370 | Decatur, Ala. |
| 3:30-3:50 | WIBU | 1210 | Poynette, Wisc. | 2:20-2:40 | WSOC | 1210 | Charlotte, N. C. |
| | KGFL | 1370 | Roswell, N. Mex. | 2:30-2:50 | WTJS | 1310 | Jackson, Tenn. |
| | WBCM | 1410 | Bay City, Mich. | 2:40-3:00 | WSIX | 1210 | Nashville, Tenn. |
| 3:40-4:00 | WSAJ | 1310 | Grove City, Pa. | 2:50-3:10 | WROL | 1310 | Knoxville, Tenn. |
| | KGGM | 1230 | Albuquerque, N. Mex. | 3:00-3:20 | KOTN | 1500 | Pine Bluff, Ark. |
| | WJBC | 1200 | Bloomington, Ill. | | WQAM | 560 | Miami, Fla. |
| 3:50-4:10 | KGHF | 1320 | Pueblo, Colo. | 3:10-3:30 | KWYO | 1370 | Sheridan, Wyo. |
| | WHAT | 1310 | Philadelphia, Pa. | | WCLS | 1310 | Joiet, Ill. |
| | WLAP | 1420 | Lexington, Ky. | 3:20-3:40 | WPRP | 1420 | Ponce, P. R. |
| 4:00-4:20 | KGHI | 1300 | Little Rock, Ark. | | KGCC | 1240 | Mandan, N. Dak. |
| | KNO | 1500 | El Centro, Calif. | | WHBY | 1200 | Green Bay, Wisc. |
| | WHDL | 1400 | Olean, N. Y. | 3:30-3:50 | WNEL | 1290 | San Juan, P. R. |
| | WSMK | 1380 | Dayton, Ohio | | KXYZ | 1440 | Houston, Texas |
| 4:10-4:30 | KGIW | 1420 | Alamosa, Colo. | | WAML | 1310 | Laurel, Miss. |
| | KJBS | 1070 | San Francisco, Calif. | 3:40-4:00 | WKBV | 1500 | Richmond, Ind. |
| | WJIM | 1210 | Lansing, Mich. | | KRGV | 1260 | Westaco, Texas |
| | | | | | WFOR | 1370 | Hattiesburg, Miss. |
| | | | | | WJBL | 1200 | Decatur, Ill. |

| | | | |
|-----------|------|------|--------------------|
| 3:50-4:10 | KNEL | 1500 | Brady, Texas |
| | WEDD | 1420 | Rocky Mount, N. C. |
| | WGFB | 630 | Evansville, Ind. |
| 4:00-4:20 | KPQD | 780 | Anchorage, Alaska |
| | KVSO | 1210 | Ardmore, Okla. |
| | WDFD | 1310 | Flint, Mich. |
| 4:10-4:30 | KONO | 1370 | San Antonio, Texas |
| | KVOS | 1200 | Bellingham, Wash. |
| | WKBZ | 1500 | Muskegon, Mich. |
| 4:20-4:40 | KRLC | 1420 | Lewiston, Idaho |
| | KTSM | 1310 | El Paso, Texas |
| 4:30-4:50 | KUJ | 1370 | Walla Walla, Wash. |
| 4:40-5:00 | KCMC | 1420 | Texarkana, Ark. |
| | KRNR | 1500 | Roseburg, Ore. |
| 4:50-5:10 | KLEN | 1370 | Seattle, Wash. |
| | KWTN | 1210 | Watertown, S. Dak. |
| 5:00-5:20 | KGFF | 1420 | Shawnee, Okla. |
| | KIT | 1310 | Yakima, Wash. |
| 5:10-5:30 | KBTM | 1200 | Paragould, Ark. |
| | KIKO | 1370 | Everett, Wash. |
| 5:20-5:40 | KPRO | 1370 | Longview, Texas |
| | KGYZ | 1310 | Kalispell, Mont. |
| 5:30-5:50 | KBIT | 1500 | Muskogee, Okla. |
| | KFXD | 1200 | Nampa, Idaho |
| 5:40-6:00 | KPJM | 1410 | Grand Forks, N. D. |
| | KXRO | 1310 | Aberdeen, Wash. |
| 5:50-6:10 | KGYN | 1210 | Olympia, Wash. |
| 6:00-6:20 | KLNY | 1310 | Juneau, Alaska |
| 6:10-6:30 | KMED | 1410 | Medford, Ore. |

Notes

The Japanese Association of America has applied to the FCC for permission to erect a shortwave station at San Francisco for the purpose of supplying Japanese farmers in central and northern California with agricultural and market news in their own language.

* * *

One of the southland's most famous radio stations, KTHS, Hot Springs, Ark., has changed hands and applied for permission to move into Little Rock. KTHS, formerly owned by the local Chamber of Commerce, was sold to Radio Enterprises, Inc. At about the same time an application was filed with the FCC by Associated Arkansas Newspapers, Inc., for a new daytime 100-watt station to operate on the 1310 kc. frequency in Hot Springs.

* * *

It is reported that several persons living in a suburb of Bremen, Germany, were recently convicted of listening to a Moscow broadcast and were sentenced to prison for periods varying from one to two years.

For two years WLWL in New York has tried to obtain permission to operate full time with 5 kw. Their plans were upset, however, when the FCC disposed of the entire proceeding and granted all stations involved in the controversies renewal of their licenses on the same basis accorded them prior to the time WLWL started the cases.

WLWL works about two hours a day on the clear channel of 1100 kcs, and hoped to obtain full time through switching the assignments of eight stations on five frequencies. These stations, which are now restored to their original status, are WWL, New Orleans, WFAA Dallas, WBAP Fort Worth, WCCO Minneapolis, WOV New York, WPG Atlantic City, KWKH Shreveport, WNYC New York and WJJD Chicago.

* * *

Plans are being made for the erection of a new broadcasting center for the Columbia Broadcasting System. The building, which will be completed in about two years, will occupy a tract of land at the southeast corner of Park Ave. and 59th St., in New York, one half mile from Radio City. The European architects who designed the AVRO studios in Hilversum, Netherlands, have been invited to New York to advise in the construction of the new building.

* * *

Since the Affiliated Broadcasting Co. was organized last May about a quarter of a million dollars have been spent in organization, of which about \$75,000 was raised by Samuel Insull and his friends. The company is near collapse and only the strictest economy can hold it together until the looked-for fall and winter business relieves the situation. Mr. Insull was practically the founder of the system, but he lost control of the board and resigned; Mr. H. B. Walker of WEOA and WBOW is in charge of the Board at the present time.

Floods

A tired announcer speaks terse, brief commands into the microphone of a Dixieland radio station. His words, spoken without emotion or feeling, direct the work of all those engaged in the work of relieving the suffering of homeless refugees from the flood-stricken areas of the Ohio River in the vicinity of Louisville. His appeals for help, spoken to workers in his own city, are heard by persons in every part of the country. He does not dramatize. He is faced with stark reality. Muddy waters of an angry river rush through his city, but hour after hour, day after day, he sits there in the cold and damp, sometimes in the dark, relaying his messages until his voice almost fails him. When his own station has to cease his reassuring voice comes through from a friendly station to the south, so his neighbors know that help is coming and his fellow workers know where they are needed.

It was genuine drama that was packed in the broadcasts of the Volunteer Inter-City Network, the chain of stations that grew up over night from Minnesota to Florida, carrying the story of the flood from WHAS in Louisville.

When the high water first became evident at Louisville, WHAS carried flood bulletins exclusive. When it was announced that the power might fail, WSM in Nashville offered the services of its transmitter and WELL at Battle Creek, as well as WCKY at Covington offered their assistance. Near midnight Louisville had to leave the air, but the broadcasts were picked up by land wire by WSM, and this station continued to broadcast the flood bulletins for Louisville for the entire duration of the flood, twenty-four hours a day. In the morning WHAS returned to the air, and the network was formed.

The broadcasts originated in the

WHAS studios and were fed to the network through WSM. Scanning the dials of his receiver, the writer heard fourteen stations rebroadcasting WHAS: WGRC, WCKY, WELL, WSB, WHAM, WFBB, WGR, WCCO, WWJ, WLAC, WJAX, WJR, WCFL and WFBR. There may have been many more that we did not hear.

In their own localities WLW, WSAI and WSAZ performed most commendably, and the many broadcasts of the NBC, CBS and MBS cannot go without mention.

Programs

This month we have inserted a few of the Canadian Broadcasting Corporation features in the programs listed under "What's On The Air Tonight?" In addition to these shows which originate in Canada, several of the NBC, CBS and MBS broadcasts are heard on the Canadian Network and these are so indicated. A complete list of the CBC stations is given elsewhere in this issue of RADEX.

We receive from Canada regular weekly program folios listing all their network features, but as many of them are not familiar to us we cannot choose the most popular ones for inclusion in our lists. We will try to include a few of the better programs if our Canadian readers will let us know which they like the best.

We intend to list also the programs of the new coast-to-coast Mutual System, and will do so as soon as Mutual commences to release this information regularly.

DX Convention

With the object of creating greater fellowship among DXers throughout the world, an international DX Convention will be held

in San Francisco during the month of July, 1939. Although originated and sponsored by the International DXers Alliance, all DX Clubs, radio periodicals and other organizations interested in radio are being asked to participate.

The Convention will be replete with all the customary trimmings, including banquets, talks by prom-

inent DXers and radiomen, contests, prizes, visits to radio stations, recreation, etc.

All clubs and organizations wishing to co-operate should write at once to George C. Sholin, Director, Golden Gate International DX Convention, 55 Lapidge St., San Francisco, Calif.

The MONTH'S CHANGES in STATION DATA

This information is compiled just before we go to press, after the forms for most of the other pages are closed. Some very recent changes, received too late to index in this issue, are here included, and will be incorporated next month in our main indices.

Shortwaves

| | | | | | |
|--------|--------|--|------|-------|--------------------------------------|
| | | | 1000 | XEBI | Aguaascalientes, Ags. |
| | | | | XEXN | Portable in Mexico |
| | | | 1060 | XEMG | Atzacapotzalco, D. F. |
|  |  |  |  | ..... | College Park, Md. |
| | | | 1080 | XEBI | Guzman, Jal. |
| 2.500 | XEXP | Monterrey, N. L. | 1130 | XEJP | Mexico City, D. F. |
| 5.930 | YV1RK | Venezuela | 1150 | NEC | Tijuana, B. Cfa. |
| 6.250 | ..... | Caracas, Venez. | | XEDW | Minatitlan, Ver. |
| 6.720 | PMH | Bandoeng, Java | 1160 | XEBJ | Merida, Yuc. |
| 7.180 | YNAM | Managua, Nicaragua | 1190 | ..... | Visalia, Calif. |
| 8.720 | VPD3 | Suva, Fiji | 1200 | ..... | Superior, Wis. |
| 11.796 | OAN5B | Ica, Peru | 1210 | ..... | Bridgeton, N. J. |
| | | | 1220 | XEBL | Mazatlan, Sin. |
| | | | | XEDA | Gra. Anaya, D. F. |
| 4.390 | NAA | Arlington, Va. Time signals at 0955 and 2155 | 1250 | XEXH | San Luis Potosi, S. L.P. |
| 6.090 | HJ4ABC | Ibague, Colombia | 1370 | XELZ | Mexico City, D. F. |
| 26.400 | W9XAZ | Milwaukee, Wis. | 1500 | KAWM | Gallup, N. Mex. |
| | | | | KYCA | Richmond, Va. |
|  |  |  |  | ..... | Ashtabula, Ohio |
| | | | | | FREQUENCY |
| 5.710 | YV2RA | San Cristobal, Venez., from 5.720 | | XELO | Piedras, Negras, Coah., from 1110 |
| 5.855 | H11J | San Pedro, D. R., from 5.865 | 580 | XEL | Mexico City, D. F., from 1100 |
| 5.880 | YV3RB | Barquisimeto, Venez., from 5.900 | 780 | XEFB | Monterrey, N. L., from 1420 |
| 5.885 | HI9B | Santiago, D. R., from 6.045 | 870 | XEBZ | Mexico City, D. F., from 820 |
| 5.950 | HJN | Bogota, Colombia, from 6.080 | 1160 | | |
| 9.460 | XEFT | Veracruz, Ver., from 9.505 | | | |
| 9.480 | XEDQ | Guadalajara, Jal., from 9.520 | | | |
| 12.295 | CB615 | Santiago, Chile, from 6.150 | | | |
| | | | | | POWER |
| 5.710 | YV2RA | San Cristobal, Venez., from 5.710 | 550 | XEPX | Merida, Yuc., 100 from 250 |
| | | | 570 | WMCA | New York, N. Y., 1000 from 500 |
| | | | 610 | XEXM | Mexico City, D. F., 500 |
| 5.800 | YV5RC | Caracas, Venez., from YV2RC | 750 | XEAM | Matamoros, Tams., 25 from 7.5 |
| 5.850 | YV1RB | Maracaibo, Venez., from YV5RMO | 990 | XEAF | Nogales, Son., 750 from 250 |
| 5.880 | YV3RB | Barquisimeto, Venez., from YV5RB | 1060 | XEAD | Guadalajara, Jal., 125 from 500 |
| | | | 1210 | XEAT | Parral, Chih., 250 from 300 |
| 5.910 | YV4RH | Valencia, Venez., from YV15RV | | XEE | Durango, Dgo., 50 from 200 |
| 6.070 | YV1RD | Maracaibo, Venez., from YV7RMO | 1260 | KUOA | Siloam Springs, Ark., 2500 from 1000 |
| 6.156 | YV5RD | Caracas, Venez., from YV3RC | | KVOA | Tucson, Ariz., 1000 from 500 |
| 6.300 | YV4RD | Maracaibo, Venez., from YV12RM | 1280 | XEMX | Mexico City, D. F., 100 from 12 |
| 6.380 | YV5RF | Caracas, Venez., from YV4RC | 1310 | WMFF | Pittsburg, N. Y., 100 from 250 |
| 6.400 | YV5RH | Caracas, Venez., from YV9RC | | | |
| 6.520 | YV4RB | Valencia, Venez., from YV6RV | 1180 | XEFA | Tacuba, D. F., from Mexico City |
| 6.545 | YV6RB | Bolivar, Venez., from YV11RB | 1210 | XEAT | Parral, Chih., from Hidalgo |
| | | | | | LOCATION |
| | | | | | |
| | | | | | CALLS |
| | | | 810 | XENC | Aguaascalientes, Ags., from XFC |
| | | | 1060 | XEAD | Guadalajara, Jal., from XEA |
| | | | 1270 | XENB | Jalapa, Ver., from XFB |
| | | | 1340 | XEND | Jalapa, Ver., from XFD |
| | | | 1370 | KENB | Seattle, Wash., from KVL |
| | | | | XECZ | San Luis Potosi from XEZZ |
| 640 | XEBX | Saltito, Coah. | 1530 | WBRV | Waterbury, Conn., from W1XBS |
| 660 | XEAL | Mexico City, D. F. | | | |
| 820 | XEBG | Tijuana, B. Cfa. | | | |
| 860 | XENC | Mexico City, D. F. | | | |
| 940 | XEYO | Mexico City, D. F. | | | |
| 980 | XEAC | Tijuana, B. Cfa. | 610 | XFX | Mexico City, D. F. |

Broadcast

| | | | | | |
|-----|------|--------------------|------|------|---------------------------------|
| | | | 810 | XENC | Aguaascalientes, Ags., from XFC |
| | | | 1060 | XEAD | Guadalajara, Jal., from XEA |
| | | | 1270 | XENB | Jalapa, Ver., from XFB |
| | | | 1340 | XEND | Jalapa, Ver., from XFD |
| | | | 1370 | KENB | Seattle, Wash., from KVL |
| | | | | XECZ | San Luis Potosi from XEZZ |
| 640 | XEBX | Saltito, Coah. | 1530 | WBRV | Waterbury, Conn., from W1XBS |
| 660 | XEAL | Mexico City, D. F. | | | |
| 820 | XEBG | Tijuana, B. Cfa. | | | |
| 860 | XENC | Mexico City, D. F. | | | |
| 940 | XEYO | Mexico City, D. F. | | | |
| 980 | XEAC | Tijuana, B. Cfa. | 610 | XFX | Mexico City, D. F. |

| | | | | | | |
|------|-----------------------------------|------------------------------|-----------|------|--------------------------------|---------------------|
| 640 | NEOX | Saltillo, Coah. | 0600-0630 | WOOD | 1270 | Grand Rapids, Mich. |
| 690 | NAA | Arlington, Va. | | | March 3 | |
| 710 | NEN | Mexico City, D. F. | 0300-0330 | WHBQ | 1370 | Memphis, Tenn. |
| 780 | KEYZ | Mexico City, D. F. | | | March 10 | |
| 820 | XEMZ | Coronado Isle, B. Cta. | 0200-0600 | FCC | | Frequency Checks |
| 1000 | XEY | Merida, Yuc. | | | March 31 | |
| 1150 | XEFL | Tijuana, B. Cta. | 0300-0400 | KHBC | 1400 | Hilo, Hawaii NNRC |
| | XEWZ | Mexico City, D. F. | 0500-0530 | WPAD | 1420 | Paducah, Ky. |
| 1240 | XEAI | Mexico City, D. F. | | | March 17, 24 | |
| | XEME | Merida, Yuc. | 0230-0300 | WHBQ | 1370 | Memphis, Tenn. |
| 1270 | XEG | Ensenada, B. Cta. | | | March 3, 17 | |
| 1310 | XFA | Aguascalientes, Apts. | 0630-0700 | KWBG | 1420 | Hutchinson, Kans. |
| | PERMIT TO CHANGE FREQUENCY | | | | March 3, 31 | |
| 1210 | WMBG | Richmond, Va., to 1350 | 0130-0230 | WSUI | 880 | Iowa City, Ia. |
| 1420 | WJBO | Baton Rouge, La., to 1120 | | | March 3, 10, 17, 24, 31 | |
| | PERMIT TO CHANGE LOCATION | | 0600-0630 | WOOD | 1270 | Grand Rapids, Mich. |
| 880 | WPHR | Petersburg, Va., to Richmond | | | Thursday mornings | |
| | PERMIT TO CHANGE POWER | | | | February 25 | |
| 1210 | WJTN | Jamestown, N. Y., to 100 | 0245-0315 | KADA | 1200 | Ada, Okla. |
| | WMBG | Richmond, Va., to 500 | | | March 4 | |
| 1420 | WJBO | Baton Rouge, La., to 500 | 0500-0530 | WFLA | 620 | Clearwater, Fla. |
| 1440 | WBIG | Greensboro, N. C., to 1000 | | | March 4, April 1 | |

The DX Calendar

Special programs arranged by the stations for the benefit of distant listeners. The regular frequency check broadcasts are given in another section of this issue. All times are Eastern Standard.

| | | | | |
|-----------|---------------------------------|--|--------------------|-------|
| | | Sunday mornings | | |
| | | February 21 | | |
| 0100-0300 | WHAZ | 1300 | Troy, N. Y. | |
| 0200-0600 | RADEX MYSTERY DX CONTEST | | | |
| | | February 28 | | |
| 0200-0500 | CFLC | 930 | Prescott, Ont. | GCDXC |
| | | March 21 | | |
| 0300-0500 | WHAZ | 1300 | Troy, N. Y. | |
| | | February 21, 28 and March 7, 14, 21, 28 | | |
| 0000-0500 | TGW | 1210 | Guatemala City | |
| 0200-0500 | CMCU | 1280 | Havana, Cuba | |
| 0230-0400 | CKWX | 1010 | Vancouver, B. C. | |
| 0300-0500 | CFCT | 1450 | Victoria, B. C. | |
| | XEP | 1160 | Juarez, Chih. | |
| | | Monday Mornings | | |
| | | February 22 | | |
| 0200-0600 | RADEX MYSTERY DX CONTEST | | | |
| | | March 1 | | |
| 0100-0115 | KTSA | 550 | San Antonio, Texas | |
| 0530-0600 | WRAW | 1310 | Reading, Pa. | |
| | | March 8 | | |
| 0100-0200 | WHEF | 1500 | Kosciusko, Miss. | |
| 0200-0600 | FCC | | Frequency Checks | |
| | | March 15, 29 | | |
| 0600-0630 | KGFV | 1310 | Kearney, Neb. | |
| | | Tuesday mornings | | |
| | | February 23 | | |
| 0300-0330 | KIUL | 1210 | Garden City, Kans. | |
| 0530-0545 | WHEC | 1430 | Rochester, N. Y. | |
| 0530-0600 | KBIX | 1500 | Muskogee, Okla. | |
| | KMAC | 1370 | San Antonio, Texas | NNRC |
| | | March 9 | | |
| 0200-0600 | FCC | | Frequency Checks | |
| | | March 23 | | |
| 0530-0600 | KBIX | 1500 | Muskogee, Okla. | |
| | | March 2, 16 | | |
| 0100-0115 | WRR | 1280 | Dallas, Texas | |
| | | March 2, 16, 23 | | |
| 0300-0330 | KIUL | 1210 | Garden City, Kans. | |
| | | March 2, 9, 16, 23, 30 | | |
| 0530-0545 | WHEC | 1430 | Rochester, N. Y. | |
| | | Wednesday mornings | | |
| | | February 24 | | |
| 0300-0400 | KHBC | 1400 | Hilo, Hawaii | NNRC |
| 0500-0530 | WPAD | 1420 | Paducah, Ky. | |

| | | | | |
|-----------|---------------------------------|--------------------------------|---------------------|------|
| 0200-0600 | FCC | | Frequency Checks | |
| | | March 31 | | |
| 0300-0400 | KHBC | 1400 | Hilo, Hawaii | NNRC |
| 0500-0530 | WPAD | 1420 | Paducah, Ky. | |
| | | March 17, 24 | | |
| 0230-0300 | WHBQ | 1370 | Memphis, Tenn. | |
| | | March 3, 17 | | |
| 0630-0700 | KWBG | 1420 | Hutchinson, Kans. | |
| | | March 3, 31 | | |
| 0130-0230 | WSUI | 880 | Iowa City, Ia. | |
| | | March 3, 10, 17, 24, 31 | | |
| 0600-0630 | WOOD | 1270 | Grand Rapids, Mich. | |
| | | Thursday mornings | | |
| | | February 25 | | |
| 0245-0315 | KADA | 1200 | Ada, Okla. | |
| | | March 4 | | |
| 0500-0530 | WFLA | 620 | Clearwater, Fla. | |
| | | March 4, April 1 | | |
| 0200-0500 | CMHJ | 1160 | Cienfuegos, Cuba | |
| | | March 11 | | |
| 0200-0550 | KADA | 1200 | Ada, Okla. | |
| | | March 18, April 15 | | |
| 0445-0550 | CMHJ | 1160 | Cienfuegos, Cuba | |
| | | Friday mornings | | |
| | | March 5 | | |
| 0145-0215 | KNOW | 1500 | Austin, Texas | |
| | WACO | 1420 | Waco, Texas | |
| | | March 12 | | |
| 0130-0200 | WJAG | 1060 | Norfolk, Neb. | |
| 0200-0600 | FCC | | Frequency Checks | |
| 0215-0245 | KPOF | 880 | Denver, Colo. | |
| | | Saturday mornings | | |
| | | February 20 | | |
| 0200-0600 | RADEX MYSTERY DX CONTEST | | | |
| 0600-0700 | WTRC | 1310 | Elkhart, Ind. | |
| | | February 28 | | |
| 0300-0400 | KFRO | 1370 | Longview, Texas | NNRC |
| | | March 6 | | |
| 0330-0350 | KASA | 1210 | Elk City, Okla. | |
| | | March 13 | | |
| 0200-0630 | FCC | | Frequency Checks | |
| | | March 27 | | |
| 0300-0400 | KFRO | 1370 | Longview, Texas | NNRC |

The CBC Network

The Canadian Broadcasting Corporation, with offices in the National Research Building at Ottawa Ont., advise us that the following stations use Corporation programs.

| | | |
|------|------|-----------------------|
| CFAC | 930 | Calgary, Alta. |
| CFCF | 600 | Montreal, P. Q. |
| CFCH | 930 | North Bay, Ont. |
| CFCO | 630 | Chatham, Ont. |
| CFCY | 630 | Charlottetown, P.E.I. |
| CFJC | 880 | Kamlo ps, B. C. |
| CFNB | 550 | Frederickton, N. B. |
| CFPL | 730 | London, Ont. |
| CFQC | 840 | Saskatoon, Sask. |
| CFRC | 1510 | Kingston, Ont. |
| CFRN | 960 | Edmonton, Alta. |
| CHAB | 1200 | Moose Jaw, Sask. |
| CHLP | 1120 | Montreal, P. Q. |
| CHNL | 1010 | Hamilton, Ont. |
| CHNC | 960 | New Carlisle, P. Q. |
| CHNS | 930 | Halifax, N. S. |
| CHSJ | 1120 | St. John, N. B. |
| CHWK | 780 | Chilliwack, B. C. |
| CJAT | 910 | Trail, B. C. |
| CJCA | 730 | Edmonton, Alta. |
| CJCB | 1240 | Sydney, N. S. |
| CJCY | 690 | Calgary, Alta. |

| | | |
|------|-------|----------------------|
| CJGX | 1390 | Yorkton, Sask. |
| CJKL | 1310 | Kirkland Lake, Ont. |
| CJOC | 950 | Lethbridge, Alta. |
| CJRC | 630 | Winnipeg, Man. |
| CJRM | 540 | Moose Jaw, Sask. |
| CJRO | 6150 | Winnipeg, Man. |
| CJRX | 11720 | Winnipeg, Man. |
| CKBI | 1210 | Prince Albert, Sask. |
| CKCH | 1210 | Hull, P. Q. |
| CKCK | 1010 | Regina, Sask. |
| CKCO | 1010 | Ottawa, Ont. |
| CKCV | 1310 | Quebec, P. Q. |
| CKCW | 1370 | Moncton, N. B. |
| CKGB | 1420 | Timmins, Ont. |
| CKMO | 1410 | Vancouver, B. C. |
| CKOC | 1120 | Hamilton, Ont. |
| CKOV | 630 | Kelowna, B. C. |
| CKPC | 930 | Brantford, Ont. |
| CKPR | 730 | Fort William, Ont. |
| CKSO | 780 | Sudbury, Ont. |
| CKTB | 1200 | St. Catharines, Ont. |
| CKWX | 1010 | Vancouver, B. C. |
| CKX | 1120 | Brandon, Man. |
| CKY | 910 | Winnipeg, Man. |
| CRCK | 1050 | Quebec, P. Q. |
| CRCM | 910 | Montreal, P. Q. |
| CRCO | 880 | Ottawa, Ont. |
| CRCS | 950 | Chicoutimi, P. Q. |
| CRCT | 840 | Toronto, Ont. |
| CRCV | 1100 | Vancouver, B. C. |
| CRCW | 600 | Windsor, Ont. |
| CRCX | 6090 | Toronto, Ont. |
| CRCY | 1420 | Toronto, Ont. |

Boake Carter, the Philco commentator who broadcasts five nights a week on the CBS, made his screen debut as the narrator in the new film "The Dead March," which is now showing in theaters throughout the country.

"The Dead March" is a bold screen revelation of the horrors and atrocities of war, dealing in events in Spain, China, Ethiopia and the World War and composed of pictures taken on the scenes of action.

* * *

The Boston local, WMEX, has become a high-powered regional station. Their application for 1470 kcs with 5 kw power was granted by the FCC without a hearing. When construction of the new transmitter is completed their 1500 kilocycle assignment will be relinquished.

* * *

Nathaniel Shilkret once made a gold recording for the Emperor of Japan. He was asked to autograph it, and inscribed it "To His Highness, the Emperor, from Nathaniel Shilkret." The record was returned to him, however, with the request that the dedication be changed; none save the Emperor him-

self is permitted to write the imperial name.

* * *

On June 1, there were, in the United States, 6111 radio stations exclusive of amateurs and government classes. There were 46,598 amateurs. These stations are divided into 34 different classes. The class having the greatest number of stations is the Ship Telegraph, with 1973. This is followed by the Municipal Police, with 1125. There are 630 stations on the broadcast band (550-1500 kcs.); 325 point-to-point telegraph stations; 32 "apex"; 79 State Police, and 186 relay broadcasters.

* * *

According to World-Radio, the weekly journal of the British Broadcasting Corporation, a number of new stations will be erected throughout India, at Trichinopoly, Dacca, Lahore, Madras and Peshawar, and, in the United Provinces, at Lucknow or some other suitable place. Expenditures on the new stations and for remodeling the existing ones at Bombay and Calcutta, are estimated to be about \$1,350,000.

* * *

There are no shortwave stations in Turkey at present, but it is understood that the Turkish government will soon let contracts for construction of two new radio stations. One of these will be on the high frequencies with 10 kw. It is believed it will be located at Ankara.

* * *

Station WTFI of Athens, Ga., which has a permit to move into Atlanta, has been acquired by the Atlanta Journal, owners of WSB in Atlanta. On removal to Atlanta the call letters no doubt will be changed, perhaps to WAGA. It is expected that WSB, now an NBC outlet, will carry Red Network programs and the new station the programs of the Blue Net.

WHAT'S ON THE AIR TONIGHT

Fill in the calls and frequencies of the stations through which you best receive the network programs. You can then turn quickly to the one that has the feature you want.

| Network | Stations |
|-------------------|----------|
| Canadian (CBC) | |
| Columbia (C) | |
| Mutual (M) | |
| National Red (R) | |
| National Blue (B) | |

Time: E Eastern; C Central; M Mountain; P Pacific

RADEX is the only publication listing stations in alphabetical order for your convenience.

While these programs are correct at the time of going to press, changes are made from time to time.

MONDAY

E-6:15 p.m., C-5:15, M-4:15, P-3:15

C — News of Youth

KMOX WABC WADC WBBM WBNS
WCAO WCAU WDRC WEEL WFBL
WHK WIBX WKBN WLWB WMAS
WOKO WORC WPRD WWVA

E-6:45 p.m., C-5:45, M-4:45, P-3:45

C — Rentfrew of the Mounted

KFAB KFH KLRA KMBC KMOX
KOMA KRLD KIUNT KSCJ KTUL
KWKH WABC WADC WBBM WBNS
WCCO WDRC WFBM WGR WHEC
WHK WIBX WICC WISN WJR
WJSV WKBN WMAS WMBG WNAC
WNH WOC WREC WSMK WSPD
WWVA

B — Lowell Thomas

CRCT KDKA WBAL WBZ WBZA
WFLA WIOD WJAX WJZ WLW
WMAL WOOD WRVA WSyr WTAM
WXYZ

E-7:00 p.m., C-6:00, M-5:00, P-4:00

C — Poetic Melodies; Jack Fulton

WABC WADC WBT WCAO WCAU
WDRC WEAN WEEL WFBL WGR
WHFC WHK WJAS WJR WJSV
WKRC WOKO WSPD WTOC WWVA

R — Amos 'n' Andy

KYW WBEN WCAE WCHS WEAF
WEEL WFBR WGY WJAR WLW
WRC WTAG WTIC

E-7:15 p.m., C-6:15, M-5:15, P-4:15

C — Popeye the Sailor

KFAB KLZ KMBC KMOX KRNT
KSL WABC WADC WBBM WBNS
WCAO WCAU WDRC WEAN WFBL
WFBM WGR WHAS WHEC WHK
WIBX WJAX WJAS WJSV WKRC
WNAC WOC WOKO WORC WSMK

R — Uncle Ezra's Radio Station

KPRC KTBS KTHS KVOO KYW
WBAP WBen WCAE WCKY WCHS
WDAF WEAF WEEL WFBR WGY
WIRE WJAR WKY WMAQ WOAI
WOOD WOV WRC WTAG WTAM
WTIC

E-7:30 p.m., C-6:30, M-5:30, P-4:30

B — Lum and Abner

WBZ WBZA WENR WJZ WLW
WMC WSM WSyr

E-7:45 p.m., C-6:45, M-5:45, P-4:45

C — Boake Carter

KMBC KMOX KOMA KRLD WABC
WBBM WBT WCAO WCAU WCCO
WDRC WEAN WFBL WGR WHAS
WHK WJAS WJR WJSV WKRC
WNAK

E-8:00 p.m., C-7:00, M-6:00, P-5:00

C — Horace Heidt and Orchestra

KDB KERN KFAB KFBK KFH
KFPY KPRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KRLD KRNT KSL KTRH K TSA
KTUL KVI KWG WABC WBBM
WBRC WBT WCAO WCAU WCCO
WDRC WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRC WLAC WMBR WNAK WNAX
WOKO WREC WWL

R — Fibber McGee and Molly

KSD KYW WBEN WCAE WCKY
WCHS WDAF WEAF WEEL WFBR
WGY WHO WIRE WJAR WMAQ
WOOD WOV WRC WTAG WTAM
WTIC WWJ

B — Helen Hayes, Drama

KDKA KOIL KSO KWK WABY
WBAL WBZ WBZA WEBR WFBR
WFIL WGAR WHAM WJZ WLS
WMAL WMT WREN WSAI WSyr
WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30

C — Pick and Pat

KFAB KMBC WABC WADC WBBM
WBT WCAO WCAU WDRC WEAN
WFBL WGR WGST WHEC WHK
WHIP WICC WJAS WJR WJSV
WKRC WLWB WMAS WNAC WOKO
WORC WSPD

R — Voice of Firestone

CPCF CRCT KFYR KPRC KSD
KSTP KTBS KVOO KYW WAVE
WBEN WCAE WCCS WCHS WDAF
WDAF WEAF WEBC WEEL WFAA
WFBC WFBR WFLA WGY WHO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOV WPTF WRC WRVA
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTIC WTMJ WWJ
WVNC

B — Frank Munn; Abe Lyman

KDKA KOIL KSO KWK WBAL WBZ

WBZA WCKY WEAN WEBR WFIL
WGAR WHAM WICC WJZ WLS
WMAL WMT WREN WSyr WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00

C — Lux Radio Theatre

CFRB CKAK KDB KERN KFAB
KFBK KFPY KPRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLD KRNT
KSL KTRH K TSA KTUL KVI KWG
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDRC WEAN WFBL WFBM
WGST WHAS WHEC WHK WICC
WISN WJAS WJR WJSV WKBW
WKRC WLAC WNAC WNAX WOKO
WORC WQAM WREC WWL

R — Warden Lawes, Prison Drama

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KYW WBEN
WCAE WCKY WCHS WDAF WEAF
WGY WHO WIRE WJAR WMAQ
WNAC WOV WRC WTAM WTIC
WWJ

E-9:30 p.m., C-8:30, M-7:30, P-6:30

R — Richard Himber and Orchestra

KFYR KPRC KSD KSTP KTBS
KVOO KYW WBEN WCAE WCHS
WDAF WDAY WEAF WEBC WFAA
WFBR WGY WHO WIBA WJAX
WKY WLW WMAQ WOAI WOV
WRC WTAG WTAM WTIC WTMJ
WWJ

B — Jack Pearl; Morton Bowe

KDKA KECA KESD KGA KGO KJR
KLO KOIL KSO KWK WABY WAVE
WBAL WBZ WBZA WCKY WCOL
WEAN WEBR WENR WFIL WFLA
WGAR WHAM WICC WIOD WIS
WJAX WJDX WJZ WMAL WMC
WMT WOOD WPTF WREN WRVA
WSB WSM WSMB WSOC WSUN
WSYR WTAR WVNC WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00

R — Contended Program

CFCF CRCT KDYL KFI KGW
KHQ KOA KOMO KPO KPRC KSD
KYW WBEN WCAE WCHS WDAF
WEAF WEEL WFBR WFLA WGY
WHO WIOD WIS WJAR WJAX
WKY WMAQ WMC WOAI WOV
WPTF WRC WRVA WSB WSM

MONDAY (Continued)

WTAG WTAM WTAR WTC WWCW

C — Wayne King and Orchestra
KDB KERN KFAB KFBK KFPY
KFRK KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRNT
KSL KVI KWG WAAB WABC
WADC WBBM WBNS WBT WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WHAS WHK WJWJ WJAS
WJR WJSV WKBW WKRC WOKO
WSPD WWL

E-10:30 p.m., C-9:30, M-8:30, P-7:30
R — Krueger Musical Toast
WCSC WCSH WFAE WFBC WFLA
WGY WIOD WIS WJAR WJAX
WNAC WPTF WSB WSOC WSUN
WTAG WTAR WTC WWCW

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Poetic Melodies; Jack Fulton
KERN KFAB KFBK KFPY KFRK
KGB KHJ KLRA KLZ KMBC KMOX
KOL KOL KOMA KRLD KRNT
KSL KTRH KTSa KVI WBBM
WBRC WCCO WFBM WGST WLAC
WREC WWL

R — Amos 'n' Andy
KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD WBAP WDAF
WFO WKY WLW WMC WOAI WOV
WSB WSM WSMB WTAM WWJ

E-11:15 p.m., C-10:15, M-9:15, P-8:15
C — Renfrew of the Mounted
KDB KERN KFBK KFPY KFRK
KGB KHJ KMJ KOIN KOL KSL
KVI KWG

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Pick and Pat
KDB KERN KFBK KFPY KFRK
KFB KGKO KHJ KLRA KLZ KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTUL KVI KWG
KWKH WACO WBRC WCCO WFBM
WHAS WLAC WREC

TUESDAY

E-6:45 p.m., C-5:45, M-4:45, P-3:45
B — Lowell Thomas, See Monday
C — Renfrew, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Poetic Melodies, See Monday
R — Amos 'n' Andy, See Monday

B — Easy Aces
KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WHIO WIRE WJZ
WMAL WMT WSYR WXYZ

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — "Ma and Pa"; Sketch
WABC WADC WBIC WBNS WBRC
WBT WCAO WCAU WDBJ WDRC
WEEI WFBL WGR WHEC WHK
WHP WJW WJAS WMAS WMBG
WNBF WORC WPRO WSJS WVVV

B — Tastyest Jesters
KDKA KOIL KSO KWK WABY
WBAL WBZ WBZA WEBR WENR
WFIL WGAR WHAM WJZ WMAL
WMT WSAI WSYR WXYZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30
B — Lum and Abner, See Monday

C — Alexander Woolcott
KFAB KFH KLRA KMOX KRLD

KTRH KTSa KWKH WABC WADC
WALA WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBO
WDRC WEEI WFBL WFBM WGR
WGST WHAS WHEC WHIO WHK
WIBM WISN WJAS WJR WJSV
WKRC WLAC WLZB WMAS WMBG
WMBR WOKO WORC WPRO WQAM
WREC WTCO WWL WVVV

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Boake Carter, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Hammerstein Music Hall
KFAB KMOX KRNT WABC WADC
WBBM WBNS WCAO WCAU WDRC
WEAN WFBL WFBM WGR WHAS
WHK WJAS WJR WJSV WKRK
WMAS WNAC WOKO WSPD

R — Leo Reisman and Orchestra
KFRY KPRC KSD KSTP KTBS
KYOO KYW WBAP WBEN WCAE
WCSH WDAF WDAY WFAE WFEI
WFBR WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WLW WMAQ WOW WPTF
WRC WRVA WSOC WTAG WTAM
WTAR WTCI WTMJ WWJ WWCN

B — Log Cabin Dude Ranch
KDKA KOIL KSO KWK WBAL
WBZ WBZA WFIL WGAR WHAM
WIRE WJZ WLS WMAL WMT
WREN WSYR WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Al Jolson; Sid Silvers

CFRB KFAB KFH KLRA KMBC
KMOX KOMA KRLD KRNT KTRH
KTSa KTUL WABC WADC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDRC
WEEI WFBL WFBM WGR WGST
WHAS WHEC WHIO WHK WJW
WJAS WJR WJSV WKRC WLAC
WMAS WMBD WMBG WNAX
WOKO WORC WPRO WQAM WREC
WWL

R — Wayne King and Orchestra
KFRY KPRC KSD KSTP KTBS
KYOO KYW WAVE WBAP WBEN
WCAE WCKY WCSH WDAF WDAY
WFAE WFCB WFEI WFBR WGY
WHIO WHIO WIBA WIRE WJAR
WJDX WKY WMAQ WMC WOAI
WOV WRC WSB WSM WSMB WTAG
WTAM WTCI WTMJ WWJ

B — Edgar Guest, Welcome Valley
KDKA KOIL KSO KWK WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Al Pearce and Gang

CFRE CKAC KFAB KFH KGKO
KLRA KMBC KMOX KOMA KRLD
KRNT KSCJ KTRH KTSa KTUL
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WJW WJAX
WJCC WISN WJAS WJR WJSV
WKBH WKBW WKBW WKRC
WLAC WLZB WMAS WMBD WMBG
WMBR WMMN WNAC WNAX
WNOB WNOX WOC WOKO WORC
WOW WPG WQAM WREC WSBT
WSFA WSPD WTCO WWL

R — Vox Pop; Sidewalk Interviews
KSD KYW WBEN WCAE WCKY

WCSH WDAF WFAE WFEI WFBR
WGY WHO WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTCI
WWJ

B — Ben Bernie and Orchestra
KDKA KDYL KFI KFSB KFRY
KGW KHQ KOA KOIL KOMO KPO
KPRC KSO KSTP KTRH KTBS
KYOO KWK WAVE WBAL WBAP
WBZ WBZA WDAY WFCB WFIL
WFLA WGAR WHAM WIBA WIO
WIS WJAX WJDX WJZ WKY WLS
WLW WMAL WMC WMT WOAI
WPTF WREN WRVA WSB WSM
WSMB WSOC WSYR WTAR WTMJ
WWNC WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Jack Oakie's College

KFAB KFH KFPY KGKO KLRA
KLZ KMBC KMOX KNX KOIN
KOL KOMA KRLD KRNT KSCJ
KSFO KSL KTRH KTSa KTUL
KVI KVOB KWKH WABC WACO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDDO
WDRC WEEI WFBL WFBM WGST
WHAS WHEC WHIO WHK WHP
WIBW WJW WJN WJAS WJR
WJSV WRH WKBW WKRC WLAC
WLZB WMAS WMBD WMBG
WMBR WNAX WNEF WNOX WOC
WOKO WORC WOW WPG WPRO
WQAM WREC WSBT WSPA WSJS
WTCO WWL

R — Fred Astaire; Johnny Green
CRCT KDYL KFI KFRY KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KTBS KYOO KYW
WAVE WBAP WBEN WCAE WCKY
WCSH WDAF WDAY WFAE WFCB
WEEI WFBR WFLA WGY WHO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WJY WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSM WSMB WSOC WTAG WTAM
WTAR WTCI WTMJ WWJ WWCN

B — Husbands and Wives
KECA KEX KFSB KGA KGO KJR
KLO KOIL KSO KWK WBAL WBZ
WBZA WEBR WENR WHAM WJZ
WMAL WMT WREN WSAI WSYR
WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00
B — Armco Concert Band

KDKA KECA KFSB KGA KGO
KJR KLO KOIL KSO KVOD WBAL
WBZ WBZA WEBR WENR WFIL
WGAR WHAM WJZ WLW WMAL
WMT WREN WSYR WXYZ

E-10:30 p.m., C-9:30, M-8:30, P-7:30
R — Jimmy Fidler Hollywood Gossip

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KTRH KYW WBEN
WCAE WCSH WDAF WFAE WFBR
WGY WHO WJAR WLW WMAQ
WNAC WOOD WOW WRC WTAG
WTAM WTCI WWJ

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15
C — Renfrew of the Mounted, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Al Jolson; Sid Silvers
KFPY KGMB KLZ KNX KOIN
KOL KSFO KSL KVI

TUESDAY (Continued)

R — Leo Reisman and Orchestra
KDYL KFI KFSD KGHK KGIR
KDW KKH KOA KOMO KPO KTRAR

WEDNESDAY

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — News of Youth, See Mon.

