

N.S.E.

THE OCTOBER 1936

25<sup>c</sup>

# RADIO INDEX

The All-wave DX Log of the World



How to Clean Up the Set  
The New Frequency Checks  
Some Interesting New Dials  
Broadcasting Stations  
of the World

No. 102

# IF



your log is kind of weak in spots.

IF you are blaming your receiver because you haven't heard as many stations as some other fellows. . . .

Why don't you try headphones?

## **The "Perfect" Phone Adapter**

and a pair of good headphones are just what you need to listen in comfort to some of the weak stations that would otherwise get away.

With this device you can silence the loud-speaker and let the rest of the family sleep in peace while you are pulling in stations you never before hoped to get.

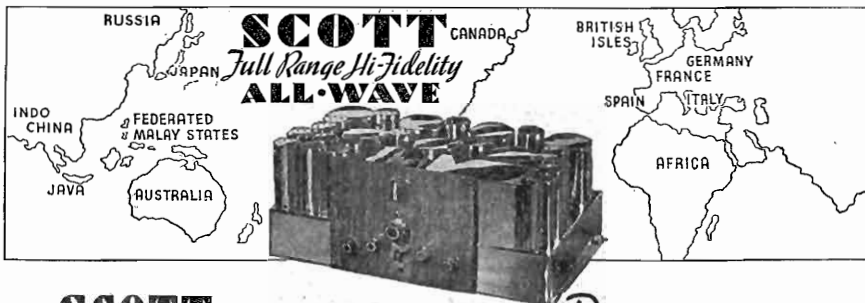
The Perfect Phone Adapter, sent post paid, is \$3.95.

Adapter with 2000-ohm headphones, \$6.70

Adapter with "Featherweight", 24,000-ohm headphones (the very finest 'phones made), . . . . \$12.00

When ordering the Phone Adapter be sure to give a list of the tubes used. If you live in Ohio add 3% for Sales Tax.

**The Radex Press, Conneaut, Ohio**



# SCOTT PERFORMANCE *Begins* WHERE THE OTHERS STOP

Here's a target for distance sharpshooters all over the world to level guns at! Here is **proof** that the **SCOTT ALLWAVE** is the finest receiver in the world!

From F. L. Stitzinger in Pennsylvania comes this **verified** list of 34 foreign countries, 98 foreign stations, 1651 foreign programs—not merely logged, but **verified!** All within a short six months period! No other receiver in the world has equalled this **verified** world record performance during any six consecutive months tuning!—Argentine, Australia, Belgian Congo, Bermuda, Bolivia, Brazil, Belgium, Canada, Columbia, Costa Rica, Cuba, Denmark, Ecuador, England, Federated Malay States, France, Germany, Hawaii, Holland, Indo-China, Italy, Japan, Java, Kenya Colony, Mexico, Morocco, Peru, Portugal, Republic Dominica, Russia, Spain, Uruguay, Venezuela! Every station, every program, **verified!**



**E. H. SCOTT**, designer and custom-builder of world's finest radio receivers since 1924

## MR. SCOTT'S PERSONAL MESSAGE TO YOU

Says Mr. Scott: "Mr. Stitzinger's list is only one of thousands which **SCOTT** owners constantly send in to our laboratories — **SCOTT** owners receive and have verified 3 times as many foreign stations as are received on sets of other radio manufacturers. . . **SCOTT ALLWAVE** receivers are giving distinguished service in more than 146 countries throughout the world. . . We have over 600 expert Installation and Service representatives' over entire United States alone—to give you instant service should you ever need it. This, even though every **SCOTT** receiver carries five year guarantee of perfect service."

## FACTS ARE YOUR GUARANTEE

Here is reception not even *approached* by any other receiver anywhere on earth — regardless

of price! This is not "sales talk." These are vital facts—of deep interest to every DX enthusiast.

To enjoy the really great world music, to hear the tremendous events which are moulding history—still to be in tomorrow's headlines—you *must* have high Class "A" speaker power.

**SCOTT 23 TUBE ALLWAVE** has 35 Watts Strictly Class "A" Power, 50 Watts Class "AB" Power—6 times undistorted output of average receiver—for vaster distances.

**Bullet-Direct Variable Selectivity 2 to 16 KC**—3 times better than selectivity of average receiver—to pierce through powerful local stations and bring in weak distant stations thousands of miles distant.

**6 Microvolt Sensitivity**—Twice that of any other radio receiver.

**25 to 16,000 Cycle Hi-Fidelity**—provably twice the tonal range of any other high fidelity receiver—a fact which we can demonstrate in any comparative test.

**Dial Calibration**—accurate on all tuning bands for the first time in radio history.

**Foreign Station Locator**—tunes in the short wave stations instantly.

**More Important PERFORMANCE Features Than Any Other Receiver**—including True Bass Control—True Separate Treble Control—23 Tubes, New Highest Efficiency Type—Oversize Construction throughout—Includes many advanced laboratory developments which cannot be incorporated in production type radio receivers.

## Compare It in Your Home

These celebrities demand the world's finest quality—all are **SCOTT** owners—Toscanini—Guy Lombardo—Eddie Cantor—Walter Winchell—Ted Husing—Rudy Vallee—Al Jolson—and hundreds more. The **SCOTT** is the choice of Presidents and Princes all over the world.

Unqualifiedly guaranteed to bring you more foreign stations with stronger volume, with more crystal clear tone, with less noise than any other receiver in the world—in your own home! 30 days' trial. You can own the **SCOTT** for no more than you would pay for an ordinary receiver.

## The Secret of Superiority

How is such an unequalled guarantee possible? The **SCOTT** is strictly custom-built—to highest precision standards known. Sent to you direct from laboratories—fully adjusted and proved, with nationwide installation service.

Read coupon below—**NOW**—and decide *right now*—without delay—to send for the most thrilling story of world-covering performance in the history of radio!

Visit our new permanent salon at 630 Fifth Ave., Rockefeller Center, New York City, or 115 N. Robertson Blvd., Los Angeles, Cal.



SEND THIS COUPON TODAY—DETAILS FREE

**E. H. SCOTT RADIO LABORATORIES, Inc.**  
4424 Ravenswood Ave.,  
Dept. 15R6, Chicago, Ill.

Send "94 PROOFS" of the **SCOTT'S** superior tone and DX performance, and particulars of 30-day home trial anywhere in U. S. A.

Name.....

Street.....

City.....State.....

**Builder of WORLD'S FINEST CUSTOM-BUILT RADIO RECEIVERS Since 1924**

OCTOBER 1, 1936



# RADIO INDEX



Reg. U. S. Patent Office

FRED CLAYTON BUTLER  
*Editor and Publisher*

ASSOCIATE EDITORS

B. FRANCIS DASHIELL, *Technical*  
PAGE TAYLOR, *Short Waves*  
CARLETON LORD, *Broadcast*

THIRTEENTH YEAR

NUMBER 102

## CONTENTS

Frontispiece—Jane Pickens of the Singing Sisters

	PAGE
And Now It's the Dial, <i>by B. Francis Dashiell</i> .....	3
The Shifting South Americans, <i>by The Short Wave Editor</i> .....	6
It's Radio-Cleaning Time, <i>by the Technical Editor</i> .....	9
In the World of DX, <i>by Carleton Lord</i> .....	11
Can I Fix My Radio? <i>Questions and Answers</i> .....	18
Around the Radio Studios, <i>with "Betty"</i> .....	23
Exploring the High Frequencies, <i>by Page Taylor</i> .....	26
The New Frequency Checks .....	32
The Month's Changes in Station Data .....	35
What's on the Air Tonight? <i>The Hourly Programs</i> .....	36
Classified Index to Your Favorite Features .....	41
Around the Clock on the Short Waves .....	95
Quick Index to All Station Data .....	96

\$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.

# And Now It's The DIAL

● ● ● By B. FRANCIS DASHIELL

**W**HILE all the 1937 radio receivers are showing new dial and tuning improvements, the most outstanding at this moment are those offered by two well-known manufacturers. These sets forecast a trend in the near future toward simplified operation and automatic dialing and tuning.

Now the listener can forget the dial numbers or kilocycle readings when he wishes to pick up one of his favorite stations. A separate tuning dial, which looks very much like a standard automatic telephone dial, immediately tunes in favorite stations. Its operation is much easier than making a call on a dial telephone. As this improvement is a new and valuable feature, it will prove popular to those listeners who always find tuning a difficult task.

## Philco's Foreign Tuning

Short wave reception of powerful foreign radio stations is becoming as reliable as tuning in of local American stations. The newest improvement noted in Philco's 1937 line of receivers takes all the chance and guess-work out of short-wave tuning. The visible parts of the new Philco system consist of a colored band-spread dial, glowing-beam tuning-range indicator, and a two-speed vernier tuning knob.

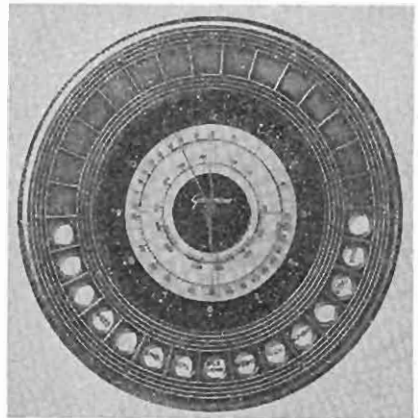
The new bank-spread dial thins out the congested traffic on the short-wave lanes simply by increasing the dial distance between foreign stations as much as six times the normal spacing for such readings. This makes tuning much easier, and in addition, the names of important foreign stations are clearly indicated on the illuminated dial with color marks showing where to tune for each station. The glowing-beam in-

dicator shows the wave length in use, and the two-speed knob permits of fast or highly delicate tuning.

## Magnetic Tuning

The new magnetic tuning device is heard and not seen. It is the season's greatest advance in tuning precision. Everyone knows what a magnet is and how it pulls other objects toward it. Magnetic tuning works in a similar manner. As soon as the set has been tuned roughly, approximately to the frequency of any radio station, either American or Foreign, the magnetic tuning device goes into action and instantly sets the dial on the exact wave length of the station that is being picked up. And it holds the dial to that station as long as may be desired. It even takes care of any tiny readjustments that may be necessary if the station wave length should swing a bit to either side.

This feature also makes possible a new automatic tuning device, whereby the listener gives a single



*Grunow's new automatic "Teledial" with 15 spaces for the insertion of desired station call letters.*

twirl to a dial in order to bring in powerful American stations with absolutely perfect tuning. An automatic silencer cuts out inter-station noise as the listener turns the dial from one station to another. Magnetic tuning tends to prevent "off-frequency" tuning with its usual distortion of tone, and provides greater sensitivity and sharper selectivity.

### The Automatic Dial

The dial, which looks like a telephone dial, provides automatic tuning for a certain number of favorite stations. The spaces around the dial, for the fingers, are fitted with printed cards bearing the call letters of the stations usually received. These cards will be inserted by the local dealer as soon as a list of stations is furnished him. Then a single spin of the dial, comparable to a single-number call on the dial telephone, tunes in the station indicated by the call letter in the space that is used. And the magnetic tuning device instantly completes the exact tuning from the approximate setting that

is provided by the finger. The receiver is thus tuned properly to the station desired as soon as the finger is removed.

The new Philco line also has achieved true high-fidelity of tone. There are six major features that provide true and pure tone reproduction. Fifteen watts of superpower make it possible to bring in every tone at any volume from the highest to the lowest notes over the entire musical scale. Then there is the famous Philco inclined sounding board; the wide-angle diffusion that spreads the sound to all parts of the room; additional accoustical clarifiers which do away with the barrel-like booming of low notes and cabinet resonance; the clever tone control; and the dual-purpose auditorium speaker that reproduces high notes and low notes equally as well by utilizing one diaphragm or cone.

### The 1937 Philcos

The new sets offered by Philco for the coming 1937 season seem to meet every individual requirement. There are 39 a.c. receivers, 11 battery sets, 9 a.c.-d.c. types, and 5 standard automobile outfits. Of the many types, there is one that uses 20 tubes and has 5 wave bands that cover standard American broadcasts, daylight and night-time Foreign and American short-wave transmissions, police, aviation, ship and amateur calls. Two other models use 15 tubes and cover the same 5 bands; two types have 12 tubes and also 5 bands; four types use 11 tubes and cover the full 5 bands; four sets have 9 tubes and 4 wave bands; four more receivers with 8 tubes and 3 bands; three with 7 tubes and 3 bands; six styles with 6 tubes and 3 bands; two types with 6 tubes and 2 wave bands; three sets using 5 tubes and 3 bands and four with the same number of tubes but only having 2 bands; and two receivers with 4 tubes and only one American broadcast band.



*The new 1937 Philco 116X with automatic dial. This dial tunes in stations more accurately than the best tuner can do it by hand.*

All of the above receivers use the new Philco self-centering octal base glass tubes. Following its policy of last year, metal tubes still are not used in Philco receivers. The larger sets, including the famous 16 model, use high-fidelity audio systems, automatic tuning with the magnetic device, the new foreign tuning system and dials, acoustic clarifiers, inclined sounding board, cathedral speaker and wide-angle sound diffusion. The built-in antenna selector is a regular feature of all all-wave receivers.

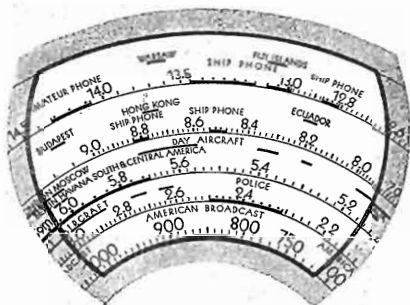
### Grunow's "Teledial"

The new automatic tuning system offered by Grunow in the 1937 receivers also embraces the automatic tuning dial—the "Teledial." It, too, resembles the calling dial of an automatic telephone. It provides tuning that is more accurate than any manual tuning, even by an expert radio engineer. With this dial and a new Grunow receiver, it is possible to bring in any one of fifteen favorite stations with the flick of a finger.

Simply select the station, which may be one of any fifteen listings that have been furnished the dealer so that he can insert the call letters in the proper openings, and pull the dial down to the center stop. That is all. The station that has been selected comes in instantly. Actual tests show that all fifteen stations on this dial can be picked up in about the same time it takes to tune in one station by the old methods. But this Teledial does not mean that the listener is confined only to 15 favorite stations, for there is a conventional dial for all other stations.

### A new Cabinet

One of the most troublesome problems in radio is that of cabinet resonance. This is caused by the vibration of the wood itself, and no matter how slight this resonance is, it will be sufficient to distort the true, clear tone of most any speaker. This year Grunow offers a remark-



A portion of the new Philco dial, showing how shortwave stations are tuned in by name.

able improvement in cabinets. They are built in the shape of a violin, and this instrument has long been known as an ideal tone resonator.

The violin-like cabinet brings out every tone. The speaker is mounted on a graduated series of resonance rings, assembled of carefully selected woods. This construction, together with the special woods used, eliminates baffle-board resonance which frequently gives trouble when the speaker is attached directly to the supporting baffle board.

### The 1937 Grunow Line

The new line offered by Grunow for 1937 consists of twenty-two attractive cabinet types for alternating current; four battery sets; and three automobile models. Of the a.c. sets that use metal tubes, there are: One with 15 tubes; one having 9 tubes; four using 8 tubes; four with 7 tubes; two utilizing 6 tubes; and seven having 5 tubes. There are two a.c. models using 5 glass tubes, and one with 4 glass tubes. The sets range from the three small ones having a single tuning band between 550 and 1720 kilocycles; five others with two bands; nine sets with three bands; five receivers with four bands between 150 to 410, 550 to 1720, 1720 to 5600 and 5600 to 18,000 kilocycles; and one large chassis with four bands, one of which cov-

(Continued on page 34)

# The Shifting South Americans

FOR the past few years it has been agreed among shortwave fans and radio authorities generally that something eventually would have to be done about the roaming activities of many South and Central American stations in and near the 49-meter band. A little more than a year ago some of the stations themselves seemed to realize the havoc that was being raised and spread out the band a little, using frequencies both above and below the recognized band. Thus a few of the stations got out "in the clear," but many of them remained between 6000-6100 kcs. and, with the several European and American stations within those frequencies, caused a nightly "howl" that was hard to distinguish as music or entertainment.

It is not meant to imply that any stations were broadcasting illegally because, as far as we know, all the stations were duly licensed and broadcasting on assigned frequencies. The trouble was that there were too many stations and not enough available frequencies.

In the larger European and American countries the major part of broadcasting is done on the regular broadcast band and shortwave broadcasting is more or less a secondary venture. In Germany, England, the Netherlands, France, etc., the shortwave stations serve widespread dominions or possessions and persons domiciled away from their homeland. Thus just a few high powered transmitters using beam antennae answer the purpose. In Latin America, on the other hand, broadcasting in some of the countries is nearly impossible on the regular frequencies because of heavy static prevalent most of the time in the tropics. Shortwaves have to be resorted to and, in these countries the s.w. broadcasters are more or less local in nature. While two



*Typical of the highly efficient s.w. transmitters in use in South America is PRA8 at Pernambuco, Brazil. We understand that the transmitter illustrated above is to be revised and the power to be doubled this fall. This is a Telefunken (German) built station, but a large number of the broadcasters south of the Carribbean are made in the U. S. A.*

transmitters working on eight or ten different frequencies at various times of the day are sufficient to serve the British Empire, small communities in Colombia, Venezuela, Haiti or the Dominican Republic require two or three or even more stations to fulfill their requirements for local broadcasting.

## Flea-Powered Transmitters

Furthermore, broadcasting in Europe and the United States has been in the hands of the governments or large corporations. Sufficient funds were available with which to purchase the best in equipment and personnel. To the south of us broadcasting was, and is, a private enterprise and in many cases the transmitters were home-made outfits. It is remarkable, when we think of it, how well some of the flea-powered stations were heard. There was little 7.5 watt NRH whose signals traveled around the world, 5 watt HKD which made our loudspeakers jump and 50 watt HKA which sometimes sounded like 50 kw. These little stations did not boast crystal control and they couldn't help roaming a bit,



but it seems miraculous that they held as closely to their frequencies as they did. They are all gone now, replaced by transmitters that are equal in dependability to some of the best stations in the world.

Sometimes it is necessary for stations to roam around looking for a clear spot; some DXers find it an interesting pastime to follow them around the dials, but it is misery for a radio editor who is supposed to keep everyone accurately informed.

#### A General Shift

Our task of trying to keep up with the Latin Americans is further complicated now by the general move towards 9.5 megs. We believe it was HJU in Buenaventura that started the ball rolling when they started broadcasting successfully on 9500 kcs. The Colombian Government has assigned frequencies in this band to nearly all her stations, but we are afraid that most of the other LA's (Latin Americans) are going to follow suit.

HJN, in Bogota, Colombia, is assigned the frequency of 6060 kcs. but according to the most recent reports from listeners it is heard on 5950 kcs. While we deem it advisable, in cases of dispute, to list stations on their assigned frequencies rather than reported frequencies, we sometimes use the reported frequency if it seems the station means to continue using it. In most cases the station intends to remain on its assigned frequency but deviates for a few nights to avoid some other station or because of some technical difficulty. In the case of HJN, however, it has remained so long on 5950 we believe it intends to stay there.

In Buenaventura, HJU is assigned 9.150 kcs., and has been reported on this freq. as well as on 9500. This transmitter is owned by the National Railroads of Colombia and announces in English and French as well as Spanish.

HJ1ABB, Barranquilla, is one of the oldest stations in the Republic. This was formerly HKD, the powerful

little 5 watter. 6447 kcs. was the crystal-controlled frequency of this station for two or three years, but now we understand it is assigned 6128 kcs. but is reported on 9560. This 300 watt station is known as "La Voz de Barranquilla" and is owned by Elias J. Pellet, Apartado 715.

HJ1ABE in Cartagena sticks quite close to 9500 where it belongs. It has deviated as much as 4 kcs. at times. The Fuentes Brothers of the Laboratorios Fuentes own the station. This was one of the most popular of Colombian stations and it is hoped that their wide audience will not be diminished by their move from 6115 kcs. where they worked so long.

#### Opinions Differ

We wonder why the odd frequency of 9.583 kcs. was given to HJ1ABG in Barranquilla. According to the QRC this is their assigned frequency but our reliable reporters inform us it is still on the old spot, 6042 kcs. This is the "Emisora Atlantico" owned by Sr. Andreas Jimeno, Apartado 445.

HJ1ABJ, "La Voz de Santa Marta," is assigned 9520 but listeners continue to report it on 6025, so there it remains in our list, for a while anyway.

"Radio Cartagena", 50-watt HJ1ABP is given 9600 kcs. to work on but has been heard on 9.615 and one night was heard to announce as being on 9.610.

While some stations are evacuating 6 megs. in favor of 9.5 megs., other stations are taking up new spots on 6 megs. so the nightly howl in that band isn't going to be alleviated very much. HJ3ABD, Bogota, moved from 7390 kcs. to 6055 kcs. They weren't bothering anyone on 7390, but we will admit that was a poor location for them as they were constantly being bothered by amateur CW signals. They are assigned 6050 now so perhaps "Colombia Broadcasting" will be heard more frequently.

**HJ3ABF**, formerly **HKF** of Bogota (and they still announce as **HKF** at times) is reported on 6170, 6070, 6073, and is assigned 9590. We are withholding any changes in our lists until at least a few reporters agree on a frequency, although we think the assigned 9590 is the most likely. As the article is being written a copy of "Radio," a magazine published in Bogota arrives, telling us that **HJ3ABF** is on 6180 kcs.

Everyone seems agreed that **HJ3ABH** in Bogota works on 6012. This station owned by Mr. Gaitan is known as "La Voz de La Victor." We hope he remains on 6012 until this appears in print.

The new Bogota station **HJ3ABX** hasn't been on the air long enough to drift very much. Our reporters, the Colombian Official list and "Radio" are all agreed that 6122 is the correct frequency. It is heard between 1100 and 1400 and 1900 to 2300, EST.

**HJ4ABE**, long known as **HKO**, in Medellin, is reported between 6090 and 6100. The official frequency is 6097.5. "La Voz de Antioquia," as this station is known, works with 1 kw. on weekdays from 1800 to 2230 EST.

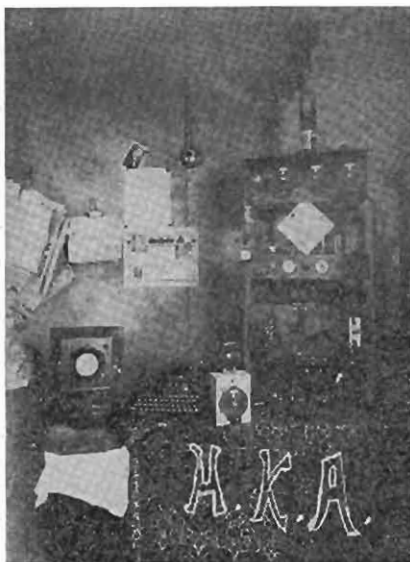
In Cali, **HJ5ABC** is now given in the Colombian list as on 1300 kcs. in the broadcast band. We are deleting it as it has not been reported.

Although about half the authorities agree that **HJ5ABD** in Cali is on 6085, we believe listeners may have a chance of hearing it on 9540 as that is its newly assigned frequency.

#### Other Countries Too

This completes the known Colombian diversions. Just so our friends in Colombia won't think we are prejudiced we will throw in a few remarks about Panamanian perambulations and Dominican divergences.

**HP5J**, Panama City, "La Voz de Panama," would cause plenty of trouble on 9.5 megs if it was better heard. Despite its kilowatt of power it is not very powerful. It moves around from



*Little HKA is a good sample of the tiny transmitters which provided our shortwave fare back in 1931. The 50-watt tube had to be put on top as there was not room for it within the transmitter proper. The home-made microphone is shown to the left. Sr. Jesus Amortequi was the owner of this station, located in Barranquilla, and served as Engineer and Announcer as well. The English announcer was Ed Illera, who can still be heard at times announcing in English from certain Barranquilla stations, particularly HJ1ABG.*

9590 to 9605 to 9590 to 9600. This week it is on 9605 kcs. He is heard on weekdays between 1930 and 2230 EST. **HP5B** in Panama City, 6030, **HP5F** in Colon on 6080 and **HP5K** in Colon on 6005 haven't done any drifting this summer. Not enough that it was noticed by anyone who wrote to us at least.

As briefly as possible, the Dominican situation today is:

In San Pedro de Macoris, **HIH** is reported on 6814 and 6780. We have no official list with which to check so we list the station on the frequency where it is reported most often.

**HIBC** in La Romana, the 25-watt is reported on 6098, 6105 and  
(Continued on page 34)

# It's RADIO-CLEANING Time

• • • By THE TECHNICAL EDITOR

**I**N THE Fall woman's fancy turns toward house-cleaning. And for those of us who take our radio reception seriously, this, too, should be radio-cleaning time. Radio sets require annual cleaning, and if we do it now we shall be prepared for those good, cool nights when signals boom in from every quarter of the globe. Then, with a few tube replacements and minor adjustments, our receivers should operate like new.

It may come as a distinct shock to many good housekeepers when they discover that their radios have been harboring great piles of dust. Grime and dust in the cabinet and chassis can knock out the best receiver made. When signals seem hard to get, and strange little noises persist, it is time to look for a layer of dust and dirt on the chassis and parts of the receiver.

## Dust Gets In

Dust enters the radio with the greatest of ease. Everyone knows that the rear of the cabinet is open to exposure. But this opening is necessary so that the excessive heat from the tubes and parts may easily escape; it also prevents resonance and cabinet noise, both of which have so long caused much grief to radio manufacturers. Then, too, the cabinet is usually placed against the wall and dirt cannot be removed by daily dusting. It soon accumulates to a serious degree, and finally must be removed before the set will again function properly.

Most of us have observed that dust and grease collect on window panes. When the finger is rubbed over the glass the dirt comes off in a black, oily smear. A similar effect is found in the radio set, but, because of the heat, the layer of grime adheres firmly to all the surfaces and tubes. For

this reason dust and grime must be tackled with vigor and determination.

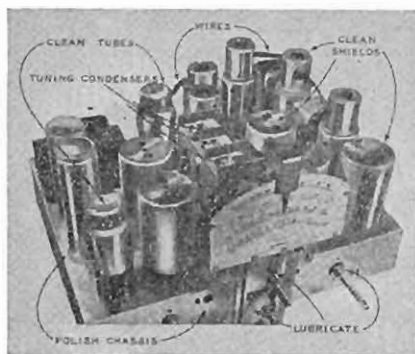
## The Effect Of Dust

Many parts, such as the small bypass condensers, resistance units, and even the larger variable tuning condensers, become plastered with a thin layer of dirty grime. Then, in addition, large flakes of dust settle everywhere, and falling and lodging between the leaves or plates of the tuning condensers, cause partial short circuits. Even the glass surfaces of the tubes are covered with a layer of black, sticky dust.

Since all these units, with the exception of the outer surfaces of the tubes, carry very high frequency currents of almost no energy, dirt on the surface provides a means for electrical leakage. These weak currents cannot afford to lose any of their original energy, and in a dirty set we soon discover that the usual weak signals from afar no longer can be heard. High frequency currents are next to impossible to control anyway, so at its best, the insulation provided in short-wave sets is not always perfect even when the surfaces of the parts are bright and new.

## Clean Carefully

The chassis must be removed from its cabinet. Most of us know how to do this, but if not, the job can be easily accomplished by removing the bolts that hold the chassis down to the base or shelf in the cabinet. The speaker wires and plug should be disconnected or, if this is impracticable, the speaker can be removed along with the chassis. Dust out the entire cabinet and give it a thorough cleaning. Overhauling the speaker is a job in itself, and was discussed



*The chassis gathers much dust. Here are indicated parts which should be cleaned.*

in a separate article in the September RADEX.

Now the chassis is placed on a table, but it must be handled very carefully. Wires should not be dislodged from their original positions, and great care should be observed to prevent the plates or leaves of the variable condensers from becoming sprung or bent. Remove the tubes and clean and polish them with a cloth, after which they should be tested and replaced if weak or noisy. Clean the contact pins with fine sandpaper or emery cloth. Remove all loose and accumulated dust with a blower or bellows. In the absence of compressed air (and that available at a nearby filling station does an excellent job), a stiff breeze from an electric fan will be helpful.

#### **The Chassis**

The outer surfaces of the chassis should be rubbed and polished with a soft rag, paying particular attention to the tube sockets. Some good solvent, such as "Carbona", can be used to advantage. When every vestige of scum and dirt has been rubbed away, special attention must be paid to the resistors and bypass condensers arranged beneath the chassis. These require careful cleaning so as not to dislodge the original positions or break the fine wires soldered to the terminals.

Turning the chassis over we reveal a maze of wires and parts. The undersides of the tube sockets are exposed and the contacts should be brightened and adjusted to a strong tension. While dust does not collect so readily within the protection of the chassis box, it, too, feels the need of a good cleaning after a year or so. Most of this dusting can be accomplished with a good force of air only. But delicate parts, such as adjusted trimmer condensers, should be cleaned with consideration, and a small, round camel's-hair artist's brush is very good for this purpose.

#### **The Tuning Condensers**

Trouble aplenty lodges in the tuning condensers whenever they become filled with flakes of dust and grime. Tiny tufts of dust gather between the plates of the variable condensers and cause short circuits of the high-frequency antenna current. This is noticeable at times when the rotors of the condenser gang unit are turned while tuning to different stations. Such interferences will be heard as static noises, or they will cause serious losses of energy.

The bulk of the dust between the tuning condensers can be removed with an air blast. Then the frame should be wiped and polished with a soft cloth and some Carbona solvent. Never use an oil-base cleaner, such as gasoline, etc. The most satisfactory method of cleaning between the plates is to use an ordinary pipe cleaner. A looped cleaner is passed back and forth between adjacent plates so as to polish all of the surfaces. This is a tedious job, but is one that will be repaid with immediate results when the set is turned on.

#### **New Parts**

It is needless to say that when a chassis is removed from the cabinet this is a good time to replace or repair defective parts. Loose units and poorly soldered contacts should be fixed properly. Small but unusual

*(Continued on page 34)*

# In the World of DX

• • • By CARLETON LORD

**W**ITH the approach of cooler weather and the re-opening of the air lanes for radio ramblings, DXers will have an opportunity to test their skill through the medium of various contests and competitions.

The International DXers Alliance announces a contest to determine the Broadcast Band Champion DXer for the 1936-37 season. The winners will be decided on the basis of points awarded each verification of a medium-wave station (540 to 1570 keys) submitted by a listener.

To be eligible for consideration, a station must be at least 2000 miles distant and on a continent other than that of the contestant. Australia and New Zealand will be considered as one continent. All islands adjacent to the United States (Newfoundland, Puerto Rico, Dominican Republic, Haiti, Cuba, Miquelon, etc.) will be eligible, provided they are 2000 miles away from the listener. Alaska and Hawaii will be counted for North American entrants.

Verifications from eligible stations must contain the words *confirm, verify* or some similar expression which signifies definite confirmation of reception. All veries must be accompanied by the envelopes or wrappers in which they were received. No veries will be counted if the stations also broadcast on short waves. All confirmations must include the date of reception and shall not be of network programs, unless some definite means of identification has been given.

Each verification will be given an initial rating of 10 points and will then be eligible for further points on a power and distance basis. Finally, the points of each contestant will be multiplied by a geographical fac-

tor, which is designed to eliminate location advantages.

The contest opened at midnight, local time, on September 1, 1936 and will continue until midnight, April 30, 1937. Listeners will have until August 31st to send in their verifications.

Listeners desiring to enter the contest will notify J. Dickenson, P. O. Box 95, Regina, Sask., Canada, and enclose the entrance fee of fifty cents. Complete instructions will then be forwarded.

Writing of this competition, W. H. Ansell, 168 Wascana St. N., Regina, Sask., vice-president of the IDA, advises: "The contest is NOT confined to I.D.A. members. On the contrary, all DXers are eligible, whether or not they are affiliated with any DX association. There are thousands of established DXers in the world, and we invite them to enter the contest and to assist the contest committee to determine the world's champion."

## Contests in GRDA

The Globe Radio DXers Association, through its organizer, Arthur H. Preece, 61 Lipson St., Port Adelaide, South Australia, announces two contests for GRDA members living outside of Australia and New Zealand.

In the broadcast band contest, only Australian medium-wave stations will be eligible; while on short waves, the Aussie hams and commercial stations will be considered. Reports on reception should be sent to Mr. Preece, but verifications should be held until asked for. The contest opened on September 1, 1936 and will continue until September 2, 1937.

Points will be awarded on the basis of the distance of the contest-

ant from the stations heard, the power of the transmitters, and the number of tubes in the listener's receiver. Trophies will be awarded to contestants in different sections showing the best record.

Membership fee in the GRDA is two shillings (Australian money) and inquiries about the Association are invited.

The possible repetition of our own Mystery DX Contest continues to attract the attention of readers, and many suggestions on rules and regulations have been received. In the September issue, we gave a tentative plan of operation which was based on the ideas which had been sent in. While listeners have not as yet had an opportunity to comment on this plan, further suggestions have been forthcoming.

### Bar Big Boys?

L. R. Giddings, Haina, Hawaii, is of the opinion that participating stations should be limited to those whose power is not in excess of 5000 watts, for the reason that W8XO, XEPN and WHAM were too easy, even for him. "All stations on a 24-hour schedule," he continues, "should be barred. They rate no consideration from the DXers and I wasted a lot of valuable time checking stations like KRE, XENT, XERA, WIND, KFAO, KWJJ, KROW, KJBS, KGFJ and others.

"I also believe that a bonus system for distant catches should be worked out. As an idea for this, why not divide up the country into zones? Let the Eastern time district be Zone 1; Central time be Zone 2; Mountain time be Zone 3; and Pacific time, Zone 4. In awarding points for each station, you could consider the zones of the listener and station. If the station was one zone removed from the listener, have a factor of 1; if the station is two zones removed, have a factor of 1.5; if three zones removed, factor of 2.

"To determine the number of

points for which each station is eligible, you would take the number of points awarded for the length of the report and multiply by this factor. To eliminate fractions, I would give 6 points for identification, instead of 5, and continue the 20 points for a ten minute report. Thus, for a listener in the Eastern time zone, a complete report for a Central (or Zone 2) station would be worth  $20 \times 1$ , or 20 points. For a Mountain time (Zone 3) station, the 20 points would be multiplied by 1.5 to give 30 points; while a Pacific time (Zone 4) station would be worth  $20 \times 2$ , or 40 points."

### The Other Side

It seems to us that this bonus system builds up the importance of East-West reception at the expense of that of North-South. A listener in the South could go nearly a 1000 miles North and still get no credit for a station, since he had stayed in his own time zone, while by going the same distance East or West, he might span two zones and be eligible for a maximum of 30 points on a catch.

Of course, this whole plan has been devised to give credit for distance reception at the expense of stations in the immediate locality of the listener. We believe that this idea might be worked out to better advantage if the factors were based solely on distance. As suggested last month, we had planned to give an extra 5 points for every 2000 mile station. This might be modified somewhat to involve the use of factors. Have a factor of .5 for every station within 200 miles of the contestant. For a station more than 200 miles and less than 1000, the factor could be 1. For 1000 to 1500 miles, the factor could be raised to 1.5; and for 1500 to 2000 miles and up, the factor might be boosted to 2.

This is purely a counter-suggestion, of course, and readers are invited to consider how such an arrangement would affect their own lo-

cation. Obviously, the use of such factors would be intended to eliminate the disadvantages of listeners on the East and West Coasts, and we are particularly interested in receiving opinions for readers in these sections.

The question of penalties for contestants who report on stations not included in the contest is raised by Arthur L. Robb, 1338 Mulvane St., Topeka, Kansas. "It's not quite in the spirit of good DXing to attempt to get credit for a station," he writes, "when no announcement of participation was heard. In my mind, this is comparable to sending a report to an ordinary station when you have heard no identification such as call letters or location."

We doubt if listeners deliberately attempted to ring in non-participating stations, and are inclined to believe that reports on such broadcasters were the result of mistaken interpretation of announcements. Many stations dedicate special programs to RADEX throughout the year and, as was proved by the last contest, announcements of these dedications might be taken for contest stations.

No provision was made in the rules of the last contest for such cases and we decided that the loss of valuable time on a non-participating station was sufficient penalty. Unless readers are of the opinion that additional penalties should be provided, we will continue the former policy.

#### Other Comments

"Complaints on the days of the contest were poorly founded," comments Robert R. Rawstron, 16 Marconi Rd., Worcester, Mass. I doubt if any younger DXer went to school on Saturday or Sunday. Monday was, of course, a different proposition, but a prize worth winning should be worth some sacrifice of sleep or personal arrangements."

"If you want listeners on the East and West Coasts to take part in another contest," reminds Carl Forestieri, 2354 Cambreleng Ave., New



*Jesse Crawford, the "Poet of the Organ," is heard regularly over the networks playing at the console of the new pipe organ at the NBC-Chicago studios. Mr. Crawford more than ten years ago created a new trend in pipe organ technique, and was the first artist to adopt the old instrument to modern popular music.*

York City, "you'll have to make some changes in the scoring. On the last contest, a Western DXer would get 20 points for KOH and an Eastern DXer would get 20 points for CJLS, but the Central DXers got 40 points for both stations. In my opinion, the chap who is to be complimented is Bill Vornkahl, who placed fourth from Connecticut."

#### New Catches for DXers

When listeners read of the repeal of the Davis Equalization Amendment, they probably thought little of its effect upon their DXing. When they checked the Month's Changes in Station Data in the September issue, they saw a direct result of this repeal.

The Davis Amendment, which was responsible for the mooted quota system of station allocation, had been in the law since 1928. It required distribution of facilities among the five radio zones and among the states

in each zone according to population on an equitable basis. With its repeal by the last Congress, the FCC now has a free hand in allocations so long as it observes engineering regulations.

With 22 new broadcasting stations already authorized during the first six months of this year, ten more were added at the Broadcast Division's July 2nd meeting just prior to the partial recess during the summer. The granting of ten new station construction permits in one sitting was a record for both the FCC and the old Radio Commission.

Consequently, our September issue announced no less than 19 new broadcasters, all of local classification, for the United States. As we go to press, two more stations have been granted construction permits and the end is not in sight.

With these opportunities for new catches, DXers hope that the stations will verify and that "there is not an all-nighter in a carload."

#### I. C. C. P. Fading?

Last year, the principal radio clubs inaugurated what was felt to be one of the most important forward steps in the history of DXing as an organized hobby. While intended primarily as an instrument to prevent clashing of special programs, the Inter-Club Cooperation Plan was a virtual code of ethics for DXing and, as such, was destined to have lasting benefits.

In reporting the formal acceptance of the Plan by the NRC, IDA, CDXR, GCDXC, URDXC and NNRC, RADEX called attention to one possible weakness in the scheme. It appeared that the Plan, as devised, failed to prevent the *scheduling* of conflicting special programs and merely provided a remedy when clashes arose. In a report in the May issue, Clearing House Operator Emily Griswold found that but 20 or 25 actual conflicts occurred during the entire season and that, in most cases, the specials were moved ahead to a later date.

The general operation of the Plan, while not without occasional misunderstandings, was conceded by most DXers to be a success. A great deal of credit was due to Elwin H. Bullard, sponsor of the Plan, and to Emily Griswold, operator of the Clearing House. It was felt by many that, with such an organization, DXing had made an important forward stride.

Late last spring, the CDXR bulletin announced the retirement of Mr. Bullard from active DX work. More recently, Fred Bisset, CDXR president, advised members that business would force him to give up his club work. With the withdrawal of two champions of the ICCP, many DXers wondered about the future of the Plan. Apparently their fears were justified.

On July 29th, Miss Griswold mailed inquiries to co-operating clubs in regard to plans for the coming season. As of August 16th, only one club, the Globe Circlers DX Club, had signified its intention to continue its support for another year. The IDA had not decided upon its course. The other clubs—NNRC, CDXR, NRC and URDXC—failed to reply to the questionnaire.

If this is to be construed as a sad end to a plan which had such a promising future, RADEX is indeed sorry to break the news. Without the co-operation which the Plan insured, DXing can only return to its former status of an unorganized hobby, replete with confusion, clashing programs, and petty jealousies.

#### Wanted: Another Bullard

Such a retreat, indirectly authorized by the leading radio clubs, will put DXing on a definite decline. Never has co-operation been more important than now, when station good-will must be cultivated and the rising challenge of the all-nighters threatens to cut off the supply of new stations in our logs.

What DXing apparently needs today is another Elwin Bullard — a

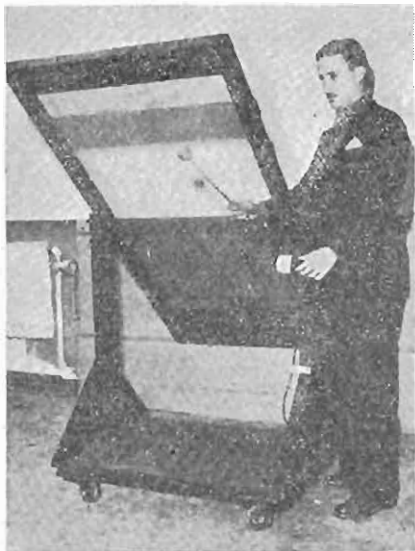


man who realizes the importance of group strength and co-operation, and who will work unselfishly for the preservation of the ideals of the ICCP.

It is sincerely trusted that the clubs concerned will appreciate the necessity of continuing the Plan or at least take steps to provide an adequate substitute.

### On Pests And Such

"In regard to the all-nighters, Station KRE is a pest," exclaims Albert A. Duggar, 507 London St., San Francisco, Calif. "They are on 24 hours a day and pay absolutely no attention to the FCC regulations regarding tests by other stations. KJBS is almost as bad, with 21 hours of broadcasting every day. KSFO is on until 2:00 AM, PST. KWJJ is a nuisance here, as are KMPC, KIRO and KXA."



Here Ray Kelly, NBC's sound effects chief, shows how to make thunder for the microphone. When he hits the window screen with a tympani hammer, the lowest vibrations are picked up and amplified for the microphone. The "thunder" cannot be heard in the studio but it sounds like stormy weather on the microphone.

"I must congratulate you on the stand you took towards Doctor Brinkley," affirms Mrs. L. R. Ledbetter, 1510 Grove St., Vicksburg, Miss., "although I am afraid that you said just what he wanted to hear—that he is causing interference with our stations. He happens to be my pet aversion, with Norman Baker running a close second. Since these high-power nuisances seem to perch on so-called "clear" Canadian channels, it would seem that the Canadian government could do something about it."

There is probably but one effective way to get rid of the border stations, and that is to stop patronizing their advertisers. If the sponsors of the alleged programs realized that the stations were not selling their products and services, the support would be withdrawn and the stations would be obliged to cease operation. Unfortunately, the class of listeners who are attracted by these stations are decidedly not DXers.

"Just received a real verification and letter," announces Warren E. Winkley, Ahwahnee, Calif., "from 4WK, a 50-watter in Warwick, Australia. They stated that I am the only listener who has reported them from America, their best previous distance being New Zealand. They want reports from listeners and promise to verify all those which are correct."

"I can no longer resist the temptation to report on my results with a one-tube regenerative receiver, which tunes from 15 to 1000 meters," greets Horace Cooper, R. D. 1, Cabot, Pa. "The set is battery operated and uses an antenna 76 feet long and 40 feet high. At this location, nothing interferes with reception except atmospheric conditions. So far, I have logged four continents, seventeen different countries, forty-two states and four Canadian provinces. Some of the better catches on the broadcast band include KGHL, KFI, KPO, KNX, KGTR, KGO, KOY,

XERA, XEPN, XEAW, XEW, XEYZ, CMCY, CMCF, CMCB and quite a number of Canadians."

In his article "Five Years of DX-ing" in the May issue, S. R. Lewis reported that in June of 1934 he had verified all but two of the active stations in the United States. While a very commendable achievement, speaking well for the ability of the DXer who won the Mystery DX Contest, we believe that a number of other listeners have approached and even equaled the record.

Malcomb L. Gavin, 12706 Bartfield Ave., Cleveland, Ohio, is of the opinion that the claim of having verified all but two active stations is "stretching the point too far." "For example," he goes on, "the hearing of all but two stations would involve the reception of some low powered stations in remote parts of the country (a great distance from the receiver) which operate on daytime schedules only. Many of these stations would be on the same channels as locals and would naturally be blotted out."

"On the broadcast band during the past year," writes Roy Myers, 4506 St. Elmo Drive, Los Angeles, Calif., "the outstanding events for me were the RADEX Contest, the international tests by the South Americans, and the receiving of veries from Radio Normandie and Radio Bordeaux. I believe that I am the only DXer in Southern California to have veries from these stations.

"That new Hawaiian broadcaster, KHBC, really comes in here with a bang. They broadcast Japanese music almost every night at 10:30 PM, PST, so don't think you have a Jap if you happen to hear this program."

"I had an interview with the management of our new station, KANS," reports T. R. Grosvenor, 247 South Hillside, Wichita, Kans., "and they will begin equipment tests around September 1st. For the benefit of CPCmen of different clubs,

KANS will not have any DX programs whatever. They will, however, verify any and all programs, and sufficient material for a verie will consist of two or three numbers with the correct times.

"From the *New Zealand Radi* Times, I learn of the following Australian changes: 7BU, Burnie, 100 watts, goes from 1390 to 660 kcys; 5MU, Murray Bridge, 100 watts, from 1450 to 1340; 4AY, Ayr, 100 watts, from 980 to 1450; and 7HO, Hobart, 100 watts, from 820 to 860. New stations include 2LV, Inverell, 820 kcys; 4LG, Longreach, 1100 kcys, 300 watts; 4VL, Charleville, 1430 kcys, 50 watts; and 4CA, Cairns, 1390 kcys, 100 watts. Projected stations are 4QN, Clevedon, 600 kcys; 2NR, Lawrence, 700 kcys; 6WA, Minding, 550 kcys; 6KA, Kattanning, 1070 kcys; 6MD, Merridin, frequency unknown; 2RG, Griffith, 1470 kcys; and 2NZ, Narrabi, 1170 kcys."

"Just a line to thank you for printing my letter in RADEX," acknowledges Floyd M. Murphy, 615 W. Franklin St., Palestine, Ill. "I have received a number of fine letters and cards as a result, and I certainly appreciate your kindness."

### More On Aerials

In the September issue, we attempted to cover the subject of aerials and grounds completely. We gave a certain amount of theory of construction, described the most popular types of aerials, and told how they should be erected.

Getting away from the conventional types, many DXers have had outstanding results from so-called "trick aerials." One of these has been most satisfactory for H. Arbic, Acton, Ont.

"I am all in favor of the inverted-L type," he remarks. "One of my aerials consists of 100 feet of No. 14 enameled copper wire. This is doubled back to form two strands of 50 feet each. A lead-in is attached

to the free ends of each of these two strands and brought down to the point of entrance to the house, although only one is attached to the set. While the volume with this aerial does not seem to be as great as that of my other antenna (90 feet of No. 6 copper wire), it certainly is selective. During the daytime, I get better than 10 key selectivity on



*Ted Husing, Columbia's ace sports announcer, is ready to swing into action on a heavy fall sports schedule. He had barely stepped off the "Normandie" on his return from the Olympic Games at Berlin, when he was greeted with an assignment to cover a few prize fights, tennis tournaments, and now the football season is coming on. Ted sees everything important in the sports world, from checkers to World Series.*

the locals. I have tried doublets and loops on my set, but they don't compare with the inverted-L for all-around performance."

One reader who believes in lightning protection is Walter W. Scholz, 33 N. Maple Ave., Webster Groves, Mo. "At the near end of my aerial," he offers, "I have drilled a hole through the wall of the attic and attached enough rope to let the en-

tire aerial down to the ground during a storm. In this way, there is no danger of lightning striking the aerial. Even with the wire lowered, there seems to be no effect on reception, as I have often picked up London, Paris, Rome and Berlin with almost all of the aerial under water. Of course, I always pull it up again when the storm is over.

"For listeners who live in the country and must depend upon trees for supports, I can recommend a system which has worked well for me. The far end of the aerial is attached to a rope which passes through a pulley. At the end of the rope is a rock which equalizes the pull of the aerial. This relieves the strain on the aerial when the tree sways back and forth during a storm."

"I recently put up a new aerial," informs Charles LeBoeuf, 34 Nelson, c/o General Delivery, Webster, Mass., "which brings wonderful results. It is 100 feet long and is made of No. 10 enameled solid copper wire, with the lead-in of the same gauge. It is just as good as my old aerial, which was 350 feet long. The wire is, of course, rather heavy, but a good spring keeps it taut and it does not sag at all. I wouldn't be surprised if No. 8 gauge wire might not be even better."

## Short Wave Special

Morton D. Meehan, 563 Adams Ave., Elizabeth, N. J., has completed arrangements with station "Radiodifusora Cartagena," for a special program to be broadcast on October 3rd from 2200 to 2300-EST, for the Newark News Radio Club. This station which works on 9600 kcs or 31.25 meters with 1000 watts power, is the largest commercial broadcasting station in Colombia. The address is P. O. Box 37, Cartagena. This special transmission will be announced entirely in English and reports are requested.

# Can I FIX My Radio?

• • • By B. FRANCIS DASHIELL

**I** HAVE a Crosley Bandbox receiver, model 602, and when I pulled the plug out of the power supply all of the pins came out of the plug. Now I do not know where to replace these pins, and hope that you can tell me. The separate power supply unit that is used with the set is a type 104-R.

The plug, which is attached to a cable of wires coming from the Bandbox receiver, has ten pins that are active in their electrical connections. These pins are inserted in contacts on the socket that is attached to the power unit. The same wires that come from the receiver to the power pack would be continuous if it were not for the plug and socket. Therefore, the same colors on the ten wires can be carried straight through and the pins placed accordingly.

However, for your further information, and because there are still many of these sets in use and our readers may wish also to know what the various wires represent, the following is indicated: There are 10 wires leading from the receiver to the plug. The two black wires carry the 5-volt supply for the filament of the 171 power tube. The two pink wires carry 2½ volts for the 227 detector tube, and the two yellow wires carry the 1½ volts for the 226 r-f and a-f amplifier tubes. The brown wire is the B-lead; the green wire is the C-lead; the white wire is the B plus 90-volt lead; and the red wire is the B 180-volt wire.

The same colors prevail in the wires leading to the contacts in the power unit socket. No difficulty should be experienced in tracing these wires through the point of contact. For instance: The two

black wires leading to two of the contacts in the socket will connect also to two pins in the plug that are attached to the two black wires coming from the receiver chassis.

## Radiola III Changes

*I have an old Radiola III-A. I would like to rewire the amplifier so as to use the type 30 and 31 tubes and get more power with good tone. I have all the parts of a Westinghouse 55 set which can be employed in this rebuilding job. Can I use coils and condensers for tuning and regeneration instead of the variometer that is now a part of this circuit?*

You have picked out a big job when you wish to add more power and still get clear and good tones from this little set. When the Radiola III was marketed, there was not much to choose from in the way of sensitive and powerful sets. If you rebuild this set so it will be a good distance "getter" with lots of volume you would never recognize the Radiola III for what it used to be. You can, however, make some changes that will improve it, but we do not recommend rebuilding it into a new set, for you will have more trouble than pleasure.

First, as to the 30 type tubes. You can discard the type 11 tubes that are now used as detector and three stages of audio frequency amplification. Remember, this set has only one tube that is used to pick up and detect the weak radio signals. It is difficult to provide selectivity and sensitivity with but one small battery tube, such as the type 11—one of the oldest types of battery tubes in existence.

Remove the rheostat that is in the filament circuit leading to the first or detector tube, and bridge the gap with a piece of wire. Then remove



*Fred Astaire, America's stage and screen idol, has signed a long term contract which makes him the star of a new series over the NBC-Red Network. Fred's one hour show, with Johnny Green and his orchestra, is heard on Tuesdays at 9:30 p.m. EST, under the sponsorship of the Packard Motor Car Co.*

the rheostat that controls the filaments of the last two power tubes in the second a-f stage. Likewise bridge that gap with a piece of wire. Replace the four old bayonet type 11 sockets with new push type sockets that will receive the type 30 tubes. These new sockets are connected into the old circuit in exactly the same manner as the original sockets, as there are still only four contacts to each socket.

Follow the C— lead from the terminal back to the —F end of the first audio transformer (the one that is between the detector and first audio tube). Keep this connection intact, but cut the wire that also leads from the C— to the center-tap of the second audio transformer. This wire from the center tap must be run to a new binding post terminal, which should be marked C— 22½ volts. The first

C— terminal should be marked 4½ volts negative. Place a type 30 tube in the detector and first audio sockets, and two type 31's in the two second audio sockets. The plate of the detector tube must be given 45 volts from the B battery. This is the present brown wire leading to the B 20-volt terminal.

The plate of the second tube, or the first audio stage, must be given 90 volts. This must be a new wire leading from the B end of the primary of the second audio transformer. The old wire attaches to the green B 80-volt wire. The present green B wire that goes to the center-tap on the primary of the third or last audio choke coil, must be provided with 135 volts of B battery instead of 80 volts, as at present.

Of course, only two volts, exactly, must be connected to the red and black wires or terminals of the set, which are the A positive and negative leads. The plus C battery end must be connected to the A— or black terminal. This tube arrangement provides the best tone and volume that it is possible to obtain from this set using batteries. However, it will be noted that no provision has been made for volume control. In no case must the volume be controlled by varying the heating of the tube filaments, as was done in the old set. Perhaps the best volume control is to connect a 500,000-ohm variable volume control across the antenna and ground terminals of the set.

Now, if you wish also to remove the old variometer tuning from this circuit, the best thing to do is to replace it with a three-circuit tuner. Remove everything that connects to the detector tube except the grid leak and condenser unit. Disconnect the plate lead that goes to the detector socket and the P end of the primary of the first audio transformer. Throw everything away.

Get a small three-circuit tuner.

It has an antenna coil which is connected between the antenna and the ground. It also has a larger coil, which is the secondary or grid coil. The end next to the antenna coil is connected to the grid leak of the grid of the detector tube. The farther end is connected to the A plus or red lead of the set. The ground should be left just as it is. The tuner has a tickler coil which rotates. One end of this moving coil is connected to the plate of the detector socket and the other end to the P terminal of the primary of the first audio transformer, from which a wire was previously removed. The rotor of the tuner controls regeneration. If the set fails to develop the familiar regenerative howls try reversing the leads to the tickler coil. With these changes, and a 3 to 5 megohm grid leak, this set will provide all the energy and volume that it is possible to obtain from a regenerative set of this type. The volume should operate a large magnetic loud speaker very nicely. Of course, you must tune the secondary of the tuner coil with a .00035 variable condenser connected across the two terminals, and its rotor must be on the side of the coil that is farthest from the grid of the tube. (See page 43 and other pages in *The Beginners' Story of Radio.*)

#### **Police Call Adapter**

*I wish RADEX would publish a simple and inexpensive short-wave adapter that will bring in police calls on battery sets. There are many battery-set owners who are prevented from getting these calls that seem to be available to most a-c broadcast sets now on the market.*

A short-wave adapter is really nothing but a short wave receiver that turns its detector output into the audio system of the broadcast receiver for the usual amplification. We believe that you will get some useful hints and instructive reading by referring to pages 58, 59, 60, 65

and 66, in the *Beginners' Story of Radio.* For obvious reasons we cannot publish complete details in this issue, but if you are handy at radio construction and have a copy of the above mentioned publication, we think you can work out your problem very nicely.

#### **Body Capacity**

*My Victor R-32 is seven years old, but with it I use a 1935 short-wave converter. Now, if I should tune my converter to GSA, for instance, and turn on the Victor receiver, I cannot hear anything on the short waves. This is not because the longer waves interfere, since they do not. But as soon as I put my hand on the volume control of the Victor station GSA immediately comes in. As soon as I take my hand away the music gets fainter, and as soon as I have moved ten feet away, nothing can be heard. I can't enjoy the short waves because I have to keep my hand on the volume control all the time.*

This is a case of the effect of the capacity of the body on the tuning of either the short-wave converter or the Victor, or a combination of both. If the converter is properly tuned to the short wave station, and is connected to the antenna and ground, there should be no body capacity present in that part of the circuit. However, it appears that the broadcast receiver is critical in its tuning for as soon as the additional capacity of the body comes near, it changes the tuning of the receiver sufficiently to permit the heterodyned short-wave station to pass through the Victor set.

We are not certain, but incline to the belief that this trouble is due to the type of volume control in use in this Victor set. The control, which is a resistance connected between the antenna and the ground, may not work properly with the output of the converter. Try disconnecting the grid lead of the first type 226 r-f tube from the coil and vol-

ume control, and attaching the grid directly to the input from the converter. This tube is the type 226 in the corner of the chassis, at the rear left, when looking down upon the chassis with the row of tubes to the front. This will leave the receiver without all of its volume control, but will suffice for making the experiment. It also is likely that this control has become defective and needs replacing. It is a dual device with two resistors operated by a single knob and either of the two parts of the unit may be out of order.

Then there are other things that may be wrong. One or more tubes may be old. These 226 types are not so effective when compared to modern sets and tubes. This set has ten small condensers and about a dozen small resistors. Any one of these may be bad, and if so, they cause the set to cut on and off under local conditions, such as snapping a light switch or vibration. A thorough check and testing of the neutralizing, tuning, and ability of the parts, most likely will reveal several defects. We doubt that the trouble lies in the converter.

#### A Broadcast Coil

*I am making a coil to cover the broadcast band and would like to know how many turns of No. 32 wire should be placed on the tube so that it can be used with a .005 variable condenser.*

We think that No. 32 wire is too small to use on the type of coil you are making — use No. 28 instead. The primary winding should have about 18 turns. Then skip a space of about three-sixteenths of an inch and begin the secondary winding. Place about 65 turns on this winding. The grid or high-tension end of the secondary winding should be the terminal that is next to the primary coil. Connect the primary between the ground and antenna, and shunt the secondary coil by the .0005 con-

denser for tuning. RADEX has carried several articles dealing with small set construction during the past few months. Refer to these or to the "Beginners' Story of Radio" for more complete constructional information.

#### Alternating Current

*I have built a tuning coil of the radio-frequency type. I understand that an alternating current flows through its primary but do not understand what kind of current is in its secondary. Can you enlighten me on this point?*

The primary of your r-f coil is placed between your antenna and the ground. These are the two terminals of a weak but rapidly vibrating alternating current. This current flows through the coil and creates around it, the usual type of magnetic field. This field swings back and forth with each alternation.



*Betty Winkler, NBC actress on Girl Alone and Grand Hotel dramas, has been a radio star for nearly four years. At the age of 18 she was the leading lady in a stock company and at 19 was a radio star. She graduated to the NBC in 1933 from WTAM in Cleveland.*

Now, when this moving magnetic field cuts through the wires comprising the secondary winding of the transformer, it creates currents in the secondary. These currents also alternate for they are created first in one direction and then in another as the primary current and its magnetic field also alternates. Thus, the secondary of any electrical transformer provides an alternating current. The number or frequency of the alternations created by induction have exactly the same rate as those passing through the primary coil.

The whole subject is complicated, as resistance, impedance and other phenomena enter the problem. Theoretically, there is a slight lag between the maximum potential in the secondary and that in the primary. But the current in the primary flows in a direction that is opposite to that in the secondary and not exactly at the same moment. When the maximum voltage induced in the secondary occurs slightly before or after the maximum current (amperage) which also is induced in the secondary, the two are said to be out of step or not in phase. This may vary at different frequencies.

The proper design of coils takes all these things into consideration, and this is a very good reason why it is so difficult to design a good radio receiver — certainly a manufacturer must have an excellent corps of radio and electrical engineers.

### Crystal Control

*Some time ago I purchased a short-wave receiver. It was then optional whether I could use a crystal control to sharpen the tuning or i-f circuit. Later I decided to install a crystal to improve DX reception on the short waves. I thought from what I had read and heard that the crystal could be slipped into the circuit any time by myself, but upon corresponding with the dealer I found that the entire set*

*had to be returned to the factory for the job. This was rather expensive and not what I was led to believe. What do you think about this practice, and was I put to unnecessary trouble and expense?*

Most of these short-wave receivers are designed so that a crystal can be inserted in the i-f circuit so as to hold out many interfering or heterodyning signals. While anyone can place the crystal unit in its proper place, it is not always advisable to do so. At any rate the operation is not as simple as opening the cabinet and dropping a piece of crystal down in a slot prepared for it.

It is best to have the work done by someone skilled in making the necessary adjustments afterwards. In nearly every case the set will require realigning for tuning, and this can best be done at the factory where the receiver was built. Sometimes a slight change in the circuit may be necessary, and we know of one case where the factory had made a rather radical circuit alteration which made factory installation of the crystals almost imperative.

### A-V-C Again

*I own an Airline set which uses two 27's and three 24's in its r-f and i-f circuits. But it does not have automatic volume control, and I would like to have you publish a diagram showing how to add such control to the set.*

We do not think that the average radio experimenter would care to attempt your plan to add automatic volume control to this set. Many things will be involved, and at the best, such control can not work as well as it should when built into a set that has been designed for it. We do not recommend that you make the experiment and seriously advise most all set owners against a move that might spoil an otherwise excellent receiver.



# Around the RADIO STUDIOS

• • • With BETTY



*Smiling Ed McConnell*

**A**LTHOUGH he has been a top-notch radio performer since 1922, Smiling Ed McConnell, radio's "Singing Philosopher," has just started his first series over the N. B. C. Networks.

Most of Ed McConnell's radio work has been over individual stations, particularly in Detroit, under the sponsorship of the Acme White Lead and Color Works, and it is this same sponsor who is inaugurating Ed's new network series. Supporting him will be an orchestra and a choral group directed by Palmer Clark, and Irma Glen, organist.

Six feet one inch tall and weighing 250 pounds, McConnell has attracted an audience of millions by his cheery philosophy and bluff humor, combined with his piano playing and singing. He is the son of a minister and says he cannot remember when he began singing at church affairs and picking out tunes on the piano.

His first broadcast was over WSB in Atlanta in 1922. He was visiting the studios at the time and was unexpectedly pressed into service as an entertainer when the scheduled artist failed to appear. Some day Betty is going to make a survey of the outstanding radio stars and try to determine how many of them made their radio debuts in this fashion.

Miss Glen, the organist, has been heard on the air since 1927. She began her professional musical career at 16 by organizing an orchestra of girl musicians and taking them on a 8-week engagement in Buenos Aires.

The new program, known as "Acme Sunshine Melodies," is heard on the NBC on Sundays at 5:30 p. m., EST.

## The Keyboard Alchemist

The magic which Eddy Duchin seems to practice in transforming dance tunes into modern piano studies is traceable to a not unrelated beginning.

Eddy came out of the Massachusetts Pharmacy College a few years ago with a diploma qualifying him to mix A with B and produce C, but he has never put this training into effect in a drug store. He studied pharmacy so he might someday take over his father's drug business in Boston.

While Duchin was still very young his mother listened to him as he sat at the piano and worked out curious progressions of harmony. In the back of her head she had the idea that someday he would be prominent in the field of music. His father, however, planned to have him join the world of chemistry and drugs. Eddy struck the correct compromise and followed the wishes of both his parents.

During summer vacations Duchin went to a boys' camp in New Hamp-

shire, and a nearby resort offered him the chance to play in public. Vacationists who danced to his fetching rhythms were so warm in their praise that he got the notion he might try New York. After promising his parents he would return to college for his final year, he went hopefully to the Big City. It wasn't long before visitors at the Waldorf-Astoria were listening discerningly to the fresh style of pianism which Leo Reisman began to feature with his orchestra.

When his fidelity to a promise took him back to college in the fall to complete his preparation for pharmacy, it was not to be the last that Reisman saw of him. Duchin, diligent in his studies, became president of the senior class and was graduated a Ph. G. Thereupon he rode again into New York to the Central Park Casino and sat down grinning at the piano again in Reisman's Orchestra.

Later on Duchin formed his own band. Now, as contrasted with a small group who danced to his tunes in New Hampshire a few years ago, a nation listens to his matured piano performances and the correspondingly free and forward-looking arrangements played by his band.

Eddy's hands are insured for \$100,000. He learns a tune by hearing it once, but he cannot memorize the words. His leisure time is spent listening to other bands on his radio. He long professed to be a confirmed bachelor, until he met the socially prominent Marjorie Oelrichs, who is today Mrs. Duchin. He is 5 feet 11, has black wavy hair and brown eyes.

Duchin's Pianostyles are heard on the CBS on Wednesdays, with Burns and Allen, 8:30 to 9 p. m., EST.

### **Tiny But Mighty Ann**

One of the smallest but mightiest stars in the radio constellation is Ann Leaf. She has performed the longest on one of the biggest instruments for one of the largest audiences in radio history, yet she remains one of the

most human and self-effacing performers in the studios.

Ann isn't quite five feet tall, tips the scales at 100 lbs; has very nice brown eyes with hair to match, and has been playing the organ for CBS since 1929.

Going to one of Miss Leaf's rehearsals is a liberal education and convinces one that the art of organ playing has progressed considerably since the days of the little reed organ in Sunday School. When one enters the studio, high up in the Paramount Building in New York, it looks like an oversized old-fashioned parlor. The main piece of furniture is, of course, the organ, all creamy white and round, like a huge birthday cake, with lots of gold curlicue trimmings.

A few folks will be sitting around. Fred Feibel is there, and the engineer with his instrument board, and Ann's assistant, Fred, whose functions are very important.

While Ann steps out of her little, high-heeled number 2½'s and into her broad, low-heeled brogues, Fred places in front of the organ her special stool, built low so she can reach for the foot work that the white and gold monster requires. When Ann has her pedalling shoes on, they both sit on chairs behind the organ and begin playing a game with a big board covered with tiny pegs in holes. Ann calls, "No. 5, flute, harp, three strings. No. 9, mainstring harp, trumpet, trivia and sax." After a lot more of this one learns that the game is called "setting pistons." It is really very simple. By means of this electrical device, Fred sets all the arrangements in advance. Later, when Ann pushes a button on her keyboard marked "5" or "9" all the stops that Fred has attached to that number will be automatically pulled out and give the desired orchestral effects.

Finally, Miss Leaf climbs to her bench and runs through the numbers she will play a little later for her half-hour program. During a Spanish



Clara, Lu 'n' Em are here shown rehearsing a script for their new *Frigidaire* program, heard Fridays at 9:30 p.m. on the *Blue Hook-up*. Left to right the girls are: Clara (Mrs. Paul C. Mead), Lu (Mrs. Howard Berolzheimer) and Em (Mrs. John Mitchell). Charles Lyon is the master of ceremonies and Ted Fio-Rito and his orchestra supply the musical background for the program.

number the tuneful clash of castanets rises from the end of the room where the pipes are concealed. Then a few bars of tinkling piano music strike the ear, and one notes that the baby grand several yards away from the organ has started to play in a ghostly fashion.

Ann likes modern French music best, although she has few hates among musical compositions, but, "Please," she says, "Please don't write and ask to hear the Glow Worm! Too many thousands have requested that one since 1929."

#### Voice of Niagara

Holder of a record unique in radio, "The Voice of Niagara," featuring the music of the Carborundum Band, will return to the air on October 17 to inaugurate its eleventh year as a radio feature. As in the past, it will be broadcast over a Columbia net-

work from 7:30 to 8 p. m., EST, Saturdays, originating in Niagara Falls, N. Y., under the sponsorship of the Carborundum Company.

In addition to being a pioneer among commercial programs and the oldest program of band music on the air, this perennially popular series has remained intact in form and personnel since its first broadcast ten years ago.

In 1926, Francis D. Bowman, advertising manager of the Carborundum Company, conceived the idea of a series of broadcasts featuring Indian legends handed down through many generations to the inhabitants of the reservations near Niagara Falls, the majestic roar of the Falls, and stirring music by the Band, conducted by Edward D'Anna. That fall the program started over a single Buffalo station, and for the succeeding three years was broadcast over a Western New York hookup of three stations. For the past six years the program has been a CBS feature, with the increasing response from year to year more than justifying the retention of the 1926 program formula.

During the decade on the air, Bowman, whose participation started with his own personal interest in Indian lore, has served as narrator, continuity writer, program director and announcer. At times, in rehearsal he has even mounted the podium to conduct the musicians.

Also unique is the fact that, with a few scattered exceptions, the members of the band are amateur musicians, that is, although they hold union cards as professionals, most earn their livelihood at other occupations than music. Most of those who played with the band in 1926 are still with the organization.

---

*In November we will begin publication of the hours on the air.*

# EXPLORING The High FREQUENCIES

• • • By PAGE TAYLOR

**I**T IS firmly believed and hoped by this department that a long expressed hope of shortwave DXers is to be realized sometime not very far distant. We do not mean that every station is going to be given a clear channel or that a law is to be passed requiring them all to announce in English, but we do believe that the chaos in a few bands caused by a handful of stations operating on the same frequencies as the high-quality, high-powered world stations is to be reduced.

The year 1938 and the Telecommunications Conference at Cairo is a long way off, but still it is close enough that many broadcasting authorities are beginning to prepare for it. Our own Commission has made several comparatively slight changes in the s.w. set-up in this country, and discussions are planned to decide further changes to be made. In other countries radio laws are getting more strict and the stations that like to move around the dials at random are going to find it hard to get along with their governments. Some authorities are adopting matters of policy which they hope will become firmly enough established by 1938 to be accepted by the International commission. The reason for and the result of general frequency changes in Latin American republics at this time is not known to us but we feel that it points towards a more stringent control over the actions of the radio stations.

It has been the practice in many countries to exercise a very strict control over their amateur stations. In some places amateurs are not per-

mitted to use code at all, voice being their sole medium of transmission. On the other hand, commercial broadcasting stations have been more or less ignored and allowed to do about as they pleased. This, we think (although it is none of our business), is not the right attitude. We are happy to note the changing times, though, and have an optimistic outlook on the interference situation for the future. The interference will be cleared up along before the Cairo Convention meets.