E-6:45 p.m., C-5:45, M-4:45, P-3:45
C — Renfrew of Mounted, See Mon.
B — Lowell Thomas, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Poetic Melodies, See Monday
R — Amos 'n' Andy, See Monday
B — Easy Aces, See Tuesday

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Popeye, See Monday
R — Uncle Ezra, See Monday
B — Tastyest, See Tuesday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
B — Lum and Abner, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Boake Carter, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Cavalcade of America

KDB KERN KFAB KFBK KFPY
KFRK KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WABC WBBM
WBNS WCAO WCAU WCCO WDRG
WEAN WFBL WFBM WGR WHAS
WHBC WHK WJAS WJR WJSV
WKRC WLAC WMBG WNAC WOKO
WTOC WWL

R — One Man's Family

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTRAR KTBS KTHS KVOD KYW
WAPI WAVE WBPB WBBN WCAE
WCSH WDAF WDAY WEAF WEBC
WEEI WFAA WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSBM WSOC
WSUN WTAB WTAM WTAR WTIC
WTMJ WWJ WWNC

B — Broadway Merry-go-Round

KDKA KOIL KSO KWK WBAL
WBZ WBZA WKY WEAN WEBR
WFIL WGAR WHAM WICC WJZ
WLS WMAL WMT WREN WSYR
WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Burns and Allen

CKAK KFAB KFH KLRA KMBC
KMOX KOMA KRLD KRNT KSCJ
KTRH KTSAs KTUL KWKH WABC
WADC WBBM WBNS WBRG WBT
WCAO WCAU WCCO WDAE WDBJ
WDBG WDRG WEAN WFBL WFBM
WFEA WGR WGST WHAS WHBC
WHK WHP WIBW WIBX WICC
WJAS WJR WJSV WKRC WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WPG WQAM WREC WSPD
WWL

R — Wayne King, See Tuesday

B — Ethel Barrymore, Drama
KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFIL WGAR WHAM
WJZ WMAL WMT WREN WSAI
WSYR WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Chesterfield Program

KDB KERN KFAB KFBK KFH
KFPY KFRK KGB KGKO KGMB
KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSa KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRG WBT
WCAO WCAU WCCO WCOA WDAE
WDBG WDBO WDRG WDOB WDRG
WEAN WFBL WFBM WFEA WGST
WHAS WHBC WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBH WKBW WKRC WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAC WNAX WNBFWNOX
WOC WOKO WORC WOWO WPG
WQAM WREC WSAF WSJS WSPD
WTOC WWL

R — Town Hall Tonight

KFYR KPRC KSD KSTP KTBS
KTHS KVOD KYW WAVE WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFAA WFBR WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC WSB
WSM WSBM WSOC WTAB WTAM
WTAR WTIC WTMJ WWJ WWNC

E-9:30 p.m., C-8:30, M-7:30, P-6:30

C — Jessica Dragonette

KDB KERN KFAB KFBK KFH
KFPY KFRK KGB KGMB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLD KRNT
KSL KTRH KTSa KTUL KVI KWG
KWKH WABC WBBM WBNS WBRG
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRG WEAN WFBL
WFBM WGST WHAS WHBC WHK
WICC WISN WJAS WJR WJSA
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WOKO WORC WOWO
WQAM WREC WTOC WWL

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Crime Crusade; Phil Lord

KDB KERN KFAB KFBK KFH
KFPY KFRK KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMAR KRLD KRNT KSL KTRH
KTSa KTUL KVI KWG KWKH
WABC WACO WBBM WBNS WBRG
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRG WEAN WFBL
WFBM WGST WHAS WHBC WHK
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WOKO WORC WOWO
WQAM WREC WTOC WWL

R — Your Hit Parade

KDYL KEX KFI KFYR KGHK
KGIR KGU KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTRAR
KTBS KTHS KVOD KYW WAVE
WCAE WCSH WDSH WDAF WDAY
WEAF WEBC WFAA WFBR WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOAI WOW WPTF
WRC WRVA WSB WSM WSBM
WSOC WSUN WSYR WTAB WTAM
WTAR WTIC WTMJ WWJ WWNC

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Peetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15
C — Renfrew of Mounted, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Burns and Allen
KDB KERN KFBK KFPY KFRK
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KVOR KWG

THURSDAY

E-6:45 p.m., C-5:45, M-4:45, P-3:45
C — Renfrew of Mounted, See Mon.
B — Lowell Thomas, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Poetic Melodies, See Monday
R — Amos 'n' Andy, See Monday
B — Easy Aces, See Tuesday

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — "Ma and Pa", See Tuesday
B — Tastyest, See Tuesday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Alexander Woolcott, See Tues.
B — Lum and Abner, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Boake Carter, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — A & P Bandwagon

KFAB KMBC KMOX KRLD KRNT
KTRH WABC WADC WBBM WBIG
WBNS WBRG WBT WCAO WCAU
WCCO WDAE WDBJ WDRG WEEI
WFBL WFBM WGR WGST WHAS
WHBC WHK WHP WIBX WJAS
WJR WJSV WKBH WKRC WLHZ
WMAS WMBG WMBR WOC WOKO
WORC WPIB WQAM WTOC WWL
WWVA

R — Rudy Vallee's Variety Hour

CFBC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KSD
KSTP KTRAR KYW WBEN WCAE
WCSH WDAF WDAY WEAF WEBC
WEEI WFBR WGY WHO WJAR
WLW WMAQ WOW WRC WTAM
WTIC WTMJ WWJ

E-9:00 p.m., C-8:00, M-7:00, P-6:00

C — Major Bowes' Amateurs

CFRB CKAK KDB KERN KFAB
KFBK KFH KFPY KFRK KGB
KGKO KLRA KLZ KMBC WMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSa
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRG WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDRG WDOB WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHBC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WNAX WOC WOKO
WORC WOWO WPG WQAM WREC
WSFA WSJS WSPD WTOC WWL

R — Maxwell House Show Boat

KDYL KFI KFSD KFYR KGHK
KGIR KWK KHQ KOA KOMO KPO
KPRC KSD KSTP KTRAR KTBS
KYW WAPI WAVE WBPB WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSM WSBM
WSOC WTAB WTAM WTAR WTIC
WTMJ WWJ WWNC

THURSDAY (Continued)

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Your True Adventures
KFAB KFH KFPY KLRA KLZ
KMBC KMOX KNX KOIN KOL
KOMA KRLD KRNT KFSO KSL
KTRH KTSa KTUL KVI KWKH
WABC WBBM WBNS WBCB WBT
WCAO WCOA WCCO WDAE WDBJ
WDBO WDRC WEEI WFBL WFBM
WGST WHAS WHEC WHIO WHK
WISN WJAS WJR WJSV WKWB
WKRC WLAC WLWB WMBG WMRB
WOKO WORC WPRO WQAM WREC
WTOC WWL

R — Bing Crosby; Bob Burns
CFCF CRCT KDYL KFI KFYR
KHQ KHG KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVOO KYW WAVE WBAP WBBN
WCAE WCBS WDAF WDAY WFAA
WFCB WEEI WFBR WFLA WGY
WJO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C — March of Time

KDB KERN KFAB KFBK KIPY
KFCR KGB KHJ KLZ KMJ KMOX
KOIN KOL KOMA KRNT KSL KVI
KWG WABC WBBM WBNS WCAO
WCAO WCCO WDRC WEAN WEEI
WFBL WFBM WGST WHAS WHEC
WHK WJAS WJR WJSV WKWB
WKRC WOKO WWL

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15
C — Renfrew of Mounted, See Monday

FRIDAY

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — News of Youth, See Mon.

E-6:45 p.m., C-5:45, M-4:45, P-3:45
C — Renfrew of Mounted, See Tues.

B — Lowell Thomas, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Mortimer Gooch, Sketch

WABC WADC WBT WCAO WCAU
WDRC WEAN WEEI WFBL WGR
WHEC WHK WJAS WJR WJSV
WKRC WOKO WSPD WTOC WYVA

R — Amos 'n' Andy, See Monday

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Popeye, See Monday

R — Uncle Ezra, See Monday

B — Stainless Show; Mario Cozzi

KDKA KECA KEX KFSB KGA
KGO KJR KLO KOIL KSO KVOD
KWK WBAL WBZ WBZA WEBR
WENR WFIL WGAR WHAM WJZ
WMAL WMLT WSAI WSYR WXYZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30

B — Lum and Abner, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45

C — Boake Carter, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00

C — Broadway Varieties

KDB KERN KFAB KFBK KFPY
KFCR KGB KHJ KLZ KMBC KMJ

KMOX KOIN KOL KOMA KRNT
KSL KVI KWG WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDRC WEAN WFBL WFBM
WGR WGST WHAS WHK WJAS
WJR WJSV WKRC WMAA WMBG
WNAO WOKO WWL

R — Cities Service Concert

CRCT KFYR KOA KPRC KSD
KSTP KTBS KTHS KVOO KYW
WBAP WBBN WCAE WCBS WDAF
WDAY WEAF WFCB WEEI WFAA
WFBR WGY WHO WIBA WIOD
WJAR WKY WMAQ WOAI WOW
WRC WRVA WSAI WTAG WTAM
WTIC WTMJ WWJ

B — Irene Rich; Drama

KDKA KDYL KFI KGW KHQ KOIL
KOMO KPO KSO KTAR KWK WAVE
WBAL WBZ WFLA WCKY WFIL
WGAR WHAM WIRE WJZ WLS
WMAL WMC WMT WREN WSB
WSM WSYR WXYZ

E-8:15 p.m., C-7:15, M-6:15, P-5:15

B — Singin' Sam

KDKA KOIL KSO KWK WBAL
WBZ WBZA WFIL WGAR WHAM
WJZ WLS WMAL WMT WREN
WSYR WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30

C — Hal Kemp; Kay Thompson

KFAB KFH KGKO KLRA KMBC
KMOX KOMA KRLD KRNT KSCJ
KTRH KTSa KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBOC WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDNC WDDD WDRC WEEI WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHIO WHK WHR WIBV
WIBX WISN WJAS WJR WJSV
WKBN WKRC WLAC WLWB WMAA
WMBD WMBG WMBR WMMN
WNAX WNBK WNOX WOC WOKO
WORC WOWO WPG WPRO WQAM
WREC WSFA WSJS WSPD WTOC
WWL

B — Death Valley Days

KDKA KDYL KFI KGW KHQ
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WFIL WGAR WHAM
WJZ WLS WLW WMAL WMT
WREN WSYR WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00

C — Hollywood Hotel

CFRB CKAC KDB KERN KFAB
KFBK KFH KFPY KFCR KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLD KRNT
KSCJ KSL KTRH KTSa KTUL KVI
KFOR KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRC WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBV WJAX WJZ WJR WJSV
WKRB WKRC WLAC WLWB WMAA
WMBD WMBG WMRB WNBK
WNAX WNOX WOKO WOHK
WPG WQAM WREC WSPD WWL

R — Frank Munn; Bernice Claire

RSD KYW WBBN WCAE WCBS
WDAF WEAF WEEI WFBR WGY
WJAR WLW WMAQ WOW WRC
WTAG WTAM WWJ

B — Universal Rhythm; Rex Chandler

KARK KDKA KFYR KGBX KGNC

KOIL KPRC KSO KSTP KTBS
KTHS KWK WABY WAPI WAVE
WBAL WCBS WDAY WEAN WFCB
WEBR WFAA WFBC WFIL WFLA
WGAR WGL WHAM WIBA WICC
WIOD WIS WJAX WJDX WKY
WLS WLW WMAL WMC WMT
WOAI WOOD WPTF WREN WRVA
WSB WSM WSMB WSOC WSUN
WSYR WTAR WTMJ WWNC WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30

R — True Story Court

KSD KYW WBBN WCAE WCBS
WEAF WEEI WFBR WGY WHO
WHIO WJAR WMAQ WOW WRC
WTAG WTAM WTIC WWJ

B — Buddy Rogers; Helen Broderick

KDKA KECA KFSB KFYR KGA
KGHL KGIR KGO KJR KLO KOIL
KPRC KSO KSTP KTAR KTBS
KTHS KWK WABY WAPI WAVE
WBAL WBZ WBZA WCKY WCCB
WDAY WEBC WEFR WENR WFAA
WFBC WFIL WFLA WGAR WHAM
WIBA WIOD WIRE WIS WJAX
WJDX WJZ WKY WMAL WMC
WMT WOAI WOOD WPTF WREN
WRVA WSB WSM WSMB WSOC
WSUN WSYR WTAR WTMJ WWNC
WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00

R — First Nighter; Drama

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTHS KTHS KYW WAVE WHEN
WCAE WCBS WDAF WDAY WEAF
WEBC WEEI WFAA WFBR WFLA
WGY WHIO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

E-10:30 p.m., C-9:30, M-8:30, P-7:30

R — Pontiac Varsity Show

KARK KDYL KFBK KFI KFYR
KGBX KGHL KGIR KGNC KGW
KHQ KMJ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVOO KWG KYW WAPI WAVE
WHEN WCAE WCBS WDAF WDAY
WEAF WFCB WEEI WFAA WFBR
WFLA WGL WGY WHO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WNAC WOAI WOOD WOW WPTF
WRVA WSB WSM WSMB WSOC
WSUN WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Mortimer Gooch, Sketch

KERN KFAB KFBK KFYR KFCR
KGB KHJ KLRA KLZ KMBC KMOX
KOIN KOL KOMA KRLD KRNT
KSL KTRH KTSa KVI WBBM
WBRC WCCO WFBM WGST WLAC
WREC WWL

R — Amos 'n' Andy, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15

C — Renfrew of Mounted, See Mon.

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Hal Kemp; Kay Thompson

KFBK KFPY KGMB KGVO KLZ
KNX KOH KOIN KOL KFSO KSL
KVI KFOR

SATURDAY

E-2:00 p.m., C-1:00, M-Noon; P-11:00 a.m.

B — Metropolitan Opera Co.
 CFCF CRCT KDKA KDYL KECA
 KEX KFSB KFYR KGA KGBX
 KGHL KGIR KGO KGU KJR KLO
 KOA KOIL KPRC KSO KSTP KTAR
 KTBS KTHS KVOO KWK WABZ
 WAPI WAVE WBAL WBPB WBZ
 WBZA WCKY WCOL WCSC WDAY
 WEBC WEHR WFAP WFBC WFIL
 WFLA WGAR WHAM WIBA WIOD
 WIS WJAX WJDX WJZ WKY WLW
 WMAL WMAQ WMC WMT WOAI
 WOOD WPTF WREN WRVA WWSB
 WSM WSMB WSOB WSUN WSYR
 WTAR WTMJ WWNC WXYZ
To Canadian Network Also

E-6:45 p.m. C-5:45, M-4:45, P-3:45

C — Saturday Swing Club
 CFRB CKAC KFBB KFH KGB KLZ
 KMBC KNOW KOH KRLL KSL
 KTRH KTHS KTVR KWKH WABC
 WACO WADC WALA WBNS WCAO
 WDAE WDBJ WDBO WDNC WDRS
 WEEL WFBL WFBM WFEA WHAS
 WHFC WHK WHX WICC WJAX
 WLHZ WMBG WMBR WMNN WOC
 WOKO WORC WQAM WSBT WSJS
 WSPD

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — "Ma and Pa." See Tues.

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Carborundum Band
 KFAB KMBC KNOX WABC WBBM
 WBT WCAO WCCO WEAN WEEL
 WFBL WGR WHAS WHK WJAX
 WJR WKRC

E-8:00 p.m., C-7:00, M-6:00, P-5:00

C — Columbia Concert Hall
 CKAC KFH KFPY KGKO KGVO
 KLA KLZ KNOW KNN KOH KOIN
 KOL KOMA KRLL KSFQ KTHS
 KTUL KVI KFOR KWKH WABC
 WACO WADC WALA WBIG WBNS
 WBRC WBT WCAO WCAU WCOA
 WDAE WDBJ WDBO WDNC WDDO
 WDRS WEEL WFBL WFBM WFEA
 WGR WHFC WHIO WHK WEP
 WIBX WISN WJAX WJNO WJR
 WJSV WKRC WLAC WLBY WMAS
 WMRG WMBR WNNB WNOX
 WOKO WORC WPG WPRO WQAM
 WREC WSBT WSPA WSJS WSPD
 WTOC WWL

R — Saturday Night Party
 KSD KYW WAPI WAVE WBNB
 WCAE WCSC WFSB WDAF WFAF
 WFBR WFLA WGY WIO WIOD
 WIS WJAR WJAX WJDX WMAQ
 WMC WNAC WQW WPTF WRC
 WSB WSMB WSOB WSUN WTAG
 WTAM WTAR WTIC WMJ WWNC

B — Ed Wynn; Don Voorhees
 KDKA KFYR KOIL KPRC KSO
 KSTP KTBS KWK WABY WBAL
 WBPB WBZ WBZA WCKY WDAY
 WEBC WEHR WFIL WGAR WHAM
 WIBA WIRE WJZ WKY WLS WMAL
 WMT WOAI WREN WSYR WTMJ
 WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Coming: "Johnny"; Phil Ducey

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Floyd Gibbons; Vincent Lopez
 KDB KERN KFAB KFBK KFPY
 KPRC KGB KHJ KLRA KLZ KMBC

KMJ KMOX KOIN KOL KOMA
 KRLL KRNT KSL KTRH KTHS
 KVI KWG WABC WBBM WBNS
 WBT WCAO WCAU WCCO WDAE
 WDBO WDRS WEAN WFBL WFBM
 WGST WHAS WHK WISN WJAX
 WJR WJSV WKBW WKRC WMBR
 WOKO WQAM WREC WSPD WWL

R — Snow Village Sketches
 KSD KYW WBNB WCAE WCSI
 WDAF WFAF WFBR WGY WJAR
 WMAQ WNAC WQW WRC WTAG
 WTAM WTIC WWJ

B — National Barn Dance
 KDKA KOIL KPRC KSO KTBS
 KTHS KWK WABY WAPI WAVE
 WBAL WBPB WBZ WBZA WFIL
 WFLA WGAR WHAM WIOD WIRE
 WIS WJAX WJDX WJZ WKY WLS
 WMAL WMC WMT WOAI WOOD
 WPTF WREN WRVA WWSB
 WSOB WSUN WSYR WTAR WWNC
 WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30

C — Mary Eastman; Gus Haenschen
 KDB KERN KFAB KFBK KFH
 KFPY KPRC KGB KGKO KHJ
 KLRA KLZ KMBC KMJ KMOX
 KOIN KOL KOMA KRLL KTRH
 KTHS KTUL KVI KWG KWKH
 WALA WBBM WBIG WBNS WBRC
 WBT WCAO WCOA WDAE WDBO
 WDOE WEAN WFBL WFBM WGST
 WHAS WHFC WHK WJAX WJR
 WJSV WKBW WLAC WMBD WMBR
 WNOX WOC WQAM WREC WSPA
 WSPD WTOC WWL WWVA

R — Shell Chateau
 KDYL KFI KFSB KFYR KGHL
 KGIR KGW KHQ KOA KOMO KPO
 KSD KSTP KTAR KYW WBNB
 WCAE WCSI WDAF WDAY WFAF
 WFCB WEEL WFBR WGY WIBA
 WJAR WLW WMAQ WQW WRC
 WTAG WTAM WTIC WTMJ WWJ

E-10:00 p.m., C-9:00, M-8:00, P-7:00

C — Your Hit Parade
 KERN KFAB KFBK KFH KFPY
 KFCR KGB KGKO KGMB KIJ
 KLRA KLZ KMBC KMJ KMOX
 KOH KOIN KOL KOMA KRLL
 KRNT KSGJ KSL KTRH KTHS
 KTUL KVI KFOR KWG KWKH
 WABC WACO WADC WALA WBBM
 WBG WBNS WBRC WBT WCAO
 WCAU WCCO WCOA WDAE WDBJ
 WDBO WDNC WDDO WDRS WEAN
 WFBL WFBM WFEA WGST WHAS
 WHFC WHK WHP WHW WIBX
 WICC WISN WJAX WJR WJSV
 WKBW WKRC WLAC WLBY WMAS
 WMBD WMBG WMBR WNAC
 WNAX WNOX WOC WOKO WORC
 WPG WQAM WREC WSBT WSPA
 WSJS WSPD WTOC WWL WWVA

E-10:30 p.m., C-9:30, M-8:30, P-7:30

C — Fiesta; Lud Gluskin
 CFRB CKAC KERN KFBK KFBK
 KFH KFPY KGB KGVO KLZ KMBC
 KNOW KOH KOL KRLL KTRH
 KTHS KVI KFOR KWG KWKH
 WABC WACO WADC WALA WBNS
 WCAO WDAE WDBJ WDBO WDNC
 WDDO WDRS WEEL WFBL WFBM
 WFEA WGR WHAS WHFC WHK
 WIBX WJAX WJR WKRC WLBY
 WMBD WMBG WMBR WMNN
 WOKO WORC WPG WQAM WSBT
 WSJS WSPD

R — Ervin S. Cobb
 KDYL KFI KFYR KGHL KGIR
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTAR KTBS KTHS
 KVOO KYW WAVE WBPB WBNB
 WCAE WCSI WDAF WDAY WFAF
 WFBR WFLA WFLA WGY WIBA
 WIOD WIS WJAR WJAX WJDX
 WKY WMAQ WMC WNAC WOOD
 WQW WPTF WRC WRVA WWSB
 WSMB WSOB WSUN WTAG WTAM
 WTAR WTIC WTMJ WWJ WWNC

E-11:00 p.m., C-10:00, M-9:00, P-8:00

CBC — The Northern Messenger
 CFCF CFCH CFQO CFJC CPPL
 CFQC CHWK CJAT CJCA CJGX
 CJKL CJOC CJRM CJRO CJRX
 CKJK CKCK CKGB CKOC CKOV
 CKRP CKSO CKTB CKX CKY
 CRCK CRGM CRNO CRCS CRCT
 CRCV CRGW CRGX

B — National Barn Dance
 KDYL KFI KFSB KFYR KGHL
 KGIR KGU KGW KHQ KOA KOMO
 KPO KSTP KTAR WDAY WEBC
 WIBA WLW WTMJ

SUNDAY

E-11:30 a.m., C-10:30, M-9:30, P-8:30

C — Major Bowes' "Family"
 CFRB KERN KFAB KFBK KFBK
 KFH KFPY KFCR KGB KGVO
 KMBC KOH KOL KRLL KSL KTRH
 KTHS KVI KFOR KWG KWKH
 WABC WACO WADC WALA WBNS
 WBRC WCAO WCCO WDAE WDBJ
 WDOE WDNC WEGC WEEL WFEA
 WHAS WHK WIBX WJAX WJR
 WKRC WLHZ WMBD WMBR
 WMNN WOC WOKO WORC WPG
 WQAM WSBT WSJS WSPD WTOC

B — Morton Bowe, Tenor
 KOIL KPRC KSO KSTP KWK
 WAPI WAVE WBAL WJZ WBZA
 WFIL WIBA WJDX WJZ WLW
 WMAL WMAQ WMC WMT WREN
 WSB WSMB WXYZ

E-12:30 p.m., C-11:30 a.m., M-10:30, P-9:30

C — Sait Lake Tabernacle Choir
 CFRB KFAB KFBK KFBK KFH
 KFPY KFCR KGB KLZ KOH KOL
 KRLL KSL KTRH KTHS KVI
 KFOR KWG WABC WACO WADC
 WALA WBIG WBNS WBOC WCAO
 WCCO WDAE WDBJ WDBO WEGC
 WFBM WFEA WGR WHAS WISS
 WJAX WJR WKRC WLBY WMBR
 WMNN WOC WOKO WORC WQAM
 WSBT WSJS WSPD WTOC

B — Radio City Music Hall
 CFCF CRCT KDKA KDYL KFI
 KFYR KGO KGW KHQ KOIL KOMO
 KPRC KSO KYOO WAPI WBAL
 WBZ WBZA WCKY WDAY WEBC
 WGAR WHAM WIS WJDX WJZ
 WKY WMAL WOAI WREN WSMB
 WSYR WWNC

E-12:45 p.m., C-11:45 a.m., M-10:45, P-9:45

C — Trans-Atlantic Broadcast
 CFRB CKAC KFH KGKO KLRA
 KLZ KMBC KRLL KSGJ KTRH
 KTHS KFOR WABC WACO WCAU
 WALA WBIG WBRC WCAO WCOA
 WCCO WDAE WDBJ WDBO WDRS
 WEAN WESG WFBL WFBM WFEA
 WGR WHAS WIBX WJAX WJSV

SUNDAY (Continued)

WKBN WLAC WLBZ WMBD WMBR
WNAO WOC WOKO WORC WPG
WQAM WREC WSJS WSMK WSPD
WTOC WWL

E-1:00 p.m., C-12:00, M-11:00, P-10:30

C — Church of the Air
KFBK KFH KFPY KPRC KGB
KHJ KMOX KOIL KOLG KOMA KRLD
KRNT KSCJ KSL KTRH KTSK
KVI KVOR KWG WABC WATA
WBNS WBT WCAO WCCO WDAE
WDBJ WDBO WDRC WESG WFBL
WFBI WGR WHAS WHF WIBX
WJAS WJSV WKBN WKRC WLAC
WLBZ WMBR WNBW WOC WOKO
WORC WPG WQAM WREC WSBT
WSJS WSPD WTOC WWVA

E-1:30p.m., C-12:30, M-11:30, P-10:30

R — Muriel Dickson; Morton Bower
KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KSD KSTP KYW WBN
WCAE WCHS WDSH WDAF WDAY
WEAF WEBC WFER WGY WJAS
WJRE WJAR WMAQ WNAO WOV
WRC WTAG WTAM WTIC WTMJ
WWJ

E-2:00 p.m., C-1:00, M-12:00, P-11:00

C — Pittsburgh Symphony
KFAB KLRA KLZ KMBC KMOX
KOMA KRLD KRNT KTRH KTSK
KTUL KWKH WABC WADC WBBM
WBNS WDAE WBT WCAO WCAU
WCCO WDBO WDBJ WDBO WDRC
WEAN WFBL WFBM WGST WHAS
WHFC WHK WIBX WISN WJAS
WJR WJSV WKBW WKRC WLAC
WMBG WMBR WMMN WNAO
WNOX WOC WOKO WQAM WREC
WTOC WWL

B — Magic Key of RCA

CFCE CRCT KDKA KDYL KFI
KFYR KGU KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP
KTBS KTHS KYOO KWK WAPI
WAVE WBAL WBZ WBZA WCKY
WDAY WEBC WENR WFAP WFIL
WFLL WFLA WGAR WHAM WHIO WJAS
WJOD WIRE WIS WJAX WJDX
WJZ WKY WMAJ WMC WMT
WQAI WPTF WREN WRVA WSB
WSM WSMB WSOC WSYP WTAR
WTMJ WWNC WXYZ

E-2:45 p.m., C-1:45, M-12:45, P-11:45

a.m.
C — Cook's Travelogue
CKAC WABC WBBM WBRC WBT
WCAO WCAU WEEI WGST WJAS
WJSV WLAC WREC WWL

E-3:00 p.m., C-2:00, M-1:00, P-12:00

C — New York Philharmonic
CFRB CKAC KERN KFAB KFBK
KFBK KFH KFPY KPRC KGB
KGVO KLRA KLZ KMBC KNOW
KOH KOL KRLD KSL KTRH KTSK
KVI KVOR KWKH WABC WACO
WADC WALA WBIG WBNS WBRC
WCAO WCCO WDAE WDBJ WDBO
WDNC WDOD WDRG WEAN WEEI
WESG WFBL WFBM WFEA WHAS
WHFC WHIO WHK WHK WIBC
WJAS WJR WKBW WKRC WLBZ
WMBD WMBG WMBR WMMN
WOC WOKO WORC WQAM WSBT
WSJS WSPD WTOC

Also On Canadian Network

R — Metropolitan Auditions

CFCE KDYL KFI KFYR KGW KHQ
KOA KOMO KPO KSD KSTP KTR

KYW WAPI WAVE WBN WCAE
WCKY WDSH WDAF WDAY WEAF
WEBC WFER WGY WHO WJAS
WJRE WJAR WMAQ WMAQ WMC
WCAO WOV WRC WSB WSAI WSMK
WTAG WTAM WTIC WTMJ WWJ

E-3:30 p.m., C-2:30, M-1:30, P-12:30

R — Grand Hotel; Drama
KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KSD KSTP KYW
WBN WCAE WCHS WDAF WDAY
WEAF WEBC WFER WGY WHO
WJAS WJAR WMAQ WNAO WOV
WRC WSAI WTAG WTAM WTIC
WWJ

E-4:30 p.m., C-3:30, M-2:30, P-1:30

R — Musical Camera; Willie Morris
KDYL KFI KGW KHQ KOA KOMO
KPO KYW WBN WCAE WCHS
WEAF WGY WJAR WLW WMAQ
WOW WRC WSB WSMK WTAM
WTOC WWJ

E-5:00 p.m., C-4:00, M-3:00, P-2:00

C — Your Unseen Friend; Drama
KFAB KLZ KMOX KSL KWKH
WABC WADC WBBM WBNS WCAO
WCAU WCOA WDAE WDBJ WDOD
WDRC WEAN WEEI WESG WFBL
WHAS WHFC WHK WHF WIBX
WJAS WJR WKBW WKRC WLAC
WLBZ WMAJ WMBG WMMN
WNOX WOKO WORC WQAM WQAM
WREC WSMK WSPD WWL WWVA

R — Marion Talley, Soprano

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KSTP KYW WBN
WCAE WCKY WDSH WDAF WDAY
WEAF WEBC WFER WGY WJAS
WJRE WJAR WMAQ WNAO WOV
WRC WTAG WTAM WTIC WTMJ
WWJ

B — We, The People; Phil Lord

KDKA KECA KEN KFSD KGA
KGHL KGR KGO KJR KLO KOIL
KPRC KSO KTBS KTHS KYOO
KWK WAPI WAVE WBAL WBZ
WBZA WCKY WDAY WEBC WENR
WFAP WFIL WFLA WGAR WHAM
WHIO WJAS WJOD WIRE WIS
WJAX WJDX WJZ WKY WLW
WMAJ WMC WMT WQAI WPTF
WREN WRVA WSB WSM WSMB
WSOC WSDUN WSYP WTAR WWNC
WXYZ

M — Ray Knight and his Cuckoos

Station list unobtainable.