## A. S. W. Contest

The International DXers' Alliance is conducting a contest for broadcast band and shortwave fans, for the purpose of determining the champions of the DX world for the 1936-37 season. The contests are already under way, having started on Sept. 1st, but they will continue until midnight, April 30, 1937. These competitions are open to anyone, regardless of club affiliations. The rules for the broadcast band portion of the contest are given elsewhere in this magazine; the s.w. regulations follow: (1) All shortwave broadcast and 'phone stations between 5500 and 22,000 kcs. are eligible. On the case of a CW station that works also on 'phone, the veri must state the program was verified on 'phone only. (2) A fee of 50 cents is charged to enter the contest. (3) Verifications are to be sent to the contest judge, J. Dickenson, Box 95, Regina, Sask., Canada, fully prepaid. (4) Verifications must positively contain the words "confirm," "verify" or some similar expression that implies definite confirmation. Envelopes or wrap-

pers must be submitted with the veries.

For further information address the contest judge, or W. H. Ansell, 168 Wascana St., N., Regina, Sask., Canada.

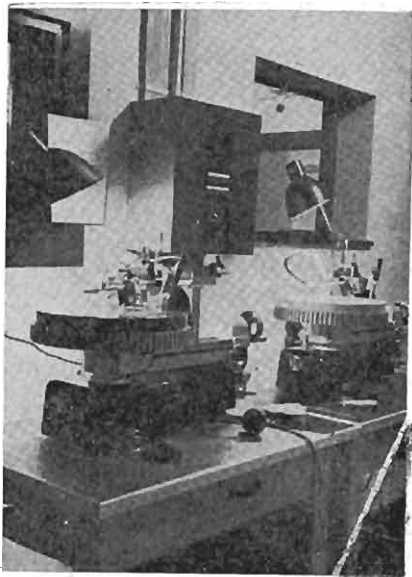
### Special Programs

Bill VornKahl, the very active BCB DXer, has arranged with s. w. station **T14NRH** of Heredia, Costa Rica, to broadcast a series of special programs to be dedicated to the Newark News Radio Club. These programs will be radiated on the first Sunday of every month, commencing in October and ending in May, 1937. Sr. Cespedes advises Mr. Vornkahl that the programs will commence at 11:30 p. m. on Saturday and continue until 2 a. m. on Sunday morning. It was not stated whether EST or CST is indicated.

**T14NRH** works on 9670 kcs. or 31 meters. The programs will be verified, of course. Sr. Cespedes has always issued the most elaborate verifications of any radio station in the world, and although we have not yet seen a copy of the certificate he is using for his new station, we believe it will be similar to those he has been using since 1929.

The operator of NRH has the privilege of Official Mail, given him long ago in recognition of the service he has rendered his country in spreading good will to all the corners of the world. Therefore International Reply Coupons are not required. In lieu of coupons, listeners are requested to send unusual United States 5c stamps.

A DX Tip for shortwave listeners comes from Bernard Ahman, Jr., 3313 Westerwald Ave., Baltimore, Md. On November 20 the two General Electric stations at Schenectady, N. Y., will broadcast a special program between 3 and 4 p. m., EST for the Newark News Radio Club. The stations are **W2XAD** on 15330 and **W2XAF** on 9520 kcs. Mr. E. S.



*Recordings are useful to preserve important events for posterity, but they are also necessary to present spot news to 'round the world' audiences. It is not possible to transmit any event to all parts of the world simultaneously, on account of the great time differences. So recordings, as of the Olympic Games for example, are made and the transcriptions transmitted at a more convenient time. This illustrates German apparatus for cutting records, of which over 1200 were made during the recent Olympiad alone.*

Darlington of these stations has promised an old-fashioned DX program for foreign listeners, and of course reports will be acknowledged.

### Germany and England

The schedule of the Zeesen, Germany, stations in effect now follows:

**DJA**, 9560 kcs., 0005-0515; 1650-2245.

**DJB**, 15200 kcs., 0005-0515; 0555-1100; 1110-1220; 1650-2245.

**DJD**, 11770 kcs., 1135-1630; 1650-2245.

**DJE**, 17760 kcs., 0005-0515; 0555-1100.

**DJL**, 15110 kcs., 0000-0200; 0800-1000; 1135-1630. On Sunday only from 0600-0800.

**DJN**, 9540 kcys., 0005-0515; 1650-2245.

**DJQ**, 15280 kcys., 0500-0700; 0715-1100; 1650-2245.

**DJR**, 15340 kcys., 0800-1000.

Germany's shortwave broadcasting center at Zeesen has now been completed. The outlay, which consists of eleven directional aerials, was built especially for the requirements of overseas commentators at the Olympic Games, but is now being used for ordinary radio activities.

The transmitting center consists of two large transmitting houses and twenty-one beam aerials, making it the largest shortwave center in the world for broadcasting. It is now possible for Germany to broadcast to six different zones simultaneously on six different wavelengths. During the Olympic games as many as nine broadcasts were conducted simultaneously.

The six transmissions from Daventry, Great Britain occur at the following times:

Trans. I. From 0115-0315 on **GSB**, 9510 kcys. and **GSD**, 11750 kcys.

Trans. II. From 0700-0845 on **GSG**, 17790 and **GSH**, 21470 kcys.

Trans. III. From 0900-1200 on **GSF**, 15140 kcys., **GSG** and **GSH**.

Trans. IV. From 1215-1745 on **GSB**, **GSD**, **GSF**, **GSG**, or **GSO**, 15180 kcys. (only three of these stations will be used.)

Trans. V. From 1800-2000 on **GSC**, 9580 kcys., **GSD**, and **GSP**, 15310.

Trans. VI. From 2100-2300 on **GSC** and **GSF**.

One of the oldest and most consistent broadcasters in the world is Big Ben. The first broadcast of the deep, thundering tones of this famous bell occurred in 1923. It was first heard on shortwaves on November 11, 1927, through G5SW, the original and experimental s.w. transmitter of the British Broadcasting Corp. At that time a few said that some day Big Ben would set the time

for the British Empire, and good prophets they proved to be.

The clock in the tower of the House of Parliament in London is the largest striking clock in the world, and Big Ben is the name given to the largest bell, the one which strikes the hours. Big Ben weighs 13 and a half tons. There are several smaller bells in the tower which are used to play the Westminster Chimes just before Big Ben counts the hours. The first stroke is the correct time.

### Coffee for Reports

A new DXer, Ross Johnson of Ashtabula, Ohio, announces reception of our old friend **TGW**, Guatemala City. It was heard on 9490 kcys. at 2 o'clock on a Sunday morning, and the announcer stated that free samples of Guatemalan coffee would be sent to listeners correctly reporting reception of the station.

The telephone station **WNC** at Hialeah, Fla., contacts a number of Central American and West Indian stations during the daytime. Ralph Gozen, 60 Warburton Ave., Yonkers, N. Y., sends a list of the stations which are called every morning. Commencing at 0945, EST, these stations are called in the order given: **HPF**, Panama City, 14485; **TIU**, Cartago, 14485; **YNA**, Managua, 14485; **HRF**, Tegucigalpa, 14485; **HRL5**, La Lima, Honduras, 14485; **YSJ**, San Salvador, 13410; **WCT**, San Juan, 13410; **HII**, Trujillo, 14930; **VRR4**, Stoney Hill, Jamaica, 11595; **HJB**, Bogota, 14930, and **HJA3**, Barranquilla, 14930.

Station **YNLF**, Managua, Nicaragua, Mr. Gozen tells us is about 15 kcys. lower than **LRX**, making the frequency for **YNLF** about 9645 kcys. Our latest official information was that the frequency was 5950 and it was reported on this frequency this month. It is also reported on 9630 and 9675 kcys. The schedule is daily from 0800 to 0900; 1230 to 1400 and from 1830 to 2200.



All radio transmitters are not hidden behind panels. This station is one of several in Germany which are left entirely open except for a pane of glass or a protective railing in front. Here is shown the 100,000 kw. station at Breslau on 950 kcs.

### More New Stations

Mr. Gozen sends several bits of information which add to our knowledge of some Spanish-speaking stations. "A verification from **PRF5** gives this information," he states. "The frequency of **PRF5** is 9601 kcs. and the power is 60 kw. The Brazilian Hour is broadcast daily in Portuguese from 1645 to 1730, EST, and from 1730 to 1745 daily in some foreign language. These other broadcasts are scheduled as follows: Monday in English; Tuesday, Esperanto; Wednesday, German; Thursday, Italian; Friday, Spanish, and Saturday, French. The address of the station is Compania Radio Internacional do Brasil, Box 709, Rio de Janeiro.

"**HJ1ABJ**, Santa Marta, Colombia, now works on 6025 kcs, **YV5RMO**, which is under new management, has a new slogan, 'Ecos del Zulia,' and signs off at 2200 with 'Strike up the Band.' **HJ4ABE**, Medellin, has moved to 6097 kcs.

"A new Dominican station, **HISQ**, gives this information on a verification; Frequencies, 6240 and 1475 kcs. Slogan, 'Carta Real.' Schedule, daily 1040 to 1340 and 1640 to 1940, EST. The address, Avenida Espana 12, Trujillo, D. R."

Charles Spielman, Jr., Eau Claire, Wis., reports two new Cubans. One of them is **COCQ**, 9755 kcs. and the other is **COCX**, on about 12200 kcs. Both are in Havana and heard near midnight, EST with exceptionally good volume.

### Which Way is East?

Shortwave listeners can improve their reception from any desired direction by erecting a directional aerial. It is most important, naturally, that the aerial be pointed in the right direction, but that is just where the trouble lies; what direction is Bombay from Chicago?

Suppose our location is St. Louis. On a map, draw lines from St. Louis to Milwaukee and from St. Louis to Cleveland. The angle formed will encompass the continent of Europe and aerials pointed in that general direction will be directional towards Europe. As one's location is moved to the east, the angle will drop to the south slightly, and as one moves westward the angle moves northward.

To make an aerial directional towards South Africa, the St. Louis resident will point in the direction of Raleigh, N. C. In this case, as the point moves westward the line moves southward, so that a person living in San Francisco would have to point towards Mobile, Ala. The South American continent is covered by quite a wide angle, from St. Louis to Raleigh and from St. Louis to New Orleans. Strangely enough, Australia is in the direction we thought it was, generally southwest. Asia, however is northwest. Draw a line from St. Louis to Seattle and another to Marquette, Mich., and you have the angle within which lies the continent of Asia.

"My Tiffany Tone 8-tuber is working fine," preambles Hadley Wilcox, 1120 W. 91st St. Los Angeles, Calif. "I am using only a regular 60 foot aerial so I have nothing exceptional on the s.w., just 223 amateurs in

the USA, Hawaii, Mexico and Canada. Thirty six states have been logged. I find that Texas is the leading amateur state, followed by Illinois. Chicago and Denver are the most active amateur cities."

### South American Review

Our South American station authority, R. B. Oxreider of State College, Pa., manages to keep up quite well with the shifting stations. His review of the situation follows: "**HJ4ABE** in Medellin has moved again, going up to 6098, and it is drowned out when **W9XF** comes on the air as there is too much difference in the signal strength. **HJ1ABE** is now operating around 9500 keys. I have had it as low as 9498 and as high as 9504. I believe about 9504 is where he wants to be because when **PRF5** is on **HJ1ABE** is a few kilocycles higher, probably intentionally to get away from the Brazilian. **HISQ** at Trujillo is on 6240 keys. and announces as 'La Voz de los Muchachos,' the same slogan as **HIZ**. A new station in Port-au-Prince, Haiti, is **HH3NW**, on 6350 keys.; it is operated by the same firm that has **HH3W**. **TIEP** has been on **6676** for some time but wanders around a lot so it is hard to tell just where it belongs. It has been reported in the 9500 band.

"Another brand new station is **HIN**, at Trujillo, on 6245. It is known as The Voice of the Dominican Party. First Java was the land of shortwaves, then Colombia, but not it seems that Santo Domingo desires the distinction of having the greatest number of s.w. broadcasters.

"In Havana there is a new one, **COCX**; I heard it on 12165 keys. but he announced his frequency as 11650. This is way off but he may move around until he gets on or near the announced frequency."

"DXing during the summer was not very good, at least it was not as good as it was a year ago this summer," complains Roy DeMent, Box

206, Plainview, Texas. "I am still using my 1935 table model superhet., but as I changed my residence to a different part of town I invited more local interference. I cannot complain too much, however, as one Sunday afternoon, in an hour and a half at the dial, I heard **DJL**, **DJD**, **DJB**, **GSF**, **RNE**, **TPA4**, **COCH**, **COCQ**, **HAT4**, **HCJB**, **HJ1ABE** and **HJ4ABA**, and the regular American shortwaves. **VPD** in Suva, Fiji, has been coming in all summer long with fairly good results. So far I have been unable to get the Icelandic or the Polish stations, but I hope to get them some time." The Reykjavik and Warsaw stations were both off the air, Roy. Reykjavik is back now, though, from 1440 to 1530 EST on Sundays.

### Eight Little Words

"We have had very poor radio weather during the prolonged heat wave," complains Martin Olthoff, 212 N. 16th St., Independence, Kans. "In spite of it, however, several outstanding catches have been scored in addition to the regular USA, Canadian and Mexican stations. The best include **DZC**, 10285 keys., Zeesen, Germany; **LRX** on 9660 keys. in Buenos Aires; and **TDC**, on code, at Hsinking, Manchokuo, 13955 keys. A very new station which I have heard testing is **Radio Podebrady**, Czechoslovakia, operating on three frequencies, 6115, 11760 and 15230 keys. All three frequencies were heard and announcements were made in English as well as in the country's language."

Doris Robbe, a fifteen year old Detroit girl who lives at 2583 Newport Ave., would like to hear from DXers who will give her a line on the DXing hobby. She wishes to know how to become a good DXer. Another thing she would like to know, however, we are afraid no one can tell her; that is, how to count the stations she hears. When veteran DXers agree on this long



mooted subject then perhaps we can give beginners instructions.

Eight words on a postal card is not a very long message, but the information we have from J. L. Steele, Danville, N. J., contains all the necessary data. "LRX, 9670 positively confirmed from 2100-2200 daily," says Mr. Steele. All we can add is that LRX is in Buenos Aires and relays the programs of LR1. The address is Calle Maipu 555.

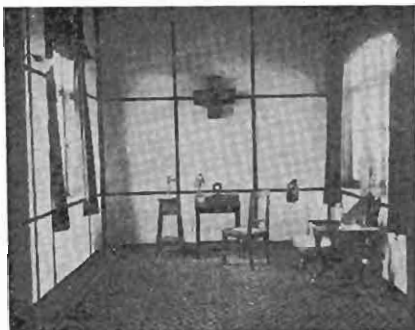
The new Australian station 9MI is considered the first ship broadcasting station in the world. Although occasional broadcasts have been relayed from ships at sea, 9MI is the first to be installed permanently with the idea of broadcasting regular programs while sailing. This transmitter is installed on the motor-vessel Kanimbla. It is a 1.5 kw. rig and works on any wavelength between 15 and 50 meters, although it has been using 25.54 and 49.47 meters most of the time. Good reception was reported in Africa and South America as well as in the Antipodes on its maiden voyage from the builders in Ireland to its home country.

Experimental visual broadcasts were inaugurated by the Radio Corporation of America in New York City on August 1st. These New York broadcasts employ the adopted standard of 343 lines at 30 frames per second, producing pictures as clear as the illustrations in RADEX.

We hope readers will not be discouraged when they learn that the receivers used to pick up these pictures employ over 30 tubes, and that one of the tubes, the cathode-ray tube, costs over \$100. The tuning and framing controls are many; there is a tuning knob, a volume control for sound, six controls to regulate the brightness, selectivity and density of the picture, and seven controls to adjust the speed of the

scanning, focus, synchronization and framing.

From Whitney Smith, 3 Union Court, Pontiac, Mich., comes a report of good DX. "I am hearing TIPG, Costa Rica, between DJA and DJN on about 9.55 megs. There is no mistake about the station as the call was distinctly heard, as well as the slogan, 'La Voz de la Victor.' HJ1ABE in Cartagena was heard several times on its announced frequency of 9.5 megs. In Rossland, B. C., station CFU is heard on about 8750 kcys. I note that more and more DXers are trying the 20-meter amateur bands. I tried it myself



*The Sala Daeng studios at Bangkok, Siam, where programs from s.w. HS8PJ originate. This is a small studio for lectures and talks. To some it seems strange that a country like Siam is so well advanced in radio, but this is due to the fact that Siam's former King was one of the world's most enthusiastic shortwave DXers. He was so keenly interested in his hobby that he endeavored to make his stations among the best in the world.*

this summer and picked up stations in England, Spain, Central and South America. Summer DX wasn't bad at all this year. My log of current stations, that is, stations still broadcasting on the same frequency, in the same location, and with no less power than when I last received them, now stands at: police, 154; amateurs, 446; other s.w. stations, 110; BCB, 337, for a total of 1047 stations in 34 countries."

*(Continued on page 34)*

# 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 October tests will commence on Thursday the 8th and continue through Wednesday the 14th, exclusive of Sunday. The November tests will commence on Monday the 9th and continue through Saturday the 14th; and the December tests will start on Tuesday the 8th and carry through Monday 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.
	WBBB	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.
	WOPI	1500	Bristol, Tenn.
3:00-3:20	KTRH	1290	Houston, Texas
	WMBO	1310	Auburn, N. Y.
3:10-3:30	WOC	1370	Davenport, Ia.
	WCAD	1220	Canton, N. Y.
	WMFN	1210	Clarksdale, Miss.
3:20-3:40	KWLC	1270	Decorah, Ia.
	WMBQ	1500	Baton Rouge, N. Y.
	WNBR	1430	Memphis, Tenn.
3:30-3:50	KFPW	1210	Fort Smith, Ark.
	WMFF	1310	Plattsburg, N. Y.
	WDBO	580	Orlando, Fla.
3:40-4:00	KABC	1420	San Antonio, Texas
	WQDM	1370	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.
	KLS	1440	Oakland, Calif.
	WAGF	1370	Dothan, Ala.
4:10-4:30	WHDL	1420	Olean, N. Y.
	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	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	Guifport, Miss.
5:10-5:30	KDON	1210	Del Monte, Calif.
	WTAL	1310	Tallahassee, Fla.
5:20-5:40	KUMA	1420	Yuma, Ariz.
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	WBBL	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	KGFK	1500	Moorhead, Minn.
	KFIZ	1420	Fond 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	KBIX	1500	Muskogee, Okla.
	WKRC	550	Cincinnati, Ohio
	WHEC	1430	Rochester, N. Y.
3:30-3:50	WNAD	1010	Norman, Okla.
	WMBC	1420	Detroit, Mich.
	WRAK	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
	WBNY	1370	Buffalo, N. Y.
4:00-4:20	WCOL	1210	Columbus, Ohio
	KOOS	1390	Marshfield, Ore.
	WBRE	1310	Wilkes Barre, Pa.
4:10-4:30	KLPM	1240	Minot, N. Dak.
	WPAY	1370	Portsmouth, Ohio
	KPK	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	KFJM	1370	Grand Forks, N. Dak.
	KGBU	900	Ketchikan, Alaska
	WGH	1310	Newport News, Va.
	WHBC	1200	Canton, Ohio
4:50-5:10	KGVO	1260	Missoula, Mont.
	KRLH	1420	Midland, Texas
	WHEK	1390	Cleveland, Ohio
	WWSW	1500	Fittsburgh, Pa.
5:00-5:20	WSAY	1210	Rochester, N. Y.
	WSPD	1340	Toledo, Ohio
	KAST	1370	Astoria, Ore.
5:10-5:30	KNET	1420	Palestine, Texas
	WAVE	940	Louisville, Ky.
5:20-5:40	KCMO	1370	Kansas City, Mo.
	KFJI	1210	Klamath Falls, Ore.
	WXYZ	1240	Detroit, Mich.
5:30-5:50	KGCX	1310	Wolf Point, Mont.
	KIDW	1320	Lamar, Colo.
	WGAR	1450	Cleveland, Ohio
5:40-6:00	KQV	1380	Pittsburgh, Pa.
	WCAT	1200	Rapid City, S. Dak.

The Second Wednesday			5:00-5:20	KHBC	1400	Hilo, T. H.	
2:00-2:20	WMPFJ	1420	Daytona Beach, Fla.	WTRC	1310	Elkhart, Ind.	
2:10-2:30	WAIM	1200	Anderson, S. C.	KTRB	740	Modesto, Calif.	
2:20-2:40	KVOL	1310	Lafayette, La.	WWAE	1200	Hammond, Ind.	
2:30-2:50	WEBQ	1370	Memphis, Tenn.	WIBM	1370	Jackson, Mich.	
2:40-3:00	WKAQ	1240	San Juan, P. R.	WALR	1210	Zanesville, Ohio	
2:50-3:10	WSJS	1310	Winston-Salem, N. C.	<b>The Second Friday</b>			
3:00-3:20	KABE	1420	Aberdeen, S. Dak.	WGNV	1210	Chester, N. Y.	
	WFAM	1200	South Bend, Ind.	WCNW	1500	Brooklyn, N. Y.	
	WFMD	1370	Wilmington, N. C.	WGBB	1210	Freeport, N. Y.	
3:10-3:30	KLCN	1290	Blytheville, Ark.	WABY	1370	Albany, N. Y.	
	WFAX	1210	Thomasville, Ga.	WNRI	1200	Newport, R. I.	
3:20-3:40	KFPL	1310	Dublin, Texas	WSYB	1500	Rutland, Vt.	
	WKBN	570	Youngstown, Ohio	KICA	1370	Clovis, N. Mex.	
	WRDW	1500	Augusta, Ga.	WEBQ	1210	Harrisburg, Ill.	
3:30-3:50	KGBX	1230	Springfield, Mo.	WACO	1420	Waco, Texas	
	WELL	1420	Battle Creek, Mich.	WLBC	1310	Muncie, Ind.	
3:40-4:00	WQBC	1360	Vicksburg, Miss.	WEW	760	St. Louis, Mo.	
	KFXJ	1200	Grand Junction, Colo.	WBX	1200	Utica, N. Y.	
	EXPL	1500	Lake Charles, La.	WKBB	1500	E. Dubuque, Ill.	
	WADC	1320	Akron, Ohio	KUOA	1260	Payetteville, Ark.	
3:50-4:10	KARK	890	Little Rock, Ark.	WAGM	1420	Presque Isle, Me.	
	WGFC	1420	Albany, Ga.	WHDF	1370	Calumet, Mich.	
	WOSU	570	Columbus, Ohio	KIUJ	1310	Santa Fe, N. Mex.	
4:00-4:20	KEJZ	1370	Fort Worth, Texas	WJW	1210	Akron, Ohio	
	WHBU	1210	Anderson, Ind.	WNBZ	1290	Saranac Lake, N. Y.	
	WJNO	1200	Jacksonville, Fla.	WJBK	1500	Detroit, Mich.	
4:10-4:30	WBEO	1310	Marquette, Mich.	WMBH	1420	Joplin, Mo.	
	WCOC	880	Meridian, Miss.	WRDO	1370	Augusta, Me.	
	WLB	1250	Minneapolis, Minn.	KIUL	1210	Garden City, Kans.	
4:20-4:40	KSO	1430	Des Moines, Iowa	WCMI	1310	Ashland, Ky.	
	WMPG	1200	Lapeer, Mich.	WCAZ	1070	Carthage, Ill.	
4:30-4:50	WEXL	1310	Royal Oak, Mich.	WLBF	1420	Kansas City, Kans.	
	WHLB	1370	Virginia, Minn.	WMBG	1210	Hibbing, Minn.	
4:40-5:00	WJMS	1420	Ironwood, Mich.	WTAQ	1330	Green Bay, Wisc.	
4:50-5:10	KFXR	1310	Oklahoma City, Okla.	KIUP	1370	Durango, Colo.	
	WTAX	1210	Springfield, Ill.	WPAD	1420	Paducah, Ky.	
5:00-5:20	KFJB	1200	Marshalltown, Iowa	KNOW	1500	Austin, Texas	
	WEOA	1370	Evansville, Ind.	WEMP	1310	Milwaukee, Wis.	
5:10-5:30	WDLZ	1020	Tuscola, Ill.	KGDE	1200	Fergus Falls, Minn.	
5:20-5:40	KELD	1370	Eldorado, Ark.	KIUN	1420	Pecos, Texas	
5:30-5:50	KDLR	1210	Devils Lake, N. Dak.	5:10-5:30	KGEK	1200	Sterling, Colo.
				5:20-5:40	KMAC	1370	San Antonio, Texas
				5:30-5:50	WIL	1200	St. Louis, Mo.
				5:40-6:00	KGFG	1370	Oklahoma City, Okla.
The Second Thursday			<b>The Second Saturday</b>				
2:00-2:20	WSVS	1370	Buffalo, N. Y.	2:00-2:20	WMFR	1200	High Point, N. C.
2:10-2:30	WKOK	1310	Sunbury, Pa.	2:10-2:30	WMFO	1370	Decatur, Ala.
2:20-2:40	WRAW	1210	Reading, Pa.	2:20-2:40	WSOC	1210	Charlotte, N. C.
2:30-2:50	WOCL	1210	Jamestown, N. Y.	2:30-2:50	WTJS	1310	Jackson, Tenn.
2:40-3:00	WTEL	1310	Philadelphia, Pa.	2:40-3:00	WSIX	1210	Nashville, Tenn.
2:50-3:10	WHIS	1410	Bluefield, W. Va.	2:50-3:10	WROL	1310	Knoxville, Tenn.
3:00-3:20	KGKO	570	Wichita Falls, Tex.	3:00-3:20	KOTN	1500	Pine Bluff, Ark.
	WCPO	1200	Cincinnati, Ohio.		WQAM	560	Miami, Fla.
	WQAN	880	Scranton, Pa.	3:10-3:30	KWYO	1370	Sheridan, Wyo.
3:10-3:30	KFYO	1310	Lubbock, Texas		WCLS	1310	Joliet, Ill.
	WGL	1370	Ft. Wayne, Ind.		WPRP	1420	Ponce, P. R.
	WLEU	1420	Erie, Pa.	3:20-3:40	KGCC	1240	Mandan, N. Dak.
3:20-3:40	KGFI	1500	Corpus Christi, Texas		WHBY	1200	Green Bay, Wisc.
	WIBU	1210	Poynette, Wisc.		WNEL	1290	San Juan, P. R.
3:30-3:50	KGFL	1370	Roswell, N. Mex.	3:30-3:50	KXYZ	1440	Houston, Texas
	WBCM	1410	Bay City, Mich.		WAML	1310	Laurel, Miss.
	WSAJ	1310	Grove City, Pa.		WKBV	1500	Richmond, Ind.
3:40-4:00	KGGM	1230	Albuquerque, N. Mex.	3:40-4:00	KRGV	1260	Weslaco, Texas
	WJBC	1200	Bloomington, Ill.		WJBL	1200	Decatur, Ill.
3:50-4:10	KGHF	1320	Pueblo, Colo.		WPFB	1370	Hattiesburg, Miss.
	WLAP	1420	Lexington, Ky.	3:50-4:10	KNEL	1500	Brady, Texas
4:00-4:20	KGHI	1200	Little Rock, Ark.		WEED	1420	Rocky Mount, N. C.
	KXO	1500	El Centro, Calif.		WGBF	630	Evansville, Ind.
4:10-4:30	WSMK	1380	Dayton, Ohio	4:00-4:20	KFQD	780	Anchorage, Alaska
	KGIW	1420	Alamosa, Colo.		KVSO	1210	Ardmore, Okla.
	KJBS	1070	San Francisco, Calif.		WFDF	1310	Plint, Mich.
	WJIM	1210	Lansing, Mich.	4:10-4:30	KONO	1370	San Antonio, Texas
4:20-4:40	KGKB	1500	Tyler, Texas		KVOS	1200	Bellingham, Wash.
	KGU	750	Honolulu, T. H.		WKBZ	1500	Muskegon, Mich.
	WBOW	1310	Terre Haute, Ind.	4:20-4:40	KRLC	1420	Lewiston, Idaho
4:30-4:50	KGKL	1370	San Angelo, Tex.		KTSM	1310	El Paso, Texas
	KSUN	1200	Lowell, Ariz.	4:30-4:50	KUJ	1370	Walla Walla, Wash.
	WCBS	1420	Springfield, Ill.	4:40-5:00	KCMC	1420	Tuxarkana, Ark.
4:40-5:00	KHSL	950	Chico, Calif.		KRNR	1500	Roseburg, Ore.
	WDAH	1310	El Paso, Texas	4:50-5:10	KVL	1370	Seattle, Wash.
	WTMV	1500	East St. Louis, Ill.		KWTN	1210	Watertown, S. Dak.
4:50-5:10	KERN	1370	Bakersfield, Calif.				
	WHBF	1210	Rock Island, Ill.				

5:00-5:20	KGFF	1420	Shawnee, Okla.
	KIT	1310	Yakima, Wash.
5:10-5:30	KBTM	1200	Paragould, Ark.
	KRKO	1370	Everett, Wash.
5:20-5:40	KFRO	1370	Longview, Texas
	KGEZ	1310	Kalspell, Mont.
5:30-5:50	KFXD	1200	Nampa, Idaho
5:40-6:00	KXRO	1310	Aberdeen, Wash.
5:50-6:10	KGY	1210	Olympia, Wash.
6:00-6:20	KINY	1310	Juneau, Alaska
6:10-6:30	KMED	1410	Medford, Ore.

## Now It's the Dial

(Continued from page 5)

ers the very short waves between 18,000 to 60,000 kilocycles.

These new Grunow all-wave receivers cover the bands without skip areas between groupings of kilocycles. They are equipped with automatic volume control, tone control, tone compensation, (which blends different sounds), pre-selector (which increases sensitivity and selectivity); automatic tuning of antenna and its circuit; floating condenser tuning unit; both metal or glass tubes; pentode power output systems with push-pull audio power; additional r-f stages; automatic tuning control for instant tuning with Teledial; high-tone fidelity; dual audio systems; and fidelity control and variable selectivity of tuning.

## The High Frequencies

(Continued from page 31)

### Random Notes

A new radio building, eight stories high and with 13 studios, is being erected in Johannesburg, Union of South Africa. This will be the most elaborate radio building in the British Empire outside of England, it is believed. There are supposed to be two shortwave stations, **ZSR** on 9.80 keys. and **ZTJ** on 6090 kcys.

An order has been placed with the Marconi Company by the Chinese Broadcasting Administration for a new shortwave station. The power of the new station will be over 50 kw. Meanwhile, Chinese engineers

are studying at the Marconi college in England and at shortwave centers in the United States so they will be well qualified to operate the big transmitter on its completion two years from now.

It is reported that a new station is contemplated for Caracas, Venezuela. The tentative frequency and call sign are 6270 and **YV14RC**.

## Radio-Cleaning Time

(Continued from page 10)

hisses, clicks and the cutting on and off of the set, should raise instant suspicion that all is not well. Small resistors and bypass condensers must be tested and replaced if necessary. The discovery of such defective parts by substitution of good units has been discussed in **RADEX** from time to time.

When cleaning the set it is advisable also to overhaul the tone and volume controls if they have not seemed to work nicely. Some types of volume controls require cleaning, and frequently a little polishing is all that is necessary. This can be accomplished by carefully cleaning the resistance or fine wires over which the contact arm slides. Most controls can be opened for this purpose, if a reasonable degree of care is exercised.

## The South Americans

(Continued from page 8)

6728 kc. Even the schedule of this station is not definite, except it is generally agreed they can be heard Mondays from 9:45 to 10:45 pm, EST.

The variance in other Dominican frequencies is less than 5 kc. so we will overlook them because the average radio set isn't calibrated well enough to notice 5 kc. anyway.

As a closing remark, it seems funny that we should try to keep up with

the Colombians, when "Radio," printed in Bogota, cannot do it. Their list of stations includes such strangers as HJ3AB?, HJ4AB?, HJ2AB?, and HJ4AB?.

Mr. Howard R. Hughes, well-known young millionaire-aviator, was granted a license for an itinerant aircraft station aboard his plane NC223Y, with the call sign KHAIR. This station is to be used for experimental purposes by Mr. Hughes on a 'round the world flight. The frequencies are 3105 for communication with any airway station in the United States; 500, 6210, 8280 and 12420 kcs. for communication with maritime stations while in flight over the sea; 6650 and 3400 kcs. for communication with aeronautical stations in the Soviet Union only; numerous frequencies for communication with the Blue, Purple, Yellow, Green and Orange chains in the USA; and 3072.5 and 3088 kcs. for use with foreign aeronautical stations.

\* \* \*

The International Broadcasting Union at Geneva, Switzerland, has planned a series of world-wide broadcasts. Joining the series, the NBC and the CBS announce that on Sept. 22 they will shortwave a half hour program, probably between 2 and 3 pm for pickup in or relay to all the countries of the world. Announcements will be in English, French and German, and the program will open with the roar of Niagara Falls.

\* \* \*

Nine stations have applied to the FCC for permission to use 500 kw. power. They are WHAS, WHO, WJZ, WGN, WJR, KFI, WSM, KDKA, and WBBM. It is believed now, however, that no construction permits for high power will be granted in the near future.

## THE MONTH'S CHANGES IN STATION DATA

<b>NEW</b>		
1210	KLAH	Carlsbad, N. Mex.
1330	CMKW	Santiago, Cuba
1370	WPRM	Mayaguez, P. R.
1500	KOVC	Valley City, N. Dak.
<b>POWER</b>		
580	KMJ	Fresno, Calif. 500 from 1000
1300	WHBL	Sheboygan, Wis., 250 from 500
1320	WSMB	New Orleans, La., 1000 from 500
<b>CALL LETTERS</b>		
1310	KHUB	Watsonville, Calif., from KWAT
1370	KOBH	Rapid City, S. Dak., from KBHB
	WFOR	Hattiesburg, Miss., from WPFB

## THE MONTH'S CHANGES IN SHORTWAVE DATA

1.674	KIUK	Jefferson, Mo.
1.712	WAKV	Fall River, Mass.
2.450	KAPB	Cushing, Okla.
	KAPC	Drumright, Okla.
	KAPD	Eldorado, Kans.
	KAPE	Norman, Okla.
	KAPF	Okmulgee, Okla.
2.616	KAEP	Tenakee, Alaska
3.040	YDA	Tandjong Priok, N. E. I.
3.093	KAED	Angoon, Alaska
6.018	ZHI	Singapore, Straits Settlements
6.100	.....	Belgrade, Yugo Slavia
6.115	.....	Prague, Czechoslovakia
6.122	HJ3ABX	Bogota, Colombia
6.800	H17P	Trujillo, D. R.
7.220	VP3BG	Georgetown, Br. Guiana
9.520	RAN	Moscow, U.S.S.R.
9.575	HJ2ABC	Cucuta, Colombia
9.640	YDB	Sourabaya, N. E. I.
9.670	T14NRH	Heredia, Costa Rica
11.000	PLP	Bandoeng, N. E. I.
11.490	PLO	Bandoeng, N. E. I.
11.760	.....	Prague, Czechoslovakia
12.830	CNR	Rabat, Morocco
14.640	JVH	Nazaki, Japan
15.175	RV96	Moscow, U.S.S.R.
15.230	.....	Prague, Czechoslovakia
<b>FREQUENCIES</b>		
6.025	HJ1ABJ	Santa Marta, Col., from 6.006
6.092	HJ4ABE	Medellin, Col., from 5.930
6.130	HIX	Trujillo, D. R., from 5.980
6.490	HJ1ABE	Cartagena, Col., from 6.115
9.505	XEPT	Veracruz, Ver., from 6.120
9.605	HP5J	Panama City from 9.590
15.090	RKI	Moscow, U.S.S.R., from 15.040
15.290	LRU	Buenos Aires, Arg., from 15.250
<b>CALL LETTERS</b>		
5.985	XEWI	Mexico City, D. F., from XEVI

John H. Kunsky, vice-president of the Kunsky-Trendle Broadcasting Corp., had his name legally changed to John H. King and the company's name is now the King-Trendle Brdcastg. Corp. King-Trendle operates WXYZ, Detroit, WOOD-WASH, Grand Rapids, and the Michigan Radio Network, as well as numerous Michigan theaters.

# WHAT'S ON THE AIR TONIGHT

Fill in calls and dial numbers for those stations through which you best receive the three chains. You can then turn quickly to the one that has the feature you want.

COLUMBIA.....(C)	
Call	Dial

NATIONAL, Red (R)	
Call	Dial

NATIONAL, Blue (B)	
Call	Dial

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 — Bobby Benson — Sunny Jim**  
 WAAB WABC WCAU WDRC WEAN  
 WFBL WGR WHEC WOKO

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**C — Renfrew of the Mounted**  
 KFAB KFH KLRA KMBC KMOX  
 KOMA KRLD KRNT KSCJ KTUL  
 KWKH WABC WADC WBBM WBNS  
 WCCO WDRC WFBM WGR WHEC  
 WHK WIBX WICC WISN WJR  
 WJSV WKBN WMAS WMBG WNAC  
 WNBH WOC WREC WSMK WSPD  
 WWVA

**B — Lowell Thomas**  
 CRCT KDKA WBAL WBZ WBZA  
 WLAL WIOD WJAX WJZ WLW  
 WMAL WOOD WRVA WSYR WTAM  
 WXYZ

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**R — Amos 'n' Andy**  
 KYW WBNB WCAE WESH WEAF  
 WEEI WFBZ 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 WICC WJAS WJSV WKRC  
 WNAC WOC WOW WORC WSMK

**R — Uncle Ezra's Radio Station**  
 KPRC KTBS KTHS KVOO KYW  
 WBAP WBNB WCAE WKCY WESH  
 WDAF WEAF WEEI WFBZ WGY  
 WHIO WIRE WJAR WKY WMAQ  
 WOAI WOOD WOW WRC WTAG  
 WTAM WTIC

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**C — Charioteers and Judy Starr**  
 KDB KERN KFAB KFBK KFPY  
 KPRC KGB KHJ KMJ KMOX KOIN  
 KOL KSL KVI KWG WABC WBBM  
 WCAO WCAU WCCO WEAN WFBL  
 WFBM WGR WHK WJAS WJR  
 WJSV WKRC WNAC WOKO

**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  
 WNAC

**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 KTSK  
 KTUL KVI KWG WABC WBBM  
 WBRW WBT WCAO WCAU WCCO  
 WDRC WFLB WFBM WGR WGST  
 WHAS WHK WJAS WJR WJSV  
 WKRC WLAC WMBR WNAC WNAX  
 WOKO WREC WWL

**R — Fibber McGee and Molly**  
 KSD KYW WBNB WCAE WKCY  
 WESH WDAF WEAF WEEI WFBZ  
 WGY WHO WIRE WJAR WMAQ  
 WOOD WOV WRC WTAG WTAM  
 WTIC WWJ

**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  
 WHP WICC WJAS WJR WJSV  
 WKRC WLBS WMAS WNAC WOKO  
 WRC WSPD

**R — Voice of Firestone**  
 CFCE CRCT KFYZ KPRC KSD  
 KSTP KTBS KVOO KYW WAVE  
 WBNB WCAE WCSC WOSH WDAF  
 WDAY WEAF WEBC WEEI WFAA  
 WFCB WFBZ WFLA WGY WHO  
 WHIO WIBA WIOD WIRE WIS  
 WJAR WJAX WJDX WKY WMAQ  
 WMC WOAI WOW WPTF WRC  
 WRVA WSB WSM WSMW WSOC  
 WTAG WTAM WTAR WTIC WTMJ  
 WWJ WWNC

**B — Melodiana; Abe Lyman**  
 KDKA KOIL KSO KWK WBAL WBZ  
 WBZA WCKY WFIL WGAR WHAM  
 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 KTSK KTUL KVI KWG  
 WABC WADC WBBM WBNS WBAE  
 WBT WCAO WCAU WCCO WDRC  
 WDBJ WDRC WEAN WFBL WFBM  
 WGST WHAS WHEC WHK WICC  
 WISN WJAS WJR WJSV WKBW  
 WKRC WLAC WNAC WNAX WOKO  
 WORC WQAM WREC WWL

**B — Sinclair Greater Minstrels**  
 KDKA KDYL KFYZ KOA KOIL  
 KPRC KSO KSTP KTBS KTHS  
 KVOO KWK WBAL WBZ WBZA  
 WDAY WEBC WFAA WFLA WGAR  
 WHAM WIBA WIOD WIS WJAX  
 WJDX WJZ WKY WLS WLW WMAL  
 WMC WMT WOAI WPTF WREN  
 WRVA WSB WSM WSMW WSOC  
 WSNW WSYR WTAR WTMJ WWNC  
 WXYZ

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**R — Richard Himber and Orchestra**  
 KFYZ KPRC KSD KSTP KTBS  
 KVOO KYW WBNB WCAE WESH  
 WDAF WDAY WEAF WEBC WFAA  
 WFBZ WGY WHO WIBA WJAR  
 WKY WLW WMAQ WOAI WOW  
 WRC WTAG WTAM WTIC WTMJ  
 WWJ

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**R — Contented Program**  
 CFCE CRCT KDYL KFI KGW  
 KHQ KOA KOMO KPO KPRC KSD  
 KYW WBNB WCAE WESH WDAF  
 WEAF WEEI WFBZ WFLA WGY  
 WHO WIOD WIS WJAR WJAX  
 WKY WMAQ WMC WOAI WOW  
 WPTF WRC WRVA WSB WSM  
 WTAG WTAM WTAR WTIC WWJ  
 WWNC

**C — Wayne King and Orchestra**  
 KDB KERN KFAB KFBK KFPY  
 KPRC 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 WIBW WJAS  
 WJR WJSV WKBW WKRC WOKO  
 WSPD WWL

# MONDAY (Continued)

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**C — The March of Time**  
 KDB JKERN KFAB KFBK KFPY  
 KFRG KGB KHJ KLZ KMBC KMJ  
 KMOX KOIN KOL KRLL KRNT  
 KSL KVI KWG WABC WADC  
 WBBM WBT WCAO WCAU WCCO  
 WDAE WDBO WDRC WEAN WFBL  
 WFBM WGST WHAS WHEC WHK  
 WJAS WJR WJSV WKBW WKRC  
 WNAC WOKO WQAM WSPD WWL

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Dance Orchestra**  
 CFRB CKAC WAAB WABC WADC  
 WCAO WCAU WDRC WFBL WFEA  
 WHEC WHK WIBX WJAS WKBN  
 WKBW WLBZ WMAS WOKO WORC  
 WPG WSBT WSPD

**R — Amos 'n' Andy**  
 KDYL KFI KGW KHQ KOA KOMO  
 KPO KPRC KSD WBAF WDAF  
 WHO WKY WLW WMC WOAI WOW  
 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 KFRG  
 KGB KHJ KMJ KOIN KOL KSL  
 KVI KWG

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Dance Orchestra**  
 CFRB CKAC KLRA WAAB WABC  
 WADC WALA WBNS WBRC WBT  
 WCAO WCAU WDAE WDBJ WDBO  
 WDNC WDDO WDRC WEAN WFBL  
 WFBM WFEA WGST WHAS WHEC  
 WHK WIBX WICC WJAS WJR  
 WJSV WKBN WKBW WKRC WLAC  
 WLBZ WMAS WMBG WMBR WNOX  
 WOKO WORC WQAM WRC WSBT  
 WSJS WSMK WSPD WTOC

**C — Fick and Pat**  
 KDB KERN KFBK KFPY KFRG  
 KFB KGKO KHJ KLRA KLZ KMJ  
 KMOX KOIN KOL KOMA KRLL  
 KRNT KSCJ KSL KTUL KVI KWG  
 KWKH WACO WBRC WCCO WFBM  
 WHAS WLAC WREC

**R — Voice of Firestone**  
 KDYL KFI KFSB KGHL KGIR  
 KGU KGW KHQ KOA KOMO KPO  
 KTAR

# TUESDAY

**E-6:00 p.m., C-5:00, M-4:00, P-3:00**  
**C — Patti Chapin; Songs**  
 CFRB KERN KFBK KFH KFPY  
 KFRG KGB KGKO KHJ KLZ KMBC  
 KNOW KOH KOL KOMA KRLL  
 KRNT KSCJ KTRH KVI KVOR  
 KWG WAAB WABC WACO WALA  
 WBIG WBNS WBRC WCAO WDAE  
 WDBJ WDBO WDNC WDOE WESG  
 WFBL WFBM WGST WHAS WHK  
 WHP WIBX WJAS WJSV WKBW  
 WKRC WLAC WLBZ WMBD WMBR  
 WNOX WOC WOKO WORC WQAM  
 WREC WSBT WSJS WSMK WSPD  
 WTOC

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**C — News of Youth**  
 WABC WADC WBNS WCAO WCAU  
 WDRC WEAN WFBL WHK WIBX  
 WICC WJR WKBN WLBZ WNAC  
 WOKO WORC WVVV

**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**  
**R — Amos 'n' Andy, See Monday**  
**C — Easy Aces**  
 BKDA 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

**C — Krueger Musical Toast**  
 WABC WBIG WBT WDBJ WDNC  
 WDRC WEAN WFEA WGST WICC  
 WLBZ WMAS WMBG WMBR WNAC  
 WORC

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C — Voice of Experience**  
 KDYL KFI KFPY KGW KHQ KOA  
 KOMO KPO KSD KSTP KYW WBBN  
 WCAE WCSH WDAF WDAY WFAF  
 WIBC WEEI WFBR WGY WHO  
 WIBA WJAR WLW WMAQ WOW  
 WRC WTAG WTAM WTIC

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**C — Kate Smith's Band**  
 KFAB KMBC KMOX KRLL KRNT  
 KTRH WABC WADC WBBM WBIG  
 WBNS WBRC WBT WCAO WCAU  
 WCCO WDAE WDRC WEAN WFBL  
 WFBM WGR WGST WHAS WHK  
 WJAS WJR WJSV WKBW WKRC  
 WLBZ WMAS WMBG WMBR WNAC  
 WOKO WORC WWL WVVV

**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 — Hammerstein Music Hall**  
 KFAB KMOX KRNT WABC WADC  
 WBBM WBNS WCAO WCAU WDRC  
 WEAN WFBL WFBM WGR WHAS  
 WHK WJAS WJR WJSV WKRC  
 WMAS WNAC WOKO WSPD

**R — Leo Reisman and Orchestra**  
 KFPY KPRC KSD KSTP KTBS  
 KVOO KYW WBAP WBBN WCAE  
 WCSH WDAF WDAY WFAF WEEI  
 WFBR WFLA WGY WHO WIBA  
 WIOD WIS WJAR WJAX WJDX  
 WKY WLW WMAQ WOW WPTF  
 WRC WRVA WSOC WTAG WTAM  
 WTAR WTIC WTMJ WWJ WWCN

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Russ Morgan; Ken Murray**  
 CFRB CORM KFAB KFH KLRA  
 KMBC KMOX KOMA KRLL KRNT  
 KSL KTRH KTSa KTUL WABC  
 WADC WBBM WBNS WBRC WBT  
 WCAO WCAU WCCO WDAE WDBJ  
 WDRC WEAN WFBL WFBM WGR  
 WGST WHAS WHEC WHK WICC  
 WISN WJAS WJR WJSV WKRC  
 WLAC WMAS WMBD WMBG  
 WNAC WNAX WOKO WORC WQAM  
 WREC WWL

**R — Wayne King and Orchestra**  
 KFPY KPRC KSD KSTP KTBS  
 KVOO KYW WAVE WBAP WBBN  
 WCAE WCKY WCSH WDAF WDAY  
 WFAF WIBC WEEI WFBR WGY  
 WHO WHIO WIBA WIRE WJAR  
 WJDX WKY WMAQ WMC WOAI  
 WOW WRC WSB WSM WSMB WTAG  
 WTAR WTIC 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 — Fred Waring and Orchestra**  
 CFRB CKAC KFAB KFH KGKO  
 KLRA KMBC KMOX KOMA KRLL  
 KRNT KSCJ KTRH KTSa KTUL  
 KWKH WABC WACO WADC WALA  
 WBBM WBIG WBNS WBRC WBT  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDNC WDOE WDRC WEAN  
 WFBL WFBM WFEA WGST WHAS  
 WHEC WHK WHP WIBX WIBC  
 WICC WISN WJAS WJR WJSV  
 WKBH WKBN WKBW WKRC  
 WLAC WLBZ WMAS WMBD WMBG  
 WMBR WMMN WNAC WNAX  
 WNNB WNOX WOC WOKO WORC  
 WOW WPG WQAM WREC WSBT  
 WSFA WSJS WSPD WTOC WWL

**R — Vox Pop; Sidewalk Interviews**  
 KSD KYW WBBN WCAE WCKY  
 WCSH WDAF WDAY WEEI WFBR  
 WGY WHO WHIO WIRE WJAR  
 WMAQ WOW WRC WTAG WTAM  
 WTIC WWJ

**B — Ben Bernie and Orchestra**  
 KDKA KDYL KFI KFSB KFPY  
 KGW KHQ KOA KOIL KOMO KPO  
 KPRC KSO KSTP KTAR KTBS  
 KVOO KWK WAVE WBAL WBAP  
 WBZ WBZA WDAY WIBC WFIL  
 WFLA WGAR WHAM WIBA WIOD  
 WIS WJAX WJDX WJZ WKY WLS  
 WLW WMAL WMC WMT WOW  
 WPTF WREN WRVA WSB WSM  
 WSMB WSOC WSYR WTAR WTMJ  
 WUNC WXYZ

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Camel Caravan**  
 KDB KERN KFAB KFBK KFH  
 KFPY KFRG KGB KGKO KHJ  
 KLRA KLZ KMBC KMJ KMOX  
 KOH KOIN KOL KOMA KRLL  
 KRNT KSCJ KSL KTRH KTSa  
 KTUL KVI KVOR KWG 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 WIBX WIBC WICC  
 WJAS WJR WJSV WKBW WKBW  
 WKRC WLAC WLBZ WMAS WMBD  
 WMBG WMBR WNAC WNAX  
 WNOX WOKO WORC WOW WPG  
 WQAM WREC WSBT WSFA WSJS  
 WSPD WTOC WWL

**R — Fred Astaire; Johnny Green**  
 CRCT KDYL KFI KFPY KGW  
 KHQ KOA KOMO KPO KPRC KSD  
 KSTP KTBS KTBS KVOO KYW  
 WAVE WBAP WBBN WCAE WCKY  
 WCSH WDAF WDAY WFAF WIBC  
 WEEI WFBR WFLA WGY WHO  
 WHIO WIBA WIOD WIRE WIS  
 WJAR WJAX WJDX WKY WMAQ  
 WMC WOAI WOW WPTF WRC  
 WRVA WSM WSMB WSOC WTAG  
 WTAM WTAR WTIC WTMJ WWJ  
 WUNC

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

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Dance Orchestra**  
 CKAC WAAB WABC WADC WCAO

## TUESDAY (Continued)

WCAU WDRC WFBL WFEA WHEC  
WHK WIBX WJAS WJSV WKBW  
WLBZ WMAS WOKO WORC WSBT  
WSPD

**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 — Dance Orchestra**

CFRB CKAC KLRA KSCJ WAAB  
WABC WADC WALA WBBM WBNS  
WBRC WBT WCAU WCCO WDAE  
WDBJ WDBO WDNC WDOE WDRC  
WEAN WFBL WFBM WFEA WGST  
WHAS WHEC WHK WIBX WICC  
WISN WJAS WJR WJSV WKBW  
WKRC WLAC WLBZ WMAS WMBD  
WMBG WMBR WNAX WNOX WOKO  
WORO WORC WQAM WREC WWSB  
WSJS WSMK WSPD WTOC

**C — "Laugh with Ken Murray"**

KDB KERN KFBC KFPY KFRC  
KGB KHJ KLZ KMJ KOH KOIN  
KOL KSL KVI KFOR KWG

**R — Leo Reisman and Orchestra**  
KDYL KFI KFSD KGHK KGIR  
KGW KHQ KOA KOMO KPO KTR

## WEDNESDAY

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**C — Bobby Benson, See Monday**

**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**  
**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**

**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 KFBC KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRLD KRNT  
KSL KVI KWG WABC WBBM  
WBNS WCAO WCAU WCCO WDRC  
WEAN WFBL WFBM WGR WHAS  
WHEC WHK WJAS WJR WJSV  
WKRC WLAC WMBG WNAC WOKO  
WTOC WWL

**B — Follies de Paree**

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

**R — One Man's Family**

KDYL KFI KFYR KGW KHQ KOA  
KOMO KPO KPRC KSD KSTP  
KTR KTB KTHS KVVO KYW  
WAPI WAVE WVB WBEN WCAE  
WCSH WDAF WDAY WFAE WFCB  
WEEI WFAA WFBW WFLA WGY  
WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ

WMC WOAI WOW WPTF WRC  
WRVA WSB WSM WSMB WSOC  
WSUN WTAG WTAM WTAR WTIC  
WTMJ WWJ WWNC

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

CKAC KFAB KFH KLRA KMBC  
KMOX KOMA KRLD KRNT KSCJ  
KTRH KTSa KTUL KWKH WABC  
WADC WBBM WBNS WBRC WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDRC WEAN WFBL WFBM  
WFEA WGR WGST WHAS WHEC  
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 — Lavender and Old Lace**

KDKA KOIL KSO KWK WBAL  
WBZ WBZA WFIL WGAR WHAM  
WJZ WLS 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 KFBC KFH  
KFPY KFRC KGB KGKO KGMB  
KHJ KLRA KLZ KMBC KMJ  
KMOX KOH KOIN KOL KOMA  
KRLD KRNT KSCJ KSL KTRH  
KTSa KTUL KVI KFOR KWG  
KWKH WABC WACO WADC WALA  
WBBM WBIG WBNS WBRC WBT  
WCAO WCAU WCCO WCOA WDAE  
WDBG WDBO WDNC WDOE WDRC  
WEAN WFBL WFBM WFEA WGST  
WHAS WHEC WHK WHP WIBW  
WIBX WICC WISN WJAS WJR  
WJSV WKBW WKBW WKRC WLAC  
WLBZ WMAS WMBD WMBG  
WMBR WNAC WNAX WNOX WOKO  
WOC WORO WORC WOWO WPG  
WQAM WREC WSFA WSJS WSPD  
WTOC WWL

**R — Town Hall Tonight**

KFYR KPRC KSD KSTP KTB  
KTHS KVVO KYW WAVE WEAN  
WCAE WCHS WDAF WDAY WFB  
WBC WEEI WFAA WFBW WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOAI WOW WPTF WRC WSB  
WSM WSMB WSOX WTAG WTAM  
WTAR WTIC WT MJ WWJ WWNC

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

**C — Come On, Let's Sing**

KDB KERN KFAB KFBC KFH  
KFPY KFRC KGB KGMB KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOH KOL KOMA KRLD KRNT  
KSL KTRH KTSa KTUL KVI KWG  
KWKH WABC WBBM WBNS WBRC  
WBT WCAO WCAU WCCO WDAE  
WDBJ WDBO WDRC WEAN WFBL  
WFBM WGST WHAS WHEC WHK  
WIC WISN WJAS WJR WJSV  
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 KFBC KFH  
KFPY KFRC KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOL  
KOM A KRLD KRNT KSL KTRH  
KTSa KTUL KVI KWG KWKH  
WABC WACO WBBM WBNS WBRC

WBT WCAO WCAU WCCO WDAE  
WDBJ WDBO WDRC WEAN WFBL  
WFBM WGST WHAS WHEC WHK  
WICC WISN WJAS WJR WJSV  
WKBW WKRC WLAC WLBZ WMBG  
WMBR WNAC WOKO WORC WOWO  
WQAM WREC WTOC WWL

**Red and Blue: Your Hit Parade**

KDKA KDYL KECA KEX KFI  
KFSD KFYR KGA KGHK KGIR  
KGO KGU KGW KHQ KJR KLO  
KOA KOIL KOMO KPO KPRC KSD  
KSO KSTP KTR KTB KTHS  
KVOO KWK KYW WAVE WBAL  
WBEN WBZ WBZA WCAE WCKY  
WCSH WDAF WDAY WFAE WFCB  
WEEI WENR WFAA WFBW WFIL  
WGAR WGY WHAM WHO WHIO  
WIBA WIOD WIRE WIS WJAR  
WJAX WJDX WJZ WKY WLW  
WMAL WMAQ WMC WMT WOAI  
WOW WPTF WRC WREN WRVA  
WSB WSM WSMB WSOX WSUN  
WSYR WTAG WTAM WTAR WTIC  
WTMJ WWJ WWNC WXYZ

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

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**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 — Dance Orchestra**

CKAC KLRA WAAB WABC WADO  
WALA WBRC WBT WCAO WCAU  
WDAE WDBJ WDBO WDNC WDOI  
WDRC WEAN WFBL WFBM WFEA  
WGST WHAS WHEC WHK WICC  
WJAS WJR WJSV WKBW WKRC  
WLAC WLBZ WMBG WMBR WNOX  
WOKO WORC WQAM WREC WSPD  
WTOC

**C — Burns and Allen**

KDB KERN KFBC KFPY KFRC  
KGB KHJ KLZ KMJ KOIN KOL  
KSL KVI KFOR KWG

**E-12:00 p.m., C-11:00, M-10:00, P-9:00**  
**R — Town Hall Tonight**

KDYL KFI KGW KHQ KOA KOMO  
KPO

## THURSDAY

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

**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 — The Atlantic Family**

WABC WADC WBIG WBNS WBT  
WCAO WCAU WDAE WDBJ WDBO  
WDRC WEAN WESG WFBL WGR  
WGST WHEC WHK WHP WIBX  
WICC WJAS WKBW WMAS WMBG  
WMBR WNAC WNOX WOKO WORC  
WQAM WSJS WTOC WWVA

**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**  
**R — Experience, See Tuesday**

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

**C — Kate Smith, See Tuesday**

**B — Lum and Abner, See Monday**



## THURSDAY (Continued)

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  
R — Rudy Vallee's Variety Hour  
CFCC CRCT KDYL KFI KFJR  
KGW KHQ KOA KOMO KPO KSD  
KSTP KTAR KYW WBNB WCAE  
WCSE WDAF WDAY WFAE WVEC  
WVEE 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. List of stations not now available.

R — Maxwell House Show Boat  
KDYL KFI KFSD KFJR KGHK  
KGIR KWK KHQ KOA KOMO KPO  
KPRC KSD KSTP KTAR KTBS  
KYW WAPI WAVE WBAP WBAF  
WCAE WCSE WDAF WDAY WFAE  
WVEC WVEE WFBR WFLA WGY  
WHO WHIO WIBA WIOD WIRE WIS  
WJAR WJAX WJDX WKY WMAQ  
WMC WOAI WOW WPTF WRC  
WRVA WSAI WSB WSM WSMB  
WSOC WTAG WTAM WTAR WTIC  
WTMJ WWJ WWNC

E-10:00 p.m., C-9:00, M-8:00, P-7:00  
R — Bing Crosby; Bob Burns  
CFCC CRCT KDYL KFI KFJR  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTAR KTBS KTHS  
KV00 KYW WAVE WBAP WBAF  
WCAE WCSE WDAF WDAY WFAE  
WVEC WVEE WFBR WFLA WGY  
WHO 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, See Monday

E-11:00 p.m., C-10:00, M-9:00, P-8:00  
C — Dance Orchestra  
WAAB WABC WADC WCAO WCAU  
WFBL WHK WIBX WJCV WKBN  
WKBW WLW WMAS WOKO WORC  
WPG WSBT WSPD  
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 — Dance Orchestra  
CFRB CKAC KLRA WAAB WABC  
WADC WALA WBNB WBRB WBT  
WCAO WCAU WDAE WDBJ WDBO  
WDNC WDDC WDRB WEAN WFBL  
WFBM WFEA WGST WHAS WHEC  
WHK WIBX WICC WJAS WJR  
WJSV WKBW WKWB WKRC WLAC  
WLWZ WMAS WMBG WMBR WNOX  
WOKO WORC WQAM WREC WSBT  
WSJS WSMK WSPD WTIC

## FRIDAY

E-6:15 p.m., C-5:15, M-4:15, P-3:15  
C — Bobby Benson, See Monday

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  
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

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 — Flying Red Horse Tavern

KFAB KFH KMBC KMOX KRNT  
WABC WADC WBBM WBNB WCAO  
WCAU WCCO WDRC WEAN WFBL  
WFBM WGR WHAS WHEC WHK  
WIBW WICC WJAS WJR WJSV  
WKRC WLWZ WMAS WMBD WNAC  
WOC WOKO WORC WSPD

R — Cities Service Concert  
CRCT KFJR KOA KPRC KSD  
KSTP KTBS KTHS KV00 KYW  
WBAP WBNB WCAE WCSE WDAF  
WDAY WFAE WVEC WVEE WFAA  
WFBR WGY WHO WHIO 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 WBZA WCKY WFIL  
WGAR WHAM WIRE WJZ WLS  
WMAJ WMC WMT WREN WSB  
WSM WSJR 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 WMAJ WMT WREN  
WSJR WXYZ

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

KDB KERN KFAB KFBK KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KRNT  
KSL KVI KWG WABC WADC  
WBBM WBNB WBRB WBT WCAO  
WCAU WCCO WDRB WEAN WFBL  
WFBM WGR WGST WHAS WHK  
WJAS WJR WJSV WKRC WMAS  
WMBG WNAC WOKO WSPD WWL

B — Death Valley Days  
KDKA KDYL KFI KGW KHQ  
KOIL KOMO KPO KSO KWK WBAL  
WBZ WBZA WFIL WGAR WHAM  
WJZ WLS WLW WMAJ WMT  
WREN WSJR 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 KFRC KGB KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOIN KOL KOMA KRNT KRNT  
KSCJ KSL KTRH KTSa KTUL KVI  
KVOR KWG KWKH WABC WADC  
WBBM WBNB WBRB WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDRB WEAN WFBL WFBM WFEA  
WGST WHAS WHEC WHK WHP  
WIBW WIBX WICC WJAS WJR  
WJSV WKBW WKRC WLAC WLWZ  
WMAS WMBD WMBG WMBR  
WNAC WNAX WNOX WOKO WORC  
WPG WQAM WREC WSPD WWL

R — Frank Munn; Bernice Claire  
KSD KYW WBNB WCAE WCSE

WDAF WFAE WVEE WFBR WGY  
WJAR WLW WMAQ WOW WRC  
WTAG WTAM WWJ

B — Fred Waring  
KDKA KDYL KFJR KOA KOIL  
KPRC KSO KSTP KTBS KWK  
WAPI WAVE WBAL WBZ WBZA  
WDAY WVEC WFAA WFIL WFLA  
WGAR WHAM WIBA WIOD WIS  
WJAX WJDX WKY WLS WLW  
WMAJ WMC WMT WOI WOOD  
WPTF WREN WRVA WSB WSM  
WSMB WSOC WSUN WSJR WTAR  
WTMJ WWNC WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30  
R — True Story Court

KSD KYW WBNB WCAE WCSE  
WFAE WVEE WFBR WGY WHO  
WHIO WJAR WMAQ WOW WRC  
WTAG WTAM WTIC WWJ

B — Clara, Lu 'n' Em  
KDKA KDYL KECA KEX KFI  
KFSD KFJR KGA KGHK KGIR  
KGO KGW KHQ KJR KOA KOIL  
KOMO KPO KPRC KSO KSTP KTAR  
KTBS KWK WAPI WAVE WBAL  
WBZ WBZA WDAY WVEC WENR  
WFAA WFBR WFIL WFLA WGAR  
WHAM WHIO WIBA WIOD WIRE  
WIS WJAX WJDX WJZ WKY WLW  
WMAJ WMC WMT WOOD WPTF  
WREN WRVA WSB WSM WSMB  
WSOC WSUN WSJR WTAR WTMJ  
WWNC WXYZ

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

KDB KERN KFAB KFBK KFH  
KFPY KFRC 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  
WBG WBNS WBRB WBT WCAO  
WCAU WCCO WCOA WDAE WDBJ  
WDBO WDCN WDOD WDRC WEAN  
WFBL WFBM WFEA WGST WHAS  
WHEC WHK WHP WIBW WIBX  
WICC WISN WJAS WJR WJSV  
WKBW WKRC WLAC WLWZ WMAS  
WMBD WMBG WMBR WNAC  
WNAX WNBW WNOX WOC WOKO  
WORC WOW WPG WQAM WREC  
WSFA WSJS WSMK WSPD WTIC  
WWL

E-10:00 p.m., C-9:00, M-8:00, P-7:00  
R — First Nighter; Drama

KDYL KFI KFJR KGW KHQ KOA  
KOMO KPO KPRC KSD KSTP  
KTBS KTHS KYW WAVE WBNB  
WCAE WCSE WDAF WDAY WFAE  
WVEC WVEE WFAA WFBR WFLA  
WGY WHO 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 — "Red" Grange, Football

KDYL KFJR KOA KPRC KSD  
KSTP KTBS KYW WAVE WBNB  
WCAE WCKY WCSE WDAF WDAY  
WFAE WVEC WVEE WFAA WFBR  
WFLA WGY WHO WIBA WIOD  
WIRE WIS WJAR WJAX WJDX  
WKY WMAQ WMC WOAI WOW  
WPTF WRC WRVA WSB WSMB  
WSOC WTAG WTAM WTAR WTIC  
WTMJ WWJ WWNC

# FRIDAY (Continued)

**C — March of Time, See Monday**

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**R — Amos 'n' Andy, See Monday**

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Dance Orchestra**  
CFBR CKAK KFLA KSCJ WAAB  
WABC WADC WALA WBNS WBRC  
WBT WCAO WCAU WDAE WDBJ  
WDBO WDNC WDOO WDRC WFBL  
WFEA WGST WHEC WHK WIBX  
WISN WJAS WJR WKBW WLAC  
WLBZ WMAS WMBD WMBG  
WMBR WNAX WNOX WOC WOKO  
WORC WPG WQAM WREB WSBT  
WSJS WSMK WSPD WTOC.