E-5:30 p.m., C-4:30, M-3:30, P-2:30

C — Guy Lombardo and Orchestra
KFH KMBC KMOX KOMA KTUL
WAAB WABC WBNS WCAO WCAU
WDRC WEAN WFBL WFBM WGR
WHAS WHFC WHK WIBX WICC
WJR WJSV WMAJ WOKO WORC
WSPD WWVA

R — Smiling Ed McConnell

KDYL KFI KFYR KGIR KGW KHQ
KOMO KPO KSTP KYW WBN
WCAE WCHS WDAF WDAY WEAF
WEBC WFER WGY WHO WJAS
WJAR WLW WMAQ WNAO WOV
WRC WTAG WTAM WTIC WTMJ
WWJ

B — Stoopnagle and Budd

KDKA KECA KEN KFSD KGA
KGO KJR KLO KOIL KSO KWK
WBAL WBZ WBZA WCKY WENR
WFLA WGAR WHAM WHIO WIRE
WJZ WMAJ WMT WREN WSYP
WXYZ

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — Joe Penner; Jimmy Grier
KDB KERN KFAB KFBK KFPY
KPRC KGB KHJ KLZ KMBC KMJ
KMOX KOIL KOI KOMA KRLD
KSL KTRH KTSK KVI KWG WAHC
WBBM WBNS WBT WCAO WCAU
WCCO WDAE WDRC WEAN WFBL
WFBM WGST WHAS WHFC WHK
WJAS WJR WJSV WKBW WKRC
WMBG WMBR WOKO WQAM WWL

E-6:30 p.m., C-5:30, M-4:30, P-3:30

C — Robinoff and His Violin
KDB KERN KFAB KFBK KFBK
KFH KFPY KPRC KGB KGKO KHJ
KLRA KLZ KMJ KMOX KOI KOIN
KOL KOMA KRLD KRNT KSCJ
KSL KTRH KTSK KTI L KVI KVOR
KWG KWKH WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WCCO WCOA
WDAE WDBJ WDOD WDNC WDOD
WDRC WEI WFBL WFBM WFEA
WGST WHAS WHFC WHK WHF
WIBX WIBX WISN WJAS WJR
WJSV WKBW WKRC WLAC
WLBZ WMAJ WMBG WMBG
WMBR WNAJ WNOX WOC WOKO
WORC WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOC
WWL WWVA

R — A Tale of Today

WBN WEAF WGY WJAR WMAQ
WOW WRC WTAM

E-7:00 p.m., C-6:00, M-5:00, P-4:00

C — Professor Quiz

KFAB KFBK KFH KFPY KGKO
KGVOKNOW KOHKOIN KOL KOMA
KRLD KRNT KSCJ KSO KTRH
KTSK KTUL KVOR KWKH WABC
WACO WADC WALA WBBM WBNS
WBRC WBT WCAO WCOA WDAE
WDBO WDNC WFBM WFBM WGR
WGST WHFC WHIO WHK WHF
WIBX WJAS WJNO WLBZ WMAJ
WMBD WMBG WMMN WNOX
WOKO WORC WPG WREC WSBT
WSFA WSJS WSPD WTOC

Also On Canadian Network

R — Jack Benny; Mary Livingstone

KSD KYA KYW WBN WCAE
WCHS WDAF WEAF WGY WJRE
WJAR WLW WMAQ WNAO
WOW WRC WTAG WTAM WTIC
WWJ

E-7:30 p.m., C-6:30, M-5:30, P-4:30

C — Phil Baker; Oscar Bradley

KLRA KLZ KRLD KTRH KTSK
KTUL KWKH WABC WACO WADC
WALA WBIG WBNS WBRC WBT
WCAO WCAU WCOA WDAE WDBJ
WDBO WDNC WDOD WDRG WEAN
WFBL WFBM WFEA WGR WGST
WHAS WHFC WHK WHF WIBX
WICC WJAS WJR WJSV WKBW
WKRC WLAC WLBZ WMAJ WMBR
WNAO WNOX WOKO WORC WQAM
WREC WSBT WSFA WSJS WSMK
WSPD WTOC WWL WWVA

R — Fireside Recitals

KSD KYW WBN WCAE WCHS
WDAF WEAF WFER WGY WJRE
WJAR WMAQ WOW WRC WSAI
WTAG WTAM WTIC WWJ

B — Ozzie Nelson; Bob Ripley

KDKA KOIL KPRC KSO KTBS
KTHS KYOO KWK WAPI WAVE
WBAL WBP WAZ WBZA WCKY
WFIL WGAR WHAM WHIO WIRE

SUNDAY (Continued)

WJDX WJZ WKY WLS WMAL WMC
WMT WOAI WREN WSB WSM
WSMB WSYR WXYZ

E-7:45 p.m., C-6:45, M-5:45, P-4:45
R — Sunset Dreams; Morin Sisters
CFCE CRCT KSD KYW WBEN
WCAE WCSH WDAF WEA F WFB
WGY WHO WJRE WJAZ WLW
WMAQ WOAI WOOD WOW WRC
WTAG WTAM WTIC WWJ

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Nelson Eddy; Nadine Conner
KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KRNT KSCJ KSL
KTRH KTSK KTUL KWKH WABC
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDDO WDRC
WEAN WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBN WKRC WLAC
WLBZ WMAS WMBD WMBR
WNAX WNOX WOC WOKO WORC
WQAM WREC WSBT WSFA WSMK
WTOC WWL WWVA

R — Want to be an Actor?
CFCE CRCT KDYL KFI KFYZ
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KVOO
KYY WAVE WBEW WCAE WCSH
WDAF WDAY WEA F WEEB WFAA
WFBW WFLA WGY WHO WIBA
WIOD WIS WJAZ WJAX WJDX
WKY WLW WMAQ WMC WNAC
WOAI WOW WPTF WRC WRVA
WSB WSM WSMB WSOC WSUN
WTAG WTAM WTAR WTIC WTMJ
WJZ WWNC

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Eddie Cantor; Bobby Brown
KYAB KFH KGKO KLRA KMBC
KMOX KOMA KRLD KRNT KSCJ
KTRH KTSK KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGR WGST
WHAS WHEC WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBN WKRC WLAC WLBZ
WMAS WMBD WMBR WMMN
WNAX WNOX WOC WOKO WORC
WQAM WREC WSBT WSFA WSMK
WTOC WWL WWVA

E-9:00 p.m., C-8:00, M-7:00, P-6:00
R — Manhattan Merry-Go-Round
CFCE KDYL KFI KFYZ KGW
KHQ KOA KOMO KPO KPRC KSD

KSTP KTBS KTHS KYW WAVE
WBEN WCAE WCKY WCSH WDAF
WDAY WEA F WEEB WEEI WFAA
WFBW WFLA WGY WHO WIBA
WIOD WIRE WIS WJAZ WJAX
WJDX WKY WMAQ WMC WOAI
WOW WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

C — Ford Sunday Evening Hour
CFRB CKAC KDB KERN KFAB
KFBK KFH KFPY KFRC KGB
KGKO KHJ KLRA KLZ KMBC
KMJ KMOX KOH KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSK KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRW WBT WCAO
WCCO WCOA WDAE WDBJ
WDBO WDNC WDDO WDRC
WEAN WFBL WFBM WFLA WGR
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBN WKRC WLAC
WLBZ WMAS WMBD WMBR
WNAX WNOX WOC WOKO WORC
WREC WSBT WSFA WSJS WSPD
WTOC WWL WWVA

B — Walter Winchell
KDKA KECA KEX KFSD KGA
KGHL KGIR KGO KJR KLO KOIL
KSO KTAR KWK WBAL WBZ WBZA
WENR WFIL WGAR WHAM WJZ
WLW WMAL WMT WREN WSYR
WXYZ

E-9:15 p.m., C-8:15, M-7:15, P-6:15
B — Frank Parker; Shep Fields
KDKA KECA KFSD KGA KGHL
KGIR KGO KJR KLO KOIL KSO
KTAR KWK WBAL WBZ WBZA
WBEW WBRW WENR WFIL WGAR
WHAM WICC WJZ WLW WMAL
WMT WREN WSYR WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30
R — Album of Familiar Music
CFCE CRCT KDYL KFI KFYZ
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KW WAPI
WAVE WBEW WCAE WCSH WDAF
WDAY WEA F WEEB WEEI WFAA
WFBW WFLA WGY WHO WIBA
WIOD WIS WJAZ WJAX WJDX
WKY WMAQ WMC WOAI WOW
WPTF WRC WRVA WSAI WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTMJ WWJ WWNC

E-9:45 p.m., C-8:45, M-7:45, P-6:45
B — Edwin C. Hill
KDKA KECA KFSD KGA KGO
KJR KLO KVOD WBAL WBZ WBZA
WENR WFIL WGAR WHAM WJZ
WLW WMAL WREN WSYR WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Gillette Community Sing
CFRB CKAC KDB KERN KFAB
KFBK KFBK KFH KFPY KFRC
KGB KGKO KMBC KGVO KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSK
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRW WBT WCAO
WCCO WCOA WDAE WDBJ
WDBO WDNC WDDO WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBN WKRC WLAC WLBZ
WMAS WMBD WMBG WMBR
WMMN WNAC WNAX WNOX
WOC WOKO WORC WOPG WQAM
WREC WSBT WSFA WSJS WSMK
WSPD WTOC WWL

R — General Motors Concert
CFCE CRCT KDYL KFI KFYZ
KGHL KGIR KGW KHQ KOA
KOMO KPO KPRC KSTP KTAR
KTBS KTHS KYW WAPI WAVE
WBEW WCAE WCKY WCSH WDAF
WDAY WEA F WEEB WFAA WFB
WFLA WGY WHO WIBA WIOD
WIRE WIS WJAZ WJAX WJDX
WKY WMAQ WMC WNAC WOAI
WOOD WOW WPTF WRO WRVA
WSB WSM WSMB WSOC WSN
WTAG WTAM WTAR WTIC WTMJ
WJZ WWNC

B — Edwin C. Hill
KDKA KECA KFSD KGA KGO
KJR KLO KOIL KSO KWK WBAL
WBZ WBZA WENR WFIL WGAR
WHAM WJZ WLW WMAL WMT
WREN WSYR WXYZ

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Eddie Cantor; Bobby Brown
KERN KFBK KFH KFPY KFRC
KGB KGVO KHJ KLZ KMJ KOH
KOIN KOL KSL KVI KVOR

R — Sunset Dreams; Morin Sisters
KDYL KFI KFSD KGW KHQ KOA
KOMO KPO KPRC KTAR KTBS
KTHS WBAP WDAF WKY

E-11:15 p.m., C-10:15, M-9:15, P-8:15
B — Walter Winchell
KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTHS WAPI WAVE
WBEW WDBJ WKY WMC WOAI
WSB WSM WSMB

E-11:30 p.m., C-10:30, M-9:30, P-8:30
B — Frank Parker; Shep Fields
KPRC KTBS KTHS KYOD WAPI
WAVE WBAP WJDX WKY WMC
WOAI WSB WSM WSMB

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

C—Columbia; R—National (Red); B—National (Blue); M—Mutual

CONCERTS

Frank Black, 2 p.m. Sun., B
Rosario Bourdon, 8 p.m. Fri., R
Ford Concert, 9 p.m. Sun., C
Metropolitan Auditions, 3 p.m. Sun., R
Metropolitan Opera, 2 p.m. Sat., B
General Motors Concert, 10 p.m. Sun., R

New York Philharmonic, 3 p.m. Sun., C
Pittsburgh Symphony, 2 p.m. Sun., C
Radio City Music Hall, 12:30 p.m. Sun., B
Don Voorhees, 8 p.m. Wed., C

DANCE BANDS

Victor Arden, 8 p.m. Fri., C; 1:30 p.m. Sun., R

Ben Bernie, 9:00 p.m. Tues., B
 Bunny Berigan, 6:45 p.m. Sat., C
 Ray Block, 10:30 p.m. Mon., R
 Oscar Bradley, 7:30 p.m. Sun., C
 Jimmie Dorsey, 10 p.m. Thurs., R
 Tommy Dorsey, 9:30 Mon., B
 Shep Fields, 9:15 and 11:30 p.m. Sun., B
 Lud Gluskin, 10:30 Sat., C
 Al Goodman, 9 and 11:15 p.m. Thurs., R
 Benny Goodman, 9:30 and 11:30 p.m. Tues., C
 Johnny Green, 9:30 p.m. Tues., R
 Jimmy Grier, 6 p.m. Sun., C
 Gus Haenschen, 9:30 p.m. Sat., C
 Horace Heidt, 8 p.m. Mon., C
 Richard Himber, 9:30 p.m. Mon., R
 Arnold Johnson, 5 p.m. Sun., M
 Hal Kemp, 8:30 and 11:30 p.m. Fri., C
 Henry King, 8:30 and 11:30 p.m. Wed., C
 Wayne King, 8:30 p.m. Tues. and Wed., R. 10 p.m. Mon., C
 Andre Kostelanetz, 9 p.m. Wed., C
 Benny Krueger, 8:30 and 11:30 p.m., Mon., C
 Guy Lombardo, 5:30 Sun., C
 Vincent Lopez, 9 p.m. Sat., C
 Abe Lyman, 8:30 p.m. Mon., B. 9 p.m. Fri., R
 Ozzie Nelson, 7:30 Sun., B
 Raymond Paige, 9 p.m. Fri., C
 Leo Reisman, 8 and 11:30 p.m. Tues., R
 Jacques Renard, 8:30 and 11 p.m. Sun., C
 Joe Rines, 11:30 a.m. Sun., B
 Buddy Rogers, 9:30 p.m. Fri., B
 Harry Saltzer, 10 p.m. Sat., C
 Andy Sanelle, 9 p.m. Sun., R
 Harry Sosnik, 10 p.m. Wed., R; 10 p.m. Sun., B
 Rudy Vallee, 8 p.m. Thurs., R
 Peter Van Steeden, 9 p.m. Wed., R
 Don Voorhees, 5:30 p.m. Sun., and 8 p.m. Sat., B
 Victor Young, 8:30 and 11:30 p.m. Tues., C

DIALOG

Fred Allen, 9:00 Wed., R
 Amos 'n' Andy, 7 and 11 p.m. daily except Sat. and Sun., R
 Phil Baker, 7:30 p.m. Sun., C
 Jack Benny, 7 and 11:30 p.m. Sun., R
 Milton Berle, 10 p.m. Sun., C
 Bob Burns, 10:00 Thurs., R
 Burns and Allen, 8:30 and 11:30 p.m. Wed., C
 Charles Butterworth, 9:30 Tues., R
 Eddie Cantor, 8:30 and 11 p.m. Sun., C
 Irvin S. Cobb, 10:30 p.m. Sat., R
 Easy Aces, 7 p.m. Tues., Wed., Thurs., B
 Ray Knight, 5 p.m. Sun., M
 Beatrice Lillie, 8 p.m. Wed., B
 Fibber McGee and Molly, 8 p.m. Mon., R
 Lum and Abner, 7:30 p.m. daily except Sat. and Sun., B
 Jack Oakie, 9:30 p.m. Tues., C
 Jack Pearl, 9:30 p.m. Mon., B
 Joe Penner, 6 p.m. Sun., C
 Pick and Pat, 8:30 and 11:30 p.m. Mon., C
 Pompey the Sailor, 7:15 Mon., Wed., Fri., C
 Sid Silvers, 8:30 and 11:30 p.m. Tues., C
 Stoopnagle and Budd, 5:30 p.m. Sun., B
 Uncle Ezra's Radio Station, 7:15 Mon., Wed., Fri., R
 Ed Wynne, 8 p.m. Sat., B

DRAMA

Ethel Barrymore, 8:30 p.m., Wed., B
 Death Valley Days, 8:30 p.m. Fri., B
 First Nighter, 10 p.m. Fri., R
 Gang Busters, 10 p.m. Wed., C
 Grand Hotel, 3:30 p.m. Sun., R
 Helen Hayes, 8:00 Mon., B
 Hollywood Hotel, 9 p.m. Fri., C
 Warden Lawes, 9 p.m. Mon., R
 Log Cabin Ranch, 8 p.m. Tues., B
 Phillips Lord, 10 p.m. Wed., C
 Lux Radio Theater, 9 p.m. Mon., C
 Ma and Pa, 7:15 p.m. Tues., Thurs., Sat., C
 News of Youth, 6:15 p.m. Mon., Wed., Fri., C
 One Man's Family, 8 p.m. Wed., R
 Renfrew of the Mounted, 6:45 and 11:15 p.m. Mon. thru Fri., C

Irene Rich, 8 p.m. Fri., B
 Snow Village Sketches, 9 p.m. Sat., R
 Tale of Today, 6:30 p.m., Sun., R
 True Story Court, 9:30 p.m. Fri., R
 Welcome Valley, 8:30 p.m. Tues., B
 Your Unseen Friend, 5 p.m. Sun., C

POPULAR PROGRAMS

A & P Bandwagon, 8 p.m. Thurs., C
 Album of Familiar Music, 9:30 p.m. Sun., R
 Armo Band, 10 p.m. Tues., B
 Major Bowes, 11:30 a.m. Sun. and 9 p.m. Thurs., C
 Broadway Merry-go-Round, 8 p.m. Wed., B
 Broadway Varieties, 8:00 p.m. Fri., C
 Carborundum Band, 7:30 p.m. Sat., C
 Cavalcade of America, 8 p.m. Wed., C
 Chesterfield Program, 9 p.m. Wed., C
 Cities Service Concert, 8 p.m. Fri., R
 Contented Program, 10 p.m. Mon., R
 Cook's Travelogues, 2:45 p.m. Sun., C
 Do You Want to be an Actor? 8 p.m. Sun., R
 Community Sing, 10 p.m. Sun., C
 Fireside Recitals, 7:30 p.m. Sun., R
 Fleischmann Variety Hour, 8 p.m. Thurs., R
 Hammerstein's Music Hall, 9 p.m. Tues., C
 Hit Parade, 10 p.m. Wed. Wednesday; 10 p.m. Sat., C
 Hollywood Hotel, 9 p.m. Fri., C
 Husbands and Wives, 9:30 p.m. Tues., B
 Krueger Musical Toast, 10:30 p.m. Mon., R
 Magic Key of RCA, 2 p.m. Sun., B
 Manhattan Merry-Go-Round, 9 p.m. Sun., R
 March of Time, 10:30 p.m. Thurs., C
 Maxwell House Show Boat, 9 p.m. Thurs., R
 Melody Matinee, 1:30 p.m. Sun., R
 National Barn Dance, 9:00 and 11:30 p.m. Sat., B
 Packard Hour, 9:30 p.m. Tues., R
 Sears, Then and Now, 10 p.m. Thurs., C
 True Adventures, 10 p.m. Thurs., C
 Vick's Open House, 8 p.m. Sun., C
 Voice of Firestone, 8:30 p.m. Mon., R
 Vox Pop, 9 p.m. Tues., R
 Waltz Time, 9 p.m. Fri., R
 We, The People, 5 p.m. Sun., B

SINGERS

Fred Astaire, 9:30 p.m. Tues., R
 Gene Austin, 6 p.m. Sun., C
 Kenny Baker, 7 and 11:30 p.m., Sun., R
 Natalie Bodany, 8:30 p.m. Mon., B
 Morton Downey, 1:30 p.m. Sun., R; 11:30 a.m. Sun., B; 9:30 p.m. Mon., B
 Bobby Breen, 8:30 and 11 p.m. Sun., C
 Rachel Carlay, 9 p.m. Sun., R
 Bernice Claire, 9 p.m. Fri., R
 Nadine Conner, 8 p.m. Sun., C
 Jerry Cooper, 10:30 p.m. Mon., R
 Mario Cozzi, 7:15 p.m. Fri., B
 Vivian Della Chiesa, 10 p.m. Mon., R
 Edith Dick, 10 p.m. Sat., C
 Muriel Dickson, 1:30 p.m. Sufh., R
 Jessica Dragonette, 8 p.m. Fri., R; 9:30 p.m. Wed., C
 Phil Ducey, 8 and 11:30 p.m. Tues., R; 8:30 Sat., C
 Deanna Durbin, 8:30 and 11 p.m. Sun., C
 Nelson Eddy, 8 p.m. Sun., C
 Jack Fulton, 7 and 11 p.m. Mon. through Thurs., C
 Wendell Hall, 10 p.m. Sun., C
 Harriet Hilliard, 7:30 Sun., B
 Helen Jepson, 9 and 11:15 p.m. Thurs., R
 Al Jolson, 8:30 and 11:30 p.m. Tues., C
 Elizabeth Lennox, 8:00 p.m. Fri., C
 Helen Marshall, 7:30 p.m. Sun., R
 Tony Martin, 8:30 and 11:30 p.m., Wed., C
 Ed McConnell, 5:30 p.m. Sun., R
 Lucy Monroe, 9:30 p.m. Sun., R
 Morin Sisters, 7:45 and 11 p.m. Sun., R
 Willie Morris, 4:30 p.m. Sun., R
 Frank Munn, 9:30 p.m. Sun. and 9 p.m. Fri., R; 8:30 Mon., B
 Frank Parker, 9:15 and 11:30 p.m. Sun., B
 Jan Peerce, 6:30 p.m. Sun., C
 Carmella Ponselle, 8:00 p.m. Fri., C

Virginia Rea, 6:30 p.m. Sun., C
 Martha Raye, 8:30 and 11:30 p.m. Tues., C
 Lanny Ross, 9 p.m. Thurs., R
 Singin' Sam, 8:15 Fri., B
 Sally Slinger, 10:30 p.m. Mon., R
 Kate Smith, 8 p.m. Thurs., C
 Margaret Speaks, 8:30 and 11:30 p.m. Mon., R
 Marlon Talley, 10 p.m. Fri., R
 Tastyeast Jesters, 7:15 Tues., Wed., Thurs., B
 Conrad Thibault, 9:30 p.m. Tues., R
 Kay Thompson, 8:30 and 11:30 Fri., C
 Trudy Woods, 9:30 p.m. Tues., R

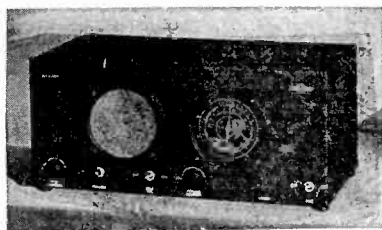
TALKS

Boake Carter, 7:45 p.m. Mon. thru Fri., C
 Jimmy Fidler, 10:30 p.m. Tues., R
 Floyd Gibbons, 9 p.m. Sat., C; 10 p.m. Thurs., C
 Eddie Guest, 8:30 p.m. Tues., B
 Edwin C. Hill, 10 p.m. Sun., B
 Bob Ripley, 7:30 Sun., B
 Sidewalk Interviews, 9 p.m. Tues., R
 Lowell Thomas, 6:45 p.m. Mon., thru Fri., B
 Trans-Atlantic Broadcast, 12:45 p.m. Sun., C
 Walter Winchell, 9 and 11:15 p.m. Sun., B
 Alexander Woolcott, 7:30 p.m. Tues. and Thurs., C

Mystery Contest

(Continued from Page 10)

place prizes of more RADEX subscriptions to the contestants who finish 50, 100, 150, etc., in the final standings. It may just happen that the DXer who winds up in last place will get one of these prizes, so we can really say that everyone has a chance to win an award.



The Sky Buddy model of the Hallcrafters receiver, a 5-tube set tuning from 540 to 16,000 kcs. This very efficient all-wave set will go to some lucky contestant in our Mystery competition.

We appreciate the comments and suggestions from readers which enabled us to smooth out the rough spots of the previous contest. We can't say enough in appreciation for the co-operation of the stations and the manufacturers who have made the contest possible.

We've had a lot of fun planning this year's contest and making the necessary preparations. We have seen our work bring in definite results and we are sure that the outcome is going to appeal to those who take part in the big event.

SHORT WAVE STATIONS BY FREQUENCIES

Part II (6,000 meg. to 400,000 meg.)

Frequencies are given in megacycles per second. Power is given in parentheses in kilowatts and decimals thereof. In our indices we show assigned frequencies. Actual frequencies on which stations are heard, when differing from those assigned, are shown in parentheses in kilocycles.

Abbreviations:

Ann: Announces
Add: Address
Int: Interval signal
s/o: Sign on and sign off
(*): Will not verify
Tr: Transmitter

NA: North America
SA: South America
CA: Central America
NYC: New York City
Aptdo: Apartado (Box No.)

- | | |
|---|---|
| <p>6.000 XEBT, Mexico City, D. F. (1.) Add: Aptdo 79-44.</p> <p>6.005 CFCX, Montreal, P. Q. (.075). Relays CFCF. Add: Canadian Marconi Co., Ltd., Box 1690.</p> <p>HP5K, Colon, Panama. "La Voz de la Victor." Add: Aptdo 33.</p> <p>VE9DN, Montreal, P. Q. Relays CFCF Irreg. See CFCX 6005 kcs.</p> <p>6.010 CJCX, Sydney, N. S. (1.) Relays CJCB. Add: N. Nathanson</p> <p>COCO, Havana, Cuba. (.3) Add: Box 98.</p> <p>VP3MR, Georgetown, British Guiana. (5980; 5975; 6017)</p> | <p>6.012 HJ3ABH, Bogota, Colombia. (1.2) "La Voz de la Victor." Same call on ECB. s/o: "Russian Lullaby." Add: Aptdo 565</p> <p>6.015 H13U, Santiago de los Caballeros, D. R. (.025) (6017) "La Voz del Comercio." Add: Sr. F. Bertran</p> <p>XEWI, Mexico City, D. F. (.4).</p> <p>6.018 ZHI, Singapore, Straits Settlements. (.09). Add: 2 and 4 Orchard Road.</p> <p>6.020 DJC, Berlin, Germany. (8.) Tr: Zeesen. Int: Music box tune. s/o: Two national anthems. Add: Reichs-Rundfunk-Gesellschaft, Haus des Rundfunk,</p> |
|---|---|

SHORT WAVE STATIONS BY FREQUENCIES

- Masurenallee, Berlin-Charlottenburg 9.
- XEUW**, Veracruz, Ver. (.02). "El Eco de Sotavento desde Veracruz." Int: "Las Colondrinas." Three cents USA postage for veri. Add: Independencia 98.
- 6.025 **HJ1ABJ**, Santa Marta, Colombia. (.05) "La Voz de Santa Marta."
- 6.030 **HJ4ABP**, Medellin, Colombia. (1.) (6033) "Radio Philco".
- HP5B**, Panama City, Panama. (1) Add: Aptdo 910.
- 6.040 **PRAS**, Pernambuco, Brazil. (3.) "A Voz do Norte." Add: Av. Cruz Cabuga 394.
- W1XAL**, Boston, Mass. (10.) "Dedicated to Enlightenment." Add: University Club.
- W4XB**, Miami, Fla. (5.). Relays **WIOD**. Add: Isle of Dreams Brdcastg. Corp.
- YDA**, Tandjong Priok, Java, N.E.I. (10.) s/o: "End of a Perfect Day." This is the Key Station for the **NIROM** Network.
- 6.042 **HJ1ABC**, Barranquilla, Colombia. (.15) "Emisora Atlantico". Same call on **BCB**. Add: Aptdo 445.
- 6.045 **XETW**, Mexico City, D. F. "La Voz del Aguila Azteca desde Mexico." Add: Aptdo 8403.
- 6.050 **GSA**, London, Gt. Britain. (20.). "A for Aerial." Tr: Daventry. Int: Bow Bells; time signal on even hours; Big Ben strikes hours irreg. preceded by Westminster Chimes. s/o: God Save the King. Add: British Broadcasting Corp., London W1.
- XEXF**, Mexico City, D. F. (.6). Secretaria de Economia."
- 6.055 **HJ3ABD**, Bogota, Colombia (.05). "Colombia Broadcasting." Add: Aptdo 509.
- 6.060 **VQ7LO**, Nairobi, Kenya. Cable and Wireless, Ltd.. Box 777.
- W3XAU**, Philadelphia, Pa. (10.) Relays **CBS-WCAU**. Add: 1622 Chestnut St.
- W8XAL**, Cincinnati, Ohio. (10.) Tr. Mason. Relays **WLW-NBC**. Add: Crosley Radio Corp., 1329 Arlington St.
- 6.070 **CFRX**, Toronto, Ont. (1.). Relays **CFRB**. Add: Rogers-Majestic Corp.
- HJ3ABF**, Bogota, Colombia. (.05) (6068; 6073). "La Voz de Bogota." Ann: Estacion HKF. s/o: "Song of the Islands."
- VE9CS**, Vancouver, B. C. (.01) Relays **CKFC**. Add: 1001 Stock Exchange Bldg.
- YV1RD**, Maracaibo, Venez. (6075). "Radio-difusora Maracaibo." Relays **YV1RE**.
- 6.075 **XEBW**, Guadalajara, Jal. (.045). Ramon Loreto.
- 6.080 **DJM**, Berlin, Germany. See **DJC** 6.020 megs.
- HP5F**, Colon, Panama. (6074; 6078)
- W9XAA**, Chicago, Ill. (20.) "The Voice of Labor." Tr: York Township. Relays **NBC-WCFL**. s/o: English, French, German, Norwegian, Polish, Russian, Spanish. This transmitter uses aerial directed to Central Europe. Add: Chicago Federation of Labor, 666 Lake Shore Drive.
- ZHJ**, Penang, Straits Settlements. (.049). "J for Jubilee".
- 6.085 **HJ5ABD**, Cali, Colombia. "La Voz del Valle." Aptdo 270.
- 6.090 **CRCX**, Toronto, Ont. (1.) Relays **CRC-CRCT HJ4ABC**, Ibaguë, Colombia, "Ecos de Combeima."
- VE9BJ**, St. John, N. B. (.05) Admiral Beatty Hotel.
- ZBW2**, Hong Kong. (2.4). Add: Box 200.
- 6.095 **JZH**, Nazaki, Japan.
- 6.097 **HJ4ABE**, Medellin, Colombia. (1.) "La Voz de Antioquia." Relays **HJ4ABK**. Int: 3 chimes precede ann. Add: Emisora 4ABE.
- 6.100 **W3XAL**, New York, N. Y. (20.). Tr.: Bound Brook, N. J. Relays **NBC-WJZ**. Ann: Eng., French, German, Italian and Spanish. s/o: "The Star Spangled Banner." Add: NBC, Rockefeller Plaza, NYC.
- W9XF**, Chicago, Ill. (5.) Tr: Downers Grove. Relays **NBC-WENR**. Add: NBC, Inc., Merchandise Mart.
- Belgrade, Yugo-Slavia. (1.) "Radio Beograd".
- 6.108 **HJ4ABB**, Manizales, Colombia. "Radio Manizales."
- 6.110 **GSL**, London, Gt. Britain. "L for Liberty." See **GSA** 6.050 megs.
- 6.115 **HJ1ABB**, Barranquilla, Colombia. (.3) (6447). "La Voz de Barranquilla." Relays **HJ1ABA**. Int: 3 chimes. Add: Aptdo 715
- XECU**, Guadalajara, Jal.
- Prague, Czechoslovakia. (35.) See 15.230 megs.
- 6.120 **W2XE**, New York, N. Y. (10.). Tr: Wayne, N. J. Relays **CBS-WABC** s/o: "The Star Spangled Banner."
- XEFT**, Veracruz, Ver. (.012). Jose Rodriguez Lopez.
- XETW**, Mexico City, D. F.
- YDAS**, Bandoeng, Java, N.E.I. (1.5). Add: **NIROM** (N. J. Nederlandsche Indische Radio Omroep Moatschappij), Tegallengah 0.23, Bandoeng.
- 6.122 **HJ3ABX**, Bogota, Colombia. "La Voz de Colombia." Same call on **BCB**.
- 6.125 **CXA4**, Montevideo, Uruguay. (1.) Add: Martin Fierro 2603.
- 6.130 **COCD**, Havana, Cuba. (.35). "La Voz del Aire." Int: 4 chimes. Relays **CMCD**. s/o: "Good Night Waltz." Add: Calle 25 y "G", Vedado.
- VE9HX**, Halifax, N. S. Add: Box 998.
- VP3BG**, Georgetown, British Guiana.
- 6.138 **HJ4ABD**, Medellin, Colombia. "La Voz de Catia." Also works on 5.760 and 5.930 megs.
- 6.140 **W8XK**, Pittsburgh, Pa. (40.). Tr: Saxonburg. "The World's Pioneer Radio Station." Relays **NBC-KDKA**. Add: Grant Bldg.
- 6.145 **HJ4ABU**, Pereira, Colombia. "La Voz de Pereira."
- 6.150 **CB615**, Santiago de Chile. "Radiodifusora Pilot." s/o: "Rhapsody in Blue." Add: Cia Internacional de Radio, Casilla 16-D.

SHORT WAVE STATIONS BY FREQUENCIES

- CJRO, Winnipeg, Man. (2.). James Richardson & Sons, 157 Royal Alexandra Hotel.
- 6.153 H15N, Santiago, D. R. (1). Sr. M. Smester.
- 6.156 YV5RD, Caracas, Venez. "Radiodifusora Venez." Relays YV5RB.
- 6.160 VPB, Colombo, Ceylon, (.3). Add: Central Telegraph Office.
- 6.182 XEXA, Mexico City, D. F. (6174). Relays XEXM. S/o: "March of the Toys." Add: Secretaria de Educacion Publica.
- 6.190 H11A, Santiago de los Caballeros, D. R. (.05). "La Voz del Yaque."
- 6.200 COKG, Santiago de Cuba, (.05). "Ask for Bacardi." Relays CMKG. Add: Sres. Grau y Caminero, Aptdo 137.
- XEXS, Portable and Mobile in Mexico. (1). Departamento de Salubridad Publica.
- 6.235 HRD, La Ceiba, Honduras. (.25). "La Voz de Atlantida."
- 6.243 H1N, Trujillo, D. R. (.75). S/o: National anthem. Add: Aptdo 604.
- 6.250 YV5RJ, Caracas, Venezuela. "La Voz de la Esfera." Relays YV5RI.
- 6.260 OAX4G, Lima, Peru. Relays OAX4B. Add: R. Grellaud y Cia.
- 6.270 YV5RP, Caracas, Venez. "La Voz de Philco." Relays YV5RQ.
- 6.280 COHB, Sancti-Spiritus, Cuba. (.15) (6281). Relays CMHB. Add: Aptdo. 85.
- HIG, Trujillo, D. R. (.05). Int: a bawling calf. Add: A. Cordero P.
- 6.300 YV4RD, Maracay, Venezuela. "La Voz de Araqua." Relays YV4RG.
- 6.315 H1Z, Trujillo, D. R. (1). "La Voz de los Muchachos." Add: Calle Duarte No. 68.
- 6.340 H1X, Trujillo, D. R. (.5).
- 6.345 YV1RG, Valera, Venezuela. "Radio Valera."
- 6.358 HkP1, San Pedro Sula, Honduras.
- 6.360 YV1RH, Maracaibo, Venezuela. "Ondas del Lago, Emisora Philco." Relays YV1RF.
- 6.380 YV5RF, Caracas, Venezuela. "Ecos del Caribe." Relays YV5RE.
- 6.385 WO9, Mitchell Field, L. I., N. Y. Army airport.
- 6.400 YV5RH, Caracas, Venezuela. "Ondas Populares." Relays YV5RG. Add: Aptdo 1931.
- 6.410 TIPG, San Jose, Costa Rica. (1). "La Voz de la Victor." Add: Aptdo 224.
- 6.420 H11S, Santiago de los Caballeros, D. R. (.02).
- 6.425 W2XGB, Hicksville, N. Y. (5.). Press Wireless, Inc.
- W3XL, New York, N. Y. (100.). Tr: Bound Brook, N. J. NBC control station and cue station for nearly all special broadcasts. Add: NBC, 30 Rockefeller Plaza, NYC.
- W9XB5, Chicago, Ill.
- W9XF, Chicago, Ill. (2.5). Tr: Downers Grove. Cue station. Add: NBC, Merchandise Mart.
- 6.440 KUP, San Francisco, Calif. Press at 0300 GMT.
- 6.477 H14V, San Francisco de Macoris, D. R. (.025). "La Voz de la Marina".
- 6.479 H18A, Trujillo, D. R.
- 6.490 Aeronautical point-to-point stations, Purple Chain: See 2.644 megs.
- 6.500 H1L, Trujillo, D. R. (.05). YV1RM, Maracaibo, Venezuela. "Radiodifusora Maracaibo." Relays YV1RN.
- 6.510 Aeronautical point-to-point, Blue Chain: See 2.720 megs.
- 6.520 YV4RB, Valencia, Venez. "La Voz de Carabobo." Relays YV4RA. Add: Sres. Hermann y Williams Degwitz. Aeronautical point-to-point, Blue Chain: See 2.720 megs.
- 6.530 Aero. point-to-point, Blue Chain: See 2.720 megs.
- 6.534 EDR4, Palma, Majorca, Balearic Islands. (6565; 6583).
- 6.540 YN1GG, Managua, Nicaragua. Aero. point-to-point, Brown Chain: See 2.612 megs.
- 6.545 YV6RB, Bolivar, Venezuela. "La Voz de Ciudad." Relays YV6RA.
- 6.550 Aeronautical point-to-point, Brown Chain: See 2.612 megs.
- 6.555 H14D, Trujillo, D. R. (.025). "La Voz de Quisqueya."
- 6.560 Aero. point-to-point, Brown Chain. See 2.612 megs.
- 6.570 Aircraft, Orange Chain. See 2.648 and 2.870 megs.
- 6.580 Aero. point-to-point, Orange Chain. See 2.648 megs.
- 6.590 Aeronautical Green Chain. See 2.608 and 2.854 megs.
- 6.600 Aero. point-to-point. Green Chain. See 2.608 megs.
- 6.615 Aeronautical: See 2.930 megs.
- 6.620 PRADO, Rio Bamba, Ecuador. (6618; 6625). "Estacion El Prado." Ann: Sometimes by a lady, Srta. Judy. Add: Aptdo 98.
- 6.630 HIT, Trujillo, D. R. (2). "La Voz de la RCA-Vuarty." Add: Aptdo 1105.
- 6.635 HC2RL, Guayaquil, Ecuador. (6650; 6667). "Quinta Piedad." Add: Aptdo 759.
- 6.662 WXH, Ketchikan, Alaska. Phones Seattle.
- 6.672 YVQ, Maracay, Venez.
- 6.688 TIEP, San Jose, Costa Rica. "La Voz de los Isthmo". Add: Aptdo 257.
- 6.720 CFU, Rossland, B. C. Consolidated Mining & Smelting Co. of Canada, Ltd.
- PMH, Bandoeng, Java, N.E.I. (1.5). See YDA5 6.120 megs.
- 6.730 H13C, La Romana, D. R. "La Voz de la Feria."
- 6.750 JVT, Nazaki, Japan. (20.) Works U.S.A.
- 6.755 WOA, Lawrenceville, N. J. (*) Works London nights.
- 6.762 TDA, Shinkio, Manchukuo. (20.). Works San Francisco. Add: Manchukuo Telegraph and Telephone Co., Ltd.
- 6.775 H1H, San Pedro de Macoris, D. R. (.15). "La Voz de Higuamo."
- 6.785 WFD, New Orleans, La. Press in winter.
- 6.800 H17P, Trujillo, D. R. (frequency drifts).
- 6.820 XGOX, Nanking, China. (.5).
- 6.860 KEL, Bolinas, Calif. (*). Works Manila.
- 6.905 GDS, Rugby, Gt. Britain. (15.) Works NYC nights. See GBW 14.400 megs.
- 6.950 GBY, Rugby, Gt. Britain. Works NYC irreg. See GBW 14.400 megs.
- 7.000 PZH, Paramaribo, Surinam.
- 7.000 to 7.300 megs. Amateurs. United States and Canada use code only in this band. Most other countries use voice.
- 7.080 VP3MR, Georgetown, British Guiana. "The Voice of Guiana."
- 7.100 FO8AA, Papeete, Tahiti (2). Radio Club Oceanian.

SHORT WAVE STATIONS BY FREQUENCIES

- 7.180 **YNAM**, Managua, Nicaragua. "La Voz del Pacifico."
- 7.380 **XECR**, Mexico City, D. F. (20.). Ann: English and Spanish. Add: Departamento de Publicidad de la Secretaria de Relaciones Exteriores.
- 7.520 **HCK**, Quito, Ecuador.
KKH, Kahuku, Hawaii. (*). Phones Bolinas.
 Lawrenceville, N. J. (20.) (*). Works London.
- 7.565 **KWY**, Dixon, Calif. (*).
 Lawrenceville, N. J. (20.) (*). Works London and Paris.
- 7.570 **TDG**, Shinkio, Manchukuo. Works Berlin. Manchukuo Telegraph & Telephone Co., Ltd.
- 7.610 **KWX**, Dixon, Calif. (40.) (*).
 7.620 **IUB**, Addis Ababa, Ethiopia.
 7.700 Aeronautical point-to-point, daytime operation only, Brown Chain. See 2,612 mgs.
- 7.715 **KEE**, Bolinas, Calif. (40.) (*).
 7.797 **HBP**, Geneva, Switzerland. (20.) "Radio Nations." Tr: Frangins. Add: M. G. Gallarati, Information Section, League of Nations.
- 7.850 **HC2JSB**, Guayaquil, Ecuador. "Ecuador Radio." Int: one gong. Add: Juan S. Behr.
- 7.920 **GDP**, Rugby, Gt. Britain. Works Australia. See GBW 14,440 mgs.
- 7.968 **HSJ**, Bangkok, Siam. Post & Telegraph Dept.
 7.970 **XGL**, Shanghai, China.
 8.015 Aeronautical point-to-point, daytime operation only, Blue Chain: See 2,730 mgs.
- 8.050 **WXA**, Juneau, Alaska. Works WVD at 2400 EST.
 8.070 Aero. point-to-point, Yellow Chain. See 2,640 mgs.
 8.075 **WEZ**, Rocky Point, N. Y. (W2XBJ) (*). Works Paris.
 8.095 **VLK**, Sydney, Australia.
 8.130 Aero. point-to-point, daytime operation only: Green Chain, see 2,608 mgs. Purple Chain, see 2,644 mgs.
- 8.220 **Aircraft**, Orange Chain. See 2,648 and 2,870 mgs. Clipper Service, see 2,986 mgs.
- 8.360 **WHD**, New York, N. Y. Press at 0600 GMT.
 8.370 **KFS**, Palo Alto, Calif. Press at 0600 GMT.
 8.430 **WSC**, Tuckerton, N. J. Press at 0415 GMT.
 8.500 **YNLG**, Managua, Nicaragua. (.5). "Nicaragua Patria de Dario."
- 8.560 **WOO**, Ocean Gate, N. J. (20.) (*). Phones Ships. "Cast" frequency.
- 8.600 **HPF4**, Panama City, Panama. Works Hialeah nights.
- 8.620 **WVD**, Seattle, Wash. Works Alaska at 2400 EST. Alaskan Telephone Co., 517 Federal Office Bldg.
- 8.630 **VOWQ**, Northwest River, Labrador.
 8.665 **COJQ**, Camaquey, Cuba. (2.4). Add: Calle Gnrl. Gomez 4.
 8.680 **GBC**, Rugby, Gt. Britain. Works Ships Days. See GBW 14,440 mgs.
- 8.690 **VWZ**, Kirkee, Poona, India. (10.). Assigned 8691, 8693, 8700 and 8708 kcs. also. Phones London. Add: Indian Radio & Cable Communication Co., Poona 6.
- 8.710 **KBB**, Manila, Philippine Isl. (*).
 8.720 **VPD3**, Suva, Fiji. "Radio Suva." s/o: "God Save the King." Add: Amalgamated Wireless (A/sia) Ltd.
- 8.740 **WXV**, Fairbanks, Alaska.
 8.770 **ICEJ**, S. S. Rex. Works IAC and WOO. Add: Italian Lines, 1 State St., NYC.
 8.798 **HKV**, Bogota, Colombia. Add: Ministerio de Guerra.
- 8.810 **FNSK**, S. S. Normandie. Works Paris nights. Add: French Lines, Pier 88, North River, Foot of W. 48th St., NYC.
IBLI, S. S. Conte di Savoia. Works IAC and WOO. See ICEJ 8,770 mgs.
- 8.830 **British Ships**. Work GBC and WOO. Add: International Marine Radio, Connaught House, 63 Aldwych, London WC2.
GBTW, R. M. S. Queen Mary.
GBZ, S. S. Berengaria.
GDJL, S. S. Homeric.
GFVV, S. S. Majestic.
GLRZ, S. S. Aquitania.
 French Ships. For address see FNSK 8,810 mgs.
FNSK, S. S. Normandie. Works WOO nights.
FNSM, S. S. Paris.
FNTQ, S. S. Ile de France.
Furness-Bermuda Lines. Work ZFA-B and WOO. (*).
VQJM, S. S. Monarch of Bermuda.
VQJP, S. S. Queen of Bermuda.
 German Ships. See 4,413 mgs.
DBBR, S. S. Berlin.
DDCP, S. S. Cap Polonia.
DDFF, S. S. Reliance.
DDFT, S. S. Oceana.
DHAO, S. S. Hansa.
DHDL, S. S. Cap Arcona.
DHEY, S. S. Deutschland.
DHJZ, S. S. Hamburg.
DHRL, S. S. New York.
DOAH, S. S. Bremen.
DOAI, S. S. Europa.
- 8.840 **ZMBJ**, M. V. Amatea. Phones Australia and New Zealand. Add: United S.S. Co., Auckland, N. Z.
- 8.948 **HCJB**, Quito, Ecuador. (.15) "La Voz de los Andes." Int: 4 strokes on gong. Add: Casilla 691.
- 9.010 **KEJ**, Bolinas, Calif. (*).
 9.020 **GCS**, Rugby, Gt. Britain. (15.). Phones NYC nights. See GBW 14,440 mgs.
- 9.040 **TYA2**, Pontoise, France. (10.). Works Algeria and ships. Add: Service de la T.S.F., 5 Rue Froideveaux, Paris XIV.
- 9.045 **VWY**, Kirkee, Poona, India. Add: See VWZ 8,690 mgs.
- 9.050 **NPO**, Cavite, Philippine Isl. Time signals at 1255 GMT.
- 9.125 **HAT4**, Budapest, Hungary. (20.). "Justice for Hungary." Tr: Szekesfehervar. Ann: English, French, Hungarian, usually by lady. s/o: National anthem. Add: Radiolabor, Kiserleti Allomasa, Budapest IX, Gyali-ut 22.
- 9.168 **YVR**, Maracaq, Venezuela.
 9.250 **NAA/NSS**, Arlington, Va. Time signals at 0955 and 2155 EST.
- 9.280 **GCB**, Rugby, Gt. Britain. (15.). Works Canada nights. See GBW 14,440.
- 9.310 **Aircraft**, Orange Chain: See 2,648 mgs.
 9.332 **CGA4**, Drummondville, P. Q. Phones London. See CFCX. 6,005 mgs.
- 9.350 **HS8PJ**, Bangkok, Siam. Ann: "Happiness Siam Eight Progress Jubilee." Int: 3 chimes. Add: Post and Telegraph Dept.
- 9.415 **PLV**, Bandoeng, Java, N.E.I. (80.). Governements Radio-Dienst.
- 9.425 **NAA/NSS**, Arlington, Va. Time signals at 0055, 0155, 0255, 0355, 0755, 1155, 1355, 1555, 1755, 1855, 2355 EST.
- 9.428 **COCH**, Havana, Cuba. (.15). General Electric Co. of Cuba, No. 2 "B" St., Vedado.
- 9.448 **WES**, Rocky Point, N. Y. (*).
 9.450 **TGWA**, Guatemala City, Guat. (.2). "Radio Nacional". Relays TGW. Add: Ministerio de Fomento.