**C — Renfrew of Mounted, See Mon.**

# SATURDAY

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

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**C — Al Roth and Orchestra**  
CKAC KERN KFBK KFH KFPY  
KFRC KGB KGKO KMBC KMOX  
KOH KOL KOMA KRNT KTRH  
KYOR KWG WAAB WADC WALA  
WCAO WDAE WDBO WDNC WESG  
WFEA WGST WHAS WHEC WHP  
WIBX WJAS WJSV WKBW WLAC  
WLBZ WMBD WMBG WMBR WOC  
WOKO WORC WQAM WREB WSJS  
WSMK WSPD WTOC

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**C — Patti Chapin, Songs**  
CKAC KERN KFH KFPY KFRC  
KGB KGKO KHJ KLZ KMBC  
KMOX KOL KOMA KRND KRNT  
KSCJ KTRH KVI KYOR KWG  
WABC WACO WALA WBBM WBIG  
WBT WCAO WCCO WDAE WDBO  
WDRS WEAN WESG WFBL WFEA  
WGR WGST WHAS WHK WHP  
WIBW WIBX WICC WJAS WKRC  
WLAC WLBZ WMBG WMBR WNAC  
WNOX WOC WOKO WORC WQAM  
WREB WSJS WSMK WSPD WTOC

**R — Harold "Red" Grange**  
KDYL KFYR KOA KPRC KSD  
KSTP KTBS KYW WAVE WBEN  
WCAE WCKY WCSH WDAF WDAY  
WEAF WECB WEEI WFAA WFRB  
WFLA WGY WHIO WIBA WIOD  
WIRE WIS WJAR WJAX WJDX  
WKY WMAQ WMC WOAI WOW  
WPTF WRC WRVA WSB WSMB  
WSOC WTAG WTAM WTAR WTIC  
WTMJ WWJ WWNC

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**C — Carburndum Band, list of stations not available.**

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Saturday Swing Session**  
CFBR CKAK KFAB KFH KFRC  
KLRA KMBC KMOX KOMA  
KRNT KTRH KTSa KTUL KWKH  
WABC WBBM WBNS WBRC WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDRS WEAN WFBL WFBM  
WGR WGST WHAS WHEC WHK  
WHP WICC WISN WJAS WJR WJSV  
WKRC WLAC WLBZ WMBG WMBR  
WNAC WOKO WORC WQAM WREB  
WTOC WWL

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Columbia Workshop; Drama**  
CFBR CKAK KFAB KFH KFRC  
KLRA KMBC KMOX KOMA KRNT  
KTRH KTSa KTUL KWKH WABC  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDRS WEAN WFBL WFBM WGR  
WGST WHAS WHEC WHK WHP  
WICC WISN WJAS WJR WJSV  
WKRC WLAC WLBZ WMBG WMBR  
WNAC WOKO WORC WQAM WREB  
WTOC WWL

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**R — Shell Chateau**  
KDYL KFI KFSD KFYR KGHL  
KGIR KGW KHQ KOA KOMO KPO  
KSD KSTP KTAR KYW WBEN  
WCAE WCSH WDAF WDAY WEAF  
WECB WEEI WFBM WGY WIBA  
WJAR WLW WMAQ WOW WRC  
WTAG WTAM WTIC WTMJ WWJ

**B — National Barn Dance**  
KDKA KOIL KPRC KSO KTBS  
KTHS KWK WAPI WAVE WBAL  
WBAP WBZ WBZA WCSC WFBC  
WFBF WFIL WFLA WGAR WHAM  
WHOU WIOD WIRE WIS WJAX  
WJDX WJZ WKY WLS WMAL WMC  
WMT WOA WOOD WPTF WREN  
WRVA WSB WSMB WSOC WSUN  
WSYR WTAR WWNC WXYZ

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C — Your Hit Parade**  
KERN KFBK KFBK KFH KFPY  
KFRC KGB KGKO KGMB KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KOMA KRND  
KRNT KSCJ KSL KTRH KTSa  
KTUL KVI KYOR KWG KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRC WBT WCAO  
WCAU WCCO WCOA WDAE WDBJ  
WDBO WDNC WDOO WDRS WEAN  
WFBL WFBM WFEA WGST WHAS  
WHEC WHK WHP WISN WIBX  
WICC WISN WJAS WJR WJSV  
WKRC WLAC WLBZ WMAS  
WMBD WMBG WMBR WNAC  
WNAX WNOX WOC WOKO WORC  
WPG WQAM WREB WSBT WSFA  
WSJS WSPD WTOC WWL WWVA

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Dance Orchestra**  
CFBR CKAK KFH KGKO KLRA  
KLZ KMBC KMOX KOMA KRND  
KSCJ KSL KTRH KTSa KYOR  
KWKH WABC WACO WADC WALA  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDNC WDOO WDRS WFBL WFBM  
WFEA WGST WHAS WHEC WHK  
WIBW WIBX WICC WISN WJAS  
WJR WJSV WKBW WKRC WLAC  
WLBZ WMAS WMBD WMBG  
WMBR WNAX WNOX WOC WOKO  
WORC WQAM WREB WSBT WSJS  
WSMK WSPD WTOC

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

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Dance Orchestra**  
CFBR CKAK KFH KGKO KLRA  
KLZ KMBC KMOX KOMA KSL  
KTRH KTSa KYOR KWKH WABC  
WACO WADC WALA WBNS WBNS

WBT WCAO WCAU WDAE WDBJ  
WDBO WDNC WDOO WDRS WEAN  
WFBL WFBM WFEA WGST WHAS  
WHEC WHK WIBW WIBX WICC  
WJAS WJR WKBW WKRC WLAC  
WLBZ WMAS WMBG WMBR WNOX  
WOKO WORC WQAM WREB WSBT  
WSJS WSMK WSPD WTOC

# SUNDAY

**E-11:30 a.m., C-10:30, M-9:30, P-8:30**  
**C — Salt Lake Tabernacle Choir**  
KFH KGKO KLRA KLZ KMBC  
KOMA KRND KSCJ KSL KTRH  
KTSa KWKH WACO WADC WALA  
WBIG WBNS WBRC WBT WCCO  
WDBO WDNC WDOO WDRS WFBL  
WFBM WFEA WGST WHAS WIBW  
WIBX WISN WJAS WJR WJSV  
WKBN WKRC WLAC WLBZ WMAS  
WMBD WMBR WNAC WNAX  
WNOX WOKO WORC WQAM WREB  
WSBT WSMK WSPD WTOC

**R — Major Bowes' Capitol Family**  
CFBC CRCT KDYL KFI KFYR  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTBS KTHS KVOO KYW  
WAPI WAVE WBAP WBEN WCAE  
WCSW WCSH WDAF WDAY WEAF  
WECB WEEI WFAA WFCB WFRB  
WFLA WGY WHO WIBA WIOD  
WIS WJAR WJAX WJDX WKY  
WMAQ WMC WOAI WOW WPTF  
WRC WRVA WSB WSM WSMB  
WSOC WSUN WTAG WTAM WTAR  
WTIC WTMJ WWJ WWNC

**E-12:30 p.m., C-11:30 a.m., M-10:30, P-9:30**  
**B — Radio City Music Hall**  
CFBC CRCT KDKA KDYL KFI  
KFYR KGO KGW KHQ KOIL KOMO  
KPRC KSO KVOO WAPI WBAL  
WBZ WBZA WCKY WDAY WECB  
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**  
CFBR CKAK KFH KGKO KLRA  
KLZ KMBC KRND KSCJ KTRH  
KTSa KYOR WABC WACO WADC  
WALA WBIG WBRB WCAO WCAU  
WCCO WDAE WDBJ WDBO WDRS  
WEAN WESG WFBL WFBM WFEA  
WGR WHAS WIBX WJAS WJSV  
WKBN WLAC WLBZ WMBD WMBR  
WNAC WOC WOKO WORC WPG  
WQAM WREB WSJS WSMK WSPD  
WTOC WWL

**E-1:00 p.m., C-12:00, M-11:00, P-10:00**  
**C — Church of the Air**  
KFBK KFH KFPY KFRC KGB  
KHJ KMOX KOH KOL KOMA KRND  
KRNT KSCJ KSL KTRH KTSa  
KVI KYOR KWG WABC WALA  
WBNS WBT WCAO WCCO WDAE  
WDBJ WDBO WDRS WESG WFBL  
WFBM WGR WHAS WHP WIBX  
WJAS WJSV WKBN WKRC WLAC  
WLBZ WMBR WNBW WOC WOKO  
WORC WPG WQAM WREB WSBT  
WSJS WSPD WTOC WWVA

**E-2:00 p.m., C-1:00, M-12:00, P-11:00**  
**B — Magic Key of RCA**  
CFBC CRCT KDKA KDYL KFI  
KFYR KGU KGW KHQ KOA KOIL  
KOMO KPO KPRC KSO KSTP

**SUNDAY (Continued)**

KTBS KTHS KVOO KWK WAPI  
WAVE WBAL WBZ WBZA WCKY  
WDAY WEBC WENR WFAA WFIL  
WFLA WGAR WHAM WHIO WIBA  
WIOD WIRE WIS WJAX WJDX  
WJZ WKY WMAL WMC WMT  
WOAI WPTF WREN WRVA WSB  
WSM WSMB WSOC WSYR WTAR  
WTMJ WNNC WXYZ

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

**C — Everybody's Music**  
CFRB CKAC KERN KFH KFPY  
KFRC KGB KGKO KHJ KLZ KMBC  
KMOX KOH KOL KOMA KRNT  
KSCJ KSL KTRH KTSa KVI KFOR  
KWG WAAB WABC WALA WBIG  
WBNS WBRC WBT WCAO WCCO  
WDAE WDBJ WDRC WEAN WESG  
WFBL WFBM WFEA WGST WHAS  
WHK WHP WIBW WIBX WICC  
WJAS WKBN WKBW WKRC WLAC  
WLBZ WMBD WMBG WMBR  
WNBW WNOX WOC WOKO WORC  
WPG WQAM WREC WSBT WSJS  
WSMK WSPD WTOC

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

**R — Coming: Grand Hotel. List of stations not available.**

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

**C — Ann Leaf's Musicale**  
CFRB CKAC KERN KFAB KFBK  
KFPY KFRC KGB KGKO KHJ  
KLZ KMBC KMOX KOH KOL  
KOMA KRNT KSL KTRH KTSa  
KVI KFOR WABC WACO WADC  
WALA WBIG WBNS WBRC WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRC WEAN WFBL  
WFBM WGST WHAS WHEC WHK  
WHP WIBW WJAS WJR WJSV  
WKBW WKRC WLAC WMBD  
WMBG WMBR WNAC WNOX  
WOKO WPG WQAM WREC WSJS  
WSMK WSPD WTOC

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

**C — Tea Time Tunes**  
KFH KMBC KMOX KOMA KTUL  
WAAB WABC WBNS WCAO WCAU  
WDRC WEAN WFBL WFBM WGR  
WHAS WHEC WHK WIBX WICC  
WJR WJSV WMAS WOKO WORC  
WSPD WWL WWVA

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

**C — Crumit; Sanderson**  
KLRA KLZ KRLD KTRH KTSa  
KTUL KWKH WABC WACO WADC  
WALA WBIG WBNS WBRC WBT  
WCAO WCAU WCOA WDAE WDBJ  
WDBO WDOD WDRC WEAN  
WFBL WFBM WFEA WGR WGST  
WHAS WHEC WHK WHP WIBX  
WICO WJAS WJR WJSV WKBW  
WKRO WLAC WLBZ WMAS WMBG  
WMBR WNAC WNOX WOKO WORC  
WQAM WREC WSBT WSFA WSJS  
WSMK WSPD WTOC WWL WWVA

**R — Fireside Recitals**

KSD KYW WBEN WCAE WCHS  
WDAF WDAF WFBR WGY WHIO  
WIRE WJAR WMAQ WOW WRC  
WSAI WTAG WTAM WTC WJW

**B — Ozzie Nelson; Bob Ripley**

KDKA KOIL KPRC KSO KTBS  
KTHS KVOO KWK WAPI WAVE  
WBAL WBAP WBZ WBZA WCKY  
WFIL WGAR WHAM WHIO WIRE  
WJDX WJZ WKY WLM 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**  
CFRC CRCT KSD KYW WBEN  
WCAE WCHS WDAF WDAF WFBR  
WGY WHO WHIO WIRE WJAR  
WLW WMAQ WOAI WOOD WOW  
WRC WTAG WTAM WTC WJW

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

**C — America Dances; Lud Gluskin**  
KFAB KFH KFPY KLA KLZ  
KMBC KMOX KOMA KRLD KRNT  
KTRH KTSa KTUL KWG KWKH  
WABC WADC WALA WBBM WBNS  
WBRC WBT WCAO WCAU WCCO  
WDOD WDRC WEAN WFBL WFBM  
WGR WGST WHAS WHEC WHK  
WHP WICC WJAS WJR WJSV  
WKRC WLAC WNAC WNAK WOC  
WOKO WOW WREC WSPD WWL

**C — Joseph Pasternak and Nelson Eddy. List of stations not yet available.**

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

**C — Coming; Eddie Cantor.**

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

**R — Manhattan Merry-Go-Round**  
CFRC KDYL KFI KFJR KGW

KHQ KOA KOMO KPO KPRC KSD  
KSTP KTBS KTHS KYW WAVE  
WBEN WCAE WCKY WCHS WDAF  
WDAY WDAF WEBC WEEI WFAA  
WFBR WFLA WGY WHO WHIO  
WIBA WIOD WIRE WIS WJAR  
WJAX WJDX WKY WMAQ WMC  
WOAI WOW WPTF WRC WRVA  
WSB WSM WSMB WSOC WTAG  
WTAM WTAR WTC WTMJ WWJ  
WNNC

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

**R — Album of Familiar Music**  
CFRC CRCT KDYL KFI KFJR  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTBS KYW WAPI  
WAVE WBEN WCAE WCHS WDAF  
WDAY WDAF WEBC WEEI WFAA  
WFBR WFLA WGY WHO WHIO  
WIBA WIOD WIS WJAR WJAX  
WJDX WKY WMAQ WMC WOAI  
WOW WPTF WRC WRVA WSAI  
WSB WSM WSMB WSOC WTAG  
WTAM WTAR WTMJ WWJ WNNC

**E-9:45 p.m., C-8:45, M-7:45, P-6:45**

**B — Paul Whiteman's Musical Varieties**  
KDKA KOIL KSO KWK WBAL  
WBZ WBZA WENR WFIL WGAR  
WHAM WJZ WMAL WMT WREN  
WSAI WSYR WXYZ

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

**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  
WBAP WJDX WKY WMC WOAI  
WSB WSM WSMB

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

**B — Paul Whiteman's Musical Varieties**  
KECA KEX KFSD KGA KGO KJR  
KPRC KTBS KTHS WAPI WAVE  
WBAP WJDX WKY WMC WOAI  
WSB WSM WSMB

The Communications Commission has issued a temporary renewal of license to KGBZ, the York, Nebr., station which was deleted earlier this year. On the deletion of KGBZ, KMA in Shenandoah, Iowa was given full time on the 930 kc. spot. Under the temporary renewal, however, the stations will share time pending a decision by the Court of Appeals of the District of Columbia. Reinstatement of KGBZ in our indices is withheld until the outcome of the appeal is known.

Purchase of WDNC, Durham, N. C., 100-watt station, by the Durham Herald was recently authorized. The purchase price was reported to be about \$15,000.

\* \* \*

The Oklahoma City 100-watt station KFXR, operated by the Exchange Avenue Baptist Church, has been sold to the Plaza Court Broadcasting Co. The other Oklahoma City local, KGFG, was sold to Harold Hough, manager of WBAP at Ft. Worth, Texas.

# CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

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

## CONCERTS

Everybody's Music, 3 p.m. Sunday, C  
Radio City Music Hall, 12:30 p.m. Sun., B

## DANCE BANDS

Victor Arden, 8:30 p.m. Fri., C  
Bunny Berigan, 8 p.m. Sat., C  
Ben Bernie, 9:00 p.m. Tues., B  
Ray Block, 7 p.m. Tues. and Thurs., C  
Jimmie Dorsey, 10 p.m. Thurs., R  
Eddie Duchin, 8:30 p.m. Wed., C  
Ted Fio Rito, 9:30 p.m. Fri., B  
Lud Gluskin, 8 p.m. Sun., C  
Benny Goodman, 9:30 p.m. Tues., C  
Louis Gress, 7 p.m. Sun., C  
Horace Heidt, 8 p.m. Mon., C  
Richard Himber, 9:30 p.m. Mon., R  
Hal Kemp, 7:30 p.m. Sun., C  
Wayne King, 8:30 p.m. Tues. and Wed., R. 10 p.m. Mon., C  
Andre Kostelanetz, 9 p.m. Wed., C and 10 p.m. Fri., C  
Benny Krueger, 8:30 and 11:30 p.m. Mon., C  
Abe Lyman, 5 p.m. Sun., C, and 8:30 p.m. Mon., B  
Russ Morgan, 8:30 p.m. Tues., C  
Ozzie Nelson, 7:30 Sun., B  
Raymond Paige, 9 p.m. Fri., C  
Leo Reisman, 8 and 11:30 p.m. Tues., R  
Freddie Rich, 10 p.m. Sat., C  
Al Roth, 6:45 Sat., C  
Jack Shilkret, 5:30 p.m. Sun., C  
Nathaniel Shilkret, 9:30 p.m. Tues., C  
Phil Spitalny, 6 p.m. Sun., C  
Rudy Vallee, 8 p.m. Thurs., R  
Peter Van Steeden, 9 p.m. Wed., R  
Fred Waring, 9:00 Tues., C. 9:00 Fri., B  
Paul Whiteman, 9:45 and 11:30 p.m. Sun., B  
Victor Young, 9:30 p.m. Sat., R

## DIALOG

Fred Allen, 9:00 Wed., R  
Amos 'n' Andy, 7 and 11 p.m. daily except Sat. and Sun., R  
Fred Astaire, 9:30 p.m. Tues., R  
Phil Baker, 7:30 p.m. Sun., C  
Bob Burns, 10:00 Thurs., R  
Burns and Allen, 8:30 and 11:30 p.m. Wed., C  
Clara, Lu 'n' Em, 9:30 p.m. Fri., B  
Easy Aces, 7 p.m. Tues., Wed., Thurs., B  
Fibber McGee and Molly, 8 p.m. Mon., R  
Lum and Abner, 7:30 p.m. daily except Sat. and Sun., B  
Ken Murray, 8:30 p.m. and 11:30 p.m. Tues., C  
Pick and Pat, 8:30 and 11:30 p.m. Mon., C

## DRAMA

Columbia Workshop, 8:30 p.m. Sat., C  
Crime Crusade, 10 p.m. Wed., C  
Death Valley Days, 8:30 p.m. Fri., B  
Helen Hayes, 8:00 Mon., B  
Phillips Lord, 10 p.m. Wed., C  
Lux Radio Theater, 9 p.m. Mon., C  
News of Youth, 6:15 p.m. Tues., Thurs., Sat., C  
One Man's Family, 8 p.m. Wed., R  
Pop Eye the Sailor, 7:15 Mon., Wed., Fri., C  
Renfrew of the Mounted, 6:45 and 11:15 p.m. Mon. thru Fri., C  
Irene Rich, 8 p.m. Fri., B  
True Story Court, 9:30 p.m. Fri., R  
Warden Lawes, 10:30 Mon., B  
Welcome Valley, 8:30 p.m. Tues., B

## POPULAR PROGRAMS

Album of Familiar Music, 9:30 p.m. Sun., R  
Atlantic Family, 7 p.m. Thurs., C  
Major Bowes, 11:30 a.m. Sun., R  
Broadway Varieties, 8:30 p.m. Fri., C  
Camel Program, 9:30 and 11:30 p.m. Tues., Thurs., C  
Cavalcade of America in Music, 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  
Come On, Let's Sing, 9:30 p.m. Wed., C  
Fireside Recitals, 7:30 p.m. Sun., R  
Fleischmann Variety Hour, 8 p.m. Thurs., R  
Flying Red Horse Tavern, 8 p.m. Fri., C  
Hammerstein's Music Hall, 8 p.m. Tues., C  
Hit Parade, 10 p.m. Red and Blue Wednesday; 10 p.m. Sat., C  
Hollywood Hotel, 9 p.m. Fri., C  
Krueger Musical, 7 p.m. Tues., C  
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. Mon. thru Fri., C  
Maxwell House Show Boat, 9 p.m. Thurs., R  
Musical Footnotes, 1:30 p.m. Sun., C  
National Barn Dance, 9:30 and 11:30 p.m. Sat., B  
Shell Chateau, 9:30 p.m. Sat., R  
Sinclair Minstrels, 9 p.m. Mon., B  
Swing Session, 8 p.m. Sat., C  
Town Hall Tonight, 9 and 12 p.m. Wed., R  
Uncle Ezra, 7:15 p.m. Mon., Wed., Fri., R  
Voice of Firestone, 8:30 and 11:30 p.m. Mon., R  
Vox Pop, 9 p.m. Tues., R  
Welcome Valley, 8:30 p.m. Tues., B

## SINGERS

Fred Astaire, 9:30 p.m. Tues., R  
Smith Ballew, 9:30 p.m. Sat., R  
Richard Bonelli, 9 p.m. Fri., B  
Patti Chaplin, 7 p.m. Sat., C and 6 p.m. Tues., C  
Charlottees, 7:15 p.m. Mon., C  
Bernice Claire, 5 p.m. Sun., C  
Jerry Cooper, 7 p.m. Tues., C, and 9 p.m. Fri., R  
Bing Crosby, 10 p.m. Thurs., R  
Crumit-Sanderson, 7:30 p.m. Sun., C  
Jessica Dragonette, 8 p.m. Fri., R  
Phil Ducey, 8 and 11:30 p.m. Tues., R  
Alexander Gray, 8 p.m. Thurs., C  
Frances Langford, 9 p.m. Fri., C  
Elizabeth Lennox, 8:30 p.m. Fri., C  
Luey Monroe, 9:30 p.m. Sun., R  
Morin Sisters, 7:45 and 11 p.m. Sun., R  
Frank Munn, 9:30 p.m. Sun. and 9 p.m. Fri., R  
Frank Parker, 7 p.m. Sat., C  
Carmella Ponselle, 8:30 p.m. Fri., C  
Dick Powell, 9 p.m. Fri., C  
Homer Rodeheaver, 9:30 p.m. Wed., C  
Lanny Ross, 9 p.m. Thurs., R  
Singin' Sam, 8:15 Fri., B  
Oscar Shaw, 8:30 p.m. Fri., C  
Sally Singer, 7 p.m. Mon., Thurs., C  
Kate Smith, 7:30 Tues. and 8 p.m. Thurs., C  
Oliver Smith, 5 p.m. Sun., C  
Margaret Speaks, 8:30 p.m. Mon., R  
Marion Talley, 10 p.m. Fri., R  
Judy Starr, 7:30 p.m. Mon., C

## TALKS

Boake Carter, 7:45 p.m. Mon. thru Fri., C  
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  
Voice of Experience, Tues., Thurs., 7:15 R

## FOREIGN B. C. STATIONS BY FREQUENCIES

Wavelength in meters is given in parentheses following frequencies in kilocycles. Entering dial number in square provided will enable you to identify stations heard. Power is given in second column in kilowatts and decimals thereof. Actual frequency is given in parentheses. While call letters are given wherever possible, very few European stations use these calls. Time is Local unless otherwise stated.

### 520 (576.6)

- LKH .7 Hamar, Nor. (519)
- OFH 10. Viipuri, Fin. (527)
- RW34 10. Stalingrad, USSR. (522)
- ..... 1. Innsbruck, Aust. (519)
- ..... 5. Ljubljana, Yug. (527)
- ..... .5 Tartu, Est. (517)

### 530 (565.7)

- I1BZ 10. Bolzano, I. (536)
- ..... 16. Wilno, Pol. (536)

### 540 (555.2)

- HAL 120. Budapest, Hun. (546)
- Budapest VIII, Sandor Utca No. 7.
- Weekdays 0045-1815;
- Sun. 315-1900 EST

### 550 (545.1)

- RW52 20. Tchita, USSR. (556)
- 2CR 10. Cumnock, Ausl.
- ..... 100. Beromunster, Sw. (556) Report to PTT, Berne, Speichergasse No. 6.
- Weekdays 600-163
- Sun. 130-1630 EST

### 560 (535.4)

- IIPA 4. Palermo, I. (565)
- MTCY 100. Hsinking, Mch.
- RW41 1.2 Syktyvkar, USSR. (563)
- RW42 10. Gorki, USSR. (565)
- XGOH 10. Chengtu, China.
- XLHB .045 Shanghai, China.
- ZUG 10. Grahamstown, S. Af.
- 6WA 10. Minding, Ausl.
- ..... 60. Athlone, IFS (565)
- Radio Atha Luain.
- Daily 830-1800 EST
- ..... 10. Klaipeda, Lithuania (Memel)

### 570 (526)

- CB57 5. Santiago, Chile, Soc. Nacional Agricultura
- RW68 10. Tcheliabinsk, USSR. (577)
- XHJA .1 Hankow, China
- 2YA 5. Wellington, N. Z. Featherstone St.
- Mon. to Sat. 700-900;
- 1000-1100; Sun. 900-1215; 1300-1430; 1800-2200.
- ..... 100. Stuttgart, G. (574)
- Charlottenplatz No. 1
- Daily 0000-2000 EST.
- ..... 10. Magnitogorsk, USSR. (571)

### 580 (516.9)

- CC58 .5 Temuco, Chile, Luis E. Brain.

- JFCK 1. Taichu, Formosa.
- RW36 10. Archangel, USSR (586)
- RW54 10. Khabarovsk, USSR.
- XQHA .25 Shanghai, Chn.
- YLZ 15. Riga, Lat. (583)
- 3WV- 10. Horsham, Ausl.
- ..... 15. Grenoble, F. (583)
- Daily 300-1730 EST

### 590 (508.2)

- JOAK1 150. Tokyo, Japan
- JOAK2 10. Tokyo, Jap. M. Tomabecio, EST.
- Daily 4 a.m.-7:30 a.m.
- LS10 6. Buenos Aires, Arg. Radio Callao, Callao (666)
- RW35 10. Astrakhan, USSR (598)
- XGOH .15 Changsha, China
- XHKB .1 Tengchow, China.
- ZLZ 1. Hobart, Ausl.
- Elizabeth St. Mon. to Fri. 830-1030; 1200-1530; 1630-1800; 1900-1000; Sat. 830-1000; 1230-1300; Sun. 1200-300; 1630-1830; 1915-2400
- ..... 120. Vienna, Aust. (592)
- Wein No. 1, Johannesgrasse No. 4B.
- Daily 310-1900 EST

### 600 (499.7)

- CNR 25. Rabat, Mor. (601)
- Radio Maroc, Office Cheriffien des Postes et Telegraphes.
- FJP .5 Noumea, New Caledonia.
- JONG .5 Miyazaki, Japan (CP)
- PRH2 25. Porto Alegre, Brz. (now building)
- RW82 2.5 Frounze, USSR. (608)
- SBD 10. Sundsvall, Swe. (601)
- XMHA 1. Shanghai, China.
- ZTC 10. Cape Town, S. Af.
- 4QN 7. Clevedon, Ausl.

### 610 (491.5)

- CX4 1. Montevideo, Uru. Direccion de Agronomia, Millan, 746; 10-12; 17-19
- IIFI 20. Florence, I. EIAR Stazione di Firenze. Weekdays 130-1730; Sun. 310-1730 EST
- JODK2 10. Seoul, Ko.
- KZRM 50. Manila, P. I. (618.5) Daily 600-2300
- RW18 1. Pratiorsk, USSR
- RW22 10. Oufa, USSR. (617)
- RW50 2.5 Oust Abakansk, USSR (617)
- RW79 10. Murmansk, USSR.
- XGSS .015 Tsunshi, Chn.
- ZFC 3. Sydney, Ausl. 96 Market St. Mon. to Fri. 830-930; 1100-

- 1300; 1330-1530; 1630-1745; 1900-100; Sat. 830-930; 1100-1830; 1900-100; Sun. 1130-1345; 1630-1815; 1930-2400

### 620 (483.6)

- CB62 1. Santiago, Chl. Radio Chilena.
- CT1AA 20. Lisbon, Por. (629) Emissora Nacional. Daily 700-1900 EST
- JOTK .5 Matsuye, Jap. (625)
- LKT 20. Trondelag, Nor. (629)
- LV3 2. Cordoba, Arg.
- RW31 10. Ivanovo, USSR. (625)
- XHHK .1 Shanghai, China
- 4ZP .1 Invercargill, N. Z. R. T. Parsons, 155 Layard St. N.
- No. 1 15. Brussels Belg. la Rue du Bastion Weekdays 655-1800; Sun. 445-1900 EST
- ..... 20. Cairo, Egypt.

### 630 (475.9)

- JODG .5 Hamamatsu, Jap. (635)
- LS3 5. Buenos Aires, Arg. Radio Mayo, Callao 1526
- OKP 120. Praha, Cz. (633) The Radio Journal, Praha, Cz. Daily 0030-1730 EST
- RW28 .8 Vladivostok, USSR. (635)
- RW32 10. Vladivostok, USSR. (635)
- RW84 1.2 Oust-Abakansk, USSR. (635)
- 3AR 4.5 Melbourne, Ausl. 120A Russel St., Mon. to Fri. 830-1100; 1300-1900; 1930-2400; Sat. 830-1100; 1300-1900; 1930-130; Sun. 1225-1630; 1810-2230

### 640 (468.5)

- CB64 1. Vina del Mar, Chile. La Union, Av. Portales 528
- CC64 .1 Concepcion, Chile. El Sur, Freyre 799
- JOUK .3 Akita, J. (645)
- RW29 10. Petrozavodsk, USSR. (648)
- RW56 1.2 Penza, USSR.
- YN 90. Lyons, F. (648). La Doua (testing) Daily 215-1800 EST
- ZEK .5 Hong Kong, Chn. GMT Mon., Thurs., Sat., from 12:30. The Secretary, Hong Kong.

FOREIGN B. C. STATIONS BY FREQUENCIES

Erdestg. Com., P. O.  
Box 200,  
Johannesburg, S. Af.  
(645)  
5CK 7.5 Crystal Brook, Ausl.  
Relays 5CL Mon. to  
Fri. 9-10; 1230-1600;  
17-1830; 1930-130; Sat.  
9-1030; Sun. 1230-  
1530; 17-19; 1945-0030  
Shanghai, Chn.

650 (461.3)

CX6 10. Montevideo, Uru.  
Estacion Oficial, Mar-  
tin Fierro 2603. 12-  
14; 17-23  
JOCG 3 Asahigawa, J. (655)  
Pres. NBC, Hokkaido  
Asahikawa Branch,  
EST Daily 11 p.m.-  
7:30 a.m.  
JQAK 5 Dairen, Mnch. (652)  
IYA 10. Karangahape Rd.  
Mon. to Sat. 7-9; 10-  
23; Sun. 9-1215; 13-  
1630; 18-22  
100. Cologne, G. (658)  
Dagoberstrabe No. 38  
Daily 0000-1800 EST

660 (454.3)

XGOA 75. Nanking, Chn.  
RW38 2. Alexandrovsk USR.  
(662)  
7BU Burnie, Ausl.  
20. Jerusalem, Pal. (668)  
70. Manchester, G. B.  
(668) North Regional  
Weekdays 515-1900;  
Sun. 730-1745 EST

670 (447.5)

JFAK 10. Taihoku, For.  
LS4 7. Buenos Aires, Arg.  
Radio Portena, Bel-  
grano 1841  
MTFY 3. Harbin, Mnch. (674)  
RW23 1. Groznyl, USR. (676)  
YV6RV 35. Valencia, Vnz.  
2CO 1. Corowa, Ausl.  
Relays 3LO and 3AR.  
Mon. to Fri. 830-13;  
1330-1530; 1630-1745;  
19-1; Sat. 830-1030;  
1130-13; 1330-1830; 19-  
100; Sun. 1130-1345;  
1430-1815; 1930-2400  
100. Sottens, Swi. (677)  
Report to PTT Berne,  
Speichergrasse No. 6.  
Weekdays 630-1630;  
Sun. 355-1630 EST

680 (440.9)

CW27 15 Salto, Uruguay. Er-  
nesto Popelka  
HJN 5 Bogota, Col. (681)  
JOLK 5 Fukuoka, J.  
JOVK 5 Hakodate, J.  
LKD 5 Bodo, Nor. (686)  
RW17 10. Kazan, USR. (686)  
RW27 4. Makhatch, USR (689)

RW46 1.2 Karaganda, USR.  
(685.5)  
RW71 1.2 Petropavlovsk, USR.  
(685)  
RW74 1.2 Tcheboksary, USR.  
2.5 Belgrade, Yug. (686)  
1.5 Salisbury, S. Af.  
(681.9)

690 (434.5)

CX8 .5 Montevideo, Uru.  
Ramon Puyal, Caigua  
3710  
LV6 .5 Mendoza, Arg. Radio  
Prov. de Mendoza.  
XGOY .25 Kunming, China.  
6WF 3.5 Perth, Ausl.  
Hay St. Mon. to Fri.  
1030-1230; 1400-1730;  
1830-20; 21-3; Sat.  
1030-12; 1430-3; Sun.  
14-17; 1830-2030; 2115-  
200  
120. Paris, F. (695) PPTT  
Daily 300-1800 EST

700 (428.3)

JOKK .5 Okayama, J.  
PRA7 .05 Sao Paulo, Brz., Rua  
Tibirica 26 (706)  
RW48 2.5 Elista, USR. (704)  
SBA 55. Stockholm, Swe. (704)  
Weekdays 145-1700;  
Sun. 3-17 EST  
VPE 1.75 Colombo, Cey. (705)  
XNMHC .5 Shanghai, Chn.  
ZP15 Villarrica, Par.  
2NR 7. Lawrence, Ausl.

710 (422.3)

11RO 50. Rome, I. (713)  
Weekdays 130-1730;  
Sun. 335-1730 EST  
JOJK 3. Kanazawa, J.  
LS1 5. Buenos Aires, Arg.  
Radio Municipal,  
Teatro, Colon  
RW16 10. Samara, USR.  
XGML .0075 Kashing, Chn. (714.3)  
XGOS 1. Chunking, Chn. (711)

720 (416.4)

JFBK 1. Tainan, For.  
Kochi, J. Mr. Mat-  
suo, Mgr., EST Daily  
10:15 p.m.-7:30 a.m.;  
Sun., 10:30 p.m.-7:30  
a.m.  
PRF2 .25 Rio Claro, Brz. (725)  
Radio Club of Rio  
Claro  
PRG5 .75 Santos, Brz. Radio  
Atlantica  
RW9 36. Kiev, USR. (722)  
XLHC .05 Shanghai, Chn.  
XLHD .05 Shanghai, Chn.  
3YA 10. Christchurch, N. Z.  
Gloucester St. Mon.  
to Sat. 7-9; 10-23;  
Sun. 9-1215; 13-1630;  
1730-22  
8GF 2. Kalgoorlie, Ausl.

730 (410.7)

CB73 1. Santiago, Chile. UI-  
timas Noticias. Compa-  
nia 1258  
CX10 1. Montevideo, Uru.  
Internacional Brd-  
cstg. Industria 2840;  
11-15; 16-24  
EAJ2 3. Madrid, Sp. (731)  
Radio-Espana  
EAJ5 5.5 Seville, Sp. (731)  
Daily 230-1630 EST  
JOSK 1. Kokura, J. (735)  
LVI 1. San Juan, Arg. Radio  
Graffigna, C. de  
Correo 44  
RW65 1. Saransk, USR. (734)  
XHGS .05 Wuchow, Chn.  
5CL 2. Adelaide, Ausl.  
Hindmarsh Square.  
Same Schedule as  
5CK, 640 kc.  
20. Tallin, Est. (731)

740 (405.2)

OFD 1. Pori, Fin. (749)  
PRE6 1.5 Uberaba, Brz.  
RW64 10. Ordjonikidze, USSR.  
(749)  
XHBB .05 Shanghai, Chn.  
2BL 3. Sydney, Ausl.  
96 Market St. Mon.  
to Fri. 830-1100; 13-  
19; 1930-2400; Sat.  
830-11; 13-19; 1930-  
130; Sun. 1225-1630;  
18-2330  
100. Munich, G., Funk-  
haus Rundfunkplatz  
No. 1  
Daily 0000-1800 EST  
120. Marseilles, F. (749) PTT  
Daily 245-17 EST  
2. Sortavala, Fin. (749)

750 (399.8)

HS7PJ 15. Bangkok, Siam  
JOBK1 10. Osaka, J.  
LR7 15. Buenos Aires, Arg.  
Radio del Estado  
LUHO .02 T'ung Hsien, Chn.  
OAX4A 1.5 Lima, Peru. Daily 11  
a.m.-1 p.m.; 6-7; 9-11  
p.m.  
PRA2 1.5 Rio de Janeiro, Brz.  
Rua da Carcoza 45  
PRA8 3. Pernambuco, Brz.  
Ave. Cruz Cabuga 394  
RW64 10. Urjonikidze, USR.  
(752)  
XGOK 1. Canton, Chn.  
XQKB .15 Tientsin, China  
YVARC 1. Caracas, Vnz.  
ZTD 1.5 Durban, S. Af.  
7NT 7. Kelso, Ausl. Same  
schedule as 7ZL, 590  
kc.  
12. Katowice, Pol. (758)  
10. Maritzburg, S. Af.

760 (394.5)

CB76 10. Valparaiso, Chl. Co-  
op. Vitalicia, Agus-  
tina 1253, 9 Piso

## FOREIGN B. C. STATIONS BY FREQUENCIES

PRD9 .25 Sorocaba, Brz. (769)  
Radio Soc. Sorocaba  
RW78 3. Ijevsk, USR. (767)  
XLHI .0075 Shanghai, Chn.  
XLHJ .015 Shanghai, Chn.  
2YB .1 New Plymouth, N. Z.  
Empire Bldg., King  
St. Mon. 19-22; Wed.  
1830-22; Sat. 1330-17;  
1830-22; Sun. 18-22  
..... 50. Falkirk, G. B. (767)  
Scottish Regional  
Weekdays 515-19;  
Sun. 730-1730 EST

### 770 (389.4)

CX12 1. Montevideo, Ur.  
Radio Westinghouse,  
Itacabo 2620; 10-23  
Sendai, J.  
LKF 1. Frederikstad, N. (776)  
RW28 10. Stalino, USR. (776)  
VUM .2 Madras, In.  
3LO 3.5 Melbourne, Ausl.  
120A Russel St. Mon.  
to Fri. 830-930; 11-13;  
1330-1530; 1630-1745;  
19-1; Sat. 830-930; 11-  
1830; 19-1; Sun. 1130-  
1345; 1630-1815; 1930-  
24  
..... 2. Toulouse, F. (776)  
PTT Daily 330-1730  
EST

### 780 (384.4)

CB78 1. Santiago, Chile. Co-  
operative Vitalicia,  
Agustina 1253, 9 piso  
JOPK .5 Shizuoka, J.  
KZEG 1. Manila, P. I.  
Daily 8-20  
LT1 4. Rosario, Arg. Radio  
Litoral, Cordoba 1049  
Sao Paulo, Brz. (788)  
PRE7 5. Radio Cosmos, Praca  
Marechal Deodora 52  
Shanghai, Chn.  
XLHA .05 Leipzig, G. (785)  
..... 120. Temporarily on low  
power.  
Daily 00-18 EST

### 790 (379.5)

EAJ1 7.5 Barcelona, Sp. (795)  
Union Radio. Daily  
215-19 EST  
JOGK 10. Kumamoto, J.  
LR10 10.25 Buenos Aires, Arg.  
Radio Cultura, Bel-  
grano 1841  
RW51 1. Naitchik, USR. (794)  
XLIJ .05 Wusih, China  
ZTB .5 Bloemfontaine, S. Af.  
4YA 10. Dunedin, N.Z. Stuart  
St.  
..... 16. Lwow, Pol. (795)  
Polskie Radio SA,  
Rozglosnia w Lwowie  
Daily 1-18 EST

### 800 (374.8)

JOKG .5 Kofu, Japan. (CP)  
PRB7 .5 Rio de Janeiro, Brz.  
XLHK .0075 Shanghai, Chn.