SHORT WAVE STATIONS BY FREQUENCIES

- 9.460 **ICK**, Tripoli. (2.).
WKJ, New Brunswick, N. J. (*).
XEFT, Veracruz, Ver. (.02). "La Voz de Veracruz," Add: Av. Independencia 28.
XGOX, Nanking, Kian-su, China. (.5).
- 9.470 **WET**, Rocky Point, N. Y. (*). Works SA irreg.
- 9.475 **EAH**, Madrid, Spain. Ann: UGT1. (UGT for Union General de Tranajadores Network).
- 9.480 **KES**, Bolinas, Calif. (*)
XEDQ, Guadalajara, Jal. Int: 4 chimes in descending scale. Relays **XED**. Add: Apto 197.
- 9.490 **OXY**, Copenhagen, Denmark.
XTV, Canton, China.
- 9.500 **VK3ME**, Melbourne, Australia (5.). Tr: Braybank. Add: Amalgamated Wireless (A/sia) Ltd., Box 1272L, Elizabeth St. P. O.
HJ1ABE, Cartagena, Colombia. (.18). "La Voz de los Laboratorios Fuentes." Add: Apto 31.
PRF5, Rio de Janeiro, Brazil. (60.). "A Vox do Brasil." Add: Cia. Internacional do Brasil, Box 709.
- 9.510 **GSB**, London, Gt. Britain. (20.). "B for Broadcasting." See GSA 6.050 megs.
HJU, Buenaventura, Colombia. National Railroads of Colombia.
- 9.520 **HJ4ABH**, Armenia, Colombia. "La Voz de Armenia." Relays **HJ4ABN**.
XEME, Merida, Yuc. (.015). Fernando Ponce Camera.
- 9.525 **ZBW3**, Hong Kong. (24.). Add: Box 200.
9.530 **WZKAF**, Schenectady, N. Y. (40.). Relays **NBC-WGY**. Programs commence with electrical discharge of 10,000,000 volts. Add: The General Electric Co.
- 9.535 **JZI**, Tokyo, Japan.
9.540 **DJN**, Berlin, Germany. See **DJB** 15.200 megs.
LKJ1, Jeloy, Norway. (1.).
VPD2, Suva, Fiji. "Radio Suva." s/o: "God Save the King".
- 9.560 **DJA**, Berlin, Germany. (.8.). See **DJB** 15.200 megs.
HJ1ABB, Barranquilla, Colombia. (.3) (Daytime only). "La Voz de Barranquilla." Relays **HJ1ABA**. Add: Apto 715.
- 9.565 **VUB**, Bombay, India. (4.5). Add: All India Radio, Irwin House, Sprott Road, Ballard Estate.
YV3RB, Caracas, Venezuela. "La Voz de Lara".
- 9.570 **W1XK**, Boston, Mass. (10.) (*) Tr: Millis. Relays **NBC-WBZ-WBA**.
- 9.575 **HJ2ABC**, Cucuta, Colombia. (.25). "La Voz de Cucuta."
- 9.580 **GSC**, London, Gt. Britain. (20.). "C for Corporation." See GSA 6.050 megs.
3LR, Melbourne, Australia. Tr: Lyndhurst.
- 9.585 **VK2ME**, Sydney, Australia. (20.). "The Voice of Aust." Tr: Pennant Hills. Int: Laughing notes of kookaburra. Add: Amalgamated Wireless, (A/sia) Ltd., 47 York St.
- 9.590 **PCJ**, Hilversum, Netherlands. "The Happy Station." Ann: Dutch, English, French, German, Malay, Portuguese, Spanish. s/o: National anthem. Add: N. V. Philips Radio, Emma-singel 29, Eindhoven.
VK6ME, Perth, W. A., Australia. (.3). Amalgamated Wireless, (A/sia) Ltd.
W3XAU, Philadelphia, Pa. (10.). Relays **CBS-WCAU**. Add: 1622 Chestnut St.
- Cincinnati, Ohio (under construction.)
- 9.595 **HLB**, Geneva, Switzerland. (18.). "Radio Nations." Tr: Prangins. Add: M. G. Gallarati, Information Section, League of Nations.
RAN, Moscow, USSR.
- 9.600 **CB960**, Santiago de Chile. "Radiodifusora Pilot." s/o: "Rhapsody in Blue." Add: Cia. Internacional de Radio, Casilla 16-D.
- 9.605 **HP5J**, Panama City, Panama. (1.). "La Voz de Panama." Add: Apto 867.
- 9.610 **YDB**, Sourabaya, Java, N.E.I. (1.).
- 9.618 **HJ1ABP**, Cartagena, Colombia. (.75). "Radio Cartagena." Add: Apto 37.
- 9.635 **I2RO**, Rome, Italy. Ann: "Radio Romanapoli," usually by a lady. Add: **FIAR**, Via Montello 5, Rome.
- 9.640 **CQN**, Macau, Portuguese China.
9.645 **HH3W**, Port-au-Prince, Haiti. (.03). Add: Box A-117.
- 9.660 **LRX**, Buenos Aires, Argentina. (5.). "Radio El Mundo." Relays **LRI**. Add: Calle Maipu 555.
- 9.665 **CT1AA**, Lisbon, Portugal. (2.) (9650; 9693; 9770). "Radio Coloniale." Int: 3 cuckoos. Add: Senhor Abilio Nunes dos Santos Jr., Av. Antonio Augusto d'Aguiar 144.
- 9.670 **TI4NRH**, Heredia, Costa Rica. (9695). Amando Cespedes Marin. Apto 40.
- 9.675 **DZA**, Berlin, Germany. See **DJB** 15.200 megs.
- 9.750 **COCQ**, Havana, Cuba. "de la RCA-Victor." Relays **CMQ**. s/o: "Siboney." Add: Calle 25 No. 445, Vedado.
WOF, Lawrenceville, N. J. (*). Phones Paris.
- 9.860 **EAQ**, Madrid, Spain. (20.) (varies to 10069). "La Voz de Espana." Tr: Aranjuez. Ann: English and Spanish. Broadcasts **IBC** programs from London. s/o: National anthem "Himno del Reigo." **IBC** programs s/o "Good Night Waltz." Add: Transradio Espanola, Apto 951.
- 9.870 **WON**, Lawrenceville, N. J. (20.) (*).
9.880 **LSN2**, Buenos Aires, Argentina.
9.895 **LSN**, Buenos Aires, Argentina. Works NYC.
9.940 **CSW**, Lisbon, Portugal.
..... San Juan, Puerto Rico. (.4). Works
..... Haleah, Radio Corp. of Puerto Rico.
- 9.950 **GCU**, Rugby, Gt. Britain. (15.). Works NYC nights. See **GBW** 14.440 megs.
- 9.990 **KAZ**, Manila, Philippine Isl. (40.) (*).
10.000 **WWV**, Beltsville, Md. (1.). Standard frequency transmissions Wednesdays 1315-1415 EST.
- 10.042 **DZB**, Berlin, Germany. See **DJB** 15.200 megs.
10.055 **SUV**, Cairo, Egypt. (10.). Tr: Abu Zabal.
ZFB, Hamilton, Bermuda. (1.5.) (*) Tr: St. George. Works NYC days.
- 10.065 **TDE**, Shinkio, Manchukuo. Works Tokyo. Manchukuo Telegraph and Telephone Co., Ltd.
- 10.080 **RIR**, Tiflis, USSR.
10.105 **TDB**, Shinkio, Manchukuo. (20.). Works San Francisco. See **TDE** 10.065 megs.
- 10.125 Aeronautical point-to-point, Blue Chain. Daytime operation only. See 2.720 megs.
- 10.135 **OPM**, Leopoldville, Belgian Congo. Works **ORK**.

SHORT WAVE STATIONS BY FREQUENCIES

- 10.190 Aeronautical point-to-point, daytime only. Brown Chain. See 2.612 meg. s.
- 10.220 PSH, Rio de Janeiro, Brazil. (12.). Works LSX. Cia Radiotelegrafica Brasileira, Caixa Postal 500.
- 10.230 CED, Antofagasta, Chile.
- 10.250 LSK3, Buenos Aires, Argentina (5.). Tr: Hurlingham.
- 10.260 PMN, Bandoeng, Java, N.E.I. (1.5). Works VLJ. Gouvernements Radio-Dienst.
- 10.290 DZC, Berlin, Germany. See DJB 15.200 meg. s.
- 10.330 DRK, Brussels, Belgium. (11.). Works Leopoldville and broadcasts. Tr: Ruysselede.
- 10.335 ZFD, Hamilton, Bermuda. (1.5) (*). Tr: St. George.
- 10.350 LSX, Buenos Aires, Argentina. (20.). Tr: Monte Grande. Add: Cia. Radiotelegrafica Arg. S. A., San Martin 329.
- 10.400 KEZ, Bolinas, Calif. (*).
- 10.420 XGW, Shanghai, China.
- 10.460 WFD, New Orleans, La. Press in summer time.
- 10.535 JIB, Taihoku, Taiwan. (6.). Tr: Chureki. Works Tokyo. Add: Kokusai Denwa Kaisha, Chureki Station, Chureki Gai, Shinchiku, Taiwan.
- 10.578 FYB, Pontoise, France. Time signals 1955 to 2000 GMT.
- 10.610 WEA, Rocky Point, N. Y. (40.) (*).
- 10.660 JVN, Tokyo, Japan. Tr: Nazaki.
- 10.670 CEC, Santiago de Chile. (4.). Tr: La Granja. Add: Cia. Internacional de Radio, Casilla 16-D.
- 10.740 JVM, Tokyo, Japan. (20.). Tr: Nazaki.
- 10.770 GCP, Rugby, Gt. Britain. (15.). Works Sydney. See GBW 14.440 meg. s.
- 10.840 KWV, Dixon, Calif. (20.) (*). Works Asia.
- 10.955 HS8PJ, Bangkok, Siam. (5.). Tr: Sala Daeng. Add: Radio Service, Post & Telegraph Dept.
- 10.990 ZLT, Wellington, New Zealand. Works Australia. Add: Post & Telegraph Dept.
- 11.000 PLP, Bandoeng, Java, N.E.I. (1.5). Gouvernements Radio-Dienst.
- ZLT4, Wellington, New Zealand. See ZLT 10.990 meg. s.
- 11.018 GBTT, S. S. Queen Mary. See 8.830 meg. s.
- 11.280 HIN, Trujillo, D. R. (.75). s/o: National anthem. Add: Apto 604.
- 11.435 COCX, Havana, Cuba. "La Casa Lavin." (frequency varies widely). Relays the 9 o'clock curfew cannon shot. Add: Box 32.
- 11.500 PMK, Bandoeng, Java, N.E.I.
- 11.540 XGR, Shanghai, China. Works England.
- 11.595 VRR4, Stoney Hill, Jamaica. Works Hialeah.
- 11.660 JVL, Tokyo, Japan. Tr: Nazaki.
- 11.670 PPQ, Rio de Janeiro, Brazil. Tr: Santa Cruz. Works Europe, SA, Rocky Point irreg. Add: Cia. Radiotelegrafica Brasileira, Caixa Postal 500.
- 11.680 K10, Kahuku, Hawaii. (*).
- 11.715 TPA4, Paris, France. Tr: Pontoise. "Radio Coloniale." Add: Ministere des Postes, Telegraphes et Telephones, 98 bis, Blvd. Haussmann.
- 11.720 CJRX, Winnipeg, Man. (2.). Add: James Richardson & Sons, 157 Royal Alexandra Hotel.
- 11.730 PHI, Hilversum, Netherlands. (23.6) (Winter frequency). PHDHI. See: PCJ 9.590 meg. s.
- 11.740 HP5L, David, Chiriqui, Panama. (.35). "Las Ondas del Barú." Add: Apto 129.
- 11.750 GSD, London, Gt. Britain. (20.). "D for Davenport." Tr: Davenport. Int: Bow Bells; time signal on even hours; Big Ben strikes hours irreg. preceded by Westminster chimes. s/o: God Save the King. Add: British Broadcasting Corp., London W1.
- 11.770 DJD, Berlin, Germany. (8.). See DJB 15.200 meg. s.
- 11.790 W1XAL, Boston, Mass. (10.). "Dedicated to Enlightenment." Add: Educational Director, University Club.
- 11.795 DJO, Berlin, Germany. See DJB 15.200 meg. s.
- 11.800 JZJ, Tokyo, Japan. Tr: Nazaki.
- 11.810 I2R04, Rome, Italy. (25.). "Radio Roma-Napoli." Add: usually by a lady. Int: chirping of a bird. s/o: two national anthems, "Giovinezza" and "Marcia Reale." Add: Ente Italiano per le Audizioni Radiofoniche, Via Montello 5.
- 11.820 GSN, London, Gt. Britain. See GSD, 11.750 meg. s.
- 11.830 W2XE, New York, N. Y. (10.). Tr: Wayne, N. J. Relays CBS-WABC. s/o: "Star Spangled Banner." Add: Columbia Broadcasting System, 485 Madison Ave., NYC.
- W9XAA, Chicago, Ill. (20.). This transmitter uses aerial directed to the Antipodes. For details see 6.080 meg. s.
- 11.840 Prague, Czechoslovakia. (35.) (11750; 11875). See 15.230 meg. s.
- 11.855 DJP, Berlin, Germany. See DJB, 15.200 meg. s.
- 11.860 GSE, London, Gt. Britain. (20.). "E for Empire." See GSD 11.750 meg. s.
- YDB, Sourabaya, Java, N.E.I. (1).
- 11.870 W8XK, Pittsburgh, Pa. See W8XK 15.210 meg. s.
- 11.880 TPA3, Paris, France. See TPA4 11.715 meg. s.
- 11.880 XEXA, Mexico City, D. F. (.1). Add: Secretaria de Educacion Publica.
- 11.900 XEWI, Mexico City, D. F. "My Voice to the World from Mexico." Add: Apto 2874.
- 11.950 KKQ, Bolinas, Calif. (*) Relays programs to Hawaii.
- 11.955 IUC, Addis Ababa, Ethiopia.
- 12.000 RNE, Moscow, USSR. (20.). Programs in English, Czech, Dutch, French, German, Hungarian, Russian, Spanish and Swedish. Int: Kremlin chimes on the hour. s/o: "International." Add: Mme. Inna Marr, Solianka 12.
- 12.150 GBS, Rugby, Gt. Britain. (15.). Works NYC afternoons. See GBW 14.440 meg. s.
- 12.235 TFJ, Reykjavik, Iceland. (7.5). Icelandic State Brdcastg. Service, Box 547.
- 12.290 GBU, Rugby, Gt. Britain. Works NYC nights. See GBW 14.440 meg. s.
- 12.330 Aircraft and aero., Orange Chain. See 2.870 meg. s. Clipper Service, see 2.986 meg. s.
- 12.630 NAA NSS, Arlington, Va. Time signals at 0955 EST.

SHORT WAVE STATIONS BY FREQUENCIES

| | | | |
|-----------|---|--------|--|
| 12.830 | CNR, Rabat, Morocco. (12.). Direction de l'Office des Postes, des Telegraphes et des Telephones. | 14.460 | DZH, Berlin, Germany. See DJB, 15.200 mags. |
| 12.840 | WOO, Ocean Gate, N. J. (20.) (*). Works ships. "Boy" frequency. | 14.470 | WMF, Lawrenceville, N. J. (*). Works Rugby. |
| 12.885 | NPG, San Francisco, Calif. Time signals at 1655 GMT. | 14.480 | LSN, Buenos Aires, Argentina. YNA, Managua, Nicaragua. Works WNC daily. |
| 13.040 | German ships. See 4.413 mags. DDBR, S. S. Berlin. DDCP, S. S. Cap Polonio. DDFF, S. S. Reliance. DDFT, S. S. Oceana. DHAO, S. S. Hansa. DHDL, S. S. Cap Arcona. DHEY, S. S. Deutschland. DHJZ, S. S. Hamburg. DHRL, S. S. New York. DOAH, S. S. Bremen. | 14.485 | YSJ, San Salvador, El Salvador. Works WNC daily. Add: Telegrafos, Telefonos y Radio Nacionales. HRL5, La Lima, Honduras. Works WNC daily. HRM, Tegucigalpa, Honduras. Works WNC daily. |
| 13.050 | Italian ships: see 4.280 mags. IBEJ, S. S. Conte Rosso. IBGI, S. S. Conte Verde. IBLI, S. S. Conte di Savoia. ICEJ, S. S. Rex. | 14.545 | HPF, Panama City, Panama. Works WNC daily. TGF, Guatemala City, Guat. Works WNC daily. TIU, Cartago, Costa Rica. Works WNC daily. Add: Cia. Radiografica Int. de C. R. |
| 13.075 | VPD, Suva, Fiji. s/o: "God Save the King." Add: Amalgamated Wireless, (A/sia) Ltd., Suva. | 14.590 | WMN, Lawrenceville, N. J. (20.) (*). Works Rugby. |
| 13.190 | FNSK, S. S. Normandie. Works Paris afternoons. See FNSK 13.210 mags. | 14.635 | GBL, Rugby, Gt. Britain. Works Japan. See GBW 14.440 mags. |
| 13.210 | DOAI, S. S. Europa. (.07). See 4.413 mags. FNSK, S. S. Normandie. Works WOO afternoons. Add: French Lines, Pier 88, North River, Foot of W. 48th St., NYC. | 14.640 | JVH, Tokyo, Japan. (20.) Tr: Nazaki. |
| 13.320 | British Ships, see 8.830 mags. GBZW, S. S. Berengaria. GDLJ, S. S. Homeric. GFVV, S. S. Majestic. GLRZ, S. S. Aquitania. | 14.800 | WQV, Rocky Point, N. Y. (*). |
| 13.337 | YVQ, Maracay, Venezuela. Works WNC days. | 14.845 | OCJ2, Lima, Peru. Phones SA. |
| 13.380 | IDU, Asmara, Eritrea. Works Rome. | 14.910 | JVG, Tokyo, Japan. |
| 13.410 | WCT, San Juan, Puerto Rico. (.4). Works WNC. Add: Radio Corp. of Puerto Rico. | 14.915 | LZA, Sofia, Bulgaria. s/o: national anthem. |
| 13.530 | TDH, Shinkio, Manchukuo. Works Berlin. | 14.930 | HJB, Bogota, Colombia. Works WNC and SA daily. |
| 13.585 | GBB, Rugby, Gt. Britain. Works Canada and Egypt. See GBW 14.440 mags. | 14.940 | HIR, Trujillo, D. R. Works WNC daily. HJA3, Barranquilla, Colombia. Works WNC. |
| 13.635 | SPW, Warsaw, Poland. Tr: Babice. | 14.960 | ROU, USSR. YSL, San Salvador, El Salvador. Add: Telegrafos, Telefonos y Radio Nacionales. |
| 13.690 | KKZ, Bolinas, Calif. (*). Works Asia. | 14.970 | LZA, Sofia, Bulgaria. "Radio Sofia." |
| 13.745 | CGA2, Drummondville, P. Q. Works Ships. | 14.98 | KAY, Manila, Philippine Isl. (*). Works Germany, England mornings; KWU nights. |
| 13.780 | KKW, Bolinas, Calif. (*). | 15.000 | WWV, Beltsville, Md. Standard frequency transmissions. |
| 13.820 | SUZ, Cairo, Egypt. Tr: Abu Zabal. Phones Germany, England. | 15.040 | RKI, Moscow, USSR. |
| 13.880 | VJZ, Raboul, New Guinea. | 15.055 | WNC, Miami, Fla. (.4) (*). Tr: Hialeah. Works CA, SA and West Indies daily. |
| 13.900 | WQP, Rocky Point, N. Y. (*). Works Europe. | 15.080 | RKI, Moscow, USSR. RV96, Moscow, USSR. |
| 13.980 | TDC, Shinkio, Manchukuo. Works San Francisco. | 15.110 | DJL, Berlin, Germany. See DJB 15.200 mags. |
| 13.990 | GBA2, Rugby, Gt. Britain. Works SA. See GBW 14.440 mags. | 15.120 | HJV, Vatican City. (10.). Int: ticking of clock. Ann: "Laudatur Jesus Christus." Add: Pontificia Accademia Della Scienze, Roma-Castina Pio IV. |
| 14.000 to | | 15.140 | GSF, London, Gt. Britain. (15.). "F for Fortune." See GSD 11.750 mags. |
| 14.400 | Amateurs. Amateur 'phones are heard between 14.150 and 14.250 mags. Foreign amateurs usually work on the upper and lower edges of the band. | 15.150 | YDC, Bandoeng, Java, N.E.I. (3.). |
| 14.440 | GBW, Rugby, Gt. Britain. (15.). Works WMA, WMF. Uses Inverted Speech and sometimes a "wobulated carrier" as well. Add: G. P. O., Armour House, St. Martin's le Grande, London EC1. | 15.160 | JZK, Tokyo, Japan. |
| | | 15.175 | RV96, Moscow, USSR. |
| | | 15.180 | GSO, London, Gt. Britain. See GSD 11.750 mags. |
| | | 15.190 | ZBW4, Hong Kong. (2.4). Add: Box 200. |
| | | 15.200 | DJB, Berlin, Germany. (8.). Tr: Zeesen. Int: Music box tune. s/o: Two national anthems. Add: Reichs-Rundfunk-Gesellschaft, Haus des Rundfunk, Masurenallee, Berlin-Charlottenburg 9. |
| | | 15.210 | W8XK, Pittsburgh, Pa. (*). Tr: Saxonburg. Relays NBC-KDKA. |
| | | 15.220 | PCJ, Hilversum, Netherlands. See PCJ 9.590 mags. |

SHORT WAVE STATIONS BY FREQUENCIES

- 15.230 Prague, Czechoslovakia. (35.) "Radio Podedbrady." Tr: Podedbrady. Int: trumpet tune from New World Symphony. Add: Praha XII, Fochova Tr. 16.
- 15.245 TPA2, Paris, France. See TPA4 11.715 megs.
- 15.250 W1XAL, Boston, Mass. (10.). "Dedicated to Enlightenment." Add: University Club.
- 15.260 GSI, London, Gt. Britain. "I for Island." See GSD 11.750 megs.
- 15.270 W2XE, New York, N. Y. See 11.830 megs.
- 15.280 DJQ, Berlin, Germany. See DJB 15.200 megs.
- LRU, Buenos Aires, Argentina. "Radio El Mundo." Relays LRI. Add: Calle Maipu 555.
- 15.300 XEBM, Mazatlan, Sin. (.05). Ignacio L. Saiz.
- 15.310 GSP, London, Gt. Britain. "P for Progress." See GSD 11.750 megs.
- 15.330 W2XAD, Schenectady, N. Y. (20.). Relays NBC-WGY. See W2XAF 9.530 megs.
- 15.340 DJR, Berlin, Germany. See DJE 17.760 megs.
- 15.355 KWU, Dixon, Calif. (35.). Works Hawaii, Philippines, Japan. Add: Transpacific Communication Co., 140 New Montgomery St., San Francisco.
- 15.360 DZG, Berlin, Germany. See DJE, 17.760 megs.
- 15.370 HAS3, Budapest, Hungary (20.). See HAT4 9.125 megs.
- 15.415 KWO, Dixon, Calif. (20.). Works N.E.I. and Japan nights. See KWU 15.355 megs.
- 15.905 TDI, Shinkio, Manchukuo. Works Berlin.
- 16.140 GBX, Rugby, Gt. Britain. Works SA. Uses inverted speech. Add: G.P.O., Armour House, St. Martins le Grand, London. EC1.
- 16.440 Aircraft and aeronautical, Orange Chain: See 2.870 megs.
Clipper Service, see 2.986 megs.
- 16.460 DHEY, S. S. Deutschland. Works DAF, WOO. Add: North German Lloyd, Pier 4, Foot of 58th St., Brooklyn.
- 16.600 DOAI, S. S. Europa. See DHEY 16.460 megs.
- 16.765 DHTY, S. S. Resolute.
- 16.820 NAA, Arlington, Va. Time signals at 0955 EST.
- 17.080 GBC, Rugby, Gt. Britain. (5.). Works ships. See GBX 16.140 megs.
- 17.120 WOO, Ocean Gate, N. J. (20.) (*). Works ships.
- 17.225 ICEJ, S. S. Rex.
- 17.310 W3XL, New York, N. Y. (20.). See W3XAL 6.100 megs.
- 17.480 VWY2, Kirkee, Poona, India. Works GAU mornings. Indian Radio and Cable Communications Co., Ltd., Poona 6.
- 17.755 ZBW5, Hong Kong. (2.4). Add: Box 200.
- 17.760 DJE, Berlin, Germany. Tr: Zeesen. Int: music box tune. s/o: two national anthems. Add: Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9.
- W2XE, New York, N. Y. See 11.830 megs.
- 17.775 PHI, Hilversum, Netherlands. (23.6). Summer frequency. See PCJ 9.590 megs.
- 17.780 W3XAL, New York, N. Y. (15.). See 6.100 megs.
- 17.785 JZL, Tokyo, Japan.
- 17.790 GSG, London, Gt. Britain. (15.). "G for Greeting." Tr: Daventry. Int: Bow Bells; time signal on even hours; Big Ben strikes hours irreg. preceded by Westminster Chimes. s/o: "God Save the King." Add: British Brdcastg. Corp., London W1.
- 18.270 IUD, Addis Ababa, Ethiopia.
- 18.310 GAS, Rugby, Gt. Britain. Works NYC mornings. See GBX 16.140 megs.
- 18.350 WLA, Lawrenceville, N. J. (*). Works London mornings
- 18.620 GAU, Rugby, Gt. Britain. (15.). Works India, NYC and Capetown. See GBX 16.140 megs.
- 18.830 PLE, Bandoeng, Java, N.E.I. (40.). Works Dixon nights and Tokyo mornings. Governments Radio-Dienst.
- 19.480 GAD, Rugby, Gt. Britain. Works Kenya Colony. See GBX 16.140 megs.
- 19.630 VQG, Nairobi, Kenya Colony. Works London. Cable & Wireless, Ltd. Box 777
- 20.380 GAA, Rugby, Gt. Britain. (15.). See GBX 16.140 megs.
- 21.470 GSH, London, Gt. Britain. "H for Home." See GSG 17.790 megs.
- 21.520 JZM, Tokyo, Japan.
W2XE, New York, N. Y. See 11.830 megs.
- 21.530 GSJ, London, Gt. Britain. "J for Justice." See GSG 17.790 megs.
- 21.540 W8XK, Pittsburgh, Pa. (*). Tr: Saxonburg. Relays NBC-KDKA. Westinghouse Electric & Mfg. Co.
- 26.100 GSK, London, Gt. Britain. "K for King." See GSG 17.790 megs.
- 28.000 to
30.000 Amateurs. Amateur 'phones are used between 28 and 29 megs.
- 30.604 IAG, Golfo Aranci, Sardinia. (5.).
- 31.600 W1XER, Boston, Mass. (.5). Add: Shepard Brdcastg. Service.
W2XJI, Newark, N. J. (1.). Bamberger Brdcastg. Service, Inc.
W3XEY, Baltimore, Md. (1). Add: WFBR, 7 St. Paul St.
W6XAS, San Francisco, Calif. (.01).
W6XKG, Los Angeles, Calif. (1.). Ben S. McGlashan.
W8XAI, Rochester, N. Y. (.1). Stromberg-Carlson.
W8XKA, Pittsburgh, Pa. (.15). Add: KDKA, Grant Bldg.
W8XWJ, Detroit, Mich. (1). Add: WWJ, the Detroit News.
W9XAZ, Milwaukee, Wis. (.5). The Journal Co.
W9XER, Kansas City, Mo. (.05).
W9XPD, St. Louis, Mo. (1.).
- 55.500 W8XKA, Pittsburgh, Pa. (.15). KDKA, Grant Bldg.
- 56.000 to
60.000 Amateurs. Amateur 'phones are heard in the entire band.
- 60.500 W8XKA, Pittsburgh, Pa. (.15). KDKA, Grant Bldg.
- 110.000 megs to infinity. Amateurs.
- 401.000 W1XEG, Storrs, Conn. (.5). Connecticut State College.
W9XHW, Minneapolis, Minn. (.05).

All the shortwave stations will be listed in the April RADEX by locations and by call letters.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

540 kcys. (555.2)

CJRM ak 1000 F Moose Jaw, Sask.

KFSD ae 1000 B San Diego, Calif.
 WCAO ae 500 C (1) Baltimore, Md.
 WICC ak 500 M (1) Bridgeport, Conn.
 WMT ak 1000 BM (5) Cedar Rapids, Ia.
 WREC c 1000 C (5) Memphis, Tenn.

550 kcys. (545.1)

CFNB mk 500 F (1) Fredericton, N. B.
 KFUC ae 500 2 (1) St. Louis, Mo.
 KFVR ae 1000 N (5) Bismarck, N. D.
 EOAC ak 1000 Corvallis, Ore.
 KSD ak 1000 2R (5) St. Louis, Mo.
 K TSA ak 1000 C (5) San Antonio, Tex.
 WDEV ae 500 D Waterbury, Vt.
 WGR ae 1000 C Buffalo, N. Y.
 WKRC ak 1000 CX Cincinnati, Ohio
 WSVA ak 500 D Harrisonburg, Va.
 XEFC ak 100 Merida, Yuc.

610 kcys. (491.5)

KFRC ck 1000 M (5) San Francisco, Cal.
 WDAF ak 1000 R (5) Kansas City, Mo.
 WIP ak 1000 Philadelphia, Pa.
 WJAY ae 500 D Cleveland, Ohio
 XEXM ak 500 Mexico City, D. F.

560 kcys. (535.4)

KFDM ak 500 (1) Beaumont, Tex.
 KLZ ae 1000 C (5) Denver, Colo.
 KSFO ak 1000 San Francisco, Cal.
 KWTO ak 5000 D Springfield, Mo.
 WFIL ak 1000 BM Philadelphia, Pa.
 WIND ak 1000 (5) Gary, Ind.
 WIS ae 1000 N (5) Columbia, S. C.
 WQAM ak 1000 C Miami, Fla.
 XEAO ak 250 Mexicali, L. C.

620 kcys. (483.6)

KGW ak 1000 R (5) Portland, Ore.
 KTAR ae 1000 N Phoenix, Ariz.
 WFLA ak 1000 Na (5) Clearwater, Fla.
 WLJB ak 250 D C Greensburg, Pa.
 WLBZ ak 500 C (1) Bangor, Maine
 WSUN ae 1000 Na (5) St. Petersburg, Fla.
 WTMJ ak 1000 N (5) Milwaukee, Wis.

630 kcys. (475.9)

CFCO ak 100 F Chatham, Ont.
 CFGY ae 1000 F Charlottetown, P.E.I.
 CJRC ak 1000 F Winnipeg, Man.
 CKOV ak 100 F Kelowna, B. C.
 KFRU ak 500 1 (1) Columbia, Mo.
 KGFX ak 200 D Pierre, S. D.
 WGBF ak 500 i Evansville, Ind.
 WMAL ak 250 B (5) Washington, R. I.
 WPRO ak 500 C (1) Providence, R. I.
 XEZ z 500 Merida, Yuc.
 WGAN ck 500 P Portland, Me.

570 kcys. (526.0)

CMCX z 150 Havana, Cuba
 KGKO ak 250 C (1) Y Wichita Falls, Tex.
 KMTR ak 1000 Hollywood, Calif.
 KVI ak 1000 C (5) Tacoma, Wash.
 WKBN ae 500 1C Youngstown, Ohio
 WMCA ak 1000 New York, N. Y.
 WNAX ak 1000 C (5) Yankton, S. D.
 WOSU ak 750 1 (1) Columbus, Ohio
 WSYR ak 1000 B Syracuse, N. Y.
 WWNC ak 1000 N Asheville, N. C.

640 kcys. (468.5)

CMCB ak 150 Havana, Cuba
 KFI ak 5000 R Los Angeles, Calif.
 WHKC ak 500 Columbus, Ohio
 WOI ae 500 D Ames, Iowa
 XEBX z 250 Saltillo, Coah.

580 kcys. (516.9)

CFPR ak 50 Prince Rupert, B.C.
 CHRC ak 100 F Québec, Que.
 CKCL ag 100 F Toronto, Ont.
 CKUA ak 500 Edmonton, Alta.
 KMJ ak 500 C (1) Fresno, Calif.
 KSAC ak 500 2 (1) Manhattan, Kans.
 WCHS ak 500 (1) Charleston, W. Va.
 WDBO ak 1000 C Orlando, Fla.
 WIBW ak 1000 C2 (5) Topeka, Kans.
 WILL ak 1000 D Urbana, Ill.
 WTAG ae 500 RX Worcester, Mass.
 XELO ak 50000 Piedras Negras, Coah.

650 kcys. (461.3)

WSM ak 50000 NM Nashville, Tenn.

660 kcys. (454.3)

WAAW ae 500 D Omaha, Neb.
 WFAF ak 5000 R New York, N. Y.
 XEAL z 1000 Mexico City, D. F.

590 kcys. (508.2)

KHQ ak 1000 R (2.5) Spokane, Wash.
 WEEI ak 1000 CX Boston, Mass.
 WKZO ak 1000 D Kalamazoo, Mich.
 WOW ae 5000 R Omaha, Nebr.

670 kcys. (447.5)

WMAQ ak 50000 N Chicago, Ill.

600 kcys. (499.7)

CFCF ae 400 FN Montreal, Que.
 CJOR ak 500 Vancouver, B. C.
 CMW ak 1400 Havana, Cuba
 CRCW ak 500 F (1) Windsor, Ont.

680 kcys. (440.9)

CMCG ak 1000 Havana, Cuba
 KFEQ ak 2500 D St. Joseph, Mo.
 KPO ak 5000 R San Francisco, Cal.
 VAS ak n 2000 685 Glace Bay, N. S.
 VOWR ck 500 681 St. John's, Nfld.
 WPTF ak 1000 N (5) Raleigh, N. C.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

690 kcys. (434.5)

CFRB ae 10000 C Toronto, Ont.
 CJGJ ak 100 F Calgary, Alta.
 XET ak 500 Monterrey, N. L.

700 kcys. (428.3)

WLW ak 50000 NM Cincinnati, Ohio

710 kcys. (422.3)

KIRO ak 1000 Seattle, Wash.
 KMPC ak 500 M Beverly Hills, Cal.
 WOR ak 50000 M Newark, N. J.

720 kcys. (416.4)

WGN ak 50000 M Chicago, Ill.
 XEH ak 250 Monterrey, N. L.

730 kcys. (410.7)

CFPL ak 100 F London, Ont.
 CJCA ak 1000 F Edmonton, Alta.
 CKAC ak 5000 CF Montreal, Que.
 CKPR ak 100 F Fort William, Ont.
 CMK ae 3000 Havana, Cuba
 XEBC ak 5000 Agua Caliente, L.G.
 XEPN ak 100000 Piedras Negras, Ch.

740 kcys. (405.2)

KMMJ ae 1000 D Clay Center, Neb.
 KTRB ak 250 D Modesto, Calif.
 WHEB ak 250 D Portsmouth, N. H.
 WSB ae 50000 N Atlanta, Ga.

750 kcys. (399.8)

CMGW dk 150 Havana, Cuba
 KGU aj 2500 N Honolulu, T. H.
 WJR ak 50000 C Detroit, Mich.
 XEAM ak 25 Matamoros, Tams.

760 kcys. (394.5)

CMHX ak 200 Gienfuegos, Cuba
 KXA ae 250 (.5) Seattle, Wash.
 WBAL ak 2500 BMSy Baltimore, Md.
 WEW ae 1000 D St. Louis, Mo.
 WIZ ak 50000 BSy New York, N. Y.
 XEOK ak 2500 Tijuana, B. Cfa.

770 kcys. (389.4)

CMBS ak 150 Havana, Cuba
 KFAB ak 10000 CSy Lincoln, Neb.
 WBBM ae 50000 CSy Chicago, Ill.

780 kcys. (384.4)

CHWK dk 100 F Chilliwack, B. C.
 CKSO ak 1000 F Sudbury, Ont.
 CMJK ak 250 Camaguey, Cuba
 KEHE ak 1000 (.5) Los Angeles, Calif.
 KFQY ae 1000 D Brookings, S. D.
 KFQD ck 250 Anchorage, Alaska
 KGHL ak 1000 N(5) Billings, Mont.
 WEAN ak 1000 M Providence, R. I.

WMC ak 1000 N(5) Memphis, Tenn.
 WTAR ae 500 NX(1) Norfolk, Va.
 XEL z 1000 Mexico City, D. F.

790 kcys. (379.5)

CMGH ak 500 Matanzas, Cuba
 KGO ak 7500 BP San Francisco, Cal.
 KOAM z 1000 DP Pittsburg, Kans.
 WGY ak 50000 R Schenectady, N. Y.

800 kcys. (374.8)

HIIX ak 800 Trujillo, D. R.
 WBAP ak 50000 Na Fort Worth, Tex.
 WFAA ak 50000 Na Dallas, Tex.
 WTBO ak 250 D Cumberland, Md.

810 kcys. (370.2)

CMCF ak 600 Havana, Cuba
 WCCO ae 50000 C Minneapolis, Minn.
 WNYC ak 1000 D New York, N. Y.
 XEXC z 350 Aguascalientes, Ags.

820 kcys. (365.6)

CMHW ak 100 Gienfuegos, Cuba
 WHAS aj 50000 C Louisville, Ky.
 XEBG z 1000 Tijuana, B. Cfa.

830 kcys. (361.2)

CMJX ae 500 Camaguey, Cuba
 KOA ak 50000 N Denver, Colo.
 WEEU ak 1000 D Reading, Pa.
 WHDH ae 1000 Dn Boston, Mass.
 WRUF ae 5000 Dn Gainesville, Fla.

840 kcys. (356.9)

CFQC ak 1000 F Saskatoon, Sask.
 CRCT ak 5000 FN Toronto, Ont.
 VOGY ak 400 St. John's, Nfld.
 XERA ck 350000 Villa Acuna, Coah.