XLHL .1 Shanghai, Chn.  
4QG 2.5 Brisbane, Ausl. State  
Insurance Bldgs.  
Mon. to Fri. 830-1030;  
12-1530; 1630-18; 19-1;  
Sat. 830-10; 1230-1;  
Sun. 12-15; 1630-1830;  
1915-24  
..... 70. Cardiff, G. B. (804)  
West Regional  
Weekdays 515-1900;  
Sun. 730-1745 EST

### 810 (370.2)

CX14 5. Montevideo, Uru.  
El Espectador Ltd.,  
Lanus 5760, 10-24  
11MI 50. Milan, I. (814)  
Radio Milano, Corso  
28, Ottobre 102, Mi-  
lano 134  
Weekdays 130-1730;  
Sun. 330-1730 EST  
JOCK1 10. Nagoya, J.  
PRA6 10. Sao Paulo, Brz. (815)  
Radio Educadora  
Paulista. Rua Jose  
Bonifacio 12  
VUC 3. Calcutta, In.  
XQKC 2. Tientsin, China

### 820 (365.6)

CB82 1. Santiago, Chl. El  
Diario Ilustrado,  
Moneda 1158. 9-10;  
12-14; 16-1830; 20-24  
CW23 .25 Salto, Uruguay. Mo-  
desto Llantada  
LV7 1. Tucuman, Arg.  
G. Acha Munoz y Cia.  
Mendoza 437  
PRH8 5. Rio de Janeiro, Brz.  
Radio Ipanema  
Tientsin, Chn.  
XLKB .055 Napier, N. Z.  
ZZH .065 C. B. Hansen & Co.,  
59 Latham St., Mon.,  
Tue., Fri., 12-14; 19-  
22; Wed. 12-14; 1830-  
2230; Thu. 12-14; Sat.  
10-17; 19-23; Sun. 12-  
15; 1830-22  
..... 12. Bucharest, Ru. (823)  
Weekdays 6-1730;  
Sun. 430-1830 EST

### 830 (361.2)

JOIK 10. Sapporo, J. T. Okada,  
Chf. Engr. EST Daily,  
4 a.m.-7:30 a.m.  
LR5 29. Buenos Aires, Arg.  
Radio Excelsior, Mal-  
pu 462  
RW39 100. Moscow, USR. (832)  
Inna Marr, Esq.  
Moscow-Stalin Radio  
Station.  
Daily 9-1630 EST  
XGF .0075 Tsinan, Chn. (833)  
XLII .03 Wuhu, Chn.  
3GI 7. Longford, Ausl.

### 840 (356.9)

CB84 .1 Talcahuano, Chile.  
Francisco Morales,  
Aldea 96

F31CD 12. Saigon, Indo.  
Cie Generale de Tele-  
graphie sans Fil, P. O.  
Box. 238  
LT8 .5 Rosario, Arg.  
Julio Blomberg, Sar-  
miento 958  
PRA4 .05 Bahia, Brz. Radio  
Soc. da Bahia  
XGTM .015 Chang-sha, Chn.  
XMHD 1. Shanghai, Chn.  
ZBW 2. Hongkong, C. (845)  
The Secretary, Hong  
Kong Brdctsg. Com.,  
P. O. Box 200.  
2YC .25 Wellington, N. Z.  
Featherstone St.  
..... 100. Berlin, G. (841)  
Radio Reichssender,  
Berlin Brdctsg. House  
Daily 0000-1800 EST

### 850 (352.7)

CX16 10. Montevideo, Ur.  
SADREP, Av. S. Mar-  
tinez 13500  
EAJ3 3. Valencia, Sp.  
HSP1 2.5 Bangkok, Siam (856)  
JOFK 10. Hiroshima, J.  
LKA .35 Aalesund, Nor.  
LKB 1. Bergen, Nor.  
LKP 1. Porsgrund, Nor.  
PRB3 .25 Juiz de Fora, Brz.  
(857)  
Radio Soc. de Juiz de  
Fora, Parque Halfeld  
Simferopol, USR.  
(859)  
RW73 10. Nairobi, Ken. (858)  
VUB 3. Bombay, In. (855)  
XLIQ .05 Hangchow, China  
XQHB 1. Shanghai, Chn.  
5RM 1. Renmark, Ausl.  
River Murray Brd-  
casters, Ltd., 29 Run-  
dle St., Adelaide  
..... 1. Sofia, Bul.  
..... 35. Strasbourg, F. (859)  
Radio Strasbourg  
PTT, 30 Rue de 22  
Nov. Weekdays 545-  
19; Sun. 1630-19 EST

### 860 (348.6)

PRA3 2.5 Rio de Janeiro, Brz.  
Radio Club de Brasil,  
Rua Betancourt da  
Silva 21  
XGOF .5 Tsinan, China.  
XHHD .05 Shanghai, China.  
7HO 1. Hobart, Ausl. 82 Eliz-  
abeth St.  
..... 16. Poznan, Pol. (868)  
Daily 1-18 EST

### 870 (344.6)

JOAK1 10. Tokyo, J. M. Toma-  
becio, EST Daily 4  
a.m.-7:30 a.m.  
LR6 26. Buenos Aires, Arg.  
La Nacion, Florida 347  
RW85 2. Igarka, USR. (871)  
XLIL .075 Suchow, Chn.  
2GB 1. Sydney, Ausl. "The  
Nation's Station".  
Adyar House, 29  
Bligh St., Mon. to

FOREIGN B. C. STATIONS BY FREQUENCIES

..... 70. Sat. 830-1; Sun. 930-1330; 1415-24  
 London, G. B. (877)  
 London Regional.  
 Weekdays 515-1930;  
 Sun. 730-1745 EST

880 (340.7)

LV2 2. Cordova, Arg. Radio Central, San Lorenzo 339  
 PRB2 .25 Curitiba, Brz. (882) Radio Club Paranaense  
 RW61 1. Iochar-Ola, USR. (888)  
 VUD 20. Delhi, India. (882)  
 XHHV .1 Shanghai, Chn.  
 YV3RC .1 Caracas, Venz. (882)  
 1YX .15 Auckland, N. Z.  
 6PR .5 Perth, Ausl.  
 Barrack St., Mon. to Sat. 1030-12; 14-1530; 21-2; Sun. 2330-130  
 Daily 310-19 EST  
 ..... 7. Graz, Aust. (886)  
 Daily 310-19 EST  
 ..... 15. Linz, Austria (886)  
 ..... Suva, Fiji

890 (326.9)

CB89 1. Santiago, Chile. Otto Becker, Ahuamada 113  
 CX18 1. Montevideo, Uruguay Difusora El Espectador, Ltda., Olimar 1364  
 JOLG .5 Tottori, Japan. (CP)  
 MTBY 1. Mukden, Mnch.  
 OFA 10. Helsinki, Fin. (895)  
 XGKA .015 Kasking, Chn. (895)  
 ZP9 1.5 Asuncion, Par. (898)  
 ..... 5. Limoges, F. (895)

900 (333.1)

CB90 1. Valparaiso, Chile, El Murcurio de Val., Casino de Vina del Mar.  
 JODK1 10. Seoul, Korea  
 KZIB 1. Manila, P. I.  
 Daily 10-20  
 LU2 2. Bahia Blanca, Arg. Radio Bahia Blanca.  
 Sao Paulo, Brz. (CP 60 kw) Radio Difusora Sao Paulo.  
 PRF3 5.  
 XG01 5. Shanghai, China.  
 2ZP .105 Wairoa, N. Z.  
 E. A. Perry, 128 Queen St. Tue. 7-9; 18-2230; Wed. to Sat. 7-9; Sun. 730-930.  
 3MA .05 Mildura, Ausl.  
 22 Deakin Ave. Mon. to Thu. 9-10; 12-13; 1930-24; Fri. 9-10; 12-13; 1930-0030; Sat. 9-10; 1930-0030; Sun. 1230-1530; 1945-2330.  
 4WK .05 Warwick, Ausl.  
 King and Albion Sts. Daily 1230-1530; 19-2330.  
 ..... 100. Hamburg, G. (904)  
 Radio Reichsender Hamburg. Daily 00-18 EST

910 (329.6)

LR2 12. Buenos Aires, Arg. Radio Argentina, Bolivar 1356  
 RW30 10. Dnepropetrovsk, USR., (913)  
 XLIM .05 Hanim, Chn.  
 4RK 2. Rockhamton, Ausl. Relays 4QG. Same schedule as 4QG, 800 kc.  
 ..... 60. Toulouse, F. (913)  
 Villa Schmidt, Rue Montle. Daily 3-1930 EST

920 (325.9)

JOQK .5 Niigata, J.  
 OKB 32. Brno. Cz. (922)  
 Daily 0030-1730 EST  
 PRC3 .25 Pelotas, Brz.  
 Soc. Radio Pelotense  
 PRF4 10. R'de Janeiro, Brz. (923). Soc. Anonima "Journal do Brasil"  
 XHHX 1. Shanghai, Chn.  
 2ZR .03 Nelson, N. Z.  
 Trafalgar St. Temporarily silent.

930 (322.4)

CB93 3. Santiago, Chile. Huke, Providencia 1022  
 CX20 2. Montevideo, Uru. Radio Moncarario, Humberto I No. 3. 11-1430; 16-24  
 JOAG .5 Nagasaki, J.  
 PRD2 1. R'de Janeiro, Brz. (932) Soc. Radio Cruzeiro do Sul; Rua Mariz e Barros 270  
 RW55 1. Engels, USR. (932)  
 VUG 1. Delhi, India  
 3UZ .65 Melbourne, Ausl.  
 45 Bourke St. Mon. to Thu. 830-1530; 1645-100; Fri. 830-16; 1645-100; Sat. 830-1330; 1930-130; Sun. 1130-1400; 1915-2330  
 No. 2 15. Brussels, Belg. (932)  
 Weekdays 7-19; Sun. 5-19 EST

940 (319)

JONK .5 Nagano, J. K. Yanada, Dir. EST Daily 4-1930  
 PRE4 .25 Rio de Janeiro, Brz. (941). Soc. Radio Cultura "A Voz do Espacao"  
 SBB 10. Goteborg, Swe. (941)  
 Weekdays 145-17; Sun. 3-17 EST  
 XHHE .1 Shanghai, Chn.  
 3ZR .175 Greymouth, N. Z.  
 ..... 12. Algiers, Alg. (941)  
 Radio PTT du Govt. Gen., Rue Berthezene, Alger, Algeria, N. Af.  
 Daily 8-18 EST

950 (315.6)

LR3 31. Buenos Aires, Arg. Radio Belgrano, Belgrano 1841  
 PP 60. Paris, F. (959)  
 Poste Parisien, 4 Rue du General-Foy. Daily 210-18 EST  
 PRF8 .5 Bahia, Brz. (959) Radio Commercial da Bahia  
 RW40 1. Gomel USR. (959)  
 RW54 1. Gomel, USR. (959)  
 XGOP .3 Peiping, Chn.  
 ZTP .5 Pretoria, S. Af. (952)  
 2UE 1. Sydney, Ausl. Rex Shaw, 296 Pitt St., Mon. to Fri. 730-1230; 16-1; Sat. 730-1230; 1500-130; Sun. 930-1330; 1815-0030.  
 ..... 100. Breslau, G. Schlesische Funkstunde, GMBH, Breslau 18  
 Daily 23-18 EST

960 (312.3)

CC96 .1 Curico, Chile. Merced 11  
 JOOK .3 Kyoto, J.  
 PRB4 1. Santos, Brz. Radio Club de Santos, Rua de Pedro II 16.  
 RW13 10. Odessa USR. (968)  
 XHHF .1 Shanghai, Chn.  
 YV1RC 5. Caracas, Venz. (961)  
 Brdctsg. Caracas, Apt de Correos 2009. Sun. 9-23; Weekdays 16-2230  
 2ZF .15 Palmerston, N. Z.  
 King St.  
 5DN .3 Adelaide, Ausl.  
 29 Rundle St., Mon. to Fri. 915-115; Sat. 915-15; 20-115; Sun. 845-0015.  
 ..... 2.5 Bordeaux-sud-Ouest, France (968)

970 (309)

CB97 1. Santiago, Chile.  
 Siam, Bolivar 1551  
 CX22 .25 Montevideo, Uru.  
 Fada Radio, Larranga 278. 1030-1530; 17-23  
 JOBG .5 Maebashi, J.  
 XHIB .075 Wusih, Chn.  
 3BO .2 Bendigo, Ausl.  
 Kangaroo Flat. Mon. to Fri. 1230-1500; 19-24; Sat. 1230-24; Sun. 1130-1430; 2030-2330  
 ..... 100. Belfast, G. B. (977)

980 (305.9)

IIGE 10. Genoa, I. (986) EIAR Stazione di Genova. Weekdays 130-1730; Sun. 310-1730 EST  
 JOXK 5. Tokushima, J. T. Tsutsumi, Chf. Engr. EST Daily 2205-730; Sun., 2230-730  
 OAX4E .05 Lima, Peru, Juan P



FOREIGN B. C. STATIONS BY FREQUENCIES

**PRC6** 1. **Goincochea, Jiron**  
Ocona No. 158  
R'de Janeiro, Brz.  
Soc. Radio Philips,  
Rua Sacadura Cabral  
43

**XMHB** .5 **Shanghai, Chn.**  
**2LV** .1 **Invernal, Ausl.**  
**2ZJ** .2 **Gisborne, N. Z.**  
229 Gladstone Rd.  
Northam, Ausl.  
Mon. to Sat. 10-12;  
1530-1730; 21-2; Sun.  
1330-1730; 1830-2030;  
2130-130

..... 24. **Torun, Pol. (986)**  
(Testing)

**990 (302.8)**

**JOFG** .3 **Fukui, J.**  
**LR4** 16. **Buenos Aires, Arg.**  
Radio Splendid, Cal-  
lao 1526. Daily 11-24

**PFBI** 60. **Hilversum, Hol. (995)**  
Hoir Radio Hilver-  
sum, Ouden, Engweg,  
4. Daily 310-1810 EST

**XGCK** .075 **Chuching, Chn.**  
**XGOD** 1. **Hangchow, Chn.**  
**2GZ** 2. **Orange, Ausl.**

**1000(299.8)**

**HJ3ABH** 2. **Bogota, Col. (1005)**  
"La Voz. de La Vic-  
tor", Aptdo 565, Sun.,  
12-14; 16-21; Wednes-  
days 1130-14; 18-23

**OKR** 13.5 **Bratislava, Cz. (1004)**  
Daily 0030-1730 EST

**PRA9** 1. **Rio de Janeiro, Brz.**  
Radio Soc. Mayrink  
Veiga 17

**PRB8** .05 **Mogy das Cruzes, Brz.**  
**XGMK** .015 **Poatung, Chn. (1005)**  
**XGOT** .05 **Taiyuan, Chn.**  
**ZP3** .3 **Asuncion, Par.**  
**4GR** .5 **Toowoomba, Ausl.**  
Ruthven St. Mon. to  
Fri. 8-1530; 19-2230;  
Sat. 8-1130; 1930-2330;  
Sun. 1130-1430; 030-  
2330

**1010(296.9)**

**CB101** 1. **Santiago, Chile.**  
Radio Mayo, Bander  
154

**CX24** 2.5 **Montevideo, Uruguay**  
SADREP, Las Rozas  
756

**PRB9** 5. **Sao Paulo, Brz. (1017)**  
Radio Soc. Record,  
Praca da Republica 17

**RW86** 5. **Tchernigov, USR.**  
(1013)

**XGOW** 5. **Hangkow, Chn.**  
**3HA** .3 **Hamilton, Ausl. 37**  
Gray St., "The Age  
Brdcast. Service",  
Mon. to Sat. 830-1030;  
1330-1745; 1915-2400;  
Sun. 1230-1800; 2015-  
0030

**4ZB** .02 **Dunedin, N. Z. 180**  
Rattray St.

**4ZM** .03 **Dunedin, N. Z.**  
McCracken & Wells

**4ZO** .025 **Dunedin, N. Z.**  
Mon. 12-13; 14-15; 20-  
23; Tue., Wed., Thu.,  
12-13; 14-15; 17-18;  
Fri. 12-13; 14-15; 17-  
18; 19-23; Sat. 12-13

..... 70. **Midland Regional.**  
Weekdays 545-1815;  
Sun. 1130-1745 EST

**1020(293.9)**

**EAJ15** 3. **Barcelona, Sp. (1022)**  
**EAJ19** .7 **Oviedo, Sp. (1022)**  
**OBJ** .... **Lima, Peru. Escuela**  
**Militor de Chorrillos.**  
**Shanghai, Ch.**  
**XHHG** .1 **Sydney Ausl. The**  
**2KY** 1. **Block, George St.**  
Mon., Tue., Thu.,  
Fri. 815-1330; 1430-17;  
1745-0030; Wed. 815-  
1330; 14-0030; Sat.  
815-1240; 14-18; 1845-  
0030; Sun. 9-0030

..... 2. **Cracow, Pol. (1022)**

**1030(291.1)**

**CD103** .1 **Magallanes, Chile.**  
Ramon Verde San-  
chez, Mexicana 936  
Paredo, Por. (1031)  
Radio Club Portu-  
guese.

**JBAK** .15 **Fuzan, Korea**  
**LR9** 5. **Buenos Aires, Arg.**  
Radio Fenix, Santa  
Fe 1174

**PRC8** 1. **Rio de Janeiro, Brz.**  
Radio Soc. Guanab-  
ara, Rua 1st de Mayo  
123

**XGOL** .25 **Foochow, Chn.**  
**YV11RMO** .. **Maracaibo, Venz.**  
(1034)

**3DB** .6 **Melbourne, Ausl.**  
36 Flinders St. Mon.  
to Fri. 8-1; Sat. 8-130;  
Sun. 1130-1330; 1530-  
24

..... 100. **Konigsberg, G. (1031)**  
Daily 00-18 EST

**1040(288.3)**

**CP4** 10. **La Paz, Bol.**  
Carlos Lopez Vedola,  
Casilla 637

**CW25** .5 **Durazno, Uru.**  
Artola Evangelisti y  
Cia. 10-13; 18-23

**JOJG** .5 **Yamagata, Japan**  
**RW70** 10. **Leningrad, USR.**  
**XHHH** .1 **Shanghai, Chn.**  
**SPI** 2. **Port Pirie, Ausl.**  
Relays SAD. Mon. to  
Fri. 8-16; 19-1; Sat.  
8-16; 17-1; Sun. 1930-  
24

..... 40. **Rennes-Bretagne, F.**  
Daily 3-1730 EST

**1050(285.5)**

**CX26** 2. **Montevideo, Uru.**  
Radio Uruguay,  
Millan 2370. 9-1430;  
16-23

**IIBA** 20. **Bari, I. (1059) EIAR**  
Stazione di Bari  
Weekdays 130-1730;  
Sun. 335-1730 EST

**JOHG** .5 **Kagoshima, Japan**  
**PRF6** .05 **Bahia, Brazil. Radio**  
**Club da Bahia**

**RW33** 1. **Krasnodar, USR.**  
**XHKA** .2 **Tien-tsin, Chn.**  
**2CA** .5 **Canberra, Ausl. Mon.**  
to Fri. 14-15; 19-2330;  
Sat. 1930-2330; Sun.  
2130-2330

..... 50. **Falkirk, G. B. Scot-**  
**tish National. Week-**  
**days 545-1815; Sun.**  
**1130-1745 EST**

**1060(282.8)**

**CB106** 1. **Santiago, Chi.**  
Sud America, Gol-  
colera 0122-11-13; 17-18

**JOIG** .5 **Toyama, Japan**  
**RW57** 4. **Tiraspol, USR. (1068)**  
**XHHI** .1 **Shanghai, Chn.**  
**2KM** ... **Kempsey, Ausl.**  
**3YB** .025 **Warrnambool, Ausl.**  
**4MB** .05 **Maryborough, Ausl.**  
Wynne's Stn. Mon.  
to Fri. 10-1130; 1330-  
1530; 20-2330; Sat. 10-  
1130; 1330-1530

..... .8 **Paris, F. (1068)**  
Radio-Cite

**1070(280.2)**

**LR1** 50. **Buenos Aires, Arg.**  
Radio El Mundo,  
Maipu 555

**PYG2** 10. **Sao Paulo, Brz. Ra-**  
**dio Tupy Sao Paulo**

**XGOQ** .2 **Honan-fu, Chn.**  
**XKRI** .1 **Canton, Chn. (1071)**  
**6KA** 2. **Katanning, Ausl.**  
Western Ausl.  
Brdcasters., Ltd.

..... 30. **Bordeaux, F. (1077)**  
Boreaux - Lafayette  
Hotel des PTT, 220  
Chemin de Tondou  
Daily 300-1730 EST

**1080(277.6)**

**JOBK2** 10. **Osaka, J. (1085)**  
**JOOG** .5 **Obihiro, Japan (CP)**  
**LT3** 4.5 **Rosario, Arg. (RP)**  
Soc. Rural de Cereal-  
istas, Pte. Roca 770  
Lima, Peru

**OAX4F** .05 **F. W. Castelfano &**  
**Hno. Opens and**  
**closes "Anchors A-**  
**weigh" Daily except**  
**Sun., 15-17 EST**

**SCC** 2. **Falun, Swe. (1086)**  
**XHHJ** .2 **Shanghai, Chn.**  
**ZP7** .7 **Asuncion, Par. (1083)**  
**2AD** .1 **Armidale, Ausl.**  
**3SH** .05 **Swan Hill, Ausl.**  
Mon. to Sat. 14-15;  
2030-24; Sun. 1345-  
1545; 1745-1930; 2045-  
2330

..... .7 **Zagreb, Yu. (1086)**

FOREIGN B. C. STATIONS BY FREQUENCIES

1090(275.1)

- CC109 .1 Rancagua, Chile. Jorge Romero, Independencia 483
- CX28 3. Montevideo, Uru.
- EAJ7 10. Madrid, Sp. (1095) Union Radio Station EAJ7, Apto 745. Daily 3-19 EST
- PRC2 3. Porto Alegre, Brz. Radio Soc. Gaucha, Galerio Chaves
- PRC7 .25 Bello Horizonte, Brz. Soc. Radio Mineira
- RW75 10. Vinnitza, U.S.R. (1095)
- XGOB .25 Loyang, Chn.
- XL10 .02 Shaohing, China
- 1ZB .09 Auckland, N. Z.
- 2RG .05 Griffith, Ausl.

1100(272.6)

- HJ3ABD .05 Bogota, Col. Alford's Radio, Calle 16, No. 5-40
- IINA 1.5 Naples, I. (1104)
- XHHS .1 Shanghai, Chn.
- 4LG .3 Longreach, Ausl.
- 7LA .3 Lancelton, Ausl. 67 Brisbane St. Mon. to Fri. 9-1030; 1330-1530; 19-24; Sat. 9-1030; 16-1830; 19-24; Sun. 1915-2330
- Madona, Lat. (1104) Weekdays 00-1630; Sun. 200-1700 EST

1110(270.1)

- CB111 1. Vina del Mar, Chile. Los Castanos, Av. Castanos 393
- CD111 .1 Magallanes, Chile. Radio Austral, Independencia s/n 20-23
- L55 5. Buenos Aires, Arg. Radio Rivadavia, Callao 1526
- OKK 11.2 Moravska, Cz. (1113) Daily 0030-1730 EST
- XLIG .015 Tsangchow, China
- 2UW 1. Sydney, Ausl., J. M. Prentice, Box 241D, GPO. "At the Cross Roads of Sydney." 24 hours daily.
- ..... 10. Normandie, F. (1113) Fecamp Daily 2-21 EST
- ..... .001 Suchow, Chn.

1120(267.7)

- CD112 .1 Osorno, Chile. David Arriagada, Baquedano 715
- CW29 .05 Mercedes, Uru. Bautista Abba. 1130-13; 1830-2230
- HAE 6.2 Nyiregyhaza, Hung. (1122)
- LV5 .5 San Juan, Arg. Radio Los Andes, G. Acha 362
- OAX41 .. Lima, Peru. Radio Internacional
- PRH3 10. Sao Paulo, Brz. Radio Piratininga

- XLHM .05 Shanghai, Chn.
- XLHN .2 Shanghai, Chn.
- 4BC 1. Brisbane, Ausl., R. F. Roberts, 43 Adelaide St., Mon. to Fri. 8-0030; Sat. 8-11; 1330-0030; Sun. 830-1330; 1630-24
- ..... .5 Alexandria, Eg. (1122)
- ..... 1. Newcastle, G.B. (1122)

1130(265.3)

- CX30 .5 Montevideo, Uru. Radio Nacional, Porvenir 2384. 9-24.
- PRD8 1. Nitheroy, Brz. (1132) Radio Club Fluminense
- SBH 10. Horby, Swe. (1131) Weekdays 145-1700; Sun. 3-17 EST
- XGOC .25 Nan-chang, Chn.
- 2P1 1. Asuncion, Par. (1135)
- 6ML .5 Perth, Ausl. Lyrice House, Murray St. Mon. to Fri. 1030-1230; 1430-16; 21-2; Sat. 1030-1230; 1430-16; 2130-2; Sun. 2230-130

1140(263)

- CB114 1. Santiago, Chile, Chilena Consolidada, E. Llanos 35
- Turin, I. Weekdays 130-1730; Sun. 310-1730 EST
- I1TO 7. Trieste, I.
- I1TR 10. Shanghai, Chn.
- XHHL .1 Newcastle, Ausl. Box 123. Mon. to Fri. 730-1530; 1630-1730; 19-24; Sat. 730-1530; 1630-1730; 19-130; Sun. 1030-1330; 1630-1730; 1830-130
- 4YO .2 Dunedin, N. Z.
- ..... 20. London National, G. B. (1149)
- ..... 20. North National, G. B. (1149) Weekdays 545-1815; Sun. 1130-1745 EST
- ..... 20. West National, G. B. (1149) Same as North National

1150(260.7)

- HC2ET .3 Guyaquil, Ec. (1153)
- HJ1ABM .05 Cartagena, Cib. (1154)
- LR8 7. Buenos Aires, Arg. Radio Paris, Cangallo 850
- OAX4H .. Lima, Peru. Radio Davila, Apto. 373
- XGOZ 1. Chinking, Chn.
- YV7RMO .5 Maracabie, Venz. (1153)
- 2WG .2 Wagga, Aus. 16 Fitzmaurice St. Mon. to Sat. 930-1030; 1330-1530; 1930-24; Sun. 2130-2330
- 2ZM .015 Gisborne, N. Z. Mon., Tue., Wed., Fri.,

- Sat. 915-1015; Thu. 915-1015; 20-2230; Sun. 19-22
- ..... 2.6 Kosice, Poland (1158)

1160(258.5)

- CB116 .1 Valparaiso, Chile. Radio Valparaiso, Prat 773
- CW31 .25 Salto, Uru. Salvador E. Pera. 9-1230; 16-23
- LT5 .5 Resistencia, Arg. Radio Chaco, Av. 9 de Julio
- XHHU .1 Shanghai, Chn.
- 2KA .1 Katoomba, Ausl. 80 Market St.
- 4MK .1 Mackay, Ausl. 64 Nelson St., Mon. to Fri. 11-1230; 15-19; 20-0030; Sat. 11-19; 20-0030; Sun. 1130-14; 1630-1830; 20-23
- ..... 15. Mte. Ceneri, Sw. (1167) Report to PTT Berne, Speighergrasse No. 6 Weekdays 6-17; Sun. 430-1630 EST

1170(256.3)

- CC117 .1 Concepcion, Chile. Zenith, Rolando Beckdorf, Av. Argentina 977
- CX32 .5 Montevideo, Uru. Radio Marconi, Gen. Hornos 537. 10-2
- JOCK2 10. Nagoya, J. (1175)
- PRB6 1. Sao Paulo, Radio Cruzeiro do Sul, Largo da Misericordia 4 Campinas, Brz. (1175) Radio Educadora di Campinas
- PRC9 .25
- XLIE .05 Wusih, Chn.
- 2NZ 2. Narrabri, Ausl.
- 2ZD .005 Masterton, N. Z. W. D. Ansell, 7 Rimu St. Daily 20-22. Relays 2YA Tue., Fri., Sat., 2YA Tue., Fri., Sat., 2YA Tue., Fri., Sat., 2YA Tue., Fri., Sat.
- 4TO .2 Townsville, Aus. Mon., Tue., Thu., Fri. 9-1; 1330-1530; 1930-2345; Wed., Sat., 9-10; 15-19; 1930-2345; Sun. 2030-2330
- ..... 10. Cophgen., Den. (1176) Strats Radio Fonien Heibergsgrade No. 7

1180(254.1)

- CB118 1. Santiago, Chile. Radio Bayer, Portal Fernandez Co. 960
- RW20 10. Kharkov, U.S.R. (1185)
- XHHZ .15 Shanghai, Chn.
- 3KZ .6 Melbourne, Ausl., S. Morgan, 64 Elizabeth St., "The Brighton Brdcstg. Service." 24 Victoria St. Mon. to Fri. 8-1530; 16-18 1830-100; Sat. 8-1215;

FOREIGN B. C. STATIONS BY FREQUENCIES

1345-230; Sun. 16-18;  
1930-24  
..... 60. Nice-Corse, France  
(1185)

1190(252)

LS2 30. Buenos Aires, Arg.  
Radio Prieto, Bolivar  
1356  
OAX4H .. Lima, Peru. Radio  
Zenith, Casa Davile  
XLKA .03 Peiping, Chn. (1194)  
2CH 1. Sydney, Ausl.  
77 York St., Mon. to  
Fri. 830-15; 1630-0030;  
Sat. 830-14; 1445-0030;  
Sun. 12-14; 16-2330  
..... 25. Frankfurt, G. (1195)  
Eschersheimer Landstr-  
trabe No. 33  
Daily 00-20 EST  
..... 5. Freiburg, Ga. (1195)  
..... .5 Kaiserslautern (1195)  
..... 2. Trier, G. (1195)  
..... .5 Cassel, G. (1195)  
..... 2. Coblenz, G. (1195)

1200(249.9)

CB120 1. Valparaiso, Chile.  
Chilena Consolidada,  
Edwards 383  
HJ3ABE 1. Bogota, Cib., Uribe  
y Moreno, P. O. Box  
317.  
LT9 .5 Santa Fe, Argentina.  
Radio Roca Soler  
OAX4B .25 Lima, Peru  
PRD3 .25 Taubate, Brz. (1207)  
Soc. Radio Banderi-  
ante  
XHHN .1 Shanghai, Chn.  
YV3RC 3. Caracas, Vnz.  
Bajos Pasaje Ramella  
Lahore, India.  
VUL .1 Christchurch, N. Z.  
3YL .25 Adelaide, Ausl.  
5KA .3 Richards Bldg., Mon.  
to Fri. 830-1; Sat. 830-  
2; Sun. 12-14; 17-18;  
1845-200  
No. 2 5. Praha, Cz. (1204)  
..... .. Bangkok, Siam

1210(247.8)

CD121 .1 Osorno, Chile. Radio  
Austral, E. Ramirez,  
2930  
CX34 .5 Montevideo, Uru.  
Radio Artigas, Millan  
2370. 10-16; 18-23  
LV10 .5 Mendoza, Argentina.  
Radio de Cuyo  
OAAA R .025 Lima, Peru  
OAAD .025 Lima, Peru  
XGTM .1 Tengchow, Chn.  
XHKC .1 Tsingtao, China  
XLPH .015 Pinghu, Chn.  
XLTC .015 Wusih, Chn.  
2GF .05 Grafton, Ausl.  
47 York St., Mon. 9-  
10; 1330-1430; 1930-  
2330; Tue. to Sat. 9-10;  
1430-1530; 1930-2330  
6KG .085 Kalgoorlie, Ausl.  
86 Palace Chambers.  
Mon. to Fri. 1430-1630

22-2; Sat. 1730-2030;  
2230-2; Sun. 2315-0130  
..... 60. Lille, F. (1213) Radio  
PTT Nord (testing)  
Daily 3-1730 EST

1220(245.8)

PRE3 10. Rio de Janeiro, Brz.  
Radio Transmissora  
Brasileira  
PRG9 .5 Sao Paulo, Brazil.  
Radio Excelsior.  
XGOT .5 Pei-ping, Chn.  
XQHG .25 Shanghai, China  
4AK 1. Oakey, Ausl.  
Daily 19-0030  
4ZL .1 Dunedin, N. Z.  
243 Macandrew Rd.  
Mon., Thu., Sat. 8-9;  
1930-23; Tue., Wed.,  
Fri. 8-9; Sun. 830-1030  
..... 50. Bologna, I. (1222)  
..... 3 Narvik, Norway (1222)

1230(243.8)

HJ4ABK .3 Medellin, Cib.  
LS8 15. Buenos Aires, Arg.  
Radio Stentor, Flo-  
rida 8  
XLIR .05 Hangchow, China  
2NC 2. Newcastle, Ausl.  
Relays 2FC and 2BL.  
Mon. to Fri. 830-1530;  
1630-1745; 19-100;  
Sat. 830-1030; 1130-  
1830; 19-100; Sun.  
1130-1815; 1930-24  
..... 5. Gleiwitz, G. (1231)

1240(241.8)

CB124 .25 Valparaiso, Chile. A.  
Garcia y Cia., Av.  
Brasil 212  
CW35 .25 Paysandu, Uru.  
Buenaaventura y  
Mahler. 9-13; 17-22  
LU7 2. Bahia Blanca, Argenti-  
na. Radio Ge. San  
Martin, Calle Saro-  
mento 60  
LV-14 .5 La Rioja, Arg.  
Radio Provincia de La  
Rioja  
XHHY .1 Shanghai, Chn.  
2ZL .02 Hastings, N. Z.  
John Holden, 609  
Park Rd.  
3TR .5 Sale, Ausl. A. Gil-  
christ, Raymond St.,  
"Gippsland's Radio  
Station."  
Mon. to Fri. 12-15;  
19-24; Sat. 12-1430;  
1830-24; Sun. 20-24  
6CK 1. Cork, I. F. S.  
6IX .5 Perth, Ausl.  
St. George's Terrace.  
Mon. to Fri. 1230-1430  
2130-230; Sat. 1230-  
1545; 2130-230; Sun.  
17-1830; 2130-200  
..... 2. Orebro, Swe.  
..... 17. Saarbrucken, Germ.  
(1249)  
..... 4. Saffle, Swe.  
..... 2. Varberg, Swe.