850 kcys. (352.7)

CMBN z 150 Havana, Cuba
 KIEV ak 250 D Glendale, Calif.
 TIEP z 500 San Jose, C. R.
 WESG ak 1000 C Elmira, N. Y.
 WKAR ae 1000 D East Lansing, Mich.
 WWL ae 10000 C New Orleans, La.

860 kcys. (348.6)

WABC ae 50000 C New York, N. Y.
 WHB ak 1000 DM Kansas City, Mo.
 XEMO ak 5000 Tijuana, L. C.
 XENC z 50 Mexico City

870 kcys. (344.6)

WENR ak 50000 Na Chicago, Ill.
 WLS ae 50000 Na Chicago, Ill.
 XEFB ak 200 Monterrey, N. L.

880 kcys. (340.7)

CFJC ak 100 F Kamloops, B. C.
 CMQ ak 500 Havana, Cuba
 CRCO ak 1000 F Ottawa, Ont.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFFA ak 500 2 (1) Greeley, Colo.
KLX ae 1000 Oakland, Calif.
KPOF ae 500 2 Denver, Colo.
WCOC ae 500 (1) Meridian, Miss.
WGBI ae 500 1 Scranton, Pa.
WPHR ak 500 DY Petersburg, Va.
WQAN ae 250 1 Scranton, Pa.
WSUI ae 500 (1) Iowa City, Iowa

890 kcys. (336.9)

KARK ak 500 (1) N Little Rock, Ark.
KFNF ak 500 2 (1) Shenandoah, Iowa
KFPY ak 1000 C (5) Spokane, Wash.
KUSD ae 500 2 Vermillion, S. D.
WBAA ak 500 (1) W. Lafayette, Ind.
WGST ak 1000 C Atlanta, Ga.
WJAR ae 1000 R Providence, R. I.
WMMN ak 500 C (1) Fairmont, W. Va.
XEW ak 50000 Mexico City, D. F.

900 kcys. (333.1)

KGBU ak 500 X Ketchikan, Alaska
KHJ ak 1000 M (5) Los Angeles, Calif.
KSEI ae 250 (5) Pocatello, Idaho
WBN ak 1000 R (5) Buffalo, N. Y.
WELI ak 500 D New Haven, Conn.
WFMD ak 500 D Frederick, Md.
WJAX ak 1000 N (5) Jacksonville, Fla.
WKY ae 1000 N (5) Oklahoma City, Okla.
WLBL ak 2500 DX Stevens Point, Wis.
WTAD ak 1000 D Quincy, Ill.

910 kcys. (329.6)

CJAT ak 1000 F Trail, B. C.
CKY ak 15000 F Winnipeg, Man.
CRCM ak 5000 F Montreal, Que.
XENT ak 150000 ... Nuevo Laredo, Tams.

920 kcys. (325.9)

CMX ae 1000 Havana, Cuba
HHK ae 1000 ... Port-au-Prince, Haiti
KFEL ak 500 aM Denver, Colo.
KOMO ak 1000 R (5) Seattle, Wash.
KPRC ak 1000 N (5) Houston, Texas
KVOD ak 500 aB Denver, Colo.
WAAF ak 1000 D Chicago, Ill.
WORL ae 500 D Boston, Mass.
WPEN ak 250 (.5) 1 Philadelphia, Pa.
WRAX ak 250 1 (.5) Philadelphia, Pa.
WSPA ae 1000 D Spartanburg, S. C.
WWJ ak 1000 R (5) Detroit, Mich.
XEAA ak 200 Mexicali, L. C.

930 kcys. (322.4)

CFAC ak 100 F Calgary, Alta.
CFCH ak 100 F North Bay, Ont.
CFLC ae 100 ... Prescott, Ont.
CHNS ae 1000 F Halifax, N. S.
CKPC ae 100 F Brantford, Ont.
KMA ak 1000 (5) Shenandoah, Iowa
KROW ak 1000 ... Oakland, Calif.
WBRC ak 1000 C Birmingham, Ala.
WDBJ ae 1000 C (5) Roanoke, Va.
XEBH ak 500 Hermosillo, Sonora

940 kcys. (319.0)

KOIN ak 1000 C (5) Portland, Ore.
VOAS ak 100 ... St. John's, Nfld.
WAAT ak 500 D Jersey City, N. J.
WAYE ak 1000 N Louisville, Ky.
WCSH ak 1000 R (2.5) Portland, Maine
WDAY ae 1000 N (5) Fargo, N. D.
WHA ak 5000 D Madison, Wis.
XEFO ak 5000 (XFO) Mexico City, D. F.
XEYO z 500 Mexico City, D. F.

950 kcys. (315.6)

CJOC ak 100 F Lethbridge, Alta.
CMCD ak 250 ... Havana, Cuba
CRCS ak 100 F Chicoutimi, Que.
KFWB ak 1000 (5) Hollywood, Calif.
KHSL ak 250 D Chico, Calif.
KMBC ae 1000 C (5) Kansas City, Mo.
WRC ak 500 R (1) Washington, D. C.

960 kcys. (312.3)

CFRN ak 100 F Edmonton, Alta.
CHNC ak 1000 F New Carlisle, Que.
XEAW ck 50000 Reynosa, Tams.

970 kcys. (309.1)

CMBY z 150 ... Havana, Cuba
KJR ak 5000 B Seattle, Wash.
WCFL ae 5000 B Chicago, Ill.
WIBG ak 100 D Glenside, Pa.

980 kcys. (306.0)

KDKA c 50000 B Pittsburgh, Pa.
XEAC ak 250 Tijuana, B. Cfa.

990 kcys. (302.8)

WBZ c 50000 BSy Boston, Mass.
WBZA c 1000 BSy Springfield, Mass.
XEAF ak 750 ... Nogales, Sonora
XEK ak 100 ... Mexico City, D. F.
XES dk 250 ... Tampico, Tams.

1000 kcys. (299.8)

CMBZ ak 500 (1) Havana, Cuba
KFVD ae 250 DnX Los Angeles, Calif.
WHO ak 50000 R Des Moines, Iowa
XEBI ak 25 ... Aguascalientes, Ags.
XEBK ak 100 ... Nuevo Laredo, Tams.
XEXS z 100 ... Portable in Mexico

1010 kcys. (296.9)

CHML ak 100 F Hamilton, Ont.
CKCD ak 100 1 Vancouver, B. C.
CKCK ak 500 F Regina, Sask.
CKCO ak 100 F Ottawa, Ont.
CKIC ak 50 ... Wolfville, N. S.
CKWX ak 100 F 1 Vancouver, B. C.
CMJA ak 300 ... Camaguey, Cuba
KGGF ae 1000 2 ... Coffeyville, Kans.
KOW ae 1000 ... San Jose, Calif.
WHN ae 1000 (5) New York, N. Y.
WNAD ae 1000 2 Norman, Okla.
WNOX ak 1000 C (2) Knoxville, Tenn.
XEU ak 250 ... Veracruz, Ver.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1020 keys. (293.9)

KYW ak 10000 R Philadelphia, Pa.
 WDW ak 250 D Tuscola, Ill.
 XEJ ak 1000 Juarez, Chih.

1030 keys. (291.1)

CFCN ak 10000 Calgary, Alta.
 CKLW ak 5000 M Windsor, Ont.
 CMCY ak 5000 Havana, Cuba
 XEB ak 10000 Mexico City, D. F.

1040 keys. (288.3)

KRLD ak 10000 C Dallas, Texas
 KRWJ ak 500 Portland, Ore.
 KYOS z 250 D Merced, Calif.
 WTIC ah 50000 R Hartford, Conn.

1050 keys. (285.5)

CMKD ak 250 Santiago, Cuba
 CRCK ak 1000 F Quebec, Que.
 KFBI ak 5000 Dn Abilene, Kans.
 KNX ak 50000 C Hollywood, Calif.
 WEAU z 1000 DP Eau Claire, Wis.

1060 keys. (282.8)

KTHS ak 10000 N Hot Springs, Ark.
 VOAC z 40 1065 St. John's, Nfld.
 WBAL ak 10000 B (25) Baltimore, Md.
 WJAG ak 1000 D Norfolk, Neb.
 XEAD ak 125 Guadalajara, Jal.
 XEMG z 100 Atzacapotzalco, D.F.
 z 100 P College Park, Md.

1070 keys. (280.2)

CMBX ak 500 Havana, Cuba
 CMHA z 50 Sagua la Grande, C.
 KJBS ak 500 Dn San Francisco, Cal.
 WCAZ ak 1000 DX Carthage, Ill.
 WTAM ak 50000 R Cleveland, Ohio

1080 keys. (277.6)

WBT ak 50000 C Charlotte, N. C.
 WCBD ak 5000 1Dn Chicago, Ill.
 WMBI ak 5000 1Dn Chicago, Ill.
 XEBI z 20 Guzman, Jal.

1090 keys. (275.1)

KMOX ak 50000 C St. Louis, Mo.
 XEAQ ak 1000 Rosarito, L. C.

1100 keys. (272.6)

CMCJ ak 500 Havana, Cuba
 CRCV ak 1000 FX Vancouver, B. C.
 KGDW ak 1000 DM Stockton, Calif.
 KWKH ae 10000 C Shreveport, La.
 WLWL ae 5000 1 New York, N. Y.
 WPG ak 5000 1C Atlantic City, N. J.

1110 keys. (270.1)

KSOO ak 2500 Dn Sioux Falls, S. D.
 WRVA ak 5000 CM Richmond, Va.

1120 keys. (267.7)

CHLP ak 100 F Montreal, Que.
 CHSJ ak 500 F (1) St. John, N. B.
 CKOC ae 500 F (1) Hamilton, Ont.
 CKX ak 100 F Brandon, Man.
 CMGF dk 150 Matanzas, Cuba
 CMKM ak 200 Manzanillo, Cuba
 KFIO ae 100 D Spokane, Wash.
 KFSG ag 500 a (2.5) Los Angeles, Calif.
 KRKD ak 500 a (2.5) Los Angeles, Calif.
 KRSC ak 100 DX Seattle, Wash.
 WCOP ak 500 D Boston, Mass.
 WDEL ak 250 (.5) Wilmington, Del.
 WISN ak 250 (1) C Milwaukee, Wis.
 WTAW ae 500 College Station, Tex.

1130 keys. (265.3)

CMJI ak 150 Ciego de Avila, Cuba
 KSL ak 50000 C Salt Lake City, Utah
 WJJD ak 20000 Dn Chicago, Ill.
 WOV ag 1000 D New York, N. Y.
 XEJP z 100 Mexico City, D. F.

1140 keys. (263.0)

CMBG z 200 Havana, Cuba
 KVOO ak 25000 1N Tulsa, Okla.
 WAPI ak 5000 1N Birmingham, Ala.
 WSPR ak 500 DM Springfield, Mass.

1150 keys. (260.7)

CMJF z 200 Camaguey, Cuba
 WHAM ae 50000 B Rochester, N. Y.
 XEC ak 100 Tijuana, B. Cfa.
 XEDW z 20 Minatitlan, Ver.

1160 keys. (258.5)

CMHJ ak 175 Cienfuegos, Cuba
 WOWO c 10000 1C Fort Wayne, Ind.
 WWVA ak 5000 1C Wheeling, W. Va.
 XEAS ak 50 Saltillo, Coah.
 XEBJ z 20 Merida, Yuc.
 XEBZ ad 100 Mexico City, D. F.
 XED ak 2500 Guadalajara, Jal.
 XEP ak 500 Juarez, Chih.

1170 keys. (256.3)

CMBD ae 500 Havana, Cuba
 WCAU ak 50000 C Philadelphia, Pa.

1180 keys. (254.1)

CMJO ak 50 Ciego de Avila, Cuba
 KEX ak 5000 2B Portland, Ore.
 KOB ak 10000 2 Albuquerque, N.M.
 VE9EK ak 10 1185 Montmagny, Que.
 WDG Y ak 1000 Dn (5) Minneapolis, Minn
 WINS ak 1000 New York, N. Y.
 WMAZ ak 1000 Macon, Ga.
 XEFA z 500 Tacuba, D. F.

1190 keys. (252.0)

VONF ak 500 1195 St. John's, Nfld.
 WATR ak 100 D Waterbury, Conn.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WOAI ak 50000 C San Antonio, Tex.
 WSAZ ak 1000 Huntington, W. Va.
 z 250 DP Visalia, Calif.

1200 kcs. (249.9)

CHAB ak 100 F Moose Jaw, Sask.
 CKNX ak 50 Wingham, Ont.
 CKTB ag 100 F St. Catharines, Ont.
 CMCO ad 250 Havana, Cuba
 KADA ak 100 D Ada, Okla.
 KBTM ak 100 D Jonesboro, Ark.
 KDNC z 100 P(.25) Lewistown, Mont.
 KELO z 100 P Sioux Falls, S. Dak.
 KFJB ak 100 (.25) Marshalltown, Iowa
 KFJD ae 100 (.25) Nampa, Idaho
 KFJX ak 100 (.25) Grand Junc., Colo.
 KGDE ak 100 (.25) Fergus Falls, Minn.
 KGKE ak 100 Sterling, Colo.
 KGFI ae 100 Los Angeles, Calif.
 KGHJ ak 100 (.25) Little Rock, Ark.
 KMLB ak 100 (.25) Monroe, La.
 KOLS ae 250 D Marshfield, Ore.
 KSUN c 100 (.25) Lowell, Ariz.
 KVCV z 100 Redding, Calif.
 KVEC z 250 DP San Luis Obispo, Cal.
 KVOS dk 100 Bellingham, Wash.
 KWG ak 100 N Stockton, Calif.
 WABI ak 100 (.25) Bangor, Maine
 WAIM ak 100 XZ Waycross, S. C.
 WAYX ak 100 Waycross, Ga.
 WBBZ ak 100 Ponca City, Okla.
 WBHP z 100 P Huntsville, Ala.
 WBNO ak 100 D New Orleans, La.
 WCAT ak 100 I Rapid City, S. D.
 WCAX ak 100 Burlington, Vt.
 WCLO ak 100 (.25) Janesville, Wis.
 WCPO ak 100 (.25) Cincinnati, Ohio
 WEST ae 100 3 (.25) Easton, Pa.
 WFAM ak 100 8 South Bend, Ind.
 WFTC z 100 (.25)P Kingston, N. C.
 WHBC ak 100 (.25) Canton, Ohio
 WHBY ak 100 (.25) Green Bay, Wis.
 WIBX ak 100 (.3) C Utica, N. Y.
 WIL ak 100 (.25) St. Louis, Mo.
 WJBC ak 100 6(.25) Bloomington, Ill.
 WJBL ak 100 6 Decatur, Ill.
 WJBW ak 100 1 New Orleans, La.
 WJNO ak 100 C W. Palm Beach, Fla.
 WJRD c 100 D Tuscaloosa, Ala.
 WKBO ak 100 3(.25) Harrisburg, Pa.
 WLVA ak 100 (.25) Lynchburg, Va.
 WMFR ae 100 D High Point, N. C.
 WMPC ak 100 (.25) Lapeer, Mich.
 WNRI ak 100 (.25) Newport, R. I.
 WRBL ak 100 Columbus, Ga.
 WTHH ak 100 DM Hartford, Conn.
 WWAE ae 100 8 Hammond, Ind.
 z 100 P Superior, Wis.

KLAH ak 100 Carlsbad, N. Mex.
 KOCA z 100 P Kilgore, Texas
 KPCC ak 100 9 Pasadena, Calif.
 KVSQ ak 100 Ardmore, Okla.
 KWTN ak 100 Watertown, S. D.
 TGW ak 10000 Guatemala City
 WALR ak 100 Zanesville, Ohio
 WBAX ae 100 Wilkes Barre, Pa.
 WBBL ak 100 S Richmond, Va.
 WBLE ak 100 D Lima, Ohio
 WBRB ak 100 3 Red Bank, N. J.
 WCOL ak 100 N Columbus, Ohio
 WCRW ae 100 4 Chicago, Ill.
 WEBQ ae 100 6(.25) Harrisburg, Ill.
 WEDC ae 100 4 Chicago, Ill.
 WFAS ak 100 3 White Plains, N. Y.
 WFOY z 100 P St. Augustine, Fla.
 WGBB ae 100 3 Freeport, N. Y.
 WGCM ae 100 (.25) Gulfport, Miss.
 WGNV ak 100 3 Newburgh, N. Y.
 WHBF ak 100 (.25) Rock Island, Ill.
 WHBU ak 100 (.25) Anderson, Ind.
 WIBU ak 100 (.25) Poyntette, Wis.
 WJBY ak 100 Gadsden, Ala.
 WJEJ ae 100 D Hagerstown, Md.
 WJIM z 100 (.25) Lansing, Mich.
 WJTN ak 50 X Jamestown, N. Y.
 WJW ae 100 (.25) Akron, Ohio
 WKOK ak 100 Sunbury, Pa.
 WLMU z 100 P Middleboro, Ky.
 WMBG ak 100 CXZ Richmond, Va.
 WMFG ak 100 X Hibbing, Minn.
 WMFN ak 100 Y Clarksdale, Miss.
 WOMT ak 100 Manitowoc, Wis.
 WPAX ak 100 D Thomasville, Ga.
 WSAY z 100 D Rochester, N. Y.
 WSBC ae 100 4 Chicago, Ill.
 WSIX ak 100 Y Springfield, Tenn.
 WSOC ak 100 N(.25) Charlotte, N. C.
 WTAX ak 100 Springfield, Ill.
 XEAT ak 250 Parrat, Chih.
 XEE ak 50 Durango, Dgo.
 XEFV ak 100 Juarez, Chih.
 XETH ak 100 Puebla, Pue.
 z 100 DP Bridgeton, N. J.

1220 kcs. (245.8)

CMJE z 50 Camaguey, Cuba
 KFKU ak 1000 a (5) Lawrence, Kans.
 KTW ak 1000 S2 Seattle, Wash.
 KWSC ae 1000 2 (5) Pullman, Wash.
 WCAD ak 500 D Canton, N. Y.
 WCAE ak 1000 MR(5) Pittsburgh, Pa.
 WDAE ae 1000 C (5) Tampa, Fla.
 WREN ak 1000 Ba(5) Lawrence, Kas.
 XEBL z 50 Mazatlan, Sin.
 XEDA z 200 Gra. Anaya, D. F.
 XETF ak 30 Veracruz, Ver.

1210 kcs. (247.8)

CJCS ak 50 Stratford, Ont.
 CJCU z 50 Aklavik, N. W. T.
 CKBI ak 100 F Prince Albert, Sask.
 CKCH ak 100 F Hull, Que.
 CKMG ak 50 Cobalt, Ont.
 CMHI ak 150 Santa Clara, Cuba
 KANS ak 100 Wichita, Kans.
 KASA ck 100 Elk City, Okla.
 KIDR ak 100 Devils Lake, N. D.
 KDON z 100 M Del Monte, Calif.
 KFII ak 100 Klamath Falls, Ore.
 KFQR ak 100 CM(.25) Lincoln, Neb.
 KFPW ak 100 Fort Smith, Ark.
 KEYS ak 100 6(.25) Cape Girardeau, Mo.
 KEXM ak 100 M9 San Bernardino, Calif.
 KGLO z 100 P Mason City, Iowa
 KGY ak 100 Olympia, Wash.
 KIUL ak 100 Garden City, Kans.

1230 kcs. (243.8)

KGBX ak 500 Springfield, Mo.
 KGGM ak 250 (.5)X Albuquerque, N. M.
 KYA ak 1000 N San Francisco, Calif.
 WFBM ae 1000 C(5) Indianapolis, Ind.
 WNAC ak 1000 R (5) Boston, Mass.
 XEFJ ak 100 Monterrey, N. L.

1240 kcs. (241.8)

CJCB ak 1000 F Sydney, N. S.
 CMHB z 50 Sancti Spiritus, Cuba
 KGCU ak 250 I Mandan, N. D.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

| | | | | |
|------|----|------|---|-------------------|
| KLPM | ak | 250 | 1 | Minot, N. D. |
| KTAT | ak | 1000 | | Port Worth, Texas |
| KTFT | ak | 1000 | | Twin Falls, Idaho |
| WKAO | ae | 1000 | | San Juan, P. R. |
| WXYZ | ak | 1000 | B | Detroit, Mich. |
| XEKL | z | 500 | | Leon, Guan. |
| XELA | z | 50 | | Saltillo, Coah. |

1250 kcys. (239.9)

| | | | | |
|------|----|------|--------|------------------------|
| CMKC | ak | 150 | | Santiago, Cuba |
| KFOX | ae | 1000 | | Long Beach, Calif. |
| WAIR | z | 250 | DP | Winston-Salem |
| WCAL | ah | 1000 | 2(2.5) | Northfield, Minn. |
| WDSU | ak | 1000 | | New Orleans, La. |
| WHBI | ak | 1000 | 1(2.5) | Newark, N. J. |
| WLB | ak | 1000 | 2 | Minneapolis, Minn. |
| WNEW | ak | 1000 | 1(2.5) | New York, N. Y. |
| WTCN | ak | 1000 | B(5) | Minneapolis, Minn. |
| XEXH | z | 250 | | San Luis Potosi, S.L.P |

1260 kcys. (238.0)

| | | | | |
|------|----|------|---------|--------------------|
| KGVO | ak | 1000 | C | Missoula, Mont. |
| KOIL | ak | 1000 | MB(2.5) | Omaha, Nebr. |
| KPAC | ak | 500 | D | Port Arthur, Texas |
| KRGV | ae | 500 | X | Weslaco, Texas |
| KUOA | ak | 2500 | D | Siloam Spgs., Ark. |
| KVOA | ak | 1000 | | Tucson, Ariz. |
| WHIO | ak | 1000 | C(5) | Dayton, Ohio |
| WNBX | ak | 1000 | | Springfield, Vt. |
| WTOC | ae | 1000 | C | Savannah, Ga. |

1270 kcys. (236.1)

| | | | | |
|------|----|------|--------|-----------------------|
| CMHD | dk | 250 | | Calbarien, Cuba |
| KGCA | ak | 100 | 2D | Decorah, Iowa |
| KOL | ae | 1000 | C(5) | Seattle, Wash. |
| KVOR | ae | 1000 | C | Colorado Sp'gs, Colo. |
| KWLC | ak | 100 | 2D | Decorah, Iowa |
| WASH | ak | 500 | aN | Grand Rapids, Mich. |
| WFBR | ae | 500 | R(1) | Baltimore, Md. |
| WJDJ | ae | 1000 | N(2.5) | Jackson, Miss. |
| WOOD | ak | 500 | aN | Grand Rapids, Mich. |
| XEXB | ak | 50 | | Jalapa, Ver. |

1280 kcys. (234.2)

| | | | | |
|------|-----|------|--------|--------------------|
| CMCU | aed | 500 | | Havana, Cuba |
| KFBF | ae | 1000 | C(2.5) | Great Falls, Mont. |
| KLS | ak | 250 | | Oakland, Calif. |
| WCAM | ae | 500 | 1 | Camden, N. J. |
| WCAP | ae | 500 | 1 | Asbury Park, N. J. |
| WDOD | ak | 1000 | C(5) | Chattanooga, Tenn. |
| WIBA | ae | 1000 | N(5) | Madison, Wis. |
| WORC | ak | 500 | C | Worcester, Mass. |
| WRR | ak | 500 | | Dallas, Texas |
| WTNJ | ak | 500 | 1 | Trenton, N. J. |
| XEMX | z | 100 | | Mexico City, D. F. |

1290 kcys. (232.4)

| | | | | |
|------|----|------|-------|----------------------|
| KDYL | ak | 1000 | RX | Salt Lake City, Utah |
| KLCN | ak | 100 | D | Blytheville, Ark. |
| KTRH | ak | 1000 | C(5) | Houston, Texas |
| WEBC | ak | 1000 | N(5) | Duluth, Minn. |
| WJAS | ak | 1000 | C(5) | Pittsburgh, Pa. |
| WNBZ | ak | 100 | D | Saranac Lake, N. Y. |
| WNEL | ak | 1000 | (2.5) | San Juan, P. R. |

1300 kcys. (230.6)

| | | | | |
|------|----|------|------|---------------------|
| KALE | ak | 500 | 3C | Portland, Ore. |
| KFAC | ak | 1000 | | Los Angeles, Calif. |
| KFH | ak | 1000 | C | Wichita, Kans. |
| KFJR | ag | 500 | 3 | Portland, Ore. |
| WBBR | ak | 1000 | 1 | Brooklyn, N. Y. |
| WEVD | ak | 1000 | 1 | New York, N. Y. |
| WFAB | ae | 1000 | 1 | New York, N. Y. |
| WFBC | ak | 1000 | (5)N | Greenville, S. C. |
| WIAZ | ae | 500 | 1X | Troy, N. Y. |
| WHBL | ae | 250 | | Sheboygan, Wis. |
| WIOD | ak | 1000 | N | Miami, Fla. |

1310 kcys. (228.9)

| | | | | |
|------|----|-----|--------|-----------------------|
| CHCK | ak | 50 | | Charlottetown, P.E.I. |
| GJKL | ak | 100 | F | Kirkland Lake, Ont. |
| GJLS | ak | 100 | | Yarmouth, N. S. |
| GKCV | ak | 100 | F | Quebec, Que. |
| KAND | z | 100 | DP | Corsicana, Texas |
| KKKN | ak | 100 | | Kansas City, Kans. |
| KKRJ | ak | 100 | D | Jerome, Ariz. |
| KFPL | dk | 100 | (25) | Dublin, Texas |
| KFXR | ak | 150 | (2) | Oklahoma City, Okla. |
| KFYO | ak | 100 | (25) | Lubbock, Texas |
| KGEZ | ae | 100 | | Kalispell, Mont. |
| KGFW | ak | 100 | | Kearney, Neb. |
| KHUB | z | 250 | DP | Watsonville, Calif. |
| KINY | ak | 100 | | Juneau, Alaska |
| KIT | ak | 100 | (25) | Yakima, Wash. |
| KMED | ak | 100 | XZ(25) | Medford, Ore. |
| KPDN | ak | 100 | D | Pampa, Texas |
| KRMC | z | 100 | 1P | Jamestown, N. D. |
| KRMD | ak | 100 | | Shreveport, La. |
| KROC | ak | 100 | | Rochester, Minn. |
| KROY | z | 100 | DP | Sacramento, Calif. |
| KRQA | ak | 100 | | Santa Fe, N. Mex. |
| KRRV | z | 100 | DX | Sherman, Texas |
| KRSO | z | 250 | DP | Santa Rosa, Calif. |
| KSUB | z | 100 | P | Cedar City, Utah |
| KTSM | ak | 100 | | El Paso, Texas |
| KVOL | ak | 100 | | Lafayette, La. |
| KVOX | z | 100 | 1P | Moorhead, Minn. |
| KWOS | z | 100 | DP | Jefferson City, Mo. |
| KXRO | ak | 100 | | Aberdeen, Wash. |
| WAML | ak | 100 | | Laurel, Miss. |
| WBEO | ae | 100 | | Marquette, Mich. |
| WBOW | ak | 100 | (25) | Terre Haute, Ind. |
| WBRE | ak | 100 | | Wilkes Barre, Pa. |
| WCLS | ak | 100 | | Joliet, Ill. |
| WCGI | ak | 100 | (25) | Ashland, Ky. |
| WDAH | ak | 100 | S | El Paso, Texas |
| WEBR | ak | 100 | B(25) | Buffalo, N. Y. |
| WEMP | ak | 100 | D | Milwaukee, Wis. |
| WEXL | ak | 50 | | Royal Oak, Mich. |
| WFBG | ae | 100 | 3 | Altoona, Pa. |
| WFDF | ak | 100 | | Flint, Mich. |
| WGH | ak | 100 | (25) | Newport News, Va. |
| WHAT | ak | 100 | 4 | Philadelphia, Pa. |
| WJAC | ae | 100 | 3 | Johnstown, Pa. |
| WLAK | z | 100 | | Lakeland, Fla. |
| WLBC | ak | 100 | 6(25) | Muncie, Ind. |
| WLNH | ak | 100 | | Laconia, N. H. |
| WMBO | ak | 100 | | Auburn, N. Y. |
| WMFF | ak | 100 | (25) | Plattsburg, N. Y. |
| WNBH | ak | 100 | M(25) | New Bedford, Mass. |
| WOL | ae | 100 | XZ | Washington, D. C. |
| WRAW | ak | 100 | | Reading, Pa. |
| WROL | ak | 100 | (25) | Knoxville, Tenn. |
| WSAJ | ae | 100 | | Grove City, Pa. |
| WSGN | ak | 100 | (25) | Birmingham, Ala. |
| WSJS | ak | 100 | C | Winston-Salem, N.C. |
| WTAL | ak | 100 | | Tallahassee, Fla. |
| WTEL | ce | 100 | 4 | Philadelphia, Pa. |
| WTJS | ak | 100 | (25) | Jackson, Tenn. |
| WTRC | ak | 100 | 6(25) | Elkhart, Ind. |
| XEAG | z | 10 | | Cordoba, Ver. |
| XECW | ak | 10 | | Mexico City, D. F. |
| XEFW | ak | 250 | | Tampico, Tams. |

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

XETB ak 125 Torreon, Coah.
 XEX ak 125 Monterrey, N. L.

1320 kcys. (227.1)

CMOX ak 200 Havana, Cuba
 KGHF am 500 B Pueblo, Colo.
 KGMB ak 1000 C Honolulu, T. H.
 KID ae 500 (1) Idaho Falls, Idaho
 KRNT ak 500 C(1)X Des Moines, Iowa
 WADC ae 1000 C(5) Akron, Ohio
 WORK ak 1000 York, Pa.
 WSMB ak 1000 N New Orleans, La.

1330 kcys. (225.4)

GMHK z 250 Cruces, Cuba
 GMKW z Santiago, Cuba
 KGB ak 1000 M San Diego, Calif.
 KMO ak 250 X Tacoma, Wash.
 KSCJ ak 1000 C(5) Sioux City, Iowa
 WDRG ae 1000 C(5) Hartford, Conn.
 WSAI ak 1000 MR(2.5) Cincinnati, Ohio
 WTAQ ae 1000 Green Bay, Wis.

1340 kcys. (223.7)

CMAB z Pinar del Rio, Cuba
 CMJL z 75 Camaguey, Cuba
 KGDY ak 250 D Huron, S. D.
 KGIR ak 1000 N(2.5) Butte, Mont.
 KGNO ak 250 Dodge City, Kans.
 WCOA ak 500 C Pensacola, Fla.
 WFEA ak 500 NM(1) Manchester, N. H.
 WSPD ae 1000 C(5) Toledo, Ohio
 XEFE z 250 Nuevo Laredo, Tams.
 XEXD z 350 Jalapa, Ver.

1350 kcys. (222.1)

CMCA ak 450 Havana, Cuba
 KIDO ak 1000 (2.5) Boise, Idaho
 KWK ak 1000 M(5) St. Louis, Mo.
 WAWZ ae 500 1(1) Zarephath, N. J.
 WBNX ae 1000 1 New York, N. Y.

1360 kcys. (220.4)

CMJH dk 50 Ciego de Avila, Cuba
 KCRC ak 250 Enid, Okla.
 KGER ak 1000 Long Beach, Calif.
 WCSC ak 500 (1)N Charleston, S. C.
 WFBL ak 1000 C(5) Syracuse, N. Y.
 WGES ae 500 1 Chicago, Ill.
 WQBC ak 1000 D Vicksburg, Miss.
 WSBT ak 500 1 South Bend, Ind.

1370 kcys. (218.8)

CKCW ak 100 F Moncton, N. B.
 CMGE ak 150 Cardenas, Cuba
 KAST ak 100 D Astoria, Ore.
 KCMO ak 100 Kansas City, Mo.
 KEEN ak 100 i Seattle, Wash.
 KELD z 100 El Dorado, Ark.
 KERN ak 100 Bakersfield, Calif.
 KFGO ak 100 Boone, Iowa
 KFJZ ae 100 (2.5) Fort Worth, Texas
 KFRO ak 100 D Longview, Texas
 KGAR ae 100 (2.5) Tucson, Ariz.

KGFG bk 100 Oklahoma City, Okla
 KGFL ak 100 4 Roswell, N. M.
 KGKL ak 100 (2.5) San Angelo, Texas
 KIGA ak 100 4 Clovis, N. M.
 KIUP ak 100 Durango, Colo.
 KLUF ak 100 (2.5) Galveston, Texas
 KMAC ak 100 5 San Antonio, Tex.
 KOBH ak 100 Rapid City, S. Dak.
 KONO ak 100 5 San Antonio, Tex.
 KRE ak 100 (2.5) Berkeley, Calif.
 KRKO ak 50 1 Everett, Wash.
 KSLM ak 100 Salem, Ore.
 KTEM z 100 D Temple, Texas
 KUJ ak 100 Walla Walla, Wash.
 KVGB z 100 P Great Bend, Kans.
 KWYO ak 100 (2.5) Sheridan, Wyo.
 WABY ak 100 B Albany, N. Y.
 WAGF ak 250 D Dothan, Ala.
 WATL ak 100 (2.5) Atlanta, Ga.
 WBLK z 100 DP Clarksburg, W. Va.
 WBNY ak 100 2(2.5) Buffalo, N. Y.
 WBTM ak 100 (2.5) Danville, Va.
 WCBM ae 100 (2.5) Baltimore, Md.
 WDAS ak 100 (2.5) Philadelphia, Pa.
 WDSW ak 100 DP Champaign, Ill.
 WEOA z 100 Evansville, Ind.
 WFOR ak 100 Hattiesburg, Miss.
 WGL ck 100 C Fort Wayne, Ind.
 WGRC ak 250 D New Albany, Ind.
 WHBQ ak 100 Memphis, Tenn.
 WHDF ak 100 (2.5) Calumet, Mich.
 WHLB ak 100 Virginia, Minn.
 WIBM ak 100 (2.5) Jackson, Mich.
 WLLH ak 100 M(2.5) Lowell, Mass.
 WMBR ak 100 C(2.5) Jacksonville, Fla.
 WMFD ak 100 D Wilmington, N. C.
 WMFO ak 100 D Decatur, Ala.
 WMIN ak 100 (2.5) St. Paul, Minn.
 WOC ak 100 C(2.5) Davenport, Iowa
 WPAY ak 100 Portsmouth, Ohio
 WPRa z 100 (2.5)P Mayaguez, P. R.
 WRAK ak 100 (2.5) Williamsport, Pa.
 WRDO ae 100 Augusta, Maine
 WRJN ak 100 (2.5) Racine, Wis.
 WSAU z 100 DP Wausau, Wis.
 WSVS ak 50 D2 Buffalo, N. Y.
 XECZ z 100 San Luis Potosi, S.L.P.
 XEI ak 125 Morelia, Mich.
 XELZ z 100 Mexico City, D. F.

1380 kcys. (217.3)

CMCR z 150 Havana, Cuba
 KOH ak 500 C Reno, Nev.
 KOV ae 500 1C Pittsburgh, Pa.
 WALA af 500 C(1) Mobile, Ala.
 WKBH ae 1000 LaCrosse, Wis.
 WNBC ak 250 D New Britain, Conn.
 WSMK ak 200 1C Dayton, Ohio

1390 kcys. (215.7)

CJGX ak 100 Yorkton, Sask.
 CMJC z 150 Camaguey, Cuba
 KLRA ae 1000 C(2.5) Little Rock, Ark.
 KOY ae 500 (1) Phoenix, Ariz.
 WHK ae 1000 C(2.5) Cleveland, Ohio
 WQDM d 1000 D St. Albans, Vt.

1400 kcys. (214.2)

CMGC ad 150 Matanzas, Cuba
 CMKR z 100 Santiago, Cuba
 KHBC z 250 Hilo, T. H.
 KLO ae 500 B Ogden, Utah
 KTUL ak 500 C(1) Tulsa, Okla.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

| | | | | |
|------|----|------|-------|--------------------|
| WARD | ak | 500 | 2 | Brooklyn, N. Y. |
| WBBC | ae | 500 | 2(1) | Brooklyn, N. Y. |
| WEGL | z | 500 | P | Brooklyn, N. Y. |
| WHDL | ak | 250 | D | Olean, N. Y. |
| WIRE | ak | 1000 | MR(5) | Indianapolis, Ind. |
| WLTH | ak | 500 | 2 | Brooklyn, N. Y. |
| WVFW | ak | 500 | 2 | Brooklyn, N. Y. |

1430 kcys. (209.7)

| | | | | |
|------|----|------|-------|---------------------|
| CMJP | ak | 75 | ..... | Moron, Cuba |
| KECA | ak | 1000 | (5) B | Los Angeles, Calif. |
| KGNF | ak | 1000 | D | North Platte, Neb. |
| KSO | ak | 500 | BM(1) | Des Moines, Iowa |
| WBNS | ak | 500 | C (1) | Columbus, Ohio |
| WHEC | ak | 500 | C (1) | Rochester, N. Y. |
| WHP | ak | 500 | C (1) | Harrisburg, Pa. |
| WNBR | ae | 500 | (1) | Memphis, Tenn. |
| WOKO | ae | 500 | C (1) | Albany, N. Y. |

1410 kcys. (212.6)

| | | | | |
|------|----|------|--------|--------------------|
| CKFC | ak | 50 | 5 | Vancouver, B. C. |
| CKMO | ag | 100 | 5F | Vancouver, B. C. |
| CMCQ | ak | 250 | ..... | Havana, Cuba |
| KFJM | ak | 500 | (1) | Grand Forks, N. D. |
| KGNC | ak | 1000 | N(2.5) | Amarillo, Texas |
| WAAB | ak | 500 | M | Boston, Mass. |
| WBGM | ae | 500 | ..... | Bay City, Mich. |
| WHIS | ak | 500 | (1) | Bluefield, W. Va. |
| WROK | ak | 500 | ..... | Rockford, Ill. |
| WSFA | ak | 500 | C(1) | Montgomery, Ala. |

1440 kcys. (208.2)

| | | | | |
|------|----|------|-------|-------------------|
| CMOA | z | 150 | ..... | Havana, Cuba |
| KDFN | ak | 500 | ..... | Casper, Wyo. |
| KXYZ | ak | 1000 | ..... | Houston, Texas |
| WBIG | ak | 500 | C(1)X | Greensboro, N. C. |
| WCBA | aj | 500 | a | Allentown, Pa. |
| WMBD | ak | 500 | C (1) | Peoria, Ill. |
| WSAN | aj | 500 | a | Allentown, Pa. |
| XEFI | ae | 250 | ..... | Chihuahua, Chih. |

1450 kcys. (206.8)

| | | | | |
|------|----|-------|-------|--------------------|
| CFCT | ae | 75 | (.05) | Victoria, B. C. |
| CHGS | ae | 50 | F | Summerside, P.E.I. |
| CMHM | z | ..... | ..... | Cienfuegos, Cuba |
| KGCC | ak | 1000 | ..... | Wolf Point, Mont. |
| KIFM | ak | 500 | ..... | Eureka, Calif. |
| KTBS | ak | 1000 | N | Shreveport, La. |
| WGAR | ak | 500 | MB(1) | Cleveland, Ohio |
| WHOM | ae | 250 | ..... | Jersey City, N. J. |
| WSAR | ak | 1000 | M | Fall River, Mass. |
| WTFI | ak | 500 | Y | Athens, Ga. |
| XEF | ak | 100 | ..... | Juarez, Chih. |

1420 kcys. (211.1)

| | | | | |
|------|----|-----|--------|----------------------|
| CKGB | ak | 100 | F | Timmins, Ont. |
| CRCY | ak | 100 | ..... | Toronto, Ont. |
| KABC | ak | 100 | (.25) | San Antonio, Texas |
| KABR | ak | 100 | ..... | Aberdeen, S. Dak. |
| KALB | z | 100 | D | Alexandria, La. |
| KBPS | ak | 100 | 4 | Portland, Ore. |
| KCMC | ak | 100 | Y | Texarkana, Ark. |
| KEUB | z | 100 | ..... | Price, Utah |
| KFIZ | ak | 100 | ..... | Fond du Lac, Wis. |
| KGFF | ak | 100 | (.25) | Shawnee, Okla. |
| KGGC | ak | 100 | ..... | San Francisco, Cal. |
| KGIW | ak | 100 | 1 | Alamosa, Colo. |
| KIDW | ak | 100 | 1 | Lamar, Colo. |
| KIUN | ak | 100 | ..... | Pecos, Texas |
| KNET | z | 100 | D | Palestine, Texas |
| KORE | z | 100 | ..... | Eugene, Ore. |
| KRBC | ak | 100 | (.25) | Abilene, Tex. |
| KRLC | ak | 100 | XZ | Lewiston, Idaho |
| KRLH | z | 100 | D | Midland, Tex. |
| KUMA | ak | 100 | ..... | Yuma, Ariz. |
| KWBG | ak | 100 | ..... | Hutchinson, Kans. |
| KXL | ak | 100 | 4(.25) | Portland, Ore. |
| WACO | ak | 100 | C | Waco, Texas |
| WAGM | ae | 100 | ..... | Pesque Isle, Maine |
| WAPO | ak | 100 | D | Chattanooga, Tenn. |
| WAZL | ak | 100 | 2 | Hazleton, Pa. |
| WCBS | ak | 100 | ..... | Springfield, Ill. |
| WCHV | ak | 100 | 3(.25) | Charlottesville, Va. |
| WEED | ak | 100 | 3(.25) | Rocky Mt., N. C. |
| WELL | ak | 100 | ..... | Battle Creek, Mich. |
| WGPC | ak | 100 | ..... | Albany, Ga. |
| WIFC | ak | 100 | (.25) | Cicero, Ill. |
| WILM | aj | 100 | 2 | Wilmington, Del. |
| WJBO | ak | 100 | XZ | Baton Rouge, La. |
| WJBR | z | 100 | P | Gastonia, N. C. |
| WJMS | ak | 100 | ..... | Ironwood, Mich. |
| WLAP | ak | 100 | (.25) | Lexington, Ky. |
| WLEU | ak | 100 | (.25) | Erie, Pa. |
| WMAS | ak | 100 | C(.25) | Springfield, Mass. |
| WMCB | ae | 100 | (.25) | Detroit, Mich. |
| WMBH | ak | 100 | (.25) | Joplin, Mo. |
| WMFJ | ak | 100 | ..... | Daytona Beach, Fla. |
| WMSD | ak | 100 | ..... | Sheffield, Ala. |
| WNNY | z | 100 | (.25)P | Watertown, N. Y. |
| WPAD | ak | 100 | (.25) | Paducah, Ky. |
| WPAR | ak | 100 | ..... | Parkersburg, W. Va. |
| WPRP | z | 100 | P(.25) | Ponce, P. R. |

1460 kcys. (205.4)

| | | | | |
|------|----|-------|-------|-------------------|
| CMKF | z | 50 | ..... | Holguin, Cuba |
| CMOK | z | 150 | ..... | Havana, Cuba |
| KSTP | ak | 10000 | R(25) | St. Paul, Minn. |
| WJSV | ak | 10000 | C | Washington, D. C. |

1470 kcys. (204.0)

| | | | | |
|------|----|------|---|------------------|
| KGA | ak | 5000 | B | Spokane, Wash. |
| WLAC | ak | 5000 | C | Nashville, Tenn. |

1480 kcys. (202.6)

| | | | | |
|------|----|------|---|----------------------|
| KOMA | ak | 5000 | C | Oklahoma City, Okla. |
| WKBW | ae | 5000 | C | Buffalo, N. Y. |

1490 kcys. (201.2)

| | | | | |
|------|----|------|---|--------------------|
| KFBK | ak | 5000 | C | Sacramento, Calif. |
| WKCY | ae | 5000 | N | Covington, Ky. |

1500 kcys. (199.9)

| | | | | |
|------|----|-------|--------|------------------------|
| CJIC | ak | 100 | ..... | Sault Ste. Marie, Ont. |
| CMCN | z | ..... | ..... | Havana, Cuba |
| KAWM | z | 100 | P | Gallup, N. Mex. |
| KBIX | z | 100 | ..... | Muskogee, Okla. |
| KBST | z | 100 | ..... | Big Spring, Tex. |
| KDAL | ak | 100 | ..... | Duluth, Minn. |
| KDB | ak | 100 | M(.25) | Santa Barbara, Cal. |
| KGFI | ak | 100 | (.25) | Corpus Christi, Tex. |
| KGKB | ak | 100 | ..... | Tyler, Texas |
| KGKY | ak | 100 | (.25) | Scottsbluff, Neb. |

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

| | | | | | | | | | |
|------|----|-----|---------|----------------------|-------|----|-----|---------|----------------------|
| KNEL | ak | 100 | D | Brady, Texas | WOPI | ae | 100 | .... | Bristol, Tenn. |
| KNOW | ak | 100 | C | Austin, Texas | WRDW | ak | 100 | .... | Augusta, Ga. |
| KOTN | ak | 100 | D | Pine Bluff, Ark. | WRGA | ak | 100 | (.25) | Rome, Ga. |
| KOVC | ak | 100 | .... | Valley City, N. Dak. | WSYB | ak | 100 | .... | Rutland, Vt. |
| KPLC | ak | 100 | .... | Lake Charles, La. | WTMV | ak | 100 | .... | East St. Louis, Ill. |
| KPLT | z | 100 | D | Paris, Texas | WWRL | ak | 100 | 1 (.25) | Woodside, N. Y. |
| KPO | ak | 100 | (.25) | Wenatchee, Wash. | WWSW | ae | 100 | (.25) | Pittsburgh, Pa. |
| KRNR | ak | 100 | (.25) | Roseburg, Ore. | ..... | z | 100 | P | Richmond, Va. |
| KRQD | z | 100 | P | El Paso, Texas | | | | | |
| KSJS | z | 100 | P | Salina, Kans. | | | | | |
| KTEP | z | 100 | P | El Paso, Texas | | | | | |
| KUTA | z | 100 | P | Salt Lake City, Utah | | | | | |
| KVOE | ak | 100 | .... | Santa Ana, Calif. | | | | | |
| KXO | ak | 100 | .... | El Centro, Calif. | | | | | |
| KYCA | z | 100 | (.25)P | Prescott, Ariz. | | | | | |
| WCNW | ak | 100 | 1 (.25) | Brooklyn, N. Y. | | | | | |
| WDNC | ae | 100 | C | Durham, N. C. | | | | | |
| WGAL | ae | 100 | (.25) | Lancaster, Pa. | | | | | |
| WHBB | ak | 100 | D | Selma, Ala. | | | | | |
| WHEF | ak | 100 | (.25) | Kosciusko, Miss. | | | | | |
| WJBK | ae | 100 | (.25) | Detroit, Mich. | | | | | |
| WKBB | ak | 100 | (.25) | E. Dubuque, Ill. | | | | | |
| WKBV | ak | 100 | (.25) | Richmond, Ind. | | | | | |
| WKBZ | ak | 100 | (.25) | Muskegon, Mich. | | | | | |
| WKEU | ak | 100 | D | Griffin, Ga. | | | | | |
| WMBQ | ae | 100 | 1 | Brooklyn, N. Y. | | | | | |
| WMEX | ak | 100 | (.25) | Boston, Mass. | | | | | |
| WNBF | ae | 100 | C | Binghamton, N. Y. | | | | | |
| WNLC | ak | 100 | D | New London, Conn. | | | | | |

1510 kcys. (198.6)

CFRC ak 100 F Kingston, Ont.
CKCR ak 100 Waterloo, Ont.

1530 kcys. (196.0)

WBRV ak 1000 M Waterbury, Conn.
KXBY ak 1000 Kansas City, Mo.

1550 kcys. (193.4)

KPMC ak 1000 Bakersfield, Calif.
WQXR ak 1000 New York, N. Y.

KEY TO SYMBOLS

As shown in the Index by
Frequencies and Dial Numbers

Frequency is given in kilocycles; wave lengths in meters. Night power is shown in watts in third column. Daytime power is shown in parenthesis in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

| | | |
|---|---|---|
| <p>Second Column Symbols</p> <p>a Verifies reception for return postage.</p> <p>b Verifies only occasionally.</p> <p>c Does not verify.</p> <p>d Verification 10c; letter 25c.</p> <p>h Sends own station stamp for 10c.</p> <p>f Sends own station stamp for 5c.</p> <p>j Sends own station stamp for postage.</p> <p>k Has no stamps.</p> <p>m Verifies for 5c.</p> | <p>n Weather or time only.</p> <p>z No information available.</p> <p style="text-align: center;">Fourth Column Symbols</p> <p>B National "Blue" network.</p> <p>C Columbia network.</p> <p>D Day time only.</p> <p>Dn Day time with occasional evening hours.</p> <p>F Canadian Brdcast. Corp.</p> <p>M Mutual Brdcast. Sys.</p> <p>N National "Red" and "Blue" networks.</p> | <p>P Has construction permit only.</p> <p>R National "Red" network.</p> <p>S Sunday only.</p> <p>Sy Synchronized.</p> <p>X Has permit to increase power.</p> <p>Y Has permit to change location.</p> <p>Z Has permit to change frequency.</p> <p>a-b-c. Small letters show stations using same transmitter.</p> <p>1-2-3. Figures denote stations sharing time.</p> <p>.... No information.</p> |
|---|---|---|

Television

(Continued from Page 7)

these photographs was made by a camera, one at a time, but only a fraction of a second apart. They are then projected by throwing the shadows on a screen by means of a powerful light.

This rapidly changing series of pictures gives the illusion of continuous action. The eye cannot follow each individual picture, or observe the brief intervals between while the next view is being moved

up in place and projected on the screen. Each picture shows the action that occurs a brief moment after that in each preceding picture. It appears that we "see" motion, but in order to get action the pictures or "frames" must be changed not less than 17 times a second. About 25 frames a second provide smoother action with no appreciable flicker.

(Next month we shall discuss further the operation of scanning the subjects or views to be transmitted, as well as motion by television).

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Frequency in kilocycles in second column. Night power in watts in third column. Net work affiliations in fourth column: C Columbia, R National Red, B National Blue, N National Red and Blue, F Canadian, M Mutual.

| ALABAMA | CALIFORNIA | Santa Rosa | Gainesville |
|------------------|------------------|-----------------------------|------------------|
| Birmingham | Bakersfield | KSRO 1310 250 | WRUF 830 5000 |
| WAPI 1140 5000 N | KERN 1370 100 C | Stockton | Jacksonville |
| WBRC 930 1000 C | KPMC 1550 1000 | KGDM 1100 1000M | WJAX 900 1000 N |
| WSGN 1310 100 | Berkeley | KWG 1200 100 N | WMBR 1370 100 C |
| Decatur | KRE 1370 100 | Visalia | Lakeland |
| WMFO 1370 100 | Beverly Hills | 1190 250 | WLAK 1310 100 |
| Dothan | KMPC 710 500M | Watsonville | Miami |
| WAGF 1370 250 | Chico | KHUB 1310 250 | WIOD 1300 1000 N |
| Gadsden | KHSL 950 250 | | WQAM 560 1000 C |
| WJBY 1210 100 | Del Monte | COLORADO | Orlando |
| Huntsville | KDON 1210 100M | Alamosa | WDBO 580 1000 C |
| WBHP 1200 100 | El Centro | KGIW 1420 100 | Pensacola |
| WALA 1380 500 C | KXO 1500 100 | Colorado Springs | WCOA 1340 500 C |
| Montgomery | Eureka | KVOR 1270 1000 C | St. Augustine |
| WSFA 1410 500 C | KIEM 1450 500 | Denver | WFOY 1210 100 |
| Selma | Fresno | KFEL 920 500M | St. Petersburg |
| WHBB 1500 100 | KMJJ 580 500 C | KLZ 560 1000 C | WSUN 620 1000 N |
| Sheffield | Glendale | KOA 830 50000 N | Tallahassee |
| WMSD 1420 100 | KIEV 850 250 | KPOF 880 500 | WTAL 1310 100 |
| Tuscaloosa | Hollywood | KVOD 920 500 B | Tampa |
| WJRD 1200 100 | KFWB 950 1000 | Durango | WDAE 1220 1000 C |
| | KMTR 570 1000 | KIUP 1370 100 | West Palm Beach |
| | KNX 1050 50000 C | Grand Junction | WJNO 1200 100 C |
| | Long Beach | KFXJ 1200 100 | |
| | KFOJ 1250 1000 | Greeley | GEORGIA |
| | KGER 1360 1000 | KFKA 880 500 | Albany |
| | Los Angeles | Lamar | WGPC 1420 100 |
| | KECA 1430 1000 B | KIDW 1420 100 | Athens |
| | KEHE 780 1000 | Pueblo | WTFI 1450 500 |
| | KFAC 1300 1000 | KGHF 1320 500 B | Atlanta |
| | KFI 640 50000 R | Sterling | WATL 1370 100 |
| | KFSG 1120 500 | KGEK 1200 100 | WGST 890 1000 C |
| | KFVD 1000 250 | | WSB 740 50000 N |
| | KGFJ 1200 100 | CONNECTICUT | Augusta |
| | KHJ 900 1000M | Bridgeport | WRDW 1500 100 |
| | KRKD 1120 500 | WICC 600 500M | Columbus |
| | Merced | Hartford | WRBL 1200 100 |
| | KYOS 1040 250 | WDRC 1330 1000 C | Griffin |
| | Modesto | WTIC 1040 50000 R | WKEU 1500 100 |
| | KTRB 740 250 | WTHI 1200 100M | Macon |
| | Oakland | New Britain | WMAZ 1180 1000 |
| | KLS 1280 250 | WNBC 1380 250 | Rome |
| | KLX 880 1000 | New Haven | WRGA 1500 100 |
| | KROW 930 1000 | WELI 900 500 | Savannah |
| | Pasadena | New London | WTOC 1260 1000 C |
| | KPPC 1210 100 | WNLC 1500 100 | Thomasville |
| | Redding | Waterbury | WPAX 1210 100 |
| | KVCV 1200 100 | WATR 1190 100 | Waycross |
| | Sacramento | WBRY 1530 1000M | WAYX 1200 100 |
| | KPBK 1490 5000 C | | |
| | KROY 1310 100 | DELAWARE | HAWAII |
| | San Bernardino | Wilmington | Hilo |
| | KPKM 1210 100M | WDEL 1120 250 | KHBC 1400 250 |
| | San Diego | WILM 1420 100 | Honolulu |
| | KFSD 600 1000 B | | KGMB 1320 1000 C |
| | KGB 1330 1000M | | KGU 750 2500 N |
| | San Francisco | DISTRICT OF COLUMBIA | |
| | KFRG 610 1000M | Washington | IDAHO |
| | KGGC 1420 100 | WJSV 1460 10000 C | Boise |
| | KGO 790 7500 B | WMAL 630 250 B | KIDO 1350 1000 |
| | KJBS 1070 500 | WOL 1310 100 | Idaho Falls |
| | KPO 680 50000 R | WRC 950 500 R | KID 1320 500 |
| | KSFO 560 1000 | | Lewiston |
| | KYA 1230 1000 N | | KRLC 1420 100 |
| | San Jose | | Nampa |
| | KQW 1010 1000 | | KFXD 1200 100 |
| | San Luis Obispo | | Pocatello |
| | KVEC 1200 250 | | KSEI 900 250 |
| | Santa Ana | | Twin Falls |
| | KVOE 1500 100 | | KTFI 1240 1000 |
| | Santa Barbara | | |
| | KDB 1500 100M | | |
| | | FLORIDA | |
| | | Clearwater | |
| | | WFLA 620 1000 N | |
| | | Daytona Beach | |
| | | WMFJ 1420 100 | |

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

| ILLINOIS | Muncie | Covington | Fall River |
|-------------------|------------------|----------------------|-------------------|
| Bloomington | WLBK 1310 100 | WCKY 1490 5000 N | WSAR 1450 1000M |
| WJBC 1200 100 | New Albany | Lexington | Lowell |
| Carthage | WGRK 1370 250 | WLAP 1420 100 | WLLH 1370 100M |
| WCZA 1070 100 | Richmond | Louisville | New Bedford |
| Champaign | WKBV 1500 100 | WAVE 940 1000 N | WNBH 1310 100M |
| WDWS 1370 100 | South Bend | WHAS 820 50000 C | Springfield |
| Chicago | WFAM 1200 100 | Middlesboro | WRAZ 990 1000 B |
| WAAF 920 1000 | WSBT 1360 500 C | WLMU 1210 100 | WMA5 1420 100 C |
| WBBM 770 50000 C | Terre Haute | Paducah | WSPR 1140 500M |
| WCBD 1080 5000 | WBOW 1310 100 | WPAD 1420 100 | Worcester |
| WCFL 970 5000 B | West Lafayette | | WORC 1280 500 C |
| WCRW 1210 100 | WBAA 890 500 | | WTAG 580 500 R |
| WEDC 1210 100 | | LOUISIANA | MICHIGAN |
| WENR 870 50000 N | IOWA | Alexandria | Battle Creek |
| WGES 1360 500 | Ames | KALB 1420 100 | WELL 1420 100 |
| WGN 720 50000M | WOI 640 5000 | Baton Rouge | Bay City |
| WJJD 1130 20000 | Boone | WJBO 1420 100 | WBCM 1410 500 |
| WLS 870 50000 N | KFGQ 1370 100 | Lafayette | Calumet |
| WMAQ 670 50000 N | Cedar Rapids | KVOL 1310 100 | WHDF 1370 100 |
| WMBI 1080 5000 | WMT 600 1000 B | Lake Charles | Detroit |
| WBSK 1210 100 | Davenport | KPLC 1500 100 | WJBK 1500 100 |
| Cicero | WOC 1370 100 C | Monroe | WJB 750 50000 C |
| WHFC 1420 100 | Decorah | New Orleans | WMBK 1420 100 |
| Decatur | KGGA 1270 100 | WBNO 1200 100 | WWJ 920 1000 R |
| WJBL 1200 100 | KWLC 1270 100 | WDSU 1250 1000 | WXYZ 1240 1000 B |
| East Dubuque | Des Moines | WJBW 1200 100 | WKAR 850 1000 |
| WKBB 1500 100 | KRNT 1320 500 C | WSMB 1320 1000 N | Flint |
| East St. Louis | KSO 1430 500 B | WWL 850 10000 C | WFDF 1310 100 |
| WTMV 1500 100 | WHO 1000 50000 R | Shreveport | Grand Rapids |
| Harrisburg | Iowa City | KRMD 1310 100 | WASH 1270 500 N |
| WEBQ 1210 100 | WSUI 880 500 | KTBS 1450 1000 N | WOOD 1270 500 N |
| Joliet | Marshalltown | KWKH 1100 1000 C | Ironwood |
| WCLS 1310 100 | KFJB 1200 100 | | WJMS 1420 100 |
| Peoria | Mason City | MAINE | Jackson |
| WMBE 1440 500 C | KGLO 1210 100 | Augusta | WBM 1370 100 |
| Quincy | Shenandoah | WRDO 1370 100 | Kalamazoo |
| WTAD 900 1000 | KFNF 890 500 | Bangor | WKZO 590 1000 B |
| Rockford | KMA 930 1000 | WABI 1200 100 | Lansing |
| WROK 1410 500 | KSCJ 1330 1000 C | WLBZ 620 500 C | WJIM 1210 100 |
| Rock Island | KANSAS | Portland | Lees |
| WHBF 1210 100 | Abilene | WCSH 940 1000 R | WMFC 1200 100 |
| Springfield | KFBI 1050 5000 | WGAN 640 500 | WMBQ 1200 100 |
| WCBS 1420 100 | Coffeyville | Presque Isle | WBOE 1310 100 |
| WTAX 1210 100 | KGGF 1010 1000 | WAGM 1420 100 | Muskegon |
| Tuscola | Dodge City | | WKBZ 1500 100 |
| WZD 1020 250 | KGNO 1340 250 | MARYLAND | Royal Oak |
| Urbana | Garden City | Baltimore | WEXL 1310 50 |
| WILL 580 250 | KIUL 1210 100 | WBAL 760 2500 B | MINNESOTA |
| | Great Bend | WBAL 1060 10000 B | Duluth |
| INDIANA | KVGB 1370 100 | WCAO 600 500 C | KDAL 1500 100 |
| Anderson | Hutchinson | WCBM 1370 100 | WBCB 1290 1000 N |
| WHBU 1210 100 | KWBG 1420 100 | WFBP 1270 500 R | Fergus Falls |
| Elkhart | Kansas City | College Park | KGDE 1200 100 |
| WTRC 1310 100 | KCKN 1310 100 | 1060 100 | Hibbing |
| Evansville | Lawrence | Cumberland | WMFG 1210 100 |
| WEQA 1370 100 | KFKU 1220 1000 | WTBO 800 250 | Minneapolis |
| WGBF 630 500 | WREN 1220 1000 B | Frederick | WCCO 810 50000 C |
| Fort Wayne | Manhattan | WFMD 900 500 | WDGY 1180 1000 |
| WGL 1370 100 C | KSAC 580 500 | Hagerstown | WLB 1250 1000 |
| WOWO 1160 10000 C | Pittsburg | WJEJ 1210 100 | WTCN 1250 1000 B |
| Gary | KOAM 790 1000 | MASSACHUSETTS | Moorhead |
| WIND 560 1000 | Salina | Boston | KVOX 1310 100 |
| Hammond | KSJS 1500 100 | WAAB 1410 500M | Northfield |
| WVAE 1200 100 | Topeka | WBZ 990 50000 C | WCAL 1250 1000 |
| Indianapolis | WIBW 580 1000 C | WCOP 1120 500 | Rochester |
| WFBM 1230 1000 C | Wichita | WEFI 590 1000 C | KROC 1310 100 |
| WIRE 1400 1000 R | KANS 1210 100 | WHDH 830 1000 | St. Paul |
| | KFH 1300 1000 C | WMEX 1500 100 | KSTP 1460 10000 R |
| | KENTUCKY | WNAK 1230 1000 R | WMIN 1370 100 |
| | Ashland | WORLD 920 500 | Virginia |
| | WCMI 1310 100 | | WHLB 1370 100 |

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

| | | | |
|---|--|---|---|
| <p style="text-align: center;">MISSISSIPPI</p> <p>Clarksdale WMFN 1210 100</p> <p>Guilford WGCM 1210 100</p> <p>Hattiesburg WFOR 1370 100</p> <p>Jackson WJDX 1270 1000 N</p> <p>Kosciusko WHEF 1500 100</p> <p>Laurel WAML 1310 100</p> <p>Meridian WCOC 880 500</p> <p>Vicksburg WQBC 1360 1000</p> <hr/> <p style="text-align: center;">MISSOURI</p> <p>Cape Girardeau KFVS 1210 100</p> <p>Columbia KFRU 630 500</p> <p>Jefferson City KWOS 1310 100</p> <p>Joplin WMBH 1420 100</p> <p>Kansas City KCMO 1370 100</p> <p>KMBC 950 1000 C</p> <p>KXBY 1530 1000</p> <p>WDAF 610 1000 R</p> <p>WHB 860 1000 M</p> <p>St. Joseph KFEQ 680 2500</p> <p>St. Louis KFUO 550 500</p> <p>KMOX 1090 5000 C</p> <p>KSD 550 1000 R</p> <p>KWK 1350 1000 B</p> <p>WEW 760 1000</p> <p>WIL 1200 100</p> <p>Springfield KGBX 1230 500</p> <p>KWTO 560 5000</p> <hr/> <p style="text-align: center;">MONTANA</p> <p>Billings KGHL 780 1000 N</p> <p>Butte KGJR 1340 1000 N</p> <p>Great Falls KFBB 1280 1000 C</p> <p>Kalispell KGEZ 1310 100</p> <p>Lawliston KDNC 1200 100</p> <p>Missoula KGVO 1260 1000 C</p> <p>Wolf Point KGCC 1450 1000</p> <hr/> <p style="text-align: center;">NEBRASKA</p> <p>Clay Center KMMJ 740 1000</p> <p>Kearney KGFV 1310 100</p> <p>Lincoln KFAB 770 1000 C</p> <p>KFOR 1210 100 C</p> <p>Norfolk WJAG 1060 1000</p> | <p>North Platte KGNF 1430 1000</p> <p>Omaha KOIL 1260 1000 B</p> <p>WAAW 660 500</p> <p>WOW 590 5000 R</p> <p>Scottsbluff KGGY 1500 100</p> <hr/> <p style="text-align: center;">NEVADA</p> <p>Reno KOII 1380 500 C</p> <hr/> <p style="text-align: center;">NEW HAMPSHIRE</p> <p>Laconia WLNH 1310 100</p> <p>Manchester WFEA 1340 500 N</p> <p>Portsmouth WHEB 740 250</p> <hr/> <p style="text-align: center;">NEW JERSEY</p> <p>Asbury Park WCAP 1280 500</p> <p>Atlantic City WPG 1100 5000 C</p> <p>Bridgeton 1210 100</p> <p>Camden WCAM 1280 500</p> <p>Jersey City WAAJ 940 500</p> <p>WHOM 1450 250</p> <p>Newark WHBI 1250 1000</p> <p>WNEW 1250 1000</p> <p>WOR 710 5000 M</p> <p>Red Bank WBRB 1210 100</p> <p>Trenton WTNJ 1280 500</p> <p>Zarephath WAWZ 1350 500</p> <hr/> <p style="text-align: center;">NEW MEXICO</p> <p>Albuquerque KGGM 1230 250</p> <p>KOB 1180 10000</p> <p>Carlsbad KLAH 1210 100</p> <p>Clovis KICA 1370 100</p> <p>Gallup KAWM 1500 100</p> <p>Roswell KGFL 1370 100</p> <p>Santa Fe KRQA 1310 100</p> <hr/> <p style="text-align: center;">NEW YORK</p> <p>Albany WABY 1370 100 B</p> <p>WOKO 1430 500 C</p> <p>Auburn WMB0 1310 100</p> <p>Binghamton WNBK 1500 100 C</p> <p>Brooklyn WARD 1400 500</p> <p>WBBC 1400 500</p> <p>WBR 1300 1000</p> <p>WCNW 1500 100</p> <p>WEGL 1400 500</p> | <p>WLTH 1400 500</p> <p>WMBO 1500 100</p> <p>WVWV 1400 500</p> <p>Buffalo WBEN 900 1000 R</p> <p>WBNY 1370 100</p> <p>WEBR 1370 100 B</p> <p>WGR 550 1000 C</p> <p>WKBW 1480 5000 C</p> <p>WSVS 1370 50</p> <p>Canton WCAD 1220 500</p> <p>Elmira WESG 850 1000 C</p> <p>Freeport WGBB 1210 100</p> <p>Jamestown WJTN 1210 50</p> <p>Newburgh WGNV 1210 100</p> <p>New York WABC 860 5000 C</p> <p>WBNX 1350 10000</p> <p>WBOQ 860 50000</p> <p>WEAF 660 50000 R</p> <p>WEVD 1300 1000</p> <p>WFAB 1300 1000</p> <p>WHN 1010 1000</p> <p>WINS 1180 1000</p> <p>WJZ 760 50000 B</p> <p>WLWL 1100 5000</p> <p>WMCA 570 1000</p> <p>WNEV 1250 1000</p> <p>WNYC 810 1000</p> <p>WOV 1130 1000</p> <p>WQXR 1550 1000</p> <p>Olean WHDL 1400 250</p> <p>Plattsburg WMFF 1310 250</p> <p>Rochester WHAM 1150 5000 B</p> <p>WHEC 1430 500 C</p> <p>WSAY 1210 100</p> <p>Saranac Lake WNBZ 1290 100</p> <p>Schenectady WGY 790 50000 R</p> <p>Syracuse WFBF 1360 1000 C</p> <p>WSYR 570 1000 B</p> <p>Troy WHAZ 1300 500</p> <p>Utica WIBX 1200 100 C</p> <p>Watertown WNNY 1420 100</p> <p>White Plains WFAS 1210 100</p> <p>Woodside WWRL 1500 100</p> <hr/> <p style="text-align: center;">NORTH CAROLINA</p> <p>Asheville WWNC 570 1000 N</p> <p>Charlotte WBT 1080 50000 C</p> <p>WSOC 1210 100 N</p> <p>Durham WDNC 1500 100 C</p> <p>Gastonia WJBR 1420 100</p> <p>Greensboro WBG 1440 500 C</p> | <p>High Point WMFR 1200 100</p> <p>Kinston WFTC 1200 100</p> <p>Raleigh WPTF 680 1000 N</p> <p>Rocky Mount WEED 1420 100</p> <p>Wilmington WMFD 1370 100</p> <p>Winston-Salem WAIR 1250 250</p> <p>WSJS 1310 100 C</p> <hr/> <p style="text-align: center;">NORTH DAKOTA</p> <p>Bismarck KFYR 550 1000 N</p> <p>Devils Lake KDLR 1210 100</p> <p>Fargo WDAY 940 1000 N</p> <p>Grand Forks KFJM 1410 500</p> <p>Jamestown KRMC 1310 100</p> <p>Mandan KGGU 1240 250</p> <p>Minot KLPN 1240 250</p> <p>Valley City KOVC 1500 100</p> <hr/> <p style="text-align: center;">OHIO</p> <p>Akron WADC 1320 1000 C</p> <p>WJW 1210 100</p> <p>Canton WIBC 1200 100</p> <p>Cincinnati WCPO 1200 100</p> <p>WKRC 550 1000 C</p> <p>WLW 700 50000 N</p> <p>WSAI 1330 1000 R</p> <p>Cleveland WGAR 1450 500 B</p> <p>WHK 1390 1000 C</p> <p>WJAY 610 500</p> <p>WTAM 1070 50000 R</p> <p>Columbus WBNS 1430 500 C</p> <p>WCOL 1210 100 N</p> <p>WHKG 640 500</p> <p>WOSU 570 750</p> <p>Dayton WHIO 1260 1000 C</p> <p>WSMK 1380 200 C</p> <p>Lima WBLV 1210 100</p> <p>Portsmouth WPAV 1370 100</p> <p>Toledo WSPD 1340 1000 C</p> <p>Youngstown WKBN 570 500 C</p> <p>Zanesville WALR 1210 100</p> <hr/> <p style="text-align: center;">OKLAHOMA</p> <p>Ada KADA 1200 100</p> <p>Ardmore KYSO 1200 100</p> <p>Elk City KASA 1210 100</p> |
|---|--|---|---|

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

| | | | |
|---|---|--|---|
| <p>Enid KCRK 1360 250</p> <p>Muskogee KBIX 1500 100</p> <p>Norman WNAD 1010 1000</p> <p>Oklahoma City KFXR 1310 150 KGFG 1370 100 KOMA 1480 5000 C WKY 900 1000 N</p> <p>Ponca City WBBZ 1200 100</p> <p>Shawnee KGFF 1420 100</p> <p>Tulsa KTUL 1400 500 C KVOO 1140 25000 N</p> | <p>Philadelphia KYW 1020 10000 R WCAU 1170 50000 C WDAS 1370 100 WFIL 560 1000 B WHAT 1310 100 WIP 610 1000 WPEN 920 250 WRAX 920 250 WTEL 1310 100</p> <p>Pittsburgh KDKA 980 50000 B KQV 1380 500 C WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100</p> <p>Reading WEU 830 1000 WRAW 1310 100</p> <p>Scranton WGBI 880 500 WQAN 880 250</p> <p>Sunbury WKOK 1210 100</p> <p>Wilkes-Barre WBAX 1210 100 WBRE 1310 100</p> <p>Williamsport WRAK 1370 100</p> <p>York WORK 1320 1000</p> | <p>Huron KGDY 1340 250 Pierre KGFY 630 200</p> <p>Rapid City KOBH 1370 100 WCAT 1200 100</p> <p>Sioux Falls KELO 1200 100 KSOO 1110 2500</p> <p>Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C</p> | <p>Houston KPRC 920 1000 N KTRH 1290 1000 C KXYZ 1440 1000</p> <p>Kilgore KOGA 1210 100</p> <p>Longview KPRO 1370 100</p> <p>Lubbock KFYO 1310 100</p> <p>Midland KRLH 1420 100</p> <p>Palestine KNET 1420 100</p> <p>Pampa KPDN 1310 100</p> <p>Paris KPLT 1500 100</p> <p>Pecos KIUN 1420 100</p> <p>Port Arthur KPAC 1260 500</p> <p>San Angelo KGKL 1370 100</p> <p>San Antonio KABC 1420 100 KMAC 1370 100 KONO 1370 100 K TSA 550 1000 C WOAI 1190 50000 C</p> <p>Sherman KRRV 1310 100</p> <p>Temple KTEM 1370 100</p> <p>Tyler KGKB 1500 100</p> <p>Waco WACO 1420 100 C</p> <p>Westaco KRGV 1260 500</p> <p>Wichita Falls KGKO 570 250 C</p> |
| OREGON | | TENNESSEE | |
| <p>Astoria KAST 1370 100</p> <p>Corvallis KOAC 550 1000</p> <p>Eugene KORE 1420 100</p> <p>Klamath Falls KFJI 1210 100</p> <p>Marshfield KOOS 1200 250</p> <p>Medford KMED 1310 100</p> <p>Portland KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 N KFJR 1300 500 KGW 620 1000 R KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100</p> <p>Roseburg KRNR 1500 100</p> <p>Salem KSLM 1370 100</p> | <p style="text-align: center;">PUERTO RICO</p> <p>Mayaguez WPRA 1370 100</p> <p>Ponce WPRP 1420 100</p> <p>San Juan WKAQ 1240 1000 WNEL 1290 1000</p> | <p>Bristol WOPJ 1500 100</p> <p>Chatanooga WAOJ 1420 100 WDOD 1280 1000 C</p> <p>Jackson WTJS 1310 100</p> <p>Knoxville WNOX 1010 1000 C WROL 1310 100</p> <p>Memphis WHBQ 1370 100 WMC 780 1000 N WNR 1430 500 WREC 600 1000 C</p> <p>Nashville WLAC 1470 5000 C WSM 650 50000 N Springfield WSIX 1210 100</p> | TEXAS |
| PENNSYLVANIA | RHODE ISLAND | <p>Abilene KRBC 1420 100</p> <p>Amarillo KGNC 1410 1000 N</p> <p>Austin KNOW 1500 100 C</p> <p>Beaumont KFDM 560 500</p> <p>Big Spring KBST 1500 100</p> <p>Brady KNEL 1500 100</p> <p>College Station WTAW 1120 500</p> <p>Corpus Christi KCFI 1500 100</p> <p>Corsicana KAND 1310 100</p> <p>Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500</p> <p>Dublin KFPL 1310 100</p> <p>El Paso KROD 1500 100 KTSM 1310 100 WDAH 1310 100 1500 100</p> <p>Fort Worth KFJZ 1370 100 KTAT 1240 1000 WBAP 800 50000 N</p> <p>Galveston KLUF 1370 100</p> | UTAH |
| <p>Allentown WCBA 1440 500 WSAN 1440 500</p> <p>Altoona WFBG 1310 100</p> <p>Easton WEST 1200 100</p> <p>Erie WLEU 1420 100</p> <p>Glenide WIBG 970 100</p> <p>Greensburg WHJB 620 250 C</p> <p>Grove City WSAJ 1310 100</p> <p>Harrisburg WHP 1430 500 C WKBO 1200 100</p> <p>Hazleton WAZL 1420 100</p> <p>Johnstown WJAC 1310 100</p> <p>Lancaster WGAL 1500 100</p> | <p>Anderson WAIM 1200 100</p> <p>Charleston WCSC 1360 500 N</p> <p>Columbia WIS 560 1000 N</p> <p>Greenville WFBC 1300 1000 N</p> <p>Spartanburg WSPA 920 1000</p> | VERMONT | <p>Cedar City KSUB 1310 100</p> <p>Ogden KLO 1400 500 B</p> <p>Price KEUB 1420 100</p> <p>Salt Lake City KDYL 1290 1000 R KSL 1130 50000 C KUTA 1500 100</p> |
| | SOUTH CAROLINA | | VIRGINIA |
| | <p style="text-align: center;">SOUTH DAKOTA</p> <p>Aberdeen KABR 1420 100</p> <p>Brookings KFDY 780 1000</p> | | <p>Charlottesville WCHV 1420 100</p> |

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

| | | | |
|--|--|---|--|
| <p>Danville WBTM 1370 100</p> <p>Harrisonburg WSVA 550 500</p> <p>Lynchburg WLVA 1200 100</p> <p>Newport News WGNH 1310 100</p> <p>Norfolk WTAR 780 500 N</p> <p>Petersburg WPHR 880 500</p> <p>Richmond WBBL 1210 100 WMBG 1210 100 C WRVA 1110 5000 C</p> <p>Roanoke WDBJ 930 1000 C</p> <hr/> <p style="text-align: center;">WASHINGTON</p> <hr/> <p>Aberdeen KXRO 1310 100</p> <p>Bellingham KVOS 1200 100</p> <p>Everett KRKO 1370 50</p> <p>Olympia KGY 1210 100</p> <p>Pullman KWSC 1220 1000</p> <p>Seattle KEEN 1370 100 KIRO 710 1000 KJR 970 5000 B KOL 1270 1000 C KOMO 920 1000 R KRSC 1120 100 KTW 1220 1000 KXA 760 250</p> <p>Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R</p> <p>Tacoma KMO 1330 250 KVI 570 1000 C</p> <p>Walla Walla KUJ 1370 100</p> <p>Wenatchee KPQ 1500 100</p> <p>Yakima KIT 1310 100</p> <hr/> <p style="text-align: center;">WEST VIRGINIA</p> <hr/> <p>Bluefield WHIS 1410 500</p> <p>Charleston WCHS 580 500</p> <p>Clarksburg WBLK 1370 100</p> <p>Fairmont WMMN 890 500 C</p> <p>Huntington WSAZ 1190 1000</p> <p>Parkersburg WPAR 1420 100</p> <p>Wheeling WVVA 1160 5000 C</p> | <p style="text-align: center;">WISCONSIN</p> <hr/> <p>Eau Claire WEAU 1050 1000</p> <p>Fond du Lac KFIZ 1420 100</p> <p>Green Bay WBLY 1200 100 WTAQ 1330 1000</p> <p>Janesville WGLO 1200 100</p> <p>LaCrosse WKBH 1380 1000</p> <p>Madison WHA 940 5000 WIBA 1280 1000 N Manitowoc WOMT 1210 100</p> <p>Milwaukee WEMP 1310 100 WISN 1120 250 C WTMJ 620 1000 N</p> <p>Poynette WIBU 1210 100</p> <p>Racine WRJN 1370 100</p> <p>Sheboygan WHBL 1300 250</p> <p>Stevens Point WLBL 900 2500</p> <p>Superior 1200 100</p> <p>Wausau WSAU 1370 100</p> <hr/> <p style="text-align: center;">WYOMING</p> <hr/> <p>Casper KDPN 1440 500</p> <p>Sheridan KWYO 1370 100</p> <hr/> <p style="text-align: center;">CANADA</p> <hr/> <p style="text-align: center;">ALBERTA</p> <hr/> <p>Calgary CFAC 930 100 F CFCN 1030 1000 CJGJ 690 100 F Edmonton CFRN 960 100 F CJCA 730 1000 F CKUA 580 500</p> <p>Lethbridge CJOC 950 100 F</p> <hr/> <p style="text-align: center;">BRITISH COLUMBIA</p> <hr/> <p>Chilliwack GHWK 780 100 F</p> <p>Kamloops CFJC 880 100 F</p> <p>Kelowna CKOV 630 100 F</p> <p>Prince Rupert CFPR 580 50</p> <p>Trail CJAT 910 1000 F</p> <p>Vancouver CJOR 600 500 CKCD 1010 100 CKFC 1410 50 CKMO 1410 100 F CKWX 1010 100 F CRCV 1100 1000 F</p> <p>Victoria CFCT 1450 75</p> | <p style="text-align: center;">MANITOBA</p> <hr/> <p>Brandon CKX 1120 100 F</p> <p>Winnipeg CJRC 630 1000 F CKY 910 15000 F</p> <hr/> <p style="text-align: center;">NEW BRUNSWICK</p> <hr/> <p>Fredericton CFNB 550 500 F</p> <p>Moncton CKCW 1370 100 F</p> <p>St. John CHSJ 1120 500 F</p> <hr/> <p style="text-align: center;">N. W. TERRITORY</p> <hr/> <p>Aklavik CJCU 1210 50</p> <hr/> <p style="text-align: center;">NOVA SCOTIA</p> <hr/> <p>Glace Bay VAS 685 2000</p> <p>Halifax CHNS 930 1000 F</p> <p>Sydney CJCB 1240 1000 F</p> <p>Wolfville CKIC 1010 50</p> <p>Yarmouth CJLS 1310 100</p> <hr/> <p style="text-align: center;">ONTARIO</p> <hr/> <p>Brantford CKPC 930 100 F</p> <p>Chatham CFCO 630 100 F</p> <p>Cobalt CKMC 1210 50</p> <p>Fort William CKPR 730 100 F</p> <p>Hamilton GHML 1010 100 F CKOC 1120 500 F</p> <p>Kingston CFRC 1510 100 F</p> <p>Kirkland Lake CJKL 1310 100 F</p> <p>London CFPL 730 100 F</p> <p>North Bay CFCH 930 100 F</p> <p>Ottawa CKCO 1010 100 F CRCO 880 1000 F</p> <p>Prescott CFLC 930 100</p> <p>St. Catharines CKTB 1200 100 F</p> <p>Sault Ste. Marie CJIC 1500 100</p> <p>Stratford CJCS 1210 50</p> <p>Sudbury CKSO 780 1000 F</p> <p>Timmins CKGB 1420 100 F</p> | <p style="text-align: center;">Toronto</p> <p>CFRB 690 10000 C CKCL 580 100 F CRCT 840 5000 N CRCY 1420 100</p> <p>Waterloo CKCR 1510 100</p> <p>Windsor CKLW 1030 5000 M CRCW 600 500 F</p> <p>Wingham CKNX 1200 50</p> <hr/> <p style="text-align: center;">PRINCE EDWARD ISLAND</p> <hr/> <p>Charlottetown CFCY 630 1000 F CHCK 1310 50</p> <p>Summerside CHGS 1450 50 F</p> <hr/> <p style="text-align: center;">QUEBEC</p> <hr/> <p>Chicoutimi CRCS 950 100 F</p> <p>Hull CKHK 1210 100 F</p> <p>Montmagny VE9EK 1185 10</p> <p>Montreal CFCF 600 400 N CHLP 1120 100 F CKAC 730 5000 C CRCM 910 5000 F</p> <p>New Carlisle CHNC 960 1000 F</p> <p>Quebec CHRC 580 100 CKCV 1310 100 F CRCK 1050 1000 F</p> <hr/> <p style="text-align: center;">SASKATCHEWAN</p> <hr/> <p>Moose Jaw CHAB 1200 100 F CJRM 540 1000 F</p> <p>Prince Albert CKBI 1210 100 F</p> <p>Regina CKCK 1010 500 F</p> <p>Saskatoon CFQC 840 1000 F</p> <p>Yorkton CJGX 1390 100</p> <hr/> <p style="text-align: center;">NEWFOUNDLAND</p> <hr/> <p>St. John's VOAC 1065 40 VOAS 940 100 VOGY 840 400 VONF 1195 500 VOWR 681 500</p> |
|--|--|---|--|