1250(239.9)

CX36 .25 Montevideo, Uru.  
Centenario Brdcstg.  
Ignacio Nunez 2133.  
9-14; 17-24  
EAJ8 1. Sn. Sebastian, Sp.  
(1258)  
HC2JB .03 Guyaquil, Ec.  
MABS .035 Siangyuang, Chn.  
OAX4L .1 Lima, Peru. Radio  
Miraflores, Calle  
Manco Capac 347  
PYG8 .25 Bauru, Brz.  
XLIF .075 Wusih, Chn.  
No. 3 1. Rome, I. (1258)  
..... 10. Kuldiga, Lat. (1258)

1260(238)

CB126 1. Santiago, Chi. (1265)  
Consortio Espanol,  
Gran Ave. 2564. 9-10;  
16-17; 21-22  
LT11 .5 Parana, Arg.  
Radio Provincia de  
Entre Rios.  
XHHP .1 Shanghai, Chn.  
I2M .05 Manurewa, N. Z.  
W. Rodgers, Massey  
Rd. Mon. to Fri. 17-  
22; Sat. 13-16; 17-24;  
Sun. 10-18; 19-22  
3WR .05 Shepparton, Ausl.  
High St. Mon. to Fri.  
12-1430; 1930-0030;  
Sat. 12-1430; 2030-2330  
Sun. 2130-2230  
..... 2. Nurnberg, Ga. (1267)

1270(236.1)

LKK .5 Khristiansand, Nor.  
(1276)  
LKS .5 Stavanger, Nor. (1276)  
LS9 6. Buenos Aires, Arg.  
Radio La Voz del  
Aire, Peruz 439.  
OA40 .1 Lima, Peru (1277)  
PRE8 7. Rio de Janeiro, Brz.  
Soc. Radio Nacional  
Rua Buenos Aires 120.  
Tunis, Tun. (1275)  
TUA .5 Wu-hu, Chn.  
XDYF .015 Asuncion, Par. (1275)  
ZP4 .15 Sydney, Ausl., 46 Car-  
rington St. "Double  
D Eucalyptus" Aus-  
tralia House. Mon. to  
Sat. 830-1030; 1430-  
24; Sun. 1230-24  
..... 2. Juan-les-Pins, F.  
(1276) Radio Cote  
d'Azur.

1280(234.2)

PRG3 10. Rio de Janeiro, Brz.  
XHHQ .08 Shanghai, Chn.  
3AW .6 Melbourne, Ausl.  
218 Exhibition St.  
Mon. to Sat. 8-1130;  
1230-3; Sun. 1145-14;  
18-24.  
4ZC .007 Cromwell, N. Z.  
John I. Bilton, Low-  
burn Ferry. Daily  
19-21.  
..... 1. Aberdeen, G. B. (1285)

**FOREIGN B. C. STATIONS BY FREQUENCIES**

..... .25 Dresden, G. (1285)  
 ..... .1 Tientsin, Chn.

**1290(232.4)**

CX38 .5 Montevideo, Uru.  
 PRA5 5. Sao Paulo, Brz. (1295)  
 Radio Club de Sao Paulo, Rua 7 de Abril  
 YG0E 1. Yungning, China  
 4BK .5 Brisbane, Ausl. Mon. to Fri. 830-0030; Sat. 830-0130; Sun. 13-1530  
 1830-24.  
 ..... 5. Dornbirn, Aust. (1294)  
 ..... 4.2 Klagenfurt, Aust. (1294)  
 ..... 6. Vorarlberg, Aus. (1294)

**1300(230.6)**

CB130 1. Santiago, Chile. Mavis, Av. J.D. Canas 565  
 CPX 5. La Paz, Bol.  
 LT10 .1 Santa Fe, Arg. Radio del Inst. Soc. de la Univ. Nac. del Litoral  
 LU6 .5 Mar del Plata, Arg. Radio Altantica.  
 OAX4C .. Lima, Peru, Estacion Radiodifusora DUSA, Calle de Plumeros.  
 PRC4 .05 Ampara, Brz. (1304)  
 XQHC .5 Shanghai, Chn.  
 YV5RMO .15 Maracaibo, Vnz.  
 2TM .05 Tamworth, Ausl. Peel St. Mon. to Sat. 830-1030; 1330-1530; 17-18; 19-2330; Sun. 1330-1530; 1630-1830; 2030-2330.  
 ..... .5 Danzig, Dan. (1303)

**1310(228.9)**

LS7 10. Buenos Aires, Arg.  
 PRE9 .5 Fortaleza, Brz. (1315)  
 Ceara Radio Club  
 SBC 2.5 Malmo, Swe. (1312)  
 SCK .25 Karlstad, Swe. (1312)  
 SCO .25 Norrkoping, Swe. (1312)  
 SCQ .25 Trollhattan, Swe. (1312)  
 5AD .3 Adelaide, Ausl. Weymouth St. Daily 9-108

**1320(227.1)**

CB132 1. Valparaiso, Chile. David Wallace, Esmeralda 1111  
 CD132 .1 Valdivia, Chile. Carlos Kahler, Isla Teja  
 CW39 .1 Paysandu, Uru. Miguel Penna. 1030-1230; 1730-2245  
 HAE2 1.25 Magyarovar, Hun. (1321)  
 HJ3ABK .05 Bogota, Col.  
 XLIA .015 Ningpo, Chn.  
 3BA .05 Ballarat, Ausl. Armstrong and Dana Sts. Mon. to Fri. 9-1145; 1330-1530; 2030-24; Sat. 9-1145; 2030-

0030; Sun. 1430-1630; 20-2330

**1330(225.4)**

CX40 .5 Montevideo, Uru. Radio Fenix, Chayos 4534; 8-24  
 HJ1ABA .1 Barranquilla, Clb., E. J. Pellet B. P. O. Box 751  
 PRE2 .5 R' de Janeiro, Brz. Soc. Radio Cajuti, Rua Conde de Bomfim 457  
 FRG7 .25 Jahu, Brz. Radio Club Jahuense  
 XGSA .001 Kiangyin, Chn. (1335)  
 XLIK .075 Changchow, Chn. Broken Hill, Ausl., 10 O'Connell St., Mon. to Sat. 9-11; 20-0030; Sun. 1230-15; 20-24  
 4RO .05 Rockhampton, Ausl. Mon., Tue., Thu., Fri., Sat. 1930-2330; Wed. 1930-2345; Sun. 2030-2330  
 6MD .5 Merredin, Ausl.  
 ..... 1.2 Montpellier, F. (1339)  
 ..... 2. Bremen, G.  
 ..... 2. Hanover, G.  
 ..... 2. Madgeburg, G.  
 ..... 2. Stettin, G.  
 ..... 2. Flensburg, G.  
 ..... 1.7 Lodz, Pol. (1339)

**1340(223.7)**

CB134 .5 Santiago, Chile. Radio Aliviol, Gumer-sindo 135  
 CW19 .05 Rocha, Uruguay. Juan J. Arispuru y Abel Machado  
 LKR .15 Rjukan, Nor. (1348)  
 LT7 .5 Corrientes, Arg. Radio Provinciade Corrientas  
 OFE .7 Tampere, Finland. (1348)  
 XGED .015 Suchow, Chn.  
 XHHR .05 Shanghai, Chn.  
 2RN 1. Dublin, I.F.S. (1348)  
 2XN .05 Lismore, Aus. P. O. Box 138B. Mon. to Fri. 830-930; 1530-1630; 1930-2330; Sat. 830-930; 1930-2330  
 4ZR .004 Balclutha, N. Z. Renton & Clark, Clyde St. Tue. 1930-20; Thu. 19-20; Sun. 10-12; 1930-2130  
 5MU .1 Murray Bridge, Ausl. Mon. 4. (1348)  
 No. 2 4. Milan, I. (1348)  
 ..... 2. Ile de F., F. (1348)  
 ..... 5. Salzburg, Aust. (1348)  
 ..... 2. Konigsbrg, G. (1348)  
 ..... 5. Cairo, Eg. (1348)

**1350(222.4)**

LKN .15 Notodden, Nor. (1357)  
 L56 6. Buenos Aires, Arg. Radio del Pueblo, Estados Unidos 1816  
 OA6E .03 Arequipa, Peru  
 XQKA .15 Tientsin, China.

3GL .05 Geelong, Ausl. National Mutual Bldg., Mon. 830-1045; 1430-1530; 19-24; Tue., Wed., Thu., 9-1045; 1430-1530; 19-24; Fri. 845-1045; 1430-1530; 19-24; Sat. 9-1045; 1930-0030; Sun. 2030-2335.

**1360(220.4)**

No. 2 .2 Turin, I. (1357)  
 CC136 .1 Rancagua, Chile. Guillermo Espinosa, Milan 767  
 CD136 .1 Magallanes, Chile. Santiago Aguilera, Valdivia 250  
 CW41 .05 San Jose, Uru. Radio San Jose 10-14; 18-23.  
 OA4K .15 Lima, Peru  
 PRC5 .1 Belem, Brz. (1364)  
 PRD4 .25 Radio Club do Para Araraquara, Brs. (1364) Radio Cultura Araraquara, Ave. Feijo 25  
 PRF9 .5 Rio Grande do Sul, Brz. Empresa Radio-difusora Porto Alegre  
 Shanghai, Chn.  
 XQHD .2 Gunnedah, Ausl. P. O. Box 78. Mon. to Sat. 830-1030; 1330-1530; 1930-2330; Sun. 930-1130; 1530-1730; 1930-2330  
 2MO .05  
 4PM .1 Port Moresby, Ausl.  
 No. 2 .1 Turin, I. (1366)

**1370(218.8)**

CX42 1. Montevideo, Uru. Colonial Brdcast. Ave. Italia 3646. 11-24  
 XLID .05 Hangchow, China  
 3HS .05 Horsham, Ausl. 84 Wilson St. Mon., Thu. 1330-15; 20-24; Tue., Wed., Fri. 1330-15; 1930-24; Sat. 1330-15; 20-0030; Sun. 1330-15; 2030-2330  
 ..... .5 Basle, Swi. (1375)  
 ..... .5 Berne, Swi. (1375)

**1380(217.3)**

CB138 5. Santiago, Chile. El Murcurio, Cia. Esq. Morande  
 XLHE .05 Shanghai, Chn.  
 XLHF .05 Shanghai, Chn.  
 4BH .6 Brisbane, Ausl. Parbury House, Eagle St. Mon. to Fri. 830-1030; 1230-1430; 19-0030; Sat. 830-1030; 19-0030; Sun. 1330-1630; 20-24  
 No. 2 2. Warsaw, Pol. (1384)

**1390(215.7)**

CB139 .105 Valparaiso, Chile. Zenith, Atahualpa 816

FOREIGN B. C. STATIONS BY FREQUENCIES

LR11 1. La Plata, Arg. Radio Univ. Nac. de La Plata  
 XLIN .05 Wusih, Chn.  
 2GN .1 Goulburn, Ausl. Auburn St. Mon. to Fri. 1345-1515; 1930-24; Sat. 1330-1430; 1930-24; Sun. 2030-2330  
 ..... 25. Radio-Lyons, F. (1393)

1400(214.2)

CB140 .1 San Antonio, Chile. Vina Santa Rita, Pob. Coop. Victoria, Casa 212  
 CW37 .025 Colonia, Uruguay. N. Gonzales Moreno  
 FFZ .25 Shanghai, Chn.  
 OA6D .15 Arequipa, Peru  
 PRD5 1. R' de Janeiro, Brz. Dpto. de Educacion da Prof. Largo da Carloca 5  
 LXHO .1 Shanghai, Chn.  
 2ZO .1 Palmerston, N. Z. J. V. Kyle, 50 Waldegrave St. Tuc. 1830-22; Thu. 1830-21; Sun. 10-1230  
 ..... .5 Ornskoldsvik, Swe. (1402)  
 ..... 1. Umea, Swe. (1402)

1410(212.6)

CC141 .1 Concepcion, Chi. Radio Phillips, Catholican 370.  
 CX44 .2 Montevideo, Uru. SADREP, Solis Grande 912. 8-2  
 PRB5 .05 Franca, Brz. (1415) Radio Club Hertz  
 PRES .25 Uberaba, Brz. Radio Soc. Triangulo Minero  
 XHIA .06 Chuchow, China  
 2KO .5 Newcastle, Ausl. 57 Hunter St. Mon. to Fri. 830-1730; 1830-24; Sat. 1130-0030; Sun. 1030-1130; 1930-2330  
 ..... .05 Uddevalla, Swe. Portuguese Common Wave (1411)

1420(211.1)

1Z5 .05 Auckland, N. Z.  
 3XY .6 Melbourne, Ausl. Princess Theatre. Mon. to Sat. 8-1530; 1615-01; Sun. 1130-14; 16-24  
 ..... .3 Beziars, F. (1429) Radio-Midi  
 ..... .5 Alexandria, Eg. (1429)  
 ..... .6 Turku, Fin. (1429)  
 ..... 10. Vaasa, Finland, O. Y. Suomen Yleisradio A. B.

1430(209.7)

CC143 .1 Talca, Chile. Radio Atlantida, Enrique Garcia, Molino Sandoval  
 CW25 .5 Durazno, Uruguay, Artola, Evangelisti y Cia.  
 HAE3 1.25 Miskolc. Hung. (1438)  
 PRD7 .25 Sorocaba, Brz. Radio Club Sorocaba  
 RW10 100. Minsk, USR. (1438)  
 2WL .05 Wollongong, Ausl. Russell Yeldon, Wollongong Brdcstg. Co. "Ferranti Products." Mon. to Fri. 12-1330; 20-2330; Sat. 20-2330; Sun. 2030-2230  
 4GY .05 Gympie, Ausl.

1440(208.2)

CB144 .1 Santiago, Chile. Seguros Generales, Moreda 1367  
 CB144A .1 Santiago, Chile. Nacimiento, J. Infanta 2290  
 CB144B .5 Santiago, Chile. Los Cuatro Ases, Roman Diaz 2000  
 CB144C .15 Santiago, Chile. Luis Desmaras Los Leones, Calella 2860  
 LS11 .7 La Plata, Arg. Radio Proa. de Bs. Aires.  
 OA6O .05 Arequipa, Peru (1443)  
 PRG4 .25 Jabotical, Brz. Radio Club Jabotical (1442)  
 XLHQ .03 Shanghai, Chn.  
 2QN .. Deniliquin, Ausl.  
 4IP .05 Ipswich, Ausl. Spanish Common Wave (1447).

1450(206.8)

CX46 1.5 Montevideo, Uru. Radio America, Camino Corrales 2808. 10-24  
 XLIB .015 Suchow, Chn.  
 XOMO .015 Peiping, Chn.  
 2B5 .1 Bathurst, Ausl.  
 4AY .1 Ayr., Ausl.  
 ..... 5. Paris, F. (1456) Eiffel Tower.

1460(205.4)

CB146 .1 San Felipe, Chile. Ilustre Municipalidad, Baquedano 715  
 CW33 .075 Florida, Uruguay. Omar F. Barreiro.  
 HAE4 1.25 Pecs, Hun. (1465)  
 ONAEB .1 Antwerp, Belg. (1465)  
 XQHE .25 Shanghai, Chn.  
 ZP5 .15 Asuncion, Par. (1465)  
 ZUV .3 Ulverstone, Ausl.  
 ..... .1 Courtrai, Belg. (1465)  
 ..... .. Beza, Ausl.

1470(204)

CW43 .1 Lavellaja, Uruguay. B. C. Blanes y I. R. Volante.

XGDZ .001 Changchow, Chn.  
 2BE .1 Bega, Ausl.  
 3ZM .06 Christchurch, N. Z. Green & Younger, 253 Brougham St. Mon. to Thu. 730-10; 17-18; 19-22; Fri. 730-10; Sat. 730-10; 20-24; Sun. 11-14; 17-18; 19-22  
 4CA .1 Cairns, Ausl.  
 ..... .3 Plymouth, G. B. (1474)  
 ..... 1. Bournemouth, G. B. (1474)

1480(202.6)

CW47 .1 Canelones, Uru. Rafael J. Espiga, 11-14; 16-23  
 PRH4 1. Petropolis, Brz.  
 XQHF .2 Shanghai, Chn.  
 2AY .1 Albury, Ausl. John Dower, 47 York St., (Sydney). Mon. to Fri. 1345-1515; 19-24; Sat. 14-1515; 19-0030  
 4BU .1 Bundaberg, Ausl.

1490(201.2)

ON4CE .1 Chatelneau, Big. (1492)  
 XLKS .02 Kashing, Chn.  
 No. 1 .1 Washing, Belg. (1492)  
 2TM .05 Tamworth, Ausl.  
 ..... .1 Binche, Big. (1492)  
 ..... .2 Nimes, F. (1492)  
 ..... .1 Courtrai, Belg.  
 Spanish Common Wave (1492)  
 See EAJ in Index by Calls

1500(199.9)

CB150 1. Santiago, Chile. Markoff Hnos.  
 CX48 1.5 Montevideo, Uruguay Vazquez y Cia., 18 de Julio 1333  
 HJ5ABE .. Cali, Colombia Jose Calderon N, Cia. Radiodifusora Colombiana, S. A. Aptd. 50  
 PRG6 .25 Cruzeiro, Brz. Soc. Radio Mantiqueira  
 VUP 2. Peshawar, India  
 XHHT .1 Shanghai, Chn.  
 XOCL .0075 Tsinan, Chn.  
 3AK .2 Melbourne, Ausl.  
 ..... .. Hobart, Ausl.  
 ..... .25 Pietasaari, Fin.  
 ..... .2 Radio Alcala, Sp.  
 Belgium has several 100 watt stations on 1500.

1510(198.6)

YDA .5 Tandjongpriok, Java

1530(196.0)

SCJ .2 Kariskrona, Swe.

## FOREIGN B. C. STATIONS BY LOCATIONS

<b>SOUTH AMERICA</b>									<b>ECUADOR</b>		
<b>ARGENTINA</b>											
Bahia Blanca			Bauru			CG117 1170 100					
LU2	900	2000	PYG8	1250	250	CC141	1410	100	<b>Guyaquil</b>		
LU7	1240	2000	Belem			Curico			HC2ET	1153	300
Buenos Aires			PRC5	1360	100	CC96	960	100	CD103	1030	100
LR1	1070	50000	Bello Horizonte			Magallanes			CD111	1110	100
LR2	910	12000	PRC7	1090	250	CD136	1360	100	CD136	1360	100
LR3	950	31000	Campinas			Osorno			CD112	1120	100
LR4	990	16000	PRC9	1175	250	CD121	1210	100	Rancagua		
LR5	830	29000	Cruzeiro			CC109	1090	100	CC136	1360	100
LR6	870	26000	PRG6	1500	250	San Antonio			CB140	1400	100
LR7	750	15000	Curityba			San Felipe			San Felipe	1460	100
LR8	1150	7000	PRB2	882	250	Santiago			CB57	570	5000
LR9	1030	5000	Fortaleza			CB62	620	1000	CB62	620	1000
LR10	790	10250	PRE9	1315	500	CB73	730	1000	CB73	730	1000
LS1	710	5000	Jabotical			CB78	780	1000	CB78	780	1000
LS2	1190	30000	PRG4	1442	250	CB82	820	1000	CB82	820	1000
LS3	630	5000	Jahu			CB89	890	1000	CB89	890	1000
LS4	670	7000	PRG7	1330	250	CB93	930	3000	CB93	930	3000
LS5	1110	5000	Juiz de Fora			CB97	970	1000	CB97	970	1000
LS6	1350	6000	PRB3	857	250	CB101	1010	1000	CB101	1010	1000
LS7	1310	10000	Magy das Cruces		50	CB106	1060	1000	CB106	1060	1000
LS8	1230	15000	PRB8	1000	50	CB114	1140	1000	CB114	1140	1000
LS9	1270	6000	Nitheroy			CB118	1180	1000	CB118	1180	1000
LS10	590	6000	PRD8	1132	1000	CB126	1260	1000	CB126	1260	1000
Cordoba			Pelotas			'CB130	130	1000	CB130	130	1000
LV2	880	7000	PRC3	920	250	CB134	1340	500	CB134	1340	500
LV3	620	2000	Pernambuco			CB138	1380	5000	CB138	1380	5000
Corrientes			PRAS	750	3000	CB144	1440	100	CB144	1440	100
LT7	1340	500	Petropolis			CB144A	1440	100	CB144A	1440	100
La Plata			PRH4	1480	1000	CB144B	1440	500	CB144B	1440	500
LR11	1390	1000	Porto Alegre			CN144C	1440	150	CN144C	1440	150
LS11	1440	700	PRC2	1090	3000	CB150	1500	1000	CB150	1500	1000
La Rioja			PRH2	600	25000	Talca			CC143	1430	100
LV14	1240	500	Rio Claro			Talcahuano			CB84	840	100
Mar del Plata			PRF2	725	250	Temuco			CC58	580	500
LU6	1300	500	Rio de Janeiro			Valdivia			CD132	1320	100
Mendoza			PRA2	750	1500	Valparaiso			CB76	760	10000
LV6	690	500	PRA3	860	2500	CB90	900	1000	CB90	900	1000
LV10	1210	500	PRA9	1000	1000	CB116	1160	100	CB116	1160	100
Parana			PRB7	800	500	CB120	1200	1000	CB120	1200	1000
LT11	1260	500	PRC6	980	1000	CB124	1240	250	CB124	1240	250
Resistencia			PRC8	1030	1000	CB132	1320	1000	CB132	1320	1000
LT5	1160	500	PRD2	932	1000	CB139	1390	105	CB139	1390	105
Rosario			PRD5	1400	1000	Vina del Mar			CB64	640	1000
LT1	780	4000	PRE2	1330	500	CB111	1110	1000	CB111	1110	1000
LT3	1080	4500	PRE3	1220	10000	<b>COLOMBIA</b>					
LT8	840	500	PRE4	940	250	Barranquilla			HJ1ABA	1330	100
San Juan			PRE8	1270	7000	Bogota			HJN	681	500
LV1	730	1500	PRF4	923	10000	HJ3ABD	1100	50	HJ3ABD	1100	50
LV5	1120	500	PRG3	1280	10000	HJ3ABE	1200	1000	HJ3ABE	1200	1000
Santa Fe			PRH8	820	5000	HJ3ABH	1005	2000	HJ3ABH	1005	2000
LT9	1200	500	Rio Grande do Sul			HJ3ABK	1320	50	HJ3ABK	1320	50
LT10	1300	500	PRF9	1360	500	Cartagena			HJ1ABM	1154	50
Tucuman			Santos			Medellin			HJ4ABK	1230	300
LV7	820	1000	PRB4	960	1000						
<b>BOLIVIA</b>			PRG5	720	750						
La Paz			Sao Paulo								
CPX	1300	5000	PRA5	1295	500						
CP4	1040	10000	PRA6	815	10000						
<b>BRAZIL</b>			PRA7	706	50						
Amparo			PRB6	1170	1000						
PRC4	1300	50	PRB9	1017	5000						
Araraquara			PRE7	788	5000						
PRD4	1364	250	PRF3	900	5000						
Bahia			PRG9	1220	500						
PRA4	840	50	PRH3	1120	10000						
PRF6	1050	50	PYG2	1070	10000						
PRF8	950	500	Sorocaba								
<b>CHILE</b>			PRD7	1430	250						
Concepcion			PRD9	769	250						
CC64	640	100	Uberaba								
			PRF5	1410	250						
			PRE6	740	1500						