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

| | | | |
|---|--|---|--|
| <p>COSTA RICA</p> <p>San José</p> <p>TIEP 850 500</p> | <p>XEL 780 1000</p> <p>XELZ 1370 100</p> <p>XEMX 1280 100</p> <p>XENC 860 50</p> <p>XEW 890 50000</p> <p>XEXM 610 500</p> <p>XEYO 940 500</p> <p>Tacuba</p> <p>XEFA 1180 500</p> | <p>SAN LUIS POTOSI</p> <p>San Luis Potosi</p> <p>XECZ 1370 100</p> <p>XEXH 1250 250</p> | <p>Ciego de Avila</p> <p>CMJH 1360 100</p> <p>CMJJ 1130 150</p> <p>CMJO 1180 50</p> <p>Cienfuegos</p> <p>CMHJ 1160 175</p> <p>CMHM 1450</p> <p>CMHW 820 100</p> <p>CMHX 760 200</p> <p>Cruces</p> <p>CMHK 1330 250</p> <p>Havana</p> <p>CMBD 1170 500</p> <p>CMBG 1140 200</p> <p>CMBN 850 150</p> <p>CMBS 770 150</p> <p>CMBX 1070 500</p> <p>CMBY 970 150</p> <p>CMBZ 1000 500</p> <p>CMCA 1350 450</p> <p>CMCB 640 150</p> <p>CMCD 950 250</p> <p>CMCF 810 600</p> <p>CMCG 680 1000</p> <p>CMCJ 1100 500</p> <p>CMCN 1450</p> <p>CMCO 1200 250</p> <p>CMCQ 1410 250</p> <p>CMCR 1380 150</p> <p>CMCU 1280 500</p> <p>CMCW 750 150</p> <p>CMCX 570 150</p> <p>CMCY 1030 5000</p> <p>CMK 730 3000</p> <p>CMOA 1440 150</p> <p>CMOK 1460 150</p> <p>CMOX 1320 200</p> <p>CMQ 880 500</p> <p>CMW 600 1400</p> <p>CMX 920 1000</p> |
| <p>GUATEMALA</p> <p>Guatemala City</p> <p>TGW 1210 10000</p> | <p>DURANGO</p> <p>Durango</p> <p>XEE 1210 50</p> | <p>SINALOA</p> <p>Mazatlan</p> <p>XEBL 1220 50</p> | <p>Holguin</p> <p>CMKF 1460 250</p> <p>Manzanillo</p> <p>CMKM 1120 200</p> <p>Matanzas</p> <p>CMGC 1400 150</p> <p>CMGF 1120 150</p> <p>CMGH 790 500</p> <p>Moron</p> <p>CMJP 1430 75</p> <p>Pinar del Rio</p> <p>CMAB 1340</p> <p>Sagua la Grande</p> <p>CMHA 1070 50</p> <p>Sancti Spiritus</p> <p>CMHB 1240 50</p> <p>Santa Clara</p> <p>CMHI 1210 150</p> <p>Santiago</p> <p>CMKC 1250 150</p> <p>CMKD 1050 250</p> <p>CMKR 1400 100</p> <p>CMKW 1330</p> |
| <p>MEXICO</p> <p>AGUASCALIENTES</p> <p>Agascalientes</p> <p>XEBI 1000 25</p> <p>XEXC 810 350</p> | <p>GUANAJUATO</p> <p>Leon</p> <p>XEKL 1240 500</p> | <p>SONORA</p> <p>Hermosillo</p> <p>XEBH 930 500</p> <p>Nogales</p> <p>XEAF 990 750</p> | <p>VERACRUZ</p> <p>Cordoba</p> <p>XEAG 1310 10</p> <p>Jalapa</p> <p>XEXB 1270 250</p> <p>XEXD 1340 350</p> <p>Minatitlan</p> <p>XEDW 1150 20</p> <p>Veracruz</p> <p>XETF 1220 30</p> <p>XEU 1010 250</p> |
| <p>CHIHUAHUA</p> <p>Chihuahua</p> <p>XEFI 1440 250</p> <p>Juarez</p> <p>XEFV 1210 100</p> <p>XEF 1450 100</p> <p>XEJ 1020 1000</p> <p>XEP 1160 500</p> <p>Parral</p> <p>XEAT 1210 250</p> | <p>JALISCO</p> <p>Guadalajara</p> <p>XEAD 1060 125</p> <p>XED 1160 2500</p> <p>Guzman</p> <p>XEBA 1080 20</p> | <p>TAMAULIPAS</p> <p>Matamoros</p> <p>XEAM 750 25</p> <p>Nuevo Laredo</p> <p>XEBK 1000 100</p> <p>XEFE 1340 250</p> <p>XENT 910 150000</p> <p>Reynosa</p> <p>XEAW 960 50000</p> <p>Tampico</p> <p>XEFW 1310 250</p> <p>XES 990 250</p> | <p>Dominican Republic</p> <p>Trujillo</p> <p>HIX 800 800</p> |
| <p>COAHUILA</p> <p>Piedras Negras</p> <p>XELO 580 50000</p> <p>XEPN 730 100000</p> <p>Saltillo</p> <p>XEAS 1160 50</p> <p>XEBX 640 250</p> <p>XELA 1240 50</p> <p>Torreón</p> <p>XETB 1310 125</p> <p>Villa Acuna</p> <p>XERA 840 350000</p> | <p>LOWER CALIFORNIA</p> <p>Agua Caliente</p> <p>XEEC 730 5000</p> <p>Mexicali</p> <p>XEAA 920 200</p> <p>XEAO 560 250</p> <p>Rosarito</p> <p>XEAQ 1090 1000</p> <p>Tijuana</p> <p>XEAC 980 250</p> <p>XEEG 820 1000</p> <p>XEC 1150 100</p> <p>XEMO 860 5000</p> <p>XEOK 760 2500</p> | <p>CUBA</p> <p>Caibarien</p> <p>CMHD 1270 250</p> <p>Camaguey</p> <p>CMJA 1010 300</p> <p>CMJC 1390 150</p> <p>CMJE 1220 50</p> <p>CMJF 1150 200</p> <p>CMJK 780 250</p> <p>CMJL 1340 100</p> <p>CMJX 830 500</p> <p>Cardenas</p> <p>CMGE 1370 150</p> | <p>Haiti</p> <p>Port-au-Prince</p> <p>HHK 920 1000</p> |
| <p>Atzacotalco</p> <p>XEMG 1060 100</p> <p>Gra. Anaya</p> <p>XEDA 1220 200</p> <p>Mexico City</p> <p>XEAL 660 1000</p> <p>XEB 1030 10000</p> <p>XEBZ 1160 100</p> <p>XECW 1310 10</p> <p>XEFO 940 5000</p> <p>XEJP 1130 100</p> <p>XEK 990 100</p> | <p>MICHOACAN</p> <p>Morelia</p> <p>XEI 1370 125</p> | <p>YUCATAN</p> <p>Merida</p> <p>XEBJ 1160 20</p> <p>XEFC 550 100</p> <p>XEZ 630 500</p> | <p>PUEBLA</p> <p>Puebla</p> <p>XETH 1210 100</p> |
| <p>D. F.</p> | <p>NUEVO LEON</p> <p>Monterrey</p> <p>XEFB 870 200</p> <p>XEFJ 1230 100</p> <p>XEH 720 250</p> <p>XET 690 500</p> <p>XEX 1310 125</p> | <p>Cuba</p> | <p>Haiti</p> |

NORTH AMERICAN B. C. STATIONS BY CALLS

| | | |
|-------------------------|-----------------------|-----------------------|
| CFAC 930 100 | CJIC 1500 100 | CMAB 1340 |
| Calgary, Alta. | S. Ste. Marie, Ont. | Pinar del Rio, Cuba |
| CFCF 609 400 | CJKL 1310 100 | CMBD 1170 500 |
| Montreal, Que. | Kirkland Lake, Ont. | Havana, Cuba |
| CFCH 930 100 | CJLS 1310 100 | CMBC 1140 200 |
| North Bay, Ont. | Yarmouth, N. S. | Havana, Cuba |
| CFCN 1030 1000 | CJOC 950 100 | CMBN 850 150 |
| Calgary, Alta. | Lethbridge, Alta. | Havana, Cuba |
| CFCO 630 100 | CJOR 600 500 | CMBS 770 150 |
| Chatham, Ont. | Vancouver, B. C. | Havana, Cuba |
| CFCT 1450 75 | CJRC 630 1000 | CMBX 1070 500 |
| Victoria, B. C. | Winnipeg, Man. | Havana, Cuba |
| CFCY 630 1000 | CJRM 543 1000 | CMBY 970 150 |
| Charlottetown, P. E. I. | Moose Jaw, Sask. | Havana, Cuba |
| CFJC 880 100 | CKAC 730 5000 | CMBZ 1000 500 |
| Kamloops, B. C. | Montreal, Que. | Havana, Cuba |
| CFLC 930 100 | CKBI 1210 100 | CMCA 1350 450 |
| Prescott, Ont. | Prince Albert, Sask. | Havana, Cuba |
| CFNB 550 500 | CKCD 1010 100 | CMCB 640 150 |
| Fredericton, N. B. | Vancouver, B. C. | Havana, Cuba |
| CFPL 730 100 | CKCH 1210 100 | CMCD 950 250 |
| London, Ont. | Hull, Que. | Havana, Cuba |
| CFPR 580 50 | CKCK 1010 500 | CMCF 810 600 |
| Prince Rupert, B. C. | Regina, Sask. | Havana, Cuba |
| CFQC 840 1000 | CKCL 580 100 | CMCG 680 1000 |
| Saskatoon, Sask. | Toronto, Ont. | Havana, Cuba |
| CFRB 690 10000 | CKCO 1010 100 | CMCJ 1100 500 |
| Toronto, Ont. | Ottawa, Ont. | Havana, Cuba |
| CFRC 1510 100 | CKCR 1510 100 | CMCN 1500 |
| Kingston, Ont. | Waterloo, Ont. | Havana, Cuba |
| CFRN 960 100 | CKCV 1310 100 | CMCO 1200 250 |
| Edmonton, Alta. | Quebec, Que. | Havana, Cuba |
| CHAB 1200 100 | CKCW 1370 100 | CMCQ 1410 250 |
| Moose Jaw, Sask. | Moncton, N. B. | Havana, Cuba |
| CHCK 1310 50 | CKFC 1410 50 | CMCR 1380 150 |
| Charlottetown, P. E. I. | Vancouver, B. C. | Havana, Cuba |
| CHGS 1450 50 | CKGB 1420 100 | CMCU 1280 500 |
| Summerside, P. E. I. | Timmins, Ont. | Havana, Cuba |
| CHLP 1120 100 | CKIC 1010 50 | CMCW 750 150 |
| Montreal, Que. | Wolfville, N. S. | Havana, Cuba |
| CHML 1010 100 | CKLW 1030 5000 | CMCX 570 150 |
| Hamilton, Ont. | Windsor, Ont. | Havana, Cuba |
| CHNC 960 1000 | CKMC 1210 50 | CMCY 1030 5000 |
| New Carlisle, Que. | Cobalt, Ont. | Havana, Cuba |
| CHNS 930 1000 | CKMO 1410 100 | CMGC 1400 150 |
| Halifax, N. S. | Vancouver, B. C. | Matanzas, Cuba |
| CHRC 580 100 | CKNX 1200 50 | CMGE 1370 150 |
| Quebec, Que. | Wingham, Ont. | Cardenas, Cuba |
| CHSJ 1120 500 | CKOC 1120 500 | CMGF 1120 150 |
| St. John, N. B. | Hamilton, Ont. | Matanzas, Cuba |
| CHWK 780 100 | CKOV 630 100 | CMGH 790 500 |
| Chilliwack, B. C. | Kelowna, B. C. | Matanzas, Cuba |
| CJAT 910 1000 | CKPC 930 100 | CMHA 1070 50 |
| Trail, B. C. | Brantford, Ont. | Sagua la Grande, Cu. |
| CJCA 730 1000 | CKPR 730 100 | CMHB 1240 50 |
| Edmonton, Alta. | Fort William, Ont. | Sancti Spiritus, Cuba |
| CJCB 1240 1000 | CKSO 780 1000 | CMHD 1270 250 |
| Sydney, N. S. | Sudbury, Ont. | Caibarien, Cuba |
| CJ CJ 690 100 | CKTB 1200 100 | CMHI 1210 150 |
| Calgary, Alta. | St. Catharines, Ont. | Santa Clara, Cuba |
| CJCS 1210 50 | CKUA 580 500 | CMHJ 1160 175 |
| Stratford, Ont. | Edmonton, Alta. | Cienfuegos, Cuba |
| CJCU 1210 50 | CKWX 1010 100 | CMHK 1330 250 |
| Aklavik, N. W. T. | Vancouver, B. C. | Crucos, Cuba |
| CJGX 1390 100 | CKX 1120 100 | CMHM 1450 |
| Yorkton, Sask. | Brandon, Man. | Cienfuegos, Cuba |
| | CKY 910 15000 | CMHW 820 100 |
| | Winnipeg, Man. | Cienfuegos, Cuba |
| | | CMHX 760 200 |
| | | Cienfuegos, Cuba |

NORTH AMERICAN B. C. STATIONS BY CALLS

| | | | | | |
|-----------------------|------|-----------------------|-------|-----------------------|-------|
| CMJA 1010 | 300 | HIX 800 | 800 | KERN 1370 | 100 |
| Camaguey, Cuba | | Trujillo, D. R. | | Bakersfield, Calif. | |
| CMJC 1390 | 150 | KABC 1420 | 100 | KEUB 1420 | 100 |
| Camaguey, Cuba | | San Antonio, Texas | | Price, Utah | |
| CMJE 1220 | 50 | KABR 1420 | 100 | KEX 1180 | 5000 |
| Camaguey, Cuba | | Aberdeen, S. Dak. | | Portland, Ore. | |
| CMJF 1150 | 200 | KADA 1200 | 100 | KFAB 770 | 10000 |
| Camaguey, Cuba | | Ada, Okla. | | Lincoln, Neb. | |
| CMJH 1360 | 100 | KALB 1420 | 100 | KFAC 1300 | 1000 |
| Ciego de Avila, Cuba | | Alexandria, La. | | Los Angeles, Calif. | |
| CMJI 1130 | 150 | KALE 1300 | 500 | KFBB 1280 | 1000 |
| Ciego de Avila, Cuba | | Portland, Ore. | | Great Falls, Mont. | |
| CMJK 780 | 250 | KAND 1310 | 100 | KFBI 1050 | 5000 |
| Camaguey, Cuba | | Corsicana, Texas | | Abilene, Kans. | |
| CMJL 1340 | 100 | KANS 1210 | 100 | KFBK 1490 | 5000 |
| Camaguey, Cuba | | Wichita, Kans. | | Sacramento, Calif. | |
| CMJO 1180 | 50 | KARK 890 | 500 | KFDM 560 | 500 |
| Ciego de Avila, Cuba | | Little Rock, Ark. | | Beaumont, Texas | |
| CMJP 1430 | 75 | KASA 1210 | 100 | KFDY 780 | 1000 |
| Camaguey, Cuba | | Elk City, Okla. | | Brookings, S. D. | |
| CMJX 830 | 500 | KAST 1370 | 100 | KFEL 920 | 500 |
| Camaguey, Cuba | | Astoria, Ore. | | Denver, Colo. | |
| CMK 730 | 3000 | KAWM 1500 | 100 | KFEQ 680 | 2500 |
| Havana, Cuba | | Gallup, N. Mex. | | St. Joseph, Mo. | |
| CMKC 1250 | 150 | KBIX 1500 | 100 | KFGQ 1370 | 100 |
| Santiago, Cuba | | Muskogee, Okla. | | Boone, Iowa | |
| CMKD 1050 | 250 | KBPS 1420 | 100 | KFH 1300 | 1000 |
| Santiago, Cuba | | Portland, Ore. | | Wichita, Kans. | |
| CMKF 1460 | 250 | KBST 1500 | 100 | KFI 640 | 50000 |
| Holguin, Cuba | | Big Spring, Texas | | Los Angeles, Calif. | |
| CMKM 1120 | 200 | KBTM 1200 | 100 | KFIO 1120 | 100 |
| Manzanillo, Cuba | | Jonesboro, Ark. | | Spokane, Wash. | |
| CMKR 1400 | 100 | KCKN 1310 | 100 | KFIZ 1420 | 100 |
| Santiago, Cuba | | Kansas City, Mo. | | Fond du Lac, Wis. | |
| CMKW 1330 | 150 | KCMC 1420 | 100 | KFJB 1200 | 100 |
| Santiago, Cuba | | Texarkana, Ark. | | Marshalltown, Iowa | |
| CMOA 1440 | 150 | KCMO 1370 | 100 | KFJI 1210 | 100 |
| Havana, Cuba | | Kansas City, Mo. | | Klamath Falls, Ore. | |
| CMOK 1460 | 150 | KCRC 1360 | 250 | KFJM 1410 | 500 |
| Havana, Cuba | | Enid, Okla. | | Grand Forks, N. D. | |
| CMOX 1320 | 200 | KCRJ 1310 | 100 | KFJR 1300 | 500 |
| Havana, Cuba | | Jerome, Ariz. | | Portland, Ore. | |
| CMQ 880 | 500 | KDAL 1500 | 100 | KFJZ 1370 | 100 |
| Havana, Cuba | | Duluth, Minn. | | Fort Worth, Texas | |
| CMW 600 | 1400 | KDB 1500 | 100 | KFKA 880 | 500 |
| Havana, Cuba | | Santa Barbara, Calif. | | Greeley, Colo. | |
| CMX 920 | 1000 | KDFN 1440 | 500 | KFKU 1220 | 1000 |
| Havana, Cuba | | Casper, Wyo. | | Lawrence, Kans. | |
| CRCK 1050 | 1000 | KDKA 980 | 50000 | KFNF 890 | 500 |
| Quebec, Que. | | Pittsburgh, Pa. | | Shenandoah, Iowa | |
| CRCM 910 | 5000 | KDLR 1210 | 100 | KFOR 1210 | 100 |
| Montreal, Que. | | Devils Lake, N. D. | | Lincoln, Neb. | |
| CRCO 880 | 1000 | KDNC 1200 | 250 | KFOX 1250 | 1000 |
| Ottawa, Ont. | | Lewistown, Mont. | | Long Beach, Calif. | |
| CRCS 950 | 100 | KDON 1210 | 100 | KFPL 1310 | 100 |
| Chicoutimi, Que. | | Del Monte, Calif. | | Dublin, Texas | |
| CRCT 840 | 5000 | KDYL 1290 | 1000 | KFPW 1210 | 100 |
| Toronto, Ont. | | Salt Lake City, Utah | | Fort Smith, Ark. | |
| CRCV 1100 | 1000 | KECA 1430 | 1000 | KFPY 890 | 1000 |
| Vancouver, B. C. | | Los Angeles, Calif. | | Spokane, Wash. | |
| CRCW 600 | 500 | KEEN 1370 | 100 | KFQD 780 | 250 |
| Windsor, Ont. | | Seattle, Wash. | | Anchorage, Alaska | |
| CRCY 1420 | 100 | KEHE 780 | 1000 | KFCR 610 | 1000 |
| Toronto, Ont. | | Los Angeles, Calif. | | San Francisco, Calif. | |
| HHK 920 | 1000 | KELD 1370 | 100 | KFRO 1370 | 100 |
| Port-au-Prince, Haiti | | El Dorado, Ark. | | Longview, Texas | |
| | | KELO 1200 | 100 | KFRU 630 | 500 |
| | | Sioux Falls, S. Dak. | | Columbia, Mo. | |
| | | | | KFSD 600 | 1000 |
| | | | | San Diego, Calif. | |

NORTH AMERICAN B. C. STATIONS BY CALLS

| | | |
|--|--|---|
| KFSG 1120 500 Los Angeles, Calif. | KGGM 1230 250 Albuquerque, N. M. | KIUL 1210 100 Garden City, Kans. |
| KFUO 550 500 St. Louis, Mo. | KGHF 1320 500 Pueblo, Colo. | KIUN 1420 100 Pecos, Texas |
| KFVD 1000 250 Los Angeles, Calif. | KGHI 1200 100 Little Rock, Ark. | KIUP 1370 100 Durango, Colo. |
| KFVS 1210 100 Cape Girardeau, Mo. | KGHL 780 1000 Billings, Mont. | KJBS 1070 500 San Francisco, Calif. |
| KFWB 950 1000 Hollywood, Calif. | KGIR 1340 1000 Butte, Mont. | KJR 970 5000 Seattle, Wash. |
| KFXD 1200 100 Nampa, Idaho | KGIW 1420 100 Alamosa, Colo. | KLAH 1210 100 Carlsbad, N. Mex. |
| KFXJ 1200 100 Grand Junction, Colo. | KGKB 1500 100 Tyler, Texas | KLCN 1290 100 Blytheville, Ark. |
| KFXM 1210 100 San Bernardino, Calif. | KGKL 1370 100 San Angelo, Texas | KLO 1400 500 Ogden, Utah |
| KFXR 1310 100 Oklahoma City, Okla. | KGKO 570 250 Wichita Falls, Texas | KLPM 1240 250 Minot, N. D. |
| KFYO 1310 100 Lubbock, Texas | KGKY 1500 100 Scottsbluff, Neb. | KLRA 1390 1000 Little Rock, Ark. |
| KFYR 550 1000 Bismarck, N. D. | KGLO 1210 100 Mason City, Iowa | KLS 1280 250 Oakland, Calif. |
| KGA 1470 5000 Spokane, Wash. | KGMB 1320 1000 Honolulu, T. H. | KLUF 1370 100 Galveston, Texas |
| KGAR 1370 100 Tucson, Ariz. | KGNC 1410 1000 Amarillo, Texas | KLX 880 1000 Oakland, Calif. |
| KGB 1330 1000 San Diego, Calif. | KGNF 1430 1000 North Platte, Neb. | KLZ 560 1000 Denver, Colo. |
| KGBU 900 500 Ketchikan, Alaska | KGNO 1340 250 Dodge City, Kans. | KMA 930 1000 Shenandoah, Iowa |
| KGXB 1230 500 Springfield, Mo. | KGO 790 7500 San Francisco, Calif. | KMAC 1370 100 San Antonio, Texas |
| KGCA 1270 100 Decorah, Iowa | KGU 750 2500 Honolulu, T. H. | KMBC 950 1000 Kansas City, Mo. |
| KGCU 1240 250 Mandan, N. D. | KGVO 1260 1000 Missoula, Mont. | KMED 1310 100 Medford, Ore. |
| KGCX 1450 1000 Wolf Point, Mont. | KGW 620 1000 Portland, Ore. | KMJ 580 500 Fresno, Calif. |
| KGDE 1200 100 Fergus Falls, Minn. | KGY 1210 100 Olympia, Wash. | KMLB 1200 100 Monroe, La. |
| KGDM 1100 1000 Stockton, Calif. | KHBC 1400 250 Hilo, T. H. | KMMJ 740 1000 Clay Center, Neb. |
| KGDY 1340 250 Huron, S. D. | KHJ 900 1000 Los Angeles, Calif. | KMO 1330 250 Tacoma, Wash. |
| KGER 1360 1000 Long Beach, Calif. | KHQ 590 1000 Spokane, Wash. | KMOX 1090 50000 St. Louis, Mo. |
| KGEZ 1310 100 Kallispell, Mont. | KHSL 950 250 Chico, Calif. | KMPC 710 500 Beverly Hills, Calif. |
| KGFF 1420 100 Shawnee, Okla. | KHUB 1310 250 Watsonville, Calif. | KMTR 570 1000 Hollywood, Calif. |
| KGFG 1370 100 Oklahoma City, Okla. | KICA 1370 100 Clovis, N. M. | KNEL 1500 100 Brady, Texas |
| KGFI 1500 100 Corpus Christi, Texas | KID 1320 500 Idaho Falls, Idaho | KNET 1420 100 Palestine, Texas |
| KGFJ 1200 100 Los Angeles, Calif. | KIDO 1350 1000 Boise, Idaho | KNOW 1500 100 Austin, Texas |
| KGFL 1370 100 Roswell, N. M. | KIDW 1420 100 Lamar, Colo. | KNX 1050 50000 Hollywood, Calif. |
| KGFW 1310 100 Kearney, Neb. | KIEM 1450 500 Eureka, Calif. | KOA 830 50000 Denver, Colo. |
| KGFX 630 200 Pierre, S. D. | KIEV 850 250 Glendale, Calif. | KOAC 550 1000 Corvallis, Ore. |
| KGGC 1420 100 San Francisco, Calif. | KINY 1310 100 Juneau, Alaska | KOAM 790 1000 Pittsburg, Kans. |
| KGGF 1010 1000 Coffeyville, Kans. | KIRO 710 1000 Seattle, Wash. | KOB 1180 10000 Albuquerque, N. M. |
| | KIT 1310 100 Yakima, Wash. | KOBH 1370 100 Rapid City, S. Dak. |
| | | KOCA 1210 100 Kilgore, Texas |
| | | KOH 1380 500 Reno, Nev. |

NORTH AMERICAN B. C. STATIONS BY CALLS

| | | | | | |
|-----------------------|-------|-----------------------|-------|-------------------------|-------|
| KOIL 1260 | 1000 | KROD 1500 | 100 | KUTA 1500 | 100 |
| Omaha, Nebr. | | El Paso, Texas | | Salt Lake City, Utah | |
| KOIN 940 | 1000 | KROW 930 | 1000 | KVCV 1200 | 100 |
| Portland, Ore. | | Oakland, Calif. | | Redding, Calif. | |
| KOL 1270 | 1000 | KROY 1310 | 100 | KVEC 1200 | 250 |
| Seattle, Wash. | | Sacramento, Calif. | | San Luis Obispo, Calif. | |
| KOMA 1480 | 5000 | KRQA 1310 | 100 | KVGB 1370 | 100 |
| Oklahoma City, Okla. | | Santa Fe, N. Mex. | | Great Bend, Kans. | |
| KOMO 920 | 1006 | KRRV 1310 | 100 | KVI 570 | 1000 |
| Seattle, Wash. | | Sherman, Texas | | Tacoma, Wash. | |
| KONO 1370 | 100 | KRSC 1120 | 100 | KVOA 1260 | 1000 |
| San Antonio, Texas | | Seattle, Wash. | | Tucson, Ariz. | |
| KOOS 1200 | 250 | KSAC 580 | 500 | KVOD 920 | 500 |
| Marshfield, Ore. | | Manhattan, Kans. | | Denver, Colo. | |
| KORE 1420 | 100 | KSCJ 1330 | 1000 | KVOE 1500 | 100 |
| Eugene, Ore. | | Sioux City, Iowa | | Santa Ana, Calif. | |
| KOTN 1500 | 100 | KSD 550 | 1000 | KVOL 1310 | 100 |
| Pine Bluffs, Ark. | | St. Louis, Mo. | | Lafayette, La. | |
| KOVC 1500 | 100 | KSEI 900 | 250 | KVOO 1140 | 25000 |
| Valley City, N. Dak. | | Pocatello, Idaho | | Tulsa, Okla. | |
| KOY 1390 | 500 | KSFO 560 | 1000 | KVOR 1270 | 1000 |
| Phoenix, Ariz. | | San Francisco, Calif. | | Colorado Spgs., Colo. | |
| KPAC 1260 | 500 | KSJS 1500 | 100 | KVOS 1200 | 100 |
| Port Arthur, Texas | | Salina, Kans. | | Bellingham, Wash. | |
| KPDN 1310 | 100 | KSL 1130 | 50000 | KVOX 1310 | 100 |
| Pampa, Texas | | Salt Lake City, Utah | | Moorhead, Minn. | |
| KPLC 1500 | 100 | KSLM 1370 | 100 | KVSO 1210 | 100 |
| Lake Charles, La. | | Salem, Ore. | | Ardmore, Okla. | |
| KPLT 1500 | 100 | KSO 1430 | 500 | KWBG 1420 | 100 |
| Paris, Texas | | Des Moines, Iowa | | Hutchinson, Kans. | |
| KPMC 1550 | 1000 | KSOO 1110 | 2500 | KWG 1200 | 100 |
| Bakersfield, Calif. | | Sioux Falls, S. D. | | Stockton, Calif. | |
| KPO 680 | 50000 | KSRO 1310 | 250 | KWJJ 1040 | 500 |
| San Francisco, Calif. | | Santa Rosa, Calif. | | Portland, Ore. | |
| KPOF 880 | 500 | KSTP 1460 | 10000 | KWK 1350 | 1000 |
| Denver, Colo. | | St. Paul, Minn. | | St. Louis, Mo. | |
| KPPC 1210 | 100 | KSUB 1310 | 100 | KWKH 1100 | 10000 |
| Pasadena, Calif. | | Cedar City, Utah | | Shreveport, La. | |
| KPQ 1500 | 100 | KSUN 1200 | 100 | KWLC 1270 | 100 |
| Wenatchee, Wash. | | Lowell, Ariz. | | Decorah, Iowa | |
| KPRC 920 | 1000 | KTAR 620 | 1000 | KWOS 1310 | 100 |
| Houston, Texas | | Phoenix, Ariz. | | Jefferson City, Mo. | |
| KQV 1380 | 500 | KTAT 1240 | 1000 | KWSC 1220 | 1000 |
| Pittsburgh, Pa. | | Fort Worth, Texas | | Pullman, Wash. | |
| KQW 1010 | 1000 | KTBS 1450 | 1000 | KWTN 1210 | 100 |
| San Jose, Calif. | | Shreveport, La. | | Watertown, S. D. | |
| KRBC 1420 | 100 | KTEM 1370 | 100 | KWTO 560 | 5000 |
| Abilene, Texas | | Temple, Texas | | Springfield, Mo. | |
| KRE 1370 | 100 | KTFI 1240 | 1000 | KWYO 1370 | 100 |
| Berkeley, Calif. | | Twin Falls, Idaho | | Sheridan, Wyo. | |
| KRGV 1260 | 500 | KTHS 1060 | 10000 | KXA 760 | 250 |
| Weslaco, Texas | | Hot Springs, Ark. | | Seattle, Wash. | |
| KRKD 1120 | 500 | KTRB 740 | 250 | KXBY 1530 | 1000 |
| Los Angeles, Calif. | | Modesto, Calif. | | Kansas City, Mo. | |
| KRKO 1370 | 50 | KTRH 1290 | 1000 | KXL 1420 | 100 |
| Everett, Wash. | | Houston, Texas | | Portland, Ore. | |
| KRLC 1420 | 100 | KTSA 550 | 1000 | KXO 1500 | 100 |
| Lewiston, Idaho | | San Antonio, Texas | | El Centro, Calif. | |
| KRLD 1040 | 10000 | KTSM 1310 | 100 | KXR0 1310 | 100 |
| Dallas, Texas | | El Paso, Texas | | Aberdeen, Wash. | |
| KRLH 1420 | 100 | KTUL 1400 | 500 | KXYZ 1440 | 1000 |
| Midland, Texas | | Tulsa, Okla. | | Houston, Texas | |
| KRMC 1310 | 100 | KTW 1220 | 1000 | KYA 1230 | 1000 |
| Jamestown, N. Dak. | | Seattle, Wash. | | San Francisco, Calif. | |
| KRMD 1310 | 100 | KUJ 1370 | 100 | KYCA 1500 | 100 |
| Shreveport, La. | | Walla Walla, Wash. | | Prescott, Ariz. | |
| KRNR 1500 | 100 | KUMA 1420 | 100 | KYOS 1040 | 250 |
| Roseburg, Ore. | | Yuma, Ariz. | | Merced, Calif. | |
| KRNT 1320 | 500 | KUOA 1260 | 2500 | KYW 1020 | 10000 |
| Des Moines, Iowa | | Siloam Springs, Ark. | | Philadelphia, Pa. | |
| KROC 1310 | 100 | KUSD 890 | 500 | | |
| Rochester, Minn. | | Vermillion, S. D. | | | |

NORTH AMERICAN B. C. STATIONS BY CALLS

| | | | | | | | |
|----------------------|-------|--|----------------------|-------|--|----------------------|-------|
| TGW 1210 | 10000 | | WAWZ 1350 | 500 | | WBZ 990 | 50000 |
| Guatemala, Gua. | | | Zarephath, N. J. | | | Boston, Mass. | |
| TIEP 850 | 500 | | WAYX 1200 | 100 | | WBZA 990 | 1000 |
| San Jose, C. R. | | | Waycross, Ga. | | | Springfield, Mass. | |
| VAS 685 | 2000 | | WAZL 1420 | 100 | | WCAD 1220 | 500 |
| Glace Bay, N. S. | | | Hazleton, Pa. | | | Canton, N. Y. | |
| VESEK 1185 | 10 | | WBBA 890 | 500 | | WCAE 1220 | 1000 |
| Montmagny, Que. | | | West Lafayette, Ind. | | | Pittsburgh, Pa. | |
| VOAC 1065 | 40 | | WBAL 760 | 2500 | | WCAL 1250 | 100 |
| St. John's, Nfld. | | | Baltimore, Md. | | | Northfield, Minn. | |
| VOAS 940 | 100 | | WBAL 1060 | 10000 | | WCAM 1280 | 500 |
| St. John's, Nfld. | | | Baltimore, Md. | | | Camden, N. J. | |
| VOGY 840 | 400 | | WBAP 800 | 50000 | | WCAO 600 | 500 |
| St. John's, Nfld. | | | Fort Worth, Texas | | | Baltimore, Md. | |
| VONF 1195 | 500 | | WBAX 1210 | 100 | | WCAP 1280 | 500 |
| St. John's, Nfld. | | | Wilkes-Barre, Pa. | | | Asbury Park, N. J. | |
| VOWR 681 | 500 | | WBBC 1400 | 500 | | WCAT 1200 | 100 |
| St. John's, Nfld. | | | Brooklyn, N. Y. | | | Rapid City, S. D. | |
| WAAB 1410 | 500 | | WBBL 1210 | 100 | | WCAU 1170 | 50000 |
| Boston, Mass. | | | Richmond, Va. | | | Philadelphia, Pa. | |
| WAAF 920 | 1000 | | WBBM 770 | 50000 | | WCAX 1200 | 100 |
| Chicago, Ill. | | | Chicago, Ill. | | | Burlington, Vt. | |
| WAAT 940 | 500 | | WBBR 1300 | 1000 | | WCAZ 1070 | 100 |
| Jersey City, N. J. | | | Brooklyn, N. Y. | | | Carthage, Ill. | |
| WAAW 660 | 500 | | WBBZ 1200 | 100 | | WCBA 1440 | 500 |
| Omaha, Neb. | | | Ponca City, Okla. | | | Allentown, Pa. | |
| WABC 860 | 50000 | | WBCM 1410 | 500 | | WCBD 1080 | 5000 |
| New York, N. Y. | | | Bay City, Mich. | | | Chicago, Ill. | |
| WABI 1200 | 100 | | WBEN 900 | 1000 | | WCBM 1370 | 100 |
| Bangor, Maine | | | Buffalo, N. Y. | | | Baltimore, Md. | |
| WABY 1370 | 100 | | WBEO 1310 | 100 | | WCBS 1420 | 100 |
| Albany, N. Y. | | | Marquette, Mich. | | | Springfield, Ill. | |
| WACO 1420 | 100 | | WBHP 1200 | 100 | | WCCO 810 | 50000 |
| Waco, Texas | | | Huntsville, Ala. | | | Minneapolis, Minn. | |
| WADC 1320 | 1000 | | WBIG 1440 | 500 | | WCFL 970 | 5000 |
| Akron, Ohio | | | Greensboro, N. C. | | | Chicago, Ill. | |
| WAGF 1370 | 250 | | WBLK 1370 | 100 | | WCHS 580 | 500 |
| Dothan, Ala. | | | Clarksburg, W. Va. | | | Charleston, W. Va. | |
| WAGM 1420 | 100 | | WBLY 1210 | 100 | | WCHV 1420 | 100 |
| Presque Isle, Me. | | | Lima, Ohio | | | Charlottesville, Va. | |
| WAIM 1200 | 100 | | WBNO 1200 | 100 | | WCKY 1490 | 5000 |
| Anderson, S. C. | | | New Orleans, La. | | | Covington, Ky. | |
| WAIR 1250 | 250 | | WBNS 1430 | 500 | | WCLO 1200 | 100 |
| Winston-Salem, N. C. | | | Columbus, Ohio | | | Janesville, Wis. | |
| WALA 1380 | 500 | | WBNX 1350 | 1000 | | WCLS 1310 | 100 |
| Mobile, Ala. | | | New York, N. Y. | | | Joliet, Ill. | |
| WALR 1210 | 100 | | WBNY 1370 | 100 | | WCMI 1310 | 100 |
| Zanesville, Ohio | | | Buffalo, N. Y. | | | Ashland, Ky. | |
| WAML 1310 | 100 | | WBOQ 860 | 50000 | | WCNW 1500 | 100 |
| Laurel, Miss. | | | New York, N. Y. | | | Brooklyn, N. Y. | |
| WAPI 1140 | 5000 | | WBOV 1316 | 100 | | WCOA 1340 | 500 |
| Birmingham, Ala. | | | Terre Haute, Ind. | | | Pensacola, Fla. | |
| WAPO 1420 | 100 | | WBRB 1210 | 100 | | WCOC 880 | 500 |
| Chattanooga, Tenn. | | | Red Bank, N. J. | | | Meridian, Miss. | |
| WARD 1400 | 500 | | WBRC 930 | 1000 | | WCOL 1210 | 100 |
| Brooklyn, N. Y. | | | Birmingham, Ala. | | | Columbus, Ohio | |
| WASH 1270 | 500 | | WBRE 1310 | 100 | | WCOP 1120 | 500 |
| Grand Rapids, Mich. | | | Wilkes-Barre, Pa. | | | Boston, Mass. | |
| WATL 1370 | 100 | | WBRY 1530 | 1000 | | WCPO 1200 | 100 |
| Atlanta, Ga. | | | Waterbury, Conn. | | | Cincinnati, Ohio | |
| WATR 1190 | 100 | | WBT 1080 | 50000 | | WCRW 1210 | 100 |
| Waterbury, Conn. | | | Charlotte, N. C. | | | Chicago, Ill. | |
| WAVE 940 | 1000 | | WBTM 1370 | 100 | | WCSC 1360 | 500 |
| Louisville, Ky. | | | Danville, Va. | | | Charleston, S. C. | |

NORTH AMERICAN B. C. STATIONS BY CALLS

| | | | | | |
|---|-------|---|-------|--|-------|
| WCSH 940 Portland, Me. | 1000 | WEVD 1300 New York, N. Y. | 1000 | WGST 890 Atlanta, Ga. | 1000 |
| WDAE 1220 Tampa, Fla. | 1000 | WEW 760 St. Louis, Mo. | 1000 | WGY 790 Schenectady, N. Y. | 50000 |
| WDAF 610 Kansas City, Mo. | 1000 | WEXL 1310 Royal Oak, Mich. | 50 | WHA 940 Madison, Wis. | 5000 |
| WDAH 1310 El Paso, Texas | 100 | WFAA 800 Dallas, Texas | 50000 | WHAM 1150 Rochester, N. Y. | 50000 |
| WDAS 1370 Philadelphia, Pa. | 100 | WFAB 1300 New York, N. Y. | 1000 | WHAS 820 Louisville, Ky. | 50000 |
| WDAY 940 Fargo, N. D. | 1000 | WFAM 1200 South Bend, Ind. | 100 | WHAT 1310 Philadelphia, Pa. | 100 |
| WDBJ 930 Roanoke, Va. | 1000 | WFAS 1210 White Plains, N. Y. | 100 | WHAZ 1300 Troy, N. Y. | 500 |
| WDBO 580 Orlando, Fla. | 1000 | WFBC 1300 Greenville, S. C. | 1000 | WHB 860 Kansas City, Mo. | 1000 |
| WDEL 1120 Wilmington, Del. | 250 | WFBG 1310 Altoona, Pa. | 100 | WHBB 1500 Selma, Alabama | 100 |
| WDEV 550 Waterbury, Vt. | 500 | WFBL 1360 Syracuse, N. Y. | 1000 | WHBC 1200 Canton, Ohio | 100 |
| WDGY 1180 Minneapolis, Minn. | 1000 | WFBM 1230 Indianapolis, Ind. | 1000 | WHBF 1210 Rock Island, Ill. | 100 |
| WDNC 1500 Durham, N. C. | 100 | WFBR 1270 Baltimore, Md. | 500 | WHBI 1250 Newark, N. J. | 1000 |
| WDOD 1280 Chattanooga, Tenn. | 1000 | WFDF 1310 Flint, Mich. | 100 | WHBL 1300 Sheboygan, Wis. | 250 |
| WDRC 1330 Hartford, Conn. | 1000 | WFEA 1340 Manchester, N. H. | 500 | WHBQ 1370 Memphis, Tenn. | 100 |
| WDSU 1250 New Orleans, La. | 1000 | WFIL 560 Philadelphia, Pa. | 1000 | WHBU 1210 Anderson, Ind. | 100 |
| WDWS 1370 Champaign, Ill. | 100 | WFLA 620 Clearwater, Fla. | 1000 | WHBY 1200 Green Bay, Wis. | 100 |
| WDZ 1020 Tuscola, Ill. | 250 | WFMD 900 Frederick, Md. | 500 | WHDF 1370 Calumet, Mich. | 100 |
| WEAF 660 New York, N. Y. | 50000 | WFOR 1370 Hattiesburg, Miss. | 100 | WHDH 830 Boston, Mass. | 1000 |
| WEAN 780 Providence, R. I. | 1000 | WFOY 1210 St. Augustine, Fla. | 100 | WHDL 1400 Olean, N. Y. | 250 |
| WEAU 1050 Fau Claire, Wis. | 1000 | WFTC 1200 Kinston, N. C. | 100 | WHEB 740 Portsmouth, N. H. | 250 |
| WEBC 1290 Duluth, Minn. | 1000 | WGAL 1500 Lancaster, Pa. | 100 | WHEC 1430 Rochester, N. Y. | 500 |
| WEBQ 1210 Harrisburg, Ill. | 100 | WGAN 640 Portland, Me. | 500 | WHEF 1500 Kosciusko, Miss. | 100 |
| WEBR 1310 Buffalo, N. Y. | 100 | WGAR 1450 Cleveland, Ohio | 500 | WHFC 1420 Cicero, Ill. | 100 |
| WEDC 1210 Chicago, Ill. | 100 | WGBB 1210 Freeport, N. Y. | 100 | WHIO 1260 Dayton, Ohio | 1000 |
| WEED 1420 Rocky Mount, N. C. | 100 | WGBF 630 Evansville, Ind. | 500 | WHIS 1410 Bluefield, W. Va. | 500 |
| WEEL 590 Boston, Mass. | 1000 | WGBI 880 Scranton, Pa. | 500 | WHJB 620 Greensburg, Pa. | 250 |
| WEEU 830 Reading, Pa. | 1000 | WGCM 1210 Gulfport, Miss. | 100 | WHK 1390 Cleveland, Ohio | 1000 |
| WEGL 1400 Brooklyn, N. Y. | 500 | WGES 1360 Chicago, Ill. | 500 | WHKC 640 Columbus, Ohio | 500 |
| WELI 900 New Haven, Conn. | 500 | WGH 1310 Newport News, Va. | 100 | WHLB 1370 Virginia, Minn. | 100 |
| WELL 1420 Battle Creek, Mich. | 100 | WGL 1370 Fort Wayne, Ind. | 100 | WHN 1010 New York, N. Y. | 1000 |
| WEMP 1310 Milwaukee, Wis. | 100 | WGN 720 Chicago, Ill. | 50000 | WHO 1000 Des Moines, Iowa | 50000 |
| WENR 870 Chicago, Ill. | 50000 | WGNV 1210 Newburgh, N. Y. | 100 | WHOM 1450 Jersey City, N. J. | 250 |
| WEOA 1370 Evansville, Ind. | 100 | WCPC 1420 Albany, Ga. | 100 | WHP 1430 Harrisburg, Pa. | 500 |
| WESG 850 Elmira, N. Y. | 1000 | WGR 550 Buffalo, N. Y. | 1000 | WIBA 1280 Madison, Wis. | 1900 |
| WEST 1200 Easton, Pa. | 100 | WGRC 1370 New Albany, Ind. | 250 | WIBG 970 Glenside, Pa. | 190 |

NORTH AMERICAN B. C. STATIONS BY CALLS

| | | | | | |
|---------------------|-------|----------------------|--------|---------------------|-------|
| WIBM 1370 | 100 | WJRD 1200 | 100 | WMAL 630 | 250 |
| Jackson, Mich. | | Tuscaloosa, Ala. | | Washington, D. C. | |
| WIBU 1210 | 100 | WJSV 1460 | 10000 | WMAQ 670 | 50000 |
| Foynette, Wis. | | Washington, D. C. | | Chicago, Ill. | |
| WIBW 580 | 1000 | WJTN 1210 | 50 | WMAS 1420 | 100 |
| Topeka, Kans. | | Jamestown, N. Y. | | Springfield, Mass. | |
| WIBX 1200 | 100 | WJW 1210 | 100 | WMAZ 1180 | 1000 |
| Utica, N. Y. | | Akron, Ohio | | Macon, Ga. | |
| WICC 600 | 500 | WJZ 760 | 50000 | WMBC 1420 | 100 |
| Bridgeport, Conn. | | New York, N. Y. | | Detroit, Mich. | |
| WIL 1200 | 100 | WKAQ 1240 | 1000 | WMBD 1440 | 500 |
| St. Louis, Mo. | | San Juan, P. R. | | Peoria, Ill. | |
| WILL 580 | 250 | WKAR 850 | 1000 | WMBG 1210 | 100 |
| Urbana, Ill. | | East Lansing, Mich. | | Richmond, Va. | |
| WILM 1420 | 100 | WKBB 1500 | 100 | WMBH 1420 | 100 |
| Wilmington, Del. | | East Dubuque, Ill. | | Joplin, Mo. | |
| WIND 560 | 1000 | WKBH 1380 | 1000 | WMBI 1080 | 5000 |
| Gary, Ind. | | LaCrosse, Wis. | | Chicago, Ill. | |
| WINS 1180 | 1000 | WKBN 570 | 500 | WMBO 1310 | 100 |
| New York, N. Y. | | Youngstown, Ohio | | Auburn, N. Y. | |
| WIOD 1300 | 1000 | WKBO 1200 | 100 | WMBQ 1500 | 100 |
| Miami, Fla. | | Harrisburg, Pa. | | Brooklyn, N. Y. | |
| WIP 610 | 1000 | WKBV 1500 | 100 | WMBH 1370 | 100 |
| Philadelphia, Pa. | | Richmond, Ind. | | Jacksonville, Fla. | |
| WIRE 1400 | 1000 | WKBW 1480 | 5000 | WMC 780 | 1000 |
| Indianapolis, Ind. | | Buffalo, N. Y. | | Memphis, Tenn. | |
| WIS 560 | 1000 | WKBZ 1500 | 100 | WMCA 570 | 1000 |
| Columbia, S. C. | | Muskegon, Mich. | | New York, N. Y. | |
| WISN 1120 | 250 | WKEX 1500 | 100 | WMEX 1500 | 100 |
| Milwaukee, Wis. | | Griffin, Ga. | | Boston, Mass. | |
| WJAC 1310 | 100 | WKOK 1210 | 100 | WMFD 1370 | 100 |
| Johnstown, Pa. | | Sunbury, Pa. | | Wilmington, N. C. | |
| WJAG 1060 | 1000 | WKRC 550 | 1000 | WMFF 1310 | 250 |
| Norfolk, Neb. | | Cincinnati, Ohio | | Plattsburg, N. Y. | |
| WJAR 890 | 1000 | WKY 900 | 1000 | WMFG 1210 | 100 |
| Providence, R. I. | | Oklahoma City, Okla. | | Hibbing, Minn. | |
| WJAS 1290 | 1000 | WKZO 590 | 1000 | WMFJ 1420 | 100 |
| Pittsburgh, Pa. | | Kalamazoo, Mich. | | Daytona Beach, Fla. | |
| WJAX 900 | 1000 | WLAC 1470 | 5000 | WMFN 1210 | 100 |
| Jacksonville, Fla. | | Nashville, Tenn. | | Clarksdale, Miss. | |
| WJAY 610 | 500 | WLAK 1310 | 100 | WMFO 1370 | 100 |
| Cleveland, Ohio | | Lakeland, Fla. | | Decatur, Ala. | |
| WJBC 1290 | 100 | WLAP 1420 | 100 | WMFR 1200 | 100 |
| Bloomington, Ill. | | Lexington, Ky. | | High Point, N. C. | |
| WJBK 1500 | 100 | WLB 1250 | 1000 | WMIN 1370 | 100 |
| Detroit, Mich. | | Minneapolis, Minn. | | St. Paul, Minn. | |
| WJBL 1200 | 100 | WLBC 1319 | 100 | WMMN 890 | 500 |
| Decatur, Ill. | | Muncie, Ind. | | Fairmont, W. Va. | |
| WJBO 1420 | 100 | WLBL 900 | 2500 | WMPC 1200 | 100 |
| Baton Rouge, La. | | Stevens Point, Wis. | | Lapeer, Mich. | |
| WJBR 1420 | 100 | WLBZ 620 | 500 | WMSD 1420 | 100 |
| Gastonla, N. C. | | Bangor, Me. | | Sheffield, Ala. | |
| WJBW 1200 | 100 | WLEU 1420 | 100 | WMT 600 | 1000 |
| New Orleans, La. | | Erie, Pa. | | Cedar Rapids, Iowa | |
| WJBY 1210 | 100 | WLLH 1370 | 100 | WNAC 1230 | 1000 |
| Gadsden, Ala. | | Lowell, Mass. | | Boston, Mass. | |
| WJDX 1270 | 1000 | WLMU 1210 | 100 | WNAD 1010 | 1000 |
| Jackson, Miss. | | Middlesboro, Ky. | | Norman, Okla. | |
| WJEJ 1210 | 100 | WLNH 1310 | 100 | WNAX 570 | 1000 |
| Hagerstown, Md. | | Laconia, N. H. | | Yankton, S. D. | |
| WJIM 1210 | 100 | WLS 870 | 50000 | WNBC 1380 | 250 |
| Lansing, Mich. | | Chicago, Ill. | | New Britain, Conn. | |
| WJJD 1130 | 20000 | WLTH 1400 | 500 | WNBF 1500 | 100 |
| Chicago, Ill. | | Brooklyn, N. Y. | | Binghamton, N. Y. | |
| WJMS 1420 | 100 | WLVA 1200 | 100 | WNBH 1310 | 100 |
| Ironwood, Mich. | | Lynchburg, Va. | | New Bedford, Mass. | |
| WJNO 1200 | 100 | WLW 700 | 500000 | WNBR 1430 | 500 |
| W. Palm Beach, Fla. | | Cincinnati, Ohio | | Memphis, Tenn. | |
| WJR 750 | 50000 | WLWL 1100 | 5000 | | |
| Detroit, Mich. | | New York, N. Y. | | | |

NORTH AMERICAN B. C. STATIONS BY CALLS

| | | |
|------------------------|-----------------------|------------------------|
| WNBX 1260 1000 | WPRO 630 500 | WSGN 1310 100 |
| Springfield, Vt. | Providence, R. I. | Birmingham, Ala. |
| WNBZ 1290 100 | WPRP 1420 100 | WSIX 1210 100 |
| Saranac Lake, N. Y. | Ponce, P. R. | Springfield, Tenn. |
| WNEL 1290 1000 | WPTF 680 1000 | WSJS 1310 100 |
| San Juan, P. R. | Raleigh, N. C. | Winston-Salem, N. C. |
| WNEW 1250 1000 | WQAM 560 1000 | WSM 650 50000 |
| New York, N. Y. | Miami, Fla. | Nashville, Tenn. |
| WNLC 1500 100 | WQAN 880 250 | WSMB 1320 1000 |
| New London, Conn. | Scranton, Pa. | New Orleans, La. |
| WNNY 1420 100 | WQBC 1360 1000 | WSMK 1380 200 |
| Watertown, N. Y. | Vicksburg, Miss. | Dayton, Ohio |
| WNOX 1010 1000 | WQDM 1390 1000 | WSOC 1210 100 |
| Knoxville, Tenn. | St. Albans, Vt. | Charlotte, N. C. |
| WNRI 1200 100 | WQXR 1550 1000 | WSPA 920 1000 |
| Newport, R. I. | New York, N. Y. | Spartanburg, S. C. |
| WNYC 810 1000 | WRAC 1370 100 | WSPD 1340 1000 |
| New York, N. Y. | Williamsport, Pa. | Toledo, Ohio |
| WOAI 1190 50000 | WRAW 1310 100 | WSPR 1140 500 |
| San Antonio, Texas | Reading, Pa. | Springfield, Mass. |
| WOC 1370 100 | WRAX 920 250 | WSUI 880 500 |
| Davenport, Iowa | Philadelphia, Pa. | Iowa City, Iowa |
| WOI 640 5000 | WRBL 1200 100 | WSUN 620 1000 |
| Ames, Iowa | Columbus, Ga. | St. Petersburg, Fla. |
| WOKO 1430 500 | WRC 950 500 | WSVA 550 500 |
| Albany, N. Y. | Washington, D. C. | Harrisonburg, Va. |
| WOL 1310 100 | WRDO 1370 100 | WSVS 1370 50 |
| Washington, D. C. | Augusta, Me. | Buffalo, N. Y. |
| WOMT 1210 100 | WRDW 1500 100 | WSYB 1500 100 |
| Manitowoc, Wis. | Augusta, Ga. | Rutland, Vt. |
| WOOD 1270 500 | WNEC 600 1000 | WSYR 570 1000 |
| Grand Rapids, Mich. | Memphis, Tenn. | Syracuse, N. Y. |
| WOPI 1500 100 | WREN 1220 1000 | WTAD 900 1000 |
| Bristol, Tenn. | Lawrence, Kans. | Quincy, Ill. |
| WOR 710 50000 | WRGA 1500 100 | WTAG 580 500 |
| Newark, N. J. | Rome, Ga. | Worcester, Mass. |
| WORC 1280 500 | WRJN 1370 100 | WTAL 1310 100 |
| Worcester, Mass. | Racine, Wis. | Tallahassee, Fla. |
| WORK 1320 1000 | WROK 1410 500 | WTAM 1070 50000 |
| York, Pa. | Rockford, Ill. | Cleveland, Ohio |
| WORL 920 500 | WROL 1310 100 | WTAQ 1330 1000 |
| Boston, Mass. | Knoxville, Tenn. | Green Bay, Wis. |
| WOSU 570 750 | WRR 1280 500 | WTAR 780 500 |
| Columbus, Ohio | Dallas, Texas | Norfolk, Va. |
| WOV 1130 1000 | WRUF 830 5000 | WTAW 1120 500 |
| New York, N. Y. | Gainesville, Fla. | College Station, Tex. |
| WOW 590 5000 | WRVA 1110 5000 | WTAX 1210 100 |
| Omaha, Neb. | Richmond, Va. | Springfield, Ill. |
| WOWO 1160 10000 | WSAI 1330 1000 | WTBO 800 250 |
| Fort Wayne, Ind. | Cincinnati, Ohio | Cumberland, Md. |
| WPAD 1420 100 | WSAJ 1310 100 | WTCN 1250 1000 |
| Paducah, Ky. | Grove City, Pa. | Minneapolis, Minn. |
| WPAR 1420 100 | WSAN 1448 500 | WTEL 1310 100 |
| Parkersburg, W. Va. | Allentown, Pa. | Philadelphia, Pa. |
| WPAX 1210 100 | WSAR 1450 1000 | WTFI 1450 500 |
| Thomasville, Ga. | Fall River, Mass. | Athens, Ga. |
| WPAY 1370 100 | WSAU 1370 100 | WTHT 1200 100 |
| Portsmouth, Ohio | Wausau, Wis. | Hartford, Conn. |
| WPEN 920 250 | WSAY 1210 100 | WTIC 1040 50000 |
| Philadelphia, Pa. | Rochester, N. Y. | Hartford, Conn. |
| WPG 1100 5000 | WSAZ 1190 1000 | WTJS 1310 100 |
| Atlantic City, N. J. | Huntington, W. Va. | Jackson, Tenn. |
| WPHR 880 500 | WSB 740 50000 | WTMJ 620 1000 |
| Petersburg, Va. | Atlanta, Ga. | Milwaukee, Wis. |
| WPRO 1370 100 | WSBC 1210 100 | WTMV 1500 100 |
| Mayaguez, P. R. | Chicago, Ill. | East St. Louis, Ill. |
| | WSBT 1360 500 | |
| | South Bend, Ind. | |
| | WSFA 1410 500 | |
| | Montgomery, Ala. | |

NORTH AMERICAN B. C. STATIONS BY CALLS

| | | | | | |
|---|-------|---|--------|---|--------|
| WTNJ 1280 Trenton, N. J. | 500 | XECW 1310 Mexico City, D. F. | 10 | XEPN 730 Piedras Negras, Coah. | 100000 |
| WTOC 1260 Savannah, Ga. | 1000 | XECZ 1370 San Luis Potosi, S.L.P. | 100 | XERA 840 Villa Acuna, Coah. | 350000 |
| WTRC 1310 Elkhart, Ind. | 100 | XED 1160 Guadalajara, Jal. | 2500 | XES 990 Tampico, Tams. | 250 |
| WVFW 1400 Brooklyn, N. Y. | 500 | XEDA 1220 Gra. Anaya, D. F. | 200 | XET 690 Monterrey, N. L. | 500 |
| WWAE 1200 Hammond, Ind. | 100 | XEDW 1150 Minatitlan, Ver. | 20 | XETB 1310 Torreon, Coah. | 125 |
| WWJ 920 Detroit, Mich. | 1000 | XEE 1210 Durango, Dgo. | 50 | XETF 1220 Veracruz, Ver. | 30 |
| WWL 850 New Orleans, La. | 10000 | XEF 1450 Juarez, Chih. | 100 | XETH 1210 Puebla, Pue. | 100 |
| WWNC 570 Asheville, N. C. | 1000 | XEFA 1180 Tacuba, D. F. | 500 | XEU 1010 Veracruz, Ver. | 250 |
| WWRL 1500 Woodside, N. Y. | 100 | XEFB 870 Monterrey, N. L. | 200 | XEW 890 Mexico City, D. F. | 50000 |
| WWSW 1500 Pittsburgh, Pa. | 100 | XEFC 550 Merida, Yuc. | 250 | XEX 1310 Monterrey, N. L. | 125 |
| WWVA 1160 Wheeling, W. Va. | 5000 | XEFE 1340 Laredo, Tams. | 250 | XEXB 1270 Jalapa, Ver. | 50 |
| WXYZ 1240 Detroit, Mich. | 1000 | XEFI 1440 Chihuahua, Chih. | 250 | XEXC 810 Aguascalientes, Ags. | 350 |
| XEAA 920 Mexicali, B. C. | 200 | XEFJ 1230 Monterrey, N. L. | 100 | XEXD 1340 Jalapa, Ver. | 350 |
| XEAC 980 Tijuana, L. C. | 250 | XEFO 940 Mexico City, D. F. | 5000 | XEXH 1250 San Luis Potosi, S.L.P. | 250 |
| XEAD 1060 Guadalajara, Jal. | 125 | XEFV 1210 Juarez, Chih. | 100 | XEXM 610 Mexico City, D. F. | 500 |
| XEAF 990 Nogales, Son. | 250 | XEFW 1310 Tampico, Tams. | 250 | XEXS 1000 Portable in Mexico | 100 |
| XEAG 1310 Cordoba, Ver. | 10 | XEH 720 Monterrey, N. L. | 250 | XEYO 940 Mexico City, D. F. | 500 |
| XEAL 660 Mexico City, D. F. | 1000 | XEI 1370 Morelia, Mich. | 125 | XEZ 630 Merida, Yuc. | 500 |
| XEAM 750 Matamoros, Tams. | 25 | XEJ 1020 Juarez, Chih. | 1000 | | |
| XEAO 560 Mexicali, B. C. | 250 | XEJP 1130 Mexico City, D. F. | 100 | | |
| XEAQ 1090 Rosarito, L. C. | 1000 | XEK 990 Mexico City, D. F. | 100 | | |
| XEAS 1160 Saltillo, Coah. | 50 | XEKL 1240 Leon, Guan. | 500 | | |
| XEAT 1210 Parral, Chih. | 250 | XEL 780 Mexico City, D. F. | 1000 | | |
| XEAW 960 Reynosa, Tams. | 50000 | XELA 1240 Saltillo, Coah. | 50 | | |
| XEB 1030 Mexico City, D. F. | 10000 | XELO 580 Piedras Negras, Coah. | 50000 | | |
| XEBA 1080 Guzman, Jal. | 20 | XELZ 1370 Mexico City, D. F. | 100 | | |
| XEBC 730 Agua Caliente, L. C. | 5000 | XEMG 1060 Atzenpotezaleco, D. F. | 100 | | |
| XEBG 820 Tijuana, B. Cfa. | 1000 | XEMO 860 Tijuana, L. C. | 5000 | | |
| XEBH 930 Hermosillo, Sonora | 500 | XEMX 1280 Mexico City, D. F. | 100 | | |
| XEBJ 1160 Merida, Yuc. | 20 | XENC 860 Mexico City, D. F. | 50 | | |
| XEBK 1000 Nuevo Laredo, Tams. | 100 | XENT 910 Nuevo Laredo, Tams. | 150000 | | |
| XEBX 640 Saltillo, Coah. | 250 | XEOK 760 Tijuana, L. C. | 2500 | | |
| XEBZ 1160 Mexico City, D. F. | 100 | XEOX 640 Saltillo, Coah. | 500 | | |
| XEC 1150 Tijuana, L. C. | 100 | XEP 1166 Juarez, Chih. | 500 | | |

| Eastern Time A. M. | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | 00:00 | 00:15 | 00:30 | 00:45 | 01:00 | 01:15 | 01:30 | 01:45 | 02:00 | 02:15 | 02:30 | 02:45 | |
| CFCK, Montreal, 6,005 | | | | | | | | | | | | | |
| DJA, Berlin, 9,580 | | | | | | | | | | | | | |
| DJB, Berlin, 15,200 | | | | | | | | | | | | | |
| DJD, Berlin, 11,770 | | | | | | | | | | | | | |
| DJE, Berlin, 17,760 | | | | | | | | | | | | | |
| DJN, Berlin, 9,540 | | | | | | | | | | | | | |
| DJQ, Berlin, 15,280 | | | | | | | | | | | | | |
| GSB, Davenport, 9,510 | | | | | | | | | | | | | |
| GSD, Davenport, 11,750 | | | | | | | | | | | | | |
| GSF, Davenport, 15,140 | | | | | | | | | | | | | |
| GSG, Davenport, 17,780 | | | | | | | | | | | | | |
| GSH, Davenport, 21,470 | | | | | | | | | | | | | |
| GSO, Davenport, 15,180 | | | | | | | | | | | | | |
| GSP, Davenport, 15,310 | | | | | | | | | | | | | |
| HAS3, Budapest, 15,370 | | | | | | | | | | | | | |
| HVJ, Vatican City, 15,120 | | | | | | | | | | | | | |
| JVM, Naxoski, 10,740 | | | | | | | | | | | | | |
| JVN, Naxoski, 10,660 | | | | | | | | | | | | | |
| PHI, Hiversum, 11,725 | | | | | | | | | | | | | |
| RKI, Moscow, 15,090 | | | | | | | | | | | | | |
| RNE, Moscow, 12,000 | | | | | | | | | | | | | |
| RNE, Moscow, 12,000 | | | | | | | | | | | | | |
| RY15, Khabarovsk, 4,273 | | | | | | | | | | | | | |
| TPA2, Paris, 15,250 | | | | | | | | | | | | | |
| TPA3, Paris, 11,880 | | | | | | | | | | | | | |
| TPA4, 11,720, Paris | | | | | | | | | | | | | |
| VK2ME, Sydney, 9,685 | | | | | | | | | | | | | |
| VK3LR, Melbourne, 9,580 | | | | | | | | | | | | | |
| VK3ME, Melbourne, 9,510 | | | | | | | | | | | | | |
| VPD, Suva, 13,075 | | | | | | | | | | | | | |
| W1XK, Miami, 9,370 | | | | | | | | | | | | | |
| W2XAD, St. Louis, 15,330 | | | | | | | | | | | | | |
| W2XE, Wayne, 21,520 | | | | | | | | | | | | | |
| W8XK, Pittsburgh, 21,540 | | | | | | | | | | | | | |
| W9XF, Chicago, 6,100 | | | | | | | | | | | | | |
| YDAS, Bandung, 6,120 | | | | | | | | | | | | | |

Sunday

Sunday

Sunday

DON'T Miss THIS ...

DAILY

1321 EST, News, 2RO, 9635 kcs.
 1630, News, W1XAL, 11790 (except Sunday)
 1800, News, W1XAL, 11790 (except Sunday)
 2230, News, DJC, 6020; DJD, 11770.
 2330, News, TPA4, 11715

EVERY SATURDAY

0000, KDKA Dx Club, KDKA, 980; W8XK, 6140
 1400, Metropolitan Opera, W2XAD, 15330; W2XAF,
 9530; W3XAL, 17780.
 2200, American DXers' Program, HJ1ABP, 9600
 2300, Northern Messenger, CJRO, 6150; CJRX, 11720

EVERY SUNDAY

0000, Far North Broadcasts, KDKA, 980; W8XK, 6140

EVERY MONDAY

1930, Modern Radio Course, W1XAL, 6040
 2045, Code Practice lessons, W1XAL, 6040

EVERY MONDAY, WEDNESDAY, FRIDAY

1800, American Hour, 2RO, 9635

Feb. 17

1125, Opera from RNE or RV96

Feb. 22

1700, Geo. Washington Memorial, DJC, 6020; DJD,
 11770.

1930, "Radiotelegraph Transmitters," W1XAL, 6040

Feb. 27

0930, Music Hall and Variety Entertainment, TPA2,
 15243

Feb. 28

1400, Concert from Radio-Paris, TPA3, 11850

QUICK INDEX TO STATION DATA

North American Broadcast

By Frequencies Mar. '37, p. 67
 By Locations Mar. '37, p. 76
 By Calls Mar. '37, p. 82
 Frequency Checks Mar. '37, p. 44
 Owners' Addresses Oct. '36, p. 59
 Time on the Air Dec. '36, p. 59

Shortwaves

1.6 meg. to 6 meg. Feb. '37, p. 53
 6 meg. to 400 meg. Mar. '37, p. 59
 By Locations Feb. '37, p. 61
 By Calls Feb. '37, p. 65

Foreign Broadcast

By Frequencies Dec. '36, p. 43
 By Locations Dec. '36, p. 52
 By Calls Dec. '36, p. 57

Long Wave

By Frequencies Apr. '36, p. 49
 By Locations Apr. '36, p. 51
 By Calls Apr. '36, p. 52

Miscellaneous

Roster of DX Clubs Mar. '36, p. 14
 Columbia Network Stations Jan. '37, p. 47
 Mutual Network Stations Feb. '37, p. 16
 Canadian Network Stations Mar. '37, p. 49

AROUND THE CLOCK ON THE SHORT WAVES

The time is given by the 24-hour clock. Noon is always 12:00 but midnight may be either 00:00 or 24:00. To change time to your own clock, subtract twelve from p.m. hours. Thus, 18:00 is 6 p.m. and 23:00 is 11:00 p.m. The time lines used in charts are for Eastern Standard. Those living in other zones may clip out the lines below and paste them over the EST lines. The following strips are for Central Standard Time. For MST, start with 10:00 and 22:00. For PST with 09:00 and 21:00.

| | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| Central Time A. M. | Central Time P. M. | Central Time P. M. | Central Time P. M. |
| 23:00 | 11:00 | 11:00 | 11:00 |
| 23:15 | 11:15 | 11:15 | 11:15 |
| 23:30 | 11:30 | 11:30 | 11:30 |
| 23:45 | 11:45 | 11:45 | 11:45 |
| 00:00 | 12:00 | 12:00 | 12:00 |
| 00:15 | 12:15 | 12:15 | 12:15 |
| 00:30 | 12:30 | 12:30 | 12:30 |
| 00:45 | 12:45 | 12:45 | 12:45 |
| 01:00 | 13:00 | 13:00 | 13:00 |
| 01:15 | 13:15 | 13:15 | 13:15 |
| 01:30 | 13:30 | 13:30 | 13:30 |
| 01:45 | 13:45 | 13:45 | 13:45 |
| 02:00 | 14:00 | 14:00 | 14:00 |
| 02:15 | 14:15 | 14:15 | 14:15 |
| 02:30 | 14:30 | 14:30 | 14:30 |
| 02:45 | 14:45 | 14:45 | 14:45 |
| 03:00 | 15:00 | 15:00 | 15:00 |
| 03:15 | 15:15 | 15:15 | 15:15 |
| 03:30 | 15:30 | 15:30 | 15:30 |
| 03:45 | 15:45 | 15:45 | 15:45 |
| 04:00 | 16:00 | 16:00 | 16:00 |
| 04:15 | 16:15 | 16:15 | 16:15 |
| 04:30 | 16:30 | 16:30 | 16:30 |
| 04:45 | 16:45 | 16:45 | 16:45 |
| 05:00 | 17:00 | 17:00 | 17:00 |
| 05:15 | 17:15 | 17:15 | 17:15 |
| 05:30 | 17:30 | 17:30 | 17:30 |
| 05:45 | 17:45 | 17:45 | 17:45 |
| 06:00 | 18:00 | 18:00 | 18:00 |
| 06:15 | 18:15 | 18:15 | 18:15 |
| 06:30 | 18:30 | 18:30 | 18:30 |
| 06:45 | 18:45 | 18:45 | 18:45 |
| 07:00 | 19:00 | 19:00 | 19:00 |
| 07:15 | 19:15 | 19:15 | 19:15 |
| 07:30 | 19:30 | 19:30 | 19:30 |
| 07:45 | 19:45 | 19:45 | 19:45 |
| 08:00 | 20:00 | 20:00 | 20:00 |
| 08:15 | 20:15 | 20:15 | 20:15 |
| 08:30 | 20:30 | 20:30 | 20:30 |
| 08:45 | 20:45 | 20:45 | 20:45 |
| 09:00 | 21:00 | 21:00 | 21:00 |
| 09:15 | 21:15 | 21:15 | 21:15 |
| 09:30 | 21:30 | 21:30 | 21:30 |
| 09:45 | 21:45 | 21:45 | 21:45 |
| 10:00 | 22:00 | 22:00 | 22:00 |
| 10:15 | 22:15 | 22:15 | 22:15 |
| 10:30 | 22:30 | 22:30 | 22:30 |
| 10:45 | 22:45 | 22:45 | 22:45 |

THE INTERNATIONAL CLOCK

An accurate timepiece that tells not only your own time but the time in every other locality in the world as well. Attractively designed, in a brushed brass case, it makes a pleasing addition to the radio room.

Actual size 5¼ inches high and 4¼ inches wide. 40 hour movement. Winds and sets just like any ordinary clock.

Has a.m. and p.m. divided dial as well as 24-hour dial. Indicates minutes and quarter hours.

JUST WHAT DXERS NEED

Ohio residents add 3% sales tax.

Sent Postpaid **\$4.95**

THE RADEX PRESS

CONNEAUT, O.

INSURE YOUR RADIO ENJOYMENT SEND THIS BLANK TODAY

The Radex Press
Conneaut, Ohio:

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

- Program "slates" 1 for 10c 2 for 15c 4 for 25c
- One Radio World Map and Time Converter 25c
- One copy of the next RADEX 25c
- One year's subscription to RADEX, 10 issues \$1.75
- Two years \$3.25 Three years \$1.75
- Beginner's Story of Radio35
- (If you live in Ohio, add 3% for State Sales Tax. No tax on subscriptions.)

Write Name Plainly

Street and Number

City and State

107

A Timely Suggestion

The RADEX Map of the World with Time Converting Dial is the most useful accessory any radio fan can have.

No calculation is necessary to find out when it is midnight in London or sunrise in Japan—just turn the dial to your own time zone and it shows the time in every other place in the world.

No adding; no subtracting; no trying to figure which is yesterday, today or tomorrow. The dial does it all.

RADEX RADIO MAP of the WORLD

Showing all Countries and their Principal Cities
with Call Letters and Time Zones of each Country

RADEX
TIME CONVERTER

Designed and Published
by
THE RADEX PRESS
5005 Euclid Avenue
Cleveland, Ohio
Printed in the U. S. A.

PRICE
25¢

DIRECTIONS—Turn the dial to your own time zone, either A. M. or P. M., in the sector marked "TODAY" opposite your own time and the current times in all other zones in the world will be shown. It will also be indicated which of the other zones are "Yesterday" and which are "Tomorrow." The position of twilight, darkness and dawn is graphically shown. On a few dates to time in a New Zealand summer, from the hour of the program (say 9:00 p. m.) to the New Zealand sector and you will find that it is 4:30 A. M. same day in Eastern Standard Zone or 11 P. M. yesterday in Hawaii.

Copyright 1938
by THE RADEX PRESS

Price only 25 cents, and we pay the postage.
(26 cents to Ohio residents)

THE RADEX PRESS
Conneaut, Ohio

I sometimes think there should be a law requiring everyone to spend some of his spare time training for the future. I once thought all the cards were stacked against me. Now I'm making good money. Maybe my experience will show you the way to better pay too.



I THOUGHT RADIO WAS A PLAYTHING

But Now My Eyes Are Opened--I'm Making Over \$30 a Week!

\$30 a week. Man alive, I used to think anyone making that much was just plain lucky.

A short time ago I was just barely getting by. It was the same old story—a little job; a salary as small as the job.

If you had told me that I would soon be making \$30 and more a week in my own Radio business—I'd thought you were crazy. To me, Radio was a plaything. Now I know it's a big business where specialized training pays rich rewards.

But I am getting ahead of my story—let me tell you how it all started. I was hard up because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees to make good money.

One day I picked up a magazine and an ad attracted me because it seemed to fit my case. It said, "I will train you to start a spare time or full time Radio service business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought, "but I'll find out what it's all about."

I wrote in, and within a few days received a 64-page book, telling about the opportunities in Radio; how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets. It would have sounded too good to be true if it had not been backed up by nearly 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream. I started to take their course, and soon I was ready to start making money in my neighborhood—as much as \$5 and \$15 a week. It wasn't long until I had saved enough money to start a full time business of my own.

That business in a surprisingly short time grew to the point where I am clearing over \$30 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for jobs in Broadcasting Stations, Radio Factories, Radio Jobbers and Dealers, Aviation Radio, Television, Short Wave Stations, Automobile, Police Radio, Loud Speaker Systems, and other branches of Radio.

THINK IT OVER

Friend—you may not be as bad off as I was—but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next

ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

TAKE MY TIP

Write for their book, "Rich Rewards In Radio." It won't cost you anything except a postage stamp. It shows you a lot of things which I don't believe you know now about Radio—a lot of facts and figures on the opportunities in this new, fast-growing field—where the jobs are, what they pay, how to get ready for them. Beginners as well as experienced men are making as much as \$500 to \$1,500 a year more as a result of N. R. I. Training. And at the same time they send the book, "Rich Rewards in Radio," they'll send you, without any cost or obligation, a Free Lesson, to prove that their training is easy, practical, fascinating. The lesson they send, "Radio Receiver Troubles—Their Cause and Remedy," is valuable. And when you read this lesson, you'll know why so many fellows have mastered N. R. I. Training and are now making good money as Radio Experts.

You are not placing yourself under any obligation by writing for this material as they will gladly send it to anyone who is ambitious and wants to get ahead. Mail the coupon in an envelope or paste it on a 1c postcard. Just address Mr. J. E. Smith, President, National Radio Institute, Dept. 7CO, Washington, D. C.

J. E. Smith, President,
National Radio Institute
Dept. 7CO, Washington, D. C.

MAIL THIS
COUPON

Dear Mr. Smith:

Without obligation, send me the sample lesson and your book about spare time and full time Radio opportunities, and how I can train for them at home in spare time. (Please print plainly.)

Name..... Age.....

Address.....

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

14X1