## FOREIGN B. C. STATIONS BY LOCATIONS

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3"><b>Paysandu</b></td></tr> <tr><td>CW35</td><td>1240</td><td>250</td></tr> <tr><td>CW39</td><td>1320</td><td>100</td></tr> <tr><td colspan="3"><b>Rocha</b></td></tr> <tr><td>CW19</td><td>1340</td><td>50</td></tr> <tr><td colspan="3"><b>Salto</b></td></tr> <tr><td>CW23</td><td>820</td><td>250</td></tr> <tr><td>CW27</td><td>680</td><td>150</td></tr> <tr><td>CW31</td><td>1160</td><td>250</td></tr> <tr><td colspan="3"><b>San Jose</b></td></tr> <tr><td>CW41</td><td>1360</td><td>50</td></tr> <tr><td colspan="3"><b>VENEZUELA</b></td></tr> <tr><td colspan="3"><b>Caracas</b></td></tr> <tr><td>YVIRC</td><td>960</td><td>5000</td></tr> <tr><td>YV3RC</td><td>1200</td><td>3000</td></tr> <tr><td>YV4RC</td><td>750</td><td>100</td></tr> <tr><td colspan="3"><b>Maracaibo</b></td></tr> <tr><td>YV5RMO</td><td>1300</td><td>150</td></tr> <tr><td>YV7RMO</td><td>1153</td><td>500</td></tr> <tr><td>YV11RMO</td><td>1034</td><td>.....</td></tr> <tr><td colspan="3"><b>Valencia</b></td></tr> <tr><td>YV6RV</td><td>670</td><td>350</td></tr> </table>	<b>Paysandu</b>			CW35	1240	250	CW39	1320	100	<b>Rocha</b>			CW19	1340	50	<b>Salto</b>			CW23	820	250	CW27	680	150	CW31	1160	250	<b>San Jose</b>			CW41	1360	50	<b>VENEZUELA</b>			<b>Caracas</b>			YVIRC	960	5000	YV3RC	1200	3000	YV4RC	750	100	<b>Maracaibo</b>			YV5RMO	1300	150	YV7RMO	1153	500	YV11RMO	1034	.....	<b>Valencia</b>			YV6RV	670	350	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3"><b>CZECHOSLOVAKIA</b></td></tr> <tr><td colspan="3"><b>Bratislava</b></td></tr> <tr><td>OKR</td><td>1004</td><td>13500</td></tr> <tr><td colspan="3"><b>Brno</b></td></tr> <tr><td>OKB</td><td>922</td><td>32000</td></tr> <tr><td colspan="3"><b>Kosice</b></td></tr> <tr><td>.....</td><td>1158</td><td>2600</td></tr> <tr><td colspan="3"><b>Moravska</b></td></tr> <tr><td>OKK</td><td>1113</td><td>11200</td></tr> <tr><td colspan="3"><b>Praha</b></td></tr> <tr><td>OKP</td><td>633</td><td>120000</td></tr> <tr><td>No. 2</td><td>1204</td><td>5000</td></tr> <tr><td colspan="3"><b>DANZIG</b></td></tr> <tr><td colspan="3"><b>Danzig</b></td></tr> <tr><td>.....</td><td>1303</td><td>500</td></tr> <tr><td colspan="3"><b>DENMARK</b></td></tr> <tr><td colspan="3"><b>Copenhagen</b></td></tr> <tr><td>.....</td><td>1176</td><td>10000</td></tr> <tr><td colspan="3"><b>ESTONIA</b></td></tr> <tr><td colspan="3"><b>Tallinn</b></td></tr> <tr><td>.....</td><td>731</td><td>20000</td></tr> <tr><td colspan="3"><b>Tartu</b></td></tr> <tr><td>.....</td><td>517</td><td>500</td></tr> <tr><td colspan="3"><b>FINLAND</b></td></tr> <tr><td colspan="3"><b>Heisinki</b></td></tr> <tr><td>OFA</td><td>895</td><td>10000</td></tr> <tr><td colspan="3"><b>Pietersaari</b></td></tr> <tr><td>.....</td><td>1500</td><td>250</td></tr> <tr><td colspan="3"><b>Pori</b></td></tr> <tr><td>OFD</td><td>749</td><td>1000</td></tr> <tr><td colspan="3"><b>Sortavala</b></td></tr> <tr><td>.....</td><td>749</td><td>200</td></tr> <tr><td colspan="3"><b>Tampere</b></td></tr> <tr><td>OFE</td><td>1420</td><td>700</td></tr> <tr><td colspan="3"><b>Turku</b></td></tr> <tr><td>.....</td><td>1429</td><td>500</td></tr> <tr><td colspan="3"><b>Viipuri</b></td></tr> <tr><td>OFH</td><td>527</td><td>10000</td></tr> <tr><td colspan="3"><b>FRANCE</b></td></tr> <tr><td colspan="3"><b>Beziers</b></td></tr> <tr><td>.....</td><td>1429</td><td>300</td></tr> <tr><td colspan="3"><b>Bordeaux</b></td></tr> <tr><td>.....</td><td>1077</td><td>30000</td></tr> <tr><td>.....</td><td>968</td><td>2500</td></tr> <tr><td colspan="3"><b>Grenoble</b></td></tr> <tr><td>.....</td><td>583</td><td>15000</td></tr> <tr><td colspan="3"><b>Juan-les-Pins</b></td></tr> <tr><td>.....</td><td>1276</td><td>2000</td></tr> <tr><td colspan="3"><b>Lille</b></td></tr> <tr><td>.....</td><td>1213</td><td>60000</td></tr> <tr><td colspan="3"><b>Limoges</b></td></tr> <tr><td>.....</td><td>895</td><td>500</td></tr> <tr><td colspan="3"><b>Lyons</b></td></tr> <tr><td>YN</td><td>648</td><td>90000</td></tr> <tr><td>RL</td><td>1393</td><td>25000</td></tr> <tr><td colspan="3"><b>Marseilles</b></td></tr> <tr><td>.....</td><td>749</td><td>120000</td></tr> <tr><td colspan="3"><b>Montpellier</b></td></tr> <tr><td>.....</td><td>1339</td><td>1200</td></tr> <tr><td colspan="3"><b>Nice</b></td></tr> <tr><td>.....</td><td>1185</td><td>60000</td></tr> <tr><td colspan="3"><b>Nimes</b></td></tr> <tr><td>.....</td><td>1492</td><td>200</td></tr> <tr><td colspan="3"><b>Paris</b></td></tr> <tr><td>FPTT</td><td>695</td><td>120000</td></tr> <tr><td>ILLE</td><td>1348</td><td>800</td></tr> <tr><td>PP</td><td>959</td><td>60000</td></tr> <tr><td>Eiffel</td><td>1456</td><td>20000</td></tr> <tr><td>.....</td><td>1068</td><td>800</td></tr> </table>	<b>CZECHOSLOVAKIA</b>			<b>Bratislava</b>			OKR	1004	13500	<b>Brno</b>			OKB	922	32000	<b>Kosice</b>			.....	1158	2600	<b>Moravska</b>			OKK	1113	11200	<b>Praha</b>			OKP	633	120000	No. 2	1204	5000	<b>DANZIG</b>			<b>Danzig</b>			.....	1303	500	<b>DENMARK</b>			<b>Copenhagen</b>			.....	1176	10000	<b>ESTONIA</b>			<b>Tallinn</b>			.....	731	20000	<b>Tartu</b>			.....	517	500	<b>FINLAND</b>			<b>Heisinki</b>			OFA	895	10000	<b>Pietersaari</b>			.....	1500	250	<b>Pori</b>			OFD	749	1000	<b>Sortavala</b>			.....	749	200	<b>Tampere</b>			OFE	1420	700	<b>Turku</b>			.....	1429	500	<b>Viipuri</b>			OFH	527	10000	<b>FRANCE</b>			<b>Beziers</b>			.....	1429	300	<b>Bordeaux</b>			.....	1077	30000	.....	968	2500	<b>Grenoble</b>			.....	583	15000	<b>Juan-les-Pins</b>			.....	1276	2000	<b>Lille</b>			.....	1213	60000	<b>Limoges</b>			.....	895	500	<b>Lyons</b>			YN	648	90000	RL	1393	25000	<b>Marseilles</b>			.....	749	120000	<b>Montpellier</b>			.....	1339	1200	<b>Nice</b>			.....	1185	60000	<b>Nimes</b>			.....	1492	200	<b>Paris</b>			FPTT	695	120000	ILLE	1348	800	PP	959	60000	Eiffel	1456	20000	.....	1068	800	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3"><b>Radio-Normandie</b></td></tr> <tr><td>.....</td><td>1113</td><td>10000</td></tr> <tr><td colspan="3"><b>Rennes</b></td></tr> <tr><td>.....</td><td>1040</td><td>40000</td></tr> <tr><td colspan="3"><b>Strasbourg</b></td></tr> <tr><td>SPTT</td><td>859</td><td>35000</td></tr> <tr><td colspan="3"><b>Toulouse</b></td></tr> <tr><td>.....</td><td>776</td><td>2000</td></tr> <tr><td>.....</td><td>913</td><td>60000</td></tr> <tr><td colspan="3"><b>GERMANY</b></td></tr> <tr><td colspan="3"><b>Berlin</b></td></tr> <tr><td>.....</td><td>841</td><td>100000</td></tr> <tr><td colspan="3"><b>Bremen</b></td></tr> <tr><td>.....</td><td>1330</td><td>2000</td></tr> <tr><td colspan="3"><b>Breslau</b></td></tr> <tr><td>.....</td><td>950</td><td>100000</td></tr> <tr><td colspan="3"><b>Cassel</b></td></tr> <tr><td>.....</td><td>1195</td><td>2000</td></tr> <tr><td colspan="3"><b>Coblentz</b></td></tr> <tr><td>.....</td><td>1195</td><td>2000</td></tr> <tr><td colspan="3"><b>Cologne</b></td></tr> <tr><td>.....</td><td>658</td><td>100000</td></tr> <tr><td colspan="3"><b>Dresden</b></td></tr> <tr><td>.....</td><td>1285</td><td>250</td></tr> <tr><td colspan="3"><b>Flensburg</b></td></tr> <tr><td>.....</td><td>1330</td><td>2000</td></tr> <tr><td colspan="3"><b>Frankfurt</b></td></tr> <tr><td>.....</td><td>1195</td><td>25000</td></tr> <tr><td colspan="3"><b>Freiburg</b></td></tr> <tr><td>.....</td><td>1195</td><td>5000</td></tr> <tr><td colspan="3"><b>Gleitwitz</b></td></tr> <tr><td>.....</td><td>1231</td><td>5000</td></tr> <tr><td colspan="3"><b>Hamburg</b></td></tr> <tr><td>.....</td><td>904</td><td>100000</td></tr> <tr><td colspan="3"><b>Hanover</b></td></tr> <tr><td>.....</td><td>1330</td><td>2000</td></tr> <tr><td colspan="3"><b>Kaiserslautern</b></td></tr> <tr><td>.....</td><td>1195</td><td>1500</td></tr> <tr><td colspan="3"><b>Konigsberg</b></td></tr> <tr><td>.....</td><td>1031</td><td>10000</td></tr> <tr><td>.....</td><td>1348</td><td>2000</td></tr> <tr><td colspan="3"><b>Leipzig</b></td></tr> <tr><td>.....</td><td>785</td><td>120000</td></tr> <tr><td colspan="3"><b>Magdeburg</b></td></tr> <tr><td>.....</td><td>1330</td><td>2000</td></tr> <tr><td colspan="3"><b>Munich</b></td></tr> <tr><td>.....</td><td>740</td><td>100000</td></tr> <tr><td colspan="3"><b>Nurnberg</b></td></tr> <tr><td>.....</td><td>1267</td><td>2000</td></tr> <tr><td colspan="3"><b>Saarbrucken</b></td></tr> <tr><td>.....</td><td>1249</td><td>17000</td></tr> <tr><td colspan="3"><b>Stettin</b></td></tr> <tr><td>.....</td><td>1330</td><td>2000</td></tr> <tr><td colspan="3"><b>Stuttgart</b></td></tr> <tr><td>.....</td><td>574</td><td>100000</td></tr> <tr><td colspan="3"><b>Trier</b></td></tr> <tr><td>.....</td><td>1195</td><td>2000</td></tr> <tr><td colspan="3"><b>GREAT BRITAIN</b></td></tr> <tr><td colspan="3"><b>Aberdeen</b></td></tr> <tr><td>.....</td><td>1285</td><td>1000</td></tr> <tr><td colspan="3"><b>Belfast</b></td></tr> <tr><td>.....</td><td>977</td><td>100000</td></tr> <tr><td colspan="3"><b>Bournemouth</b></td></tr> <tr><td>.....</td><td>1474</td><td>1000</td></tr> <tr><td colspan="3"><b>Cardiff</b></td></tr> <tr><td>WR</td><td>804</td><td>70000</td></tr> <tr><td>WN</td><td>1149</td><td>20000</td></tr> <tr><td colspan="3"><b>Daventry</b></td></tr> <tr><td>MR</td><td>1013</td><td>70000</td></tr> <tr><td colspan="3"><b>Falkirk</b></td></tr> <tr><td>SN</td><td>1050</td><td>50000</td></tr> <tr><td>SR</td><td>767</td><td>70000</td></tr> <tr><td colspan="3"><b>London</b></td></tr> <tr><td>LN</td><td>1149</td><td>20000</td></tr> <tr><td>LR</td><td>877</td><td>70000</td></tr> </table>	<b>Radio-Normandie</b>			.....	1113	10000	<b>Rennes</b>			.....	1040	40000	<b>Strasbourg</b>			SPTT	859	35000	<b>Toulouse</b>			.....	776	2000	.....	913	60000	<b>GERMANY</b>			<b>Berlin</b>			.....	841	100000	<b>Bremen</b>			.....	1330	2000	<b>Breslau</b>			.....	950	100000	<b>Cassel</b>			.....	1195	2000	<b>Coblentz</b>			.....	1195	2000	<b>Cologne</b>			.....	658	100000	<b>Dresden</b>			.....	1285	250	<b>Flensburg</b>			.....	1330	2000	<b>Frankfurt</b>			.....	1195	25000	<b>Freiburg</b>			.....	1195	5000	<b>Gleitwitz</b>			.....	1231	5000	<b>Hamburg</b>			.....	904	100000	<b>Hanover</b>			.....	1330	2000	<b>Kaiserslautern</b>			.....	1195	1500	<b>Konigsberg</b>			.....	1031	10000	.....	1348	2000	<b>Leipzig</b>			.....	785	120000	<b>Magdeburg</b>			.....	1330	2000	<b>Munich</b>			.....	740	100000	<b>Nurnberg</b>			.....	1267	2000	<b>Saarbrucken</b>			.....	1249	17000	<b>Stettin</b>			.....	1330	2000	<b>Stuttgart</b>			.....	574	100000	<b>Trier</b>			.....	1195	2000	<b>GREAT BRITAIN</b>			<b>Aberdeen</b>			.....	1285	1000	<b>Belfast</b>			.....	977	100000	<b>Bournemouth</b>			.....	1474	1000	<b>Cardiff</b>			WR	804	70000	WN	1149	20000	<b>Daventry</b>			MR	1013	70000	<b>Falkirk</b>			SN	1050	50000	SR	767	70000	<b>London</b>			LN	1149	20000	LR	877	70000	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3"><b>Manchester</b></td></tr> <tr><td>NN</td><td>1149</td><td>20000</td></tr> <tr><td>NR</td><td>668</td><td>70000</td></tr> <tr><td colspan="3"><b>Newcastle</b></td></tr> <tr><td>.....</td><td>1122</td><td>1000</td></tr> <tr><td colspan="3"><b>Plymouth</b></td></tr> <tr><td>.....</td><td>1474</td><td>300</td></tr> <tr><td colspan="3"><b>HUNGARY</b></td></tr> <tr><td colspan="3"><b>Budapest</b></td></tr> <tr><td>HAL</td><td>546</td><td>120000</td></tr> <tr><td colspan="3"><b>Magyarovar</b></td></tr> <tr><td>HAE-2</td><td>1321</td><td>1250</td></tr> <tr><td colspan="3"><b>Miskolc</b></td></tr> <tr><td>HAE-3</td><td>1438</td><td>1250</td></tr> <tr><td colspan="3"><b>Nyiregyhaza</b></td></tr> <tr><td>HAE</td><td>1122</td><td>6200</td></tr> <tr><td colspan="3"><b>Pecs</b></td></tr> <tr><td>HAE-4</td><td>1465</td><td>1250</td></tr> <tr><td colspan="3"><b>IRISH FREE STATE</b></td></tr> <tr><td colspan="3"><b>Athlone</b></td></tr> <tr><td>.....</td><td>565</td><td>60000</td></tr> <tr><td colspan="3"><b>Cork</b></td></tr> <tr><td>6CK</td><td>1240</td><td>1000</td></tr> <tr><td colspan="3"><b>Dublin</b></td></tr> <tr><td>2RN</td><td>1348</td><td>1000</td></tr> <tr><td colspan="3"><b>ITALY</b></td></tr> <tr><td colspan="3"><b>Bari</b></td></tr> <tr><td>IIBA</td><td>1059</td><td>20000</td></tr> <tr><td colspan="3"><b>Bologna</b></td></tr> <tr><td>.....</td><td>1222</td><td>50000</td></tr> <tr><td colspan="3"><b>Bolzano</b></td></tr> <tr><td>IIBZ</td><td>536</td><td>10000</td></tr> <tr><td colspan="3"><b>Firenze</b></td></tr> <tr><td>IIFI</td><td>610</td><td>20000</td></tr> <tr><td colspan="3"><b>Genoa</b></td></tr> <tr><td>IIGE</td><td>986</td><td>10000</td></tr> <tr><td colspan="3"><b>Milan</b></td></tr> <tr><td>IIMI</td><td>814</td><td>50000</td></tr> <tr><td>No. 2</td><td>1348</td><td>4000</td></tr> <tr><td colspan="3"><b>Naples</b></td></tr> <tr><td>IINA</td><td>1104</td><td>1500</td></tr> <tr><td colspan="3"><b>Palermo</b></td></tr> <tr><td>IIPA</td><td>565</td><td>4000</td></tr> <tr><td colspan="3"><b>Rome</b></td></tr> <tr><td>IIRO</td><td>713</td><td>50000</td></tr> <tr><td>No. 3</td><td>1258</td><td>1000</td></tr> <tr><td colspan="3"><b>Trieste</b></td></tr> <tr><td>IITR</td><td>1140</td><td>10000</td></tr> <tr><td colspan="3"><b>Turin</b></td></tr> <tr><td>IITO</td><td>1140</td><td>7000</td></tr> <tr><td>No. 2</td><td>1357</td><td>200</td></tr> <tr><td colspan="3"><b>LATVIA</b></td></tr> <tr><td colspan="3"><b>Kuldiga</b></td></tr> <tr><td>.....</td><td>1258</td><td>10000</td></tr> <tr><td colspan="3"><b>Madona</b></td></tr> <tr><td>.....</td><td>1104</td><td>50000</td></tr> <tr><td colspan="3"><b>Riga</b></td></tr> <tr><td>YLZ</td><td>583</td><td>15000</td></tr> <tr><td colspan="3"><b>LITHUANIA</b></td></tr> <tr><td colspan="3"><b>Klaipeda</b></td></tr> <tr><td>.....</td><td>560</td><td>10000</td></tr> <tr><td colspan="3"><b>NETHERLANDS</b></td></tr> <tr><td colspan="3"><b>Hilversum</b></td></tr> <tr><td>PFBI</td><td>995</td><td>60000</td></tr> </table>	<b>Manchester</b>			NN	1149	20000	NR	668	70000	<b>Newcastle</b>			.....	1122	1000	<b>Plymouth</b>			.....	1474	300	<b>HUNGARY</b>			<b>Budapest</b>			HAL	546	120000	<b>Magyarovar</b>			HAE-2	1321	1250	<b>Miskolc</b>			HAE-3	1438	1250	<b>Nyiregyhaza</b>			HAE	1122	6200	<b>Pecs</b>			HAE-4	1465	1250	<b>IRISH FREE STATE</b>			<b>Athlone</b>			.....	565	60000	<b>Cork</b>			6CK	1240	1000	<b>Dublin</b>			2RN	1348	1000	<b>ITALY</b>			<b>Bari</b>			IIBA	1059	20000	<b>Bologna</b>			.....	1222	50000	<b>Bolzano</b>			IIBZ	536	10000	<b>Firenze</b>			IIFI	610	20000	<b>Genoa</b>			IIGE	986	10000	<b>Milan</b>			IIMI	814	50000	No. 2	1348	4000	<b>Naples</b>			IINA	1104	1500	<b>Palermo</b>			IIPA	565	4000	<b>Rome</b>			IIRO	713	50000	No. 3	1258	1000	<b>Trieste</b>			IITR	1140	10000	<b>Turin</b>			IITO	1140	7000	No. 2	1357	200	<b>LATVIA</b>			<b>Kuldiga</b>			.....	1258	10000	<b>Madona</b>			.....	1104	50000	<b>Riga</b>			YLZ	583	15000	<b>LITHUANIA</b>			<b>Klaipeda</b>			.....	560	10000	<b>NETHERLANDS</b>			<b>Hilversum</b>			PFBI	995	60000
<b>Paysandu</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
CW35	1240	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
CW39	1320	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Rocha</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
CW19	1340	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Salto</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
CW23	820	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
CW27	680	150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
CW31	1160	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>San Jose</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
CW41	1360	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>VENEZUELA</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Caracas</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
YVIRC	960	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
YV3RC	1200	3000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
YV4RC	750	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Maracaibo</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
YV5RMO	1300	150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
YV7RMO	1153	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
YV11RMO	1034	.....																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Valencia</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
YV6RV	670	350																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>CZECHOSLOVAKIA</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Bratislava</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
OKR	1004	13500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Brno</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
OKB	922	32000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Kosice</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1158	2600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Moravska</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
OKK	1113	11200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Praha</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
OKP	633	120000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
No. 2	1204	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>DANZIG</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Danzig</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1303	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>DENMARK</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Copenhagen</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1176	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>ESTONIA</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Tallinn</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	731	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Tartu</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	517	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>FINLAND</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Heisinki</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
OFA	895	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Pietersaari</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1500	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Pori</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
OFD	749	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Sortavala</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	749	200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Tampere</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
OFE	1420	700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Turku</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1429	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Viipuri</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
OFH	527	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>FRANCE</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Beziers</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1429	300																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Bordeaux</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1077	30000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
.....	968	2500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Grenoble</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	583	15000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Juan-les-Pins</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1276	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Lille</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1213	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Limoges</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	895	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Lyons</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
YN	648	90000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
RL	1393	25000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Marseilles</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	749	120000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Montpellier</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1339	1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Nice</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1185	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Nimes</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1492	200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Paris</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
FPTT	695	120000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
ILLE	1348	800																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
PP	959	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Eiffel	1456	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
.....	1068	800																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Radio-Normandie</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1113	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Rennes</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1040	40000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Strasbourg</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
SPTT	859	35000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Toulouse</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	776	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
.....	913	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>GERMANY</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Berlin</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	841	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Bremen</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1330	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Breslau</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	950	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Cassel</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1195	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Coblentz</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1195	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Cologne</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	658	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Dresden</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1285	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Flensburg</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1330	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Frankfurt</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1195	25000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Freiburg</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1195	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Gleitwitz</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1231	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Hamburg</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	904	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Hanover</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1330	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Kaiserslautern</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1195	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Konigsberg</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1031	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
.....	1348	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Leipzig</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	785	120000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Magdeburg</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1330	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Munich</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	740	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Nurnberg</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1267	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Saarbrucken</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1249	17000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Stettin</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1330	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Stuttgart</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	574	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Trier</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1195	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>GREAT BRITAIN</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Aberdeen</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1285	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Belfast</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	977	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Bournemouth</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1474	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Cardiff</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
WR	804	70000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
WN	1149	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Daventry</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
MR	1013	70000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Falkirk</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
SN	1050	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
SR	767	70000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>London</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
LN	1149	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
LR	877	70000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Manchester</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NN	1149	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NR	668	70000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Newcastle</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1122	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Plymouth</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1474	300																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>HUNGARY</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Budapest</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
HAL	546	120000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Magyarovar</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
HAE-2	1321	1250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Miskolc</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
HAE-3	1438	1250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Nyiregyhaza</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
HAE	1122	6200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Pecs</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
HAE-4	1465	1250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>IRISH FREE STATE</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Athlone</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	565	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Cork</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
6CK	1240	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Dublin</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
2RN	1348	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>ITALY</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Bari</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IIBA	1059	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Bologna</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1222	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Bolzano</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IIBZ	536	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Firenze</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IIFI	610	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Genoa</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IIGE	986	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Milan</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IIMI	814	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
No. 2	1348	4000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Naples</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IINA	1104	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Palermo</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IIPA	565	4000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Rome</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IIRO	713	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
No. 3	1258	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Trieste</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IITR	1140	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Turin</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IITO	1140	7000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
No. 2	1357	200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>LATVIA</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Kuldiga</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1258	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Madona</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	1104	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>Riga</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
YLZ	583	15000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>LITHUANIA</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Klaipeda</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
.....	560	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<b>NETHERLANDS</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<b>Hilversum</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
PFBI	995	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

## FOREIGN B. C. STATIONS BY LOCATIONS

NORWAY			SWEDEN			YUGOSLAVIA																	
Aalesund			Spain has many stations of 100 watts or less on 1492 and 1500 kcs. For complete list see Index by Calls.			Igarka	RW85	871	2000														
LKA	850	350				Falun	SCC	1086	2000	Belgrade	..... 686	2500											
Bergen			Goteborg	SBB	941	10000	Ljubljana	..... 527	5000														
LKB	850	1000	Horby	SBH	1131	10000	Zagreb	..... 1086	700														
Bodo			Karlskrona	SCJ	1530	200	<b>ASIA</b>																
LKD	686	500	Karlstad	SCK	1312	250	<b>CEYLON</b>																
Fredrikstad			Malmo	SBC	1312	2500	Colombo	VPB	705	1750													
LKF	776	1000	Norrkoping	SCO	1312	250	<b>CHINA</b>																
Hamar			Orebro	.....	1240	200	Canton	XGOK	750	1000													
LKH	519	700	.....	Ornskoldsvik	.....	1402	XKRI	1071	100														
Kristianssand			Saffle	.....	1240	400	Chang-Chow	XGDZ	1470	10													
LKK	1276	500	Stockholm	SBA	704	55000	XLIK	1330	75														
Narvik	.....	1222	Sundsvall	SBD	601	10000	Chang-sha	XGOH	590	150													
Notodden			Trollhattan	SCQ	1312	250	XGTM	840	15														
LKN	1357	150	Uddevalla	.....	1410	50	Chengtu	XGOH	560	10000													
Porsgrund			Umea	.....	1402	1000	Chinkiang	XGOZ	1150	1000													
LKP	850	1000	Varberg	.....	1240	200	Chuching	XGCK	990	7.5													
Rjukan			<b>SWITZERLAND</b>			Basle	.....	1375	500	Chunking	XGOS	711	1000										
LKR	1348	150	Basle	.....	1375	500	Berne	.....	1375	500	Foo-chow	XGOL	1030	250									
Stavanger			Beremunster	.....	556	100000	.....	1167	15000	Hangchow	XGOD	990	2000										
LKS	1276	500	Monte Ceneri	.....	1167	15000	Sottens	.....	677	100000	XLID	1370	50										
Trondelag			.....	.....	677	100000	<b>U. S. S. R.</b>			XLIQ	850	50											
LKT	629	20000	<b>PORTUGAL</b>			Alexandrovska	RW38	662	2000	XLIR	1230	50											
<b>POLAND</b>			<b>ROUMANIA</b>			Penza	RW56	640	1200	Petropavlovsk	RW71	689	1200	Hangkow	XGOW	1010	5000						
Cracow	.....	1022	2000	Bucharest	.....	823	12000	.....	1200	RW71	689	1200	Petrozavodsk	RW29	648	10000	XHJA	570	100				
Katowice	.....	758	12000	Parede	CTIAGL	1031	5000	.....	1000	RW29	648	10000	Pratigorsk	RW18	610	1000	XLIM	910	50				
Lodz	.....	1339	1700	<b>SPAIN</b>			.....	1000	.....	1000	RW18	610	1000	Samara	RW16	710	10000	Honan-fu	XGOQ	1070	200		
Lwow	.....	795	16000	Alcala	.....	1500	200	.....	1000	.....	1000	RW16	710	10000	Saransk	RW65	734	1000	Hongkong	ZBW	845	2000	
Poznan	.....	868	16000	Barcelona	EAJ1	795	7500	.....	1000	.....	1000	.....	1000	10000	Simferopol	RW73	859	10000	Kiangyin	XGSA	1335	10	
Torun	.....	986	24000	Madrid	EAJ15	1022	3000	.....	1000	.....	1000	.....	1000	10000	Stalingrad	RW34	522	10000	Kashing	XGAK	895	15	
Warsab				Oviedo	EAJ7	1095	10000	.....	1000	.....	1000	.....	1000	10000	Stalino	RW26	776	10000	XGML	714.3	7.5		
No. 2	1384	2000		San Sebastian	EAJ5	731	5500	.....	1000	.....	1000	.....	1000	10000	Sykytykar	RW41	563	1200	XLKS	1490	20		
Wilno	.....	536	16000	Seville	EAJ8	1258	1000	.....	1000	.....	1000	.....	1000	10000	Tchiboksary	RW74	680	1200	Kunming	XGOY	690	250	
<b>PORTUGAL</b>			<b>ROUMANIA</b>			.....	1000	.....	1000	.....	1000	.....	1000	10000	Tcheliabinsk	RW68	577	1500	Loyang	XGOB	1090	250	
Lisbon	CTIAA	629	20000	Valencia	EAJ3	850	3000	.....	1000	.....	1000	.....	1000	10000	Tchernigov	RW86	1013	5000	Nan-chang	XGOC	1130	500	
Parede	CTIAGL	1031	5000	.....	.....	.....	.....	.....	1000	.....	1000	.....	1000	10000	Tchita	RW52	556	20000	Nanking	XGOA	660	75000	
<b>ROUMANIA</b>			<b>SPAIN</b>			.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Tiraspol	RW57	1068	4000	Ningpo	XLIA	1320	15
Bucharest	.....	823	12000	Alcala	.....	1500	200	.....	1000	.....	1000	.....	1000	10000	Vinnitza	RW75	1095	10000	Peiping	XGOP	950	300	
.....	.....	.....	.....	Barcelona	EAJ1	795	7500	.....	1000	.....	1000	.....	1000	10000	Urdjonikidze	RW64	752	10000	XGOT	1220	500		
.....	.....	.....	.....	Madrid	EAJ7	1095	10000	.....	1000	.....	1000	.....	1000	10000	Vladivostok	RW28	635	800	XLKA	1194	30		
.....	.....	.....	.....	Oviedo	EAJ5	731	5500	.....	1000	.....	1000	.....	1000	10000	.....	RW32	635	10000	Pinghu	XLPH	1210	15	
.....	.....	.....	.....	San Sebastian	EAJ8	1258	1000	.....	1000	.....	1000	.....	1000	10000	.....	.....	.....	800	Poatung	XGMK	1005	15	
.....	.....	.....	.....	Seville	EAJ3	850	3000	.....	1000	.....	1000	.....	1000	10000	.....	.....	.....	800	.....	.....	.....	.....	
.....	.....	.....	.....	Valencia	EAJ3	850	3000	.....	1000	.....	1000	.....	1000	10000	.....	.....	.....	800	.....	.....	.....	.....	



## FOREIGN B. C. STATIONS BY LOCATIONS

<b>Shanghai</b> FFZ 1400 250 XHHB 740 50 XHHD 860 50 XHHE 940 100 XHHF 960 100 XHHG 1020 100 XHHH 1040 100 XHHI 1060 100 XHHJ 1080 200 XHHK 620 100 XHHL 1140 100 XHHN 1200 100 XHHP 1260 100 XHHQ 1280 80 XHHR 1340 50 XHHS 1180 100 XHHT 1500 100 XHHU 1160 100 XHHV 880 100 XHHX 920 1000 XHHY 1240 100 XHHZ 1180 150 XLHA 780 50 XLHB 560 45 XLHC 720 50 XLHD 720 50 XLHE 1380 50 XLHF 1380 50 XLHI 760 7.5 XLHJ 760 100 XLHK 800 7.5 XLHL 800 100 XLHM 1120 50 XLHN 1120 200 XLHO 1400 100 XLHQ 1440 30 XMHA 600 1000 XMHB 980 500 XMHC 700 500 XMHD 840 1000 XQHA 580 250 XQHB 850 100 XQHC 1300 1000 XQHD 1360 200 XQHE 1460 250 XQHF 1480 200 XQHG 1220 250 ..... 640 100 Shaohing XLIO 1090 20 Shuhing ..... 1090 ..... Siangyang MABS 1250 35 Suchow XLIB 1450 15 XLIL 870 75 ..... 1110 10 Taiyuan XGOT 1000 50 Tengchow XGTM 1210 100 XHKB 590 100 Tientsin XLKB 825 55 XKKA 1050 200 XOKA 1350 150 XOKB 750 150 XOKC 810 200 Tsangchow XLIG 1110 15 Tsinan XGF 833 7.5 XGOF 860 500 XOCL 1500 7.5 Tsingtao XHKC 1210 100			<b>Tsunshi</b> XGSS 610 15 T'ung Hsien LUHO 750 20 Wuchow XHGS 730 50 Wu-hu XDYF 1270 15 XGWH 830 30 Wusih XHIB 970 75 XLIE 1170 50 XLIF 1250 75 XLIJ 790 50 XLIN 1390 50 XLTC 1210 15 XLWU 1250 50 Yungning XGOE 1290 1000 <b>FORMOSA</b> Taichu JFCK 580 1000 Taihoku JFAK 670 10000 Tainan JFBK 720 1000 <b>INDIA</b> Bombay VUB 855 3000 Calcutta VUC 810 3000 Delhi VUC 933 1000 Lahore VUL 1200 100 Madras VUM 770 200 <b>INDO-CHINA</b> Saigon F31CD 840 12000 <b>JAPAN</b> Akita JOUK 645 300 Asahigawa JOCG 655 300 Fukui JOFG 990 300 Fukuoka JOLK 680 500 Hakodate JOVK 680 500 Hamamatsu JODG 635 500 Hiroshima JOFK 850 10000 Kagoshima JOHG 1050 500 Kanazawa JOJK 710 3000 Kochi JORK 720 500 Kofu JOKG 800 500 Kokura JOSK 735 1000 Kumamoto JOGK 790 10000 Kyoto JOOK 960 300 Maebashi JOBG 970 500			<b>Matsuye</b> JOTK 625 500 Mlyazaki JONG 600 500 Nagano JONK 940 500 Nagasaki JOAG 930 500 Nagoya JOCK-1 810 10000 JOCK-2 1175 10000 Niigata JOOK 920 500 Obihiro JOOG 1080 500 Okayama JOKK 700 500 Osaka JOBK-1 750 10000 JOBK-2 1085 10000 Sapporo JOIK 830 10000 Sendai JOHK 770 10000 Shizuoka JOPK 780 500 Takushima JOXK 980 500 Tokyo JOAK-1 590 150000 JOAK-2 590 10000 Tottori JOLG 890 500 Toyama JOIG 1060 500 Yamaqata JOJG 1040 500 <b>JAVA</b> Tandjongprik YDAS 1510 500 <b>KOREA</b> Fuzan JBAK 1030 150 Seoul JODK-1 900 10000 JODK-2 610 10000 <b>MANCHUOKUO</b> Dairen JOAK 652 500 Harbin MTFY 675 3000 Hsinking MTCY 560 100000 Mukden MTBY 890 1000 <b>PALESTINE</b> Jerusalem ..... 668 20000 <b>PHILIPPINES</b> Manila KZEG 780 1000 KZIB 900 1000 KZRM 618.5 50000 <b>SIAM</b> Bangkok HSP-1 856 2500 HS7PJ 750 15000 ..... 1200 .....			<b>AFRICA</b> <b>ALGERIA</b> Algiers ..... 941 12000 <b>EGYPT</b> Alexandria ..... 1122 500 ..... 1429 500 Cairo ..... 620 20000 ..... 1348 500 <b>KENYA</b> Nairobi VQ7LO 858 600 <b>MOROCCO</b> Rabat CNR 601 25000 <b>SOUTH RHODESIA</b> Salisbury ..... 681.8 1500 <b>TUNISIA</b> Tunis TUA 1275 500 <b>UNION S. AFRICA</b> Bloemfontaine ZTB 790 500 Cape Town ZTC 600 10000 Durban ZTD 750 1500 Grahamstown ZUG 560 10000 Johannesburg ZTJ 645 10000 Maritzburg ..... 750 10000 Pretoria ZTP 952 500 <b>OCEANIA</b> <b>AUSTRALIA</b> Adelaide 5AD 1310 300 5CL 730 2000 5DN 960 300 5KA 1200 300 Albury 2AY 1480 100 Armidale 2AD 1080 100 Ayr 4AY 1450 100 Ballarat 3BA 1320 50 Bathurst 2BS 1450 100 Bega 2BE 1470 100 Bendigo 3BO 970 200		
--	--	--	--	--	--	--	--	--	--	--	--

## FOREIGN B. C. STATIONS BY LOCATIONS

Brisbane		Katanning		Perth		NEW ZEALAND		
4BC	1120	1000	6KA 1070	2000	6IX 1240	500	<b>Auckland</b>	
4BH	1380	600	Katoomba		6ML 1130	500	1YA 650	10000
4BK	1290	500	2KB 1160	100	6PR 880	500	1YX 880	150
4QG	800	2500	Kelso		6WF 690	3500	1ZB 1090	90
Broken Hill			7NT 710	7000	Port Moresby		1ZS 1420	50
2BH	1330	100	Kempsey		4PM 1360	100	Balclutha	
Bundaberg			2KM 1060	.....	Renmark		4ZR 1340	4
4BU	1480	100	Launceston		5RM 850	1000	Christchurch	
Burnie			7LA 1100	300	4RK 910	2000	3YA 720	10000
7BU	660	100	Lawrence		4RO 1330	50	3YL 1200	250
Cairns			2NR 700	7000	Sale		3ZM 1470	60
4CA	1470	100	Lismore		3TR 1240	500	Cromwell	
Canberra			2XN 1340	50	Shepparton		4ZC 1280	7
2CA	1050	500	Longford		3WR 1260	50	Dunedin	
4QN	600	7000	3GI 830	7000	Swan Hill		4YA 790	10000
Corowa			Longreach		3SH 1080	50	4YO 1140	200
2CO	670	1000	4LG 1100	300	Sydney		4ZB 1010	20
Crystal Brook			Mackay		2BL 740	3000	4ZL 1220	100
5CK	640	7500	4MK 1160	100	2CH 1190	1000	4ZM 1010	30
5PI	1040	2000	Maryborough		2FC 610	3000	4ZO 1010	25
Cummock			4MD 1060	50	2GB 870	1000	Gisbourne	
2CR	550	10000	Melbourne		2KY 1020	1000	2ZJ 980	200
Denilquin			3AK 1500	200	2SM 1270	1000	2ZM 1150	15
2QN	1440	.....	3AR 580	4500	2UE 950	1000	Greymouth	
Geelong			3AW 1280	600	2UW 1110	1000	3ZR 940	175
3GL	1350	50	3DB 1030	600	Tamworth		Hastings	
Goulburn			3KZ 1180	600	2TM 1300	50	2ZL 1240	20
2GN	1390	100	3LO 770	3500	Toowoomba		Invercargill	
Grafton			3UZ 930	650	2GR 1000	500	4ZP 620	100
2GF	1210	50	3XY 1420	600	Townsville		Manurewa	
Griffith			Merredin		4TO 1170	200	1ZM 1260	50
2RG	1090	50	6MD 1330	500	Ulverstone		Masterton	
Gunnedah			Mildura		U7V 1460	300	2ZD 1170	5
2MO	1360	50	3MA 900	50	Wagga		Napier	
Gympie			Minding		2WG 1150	200	2ZH 820	65
4GY	1430	50	6WA 560	10000	Warrnambool		Nelson	
Hamilton			Murray Bridge		3YB 1060	25	2ZR 920	30
3HA	1010	300	5MU 1340	100	Warwick		New Plymouth	
Hobart			Narrabri		4WK 900	50	2YB 760	100
7HO	860	1000	2NZ 1170	2000	Wollongong		Palmerston N.	
7ZL	590	1000	Newcastle		2WL 1430	50	2ZF 960	150
Horsham			2HD 1140	500	<b>FIJI</b>		2ZO 1400	100
3HS	1370	50	2KO 1410	500	Suva		<b>Wairoa</b>	
3WV	580	10000	2NC 1230	2000	..... 880 .....		2ZP 900	105
Invernell			Northam		<b>NEW CALEDONIA</b>		Wellington	
2LV	980	100	6AM 980	1000	Noumea		2YA 570	5000
Ipswich			Oakey		FJP 600	500	2YC 840	250
4IP	1440	50	4AK 1220	1000				
Kalgoorlie			Orange					
6GF	720	2000	2GZ 990	2000				
6KG	1210	85						

The St. Louis Star-Times, licensee of an "apex" station in St. Louis, was recently refused permission to operate a 1000-watt station on 1250 kcs. in St. Louis. On June 16, however, they purchased, for \$105,000, KFRU in Columbia, Missouri, and it is presumed that, as soon as possible, this station will be moved to St. Louis.

KOB in Albuquerque, N. Mex. has been operated by the Albuquerque Journal for several years under lease, but on June 20 they bought it for \$25,000 cash from the New Mexico State College.

KFBB, one of the country's oldest stations, and KGVO, in Missoula, Mont. have signed on with the CBS and will handle network programs as soon as adequate telephone lines have been installed. KFBB, owned by the Buttrey Broadcast, Inc., was first licensed in 1922 at Havre, Mont. He operated it as a non-commercial until 1929, when he moved it to Great Falls. During the past eight years, KFBB has grown from a 50-watter to its present status, with a new 5000-watt Western Electric transmitter and a 420 foot vertical aerial.

FOREIGN B. C. STATIONS BY CALLS

CB57	570	CX30	1130	HSP1	856	LR8	1150	PRB5	1415	RW54	580	XGOP	950
CB62	620	CX32	1170	H57PJ	750	LR9	1030	PRB6	1170	RW54	950	XGOQ	1070
CB64	640	CX34	1210	1BA	1059	LR10	790	PRB7	800	RW55	932	XGOS	711
CB73	730	CX36	1250	1BZ	536	LR11	1390	PRB8	1000	RW56	640	XGOT	1000
CB76	760	CX38	1290	1FI	610	LS1	710	PRB9	1017	RW57	1068	XGOT	1220
CB78	780	CX40	1330	1GE	986	LS2	1190	PRC2	1090	RW61	888	XGOW	1010
CB82	820	CX42	1370	1IMI	814	LS3	630	PRC3	920	RW64	740	XGOY	690
CB84	840	CX44	1410	1INA	1104	LS4	670	PRC4	1304	RW65	734	XGOZ	1150
CB89	890	CX46	1450	1IPA	565	LS5	1110	PRC5	1364	RW68	577	XGSA	1335
CB90	900	CX48	1500	1IRO	713	LS6	1350	PRC6	980	RW70	1040	XGSS	610
CB93	930	EAJ1	790	1ITO	1140	LS7	1310	PRC7	1090	RW71	689	XGTM	840
CB97	970	EAJ2	735	1ITR	1140	LS8	1230	PRC8	1030	RW73	859	XGTM	1210
CB101	1010	EAJ3	850	JBKA	1030	LS9	1270	PRC9	1175	RW74	680	XHGS	730
CB106	1060	EAJ4	1492	JFAC	670	LS10	590	PRD2	932	RW75	1095	XHHD	860
CB111	1110	EAJ5	731	JFBK	720	LS11	1440	PRD3	1207	RW78	767	XHHH	740
CB114	1140	EAJ6	1492	JFCF	580	LT1	780	PRD4	1364	RW79	610	XHHE	940
CB116	1160	EAJ7	1095	JOAG	930	LT3	1080	PRD5	1400	RW82	608	XHHF	960
CB118	1180	EAJ8	1258	JOAK-1	590	LT5	1160	PRD7	1430	RW84	635	XHHG	1020
CB120	1200	EAJ9	1492	JOAK-2	590	LT7	1340	PRD8	1132	RW85	871	XHHH	1040
CB124	1240	EAJ10	1492	JOBG	970	LT8	840	PRD9	769	RW86	1013	XHHI	1060
CB126	1260	EAJ11	1500	JOBK-1	750	LT9	1200	PRE2	1330	SBA	704	XHHJ	1080
CB130	1300	EAJ12	1492	JOBK-2	1085	LT10	1300	PRE3	1220	SBB	941	XHHK	620
CB132	1320	EAJ13	1492	JOCC	655	LT11	1260	PRE4	940	SBC	1312	XHHL	1140
CB134	1340	EAJ14	1500	JOCK-1	810	LUHO	750	PRE5	1410	SBD	601	XHHN	1200
CB138	1380	EAJ15	1022	JOCK-2	1175	LU2	900	PRE6	740	SBH	1131	XHHP	1260
CB139	1390	EAJ16	1492	JODG	635	LU6	1300	PRE7	788	SCA	1402	XHHQ	1280
CB140	1400	EAJ17	1492	JODK-1	900	LU7	1240	PRE8	1270	SCB	1402	XHHR	1340
CB144	1440	EAJ19	1022	JODK-2	610	LV1	730	PRE9	1315	SCC	1086	XHHS	1100
CB144A	1440	EAJ20	1492	JOFF	990	LV2	880	PRF2	725	SCD	1402	XHHT	1500
CB144B	1440	EAJ21	1492	JOFK	850	LV3	620	PRF3	900	SCF	1402	XHHT	1160
CB144C	1440	EAJ23	1492	JOGG	790	LV5	1120	PRF4	923	SCF	1402	XHHV	880
CB146	1460	EAJ24	1492	JOHG	1050	LV6	690	PRF6	1050	SCG	1402	XHHX	920
CB150	1500	EAJ25	1492	JOHK	770	LV7	820	PRF7	1380	SCH	1402	XHHY	1240
CC58	580	EAJ26	1502	JOIG	1060	LV10	1210	PRF8	950	SCI	1402	XHHZ	1180
CC64	640	EAJ27	1492	JOJK	770	LV14	1240	PRF9	1360	SCJ	1530	XHIA	1410
CC96	960	EAJ29	1500	JOJK	830	MABS	1250	PRG3	1280	SCK	1312	XHIB	970
CC109	1090	EAJ30	1500	JOJG	1040	MTBY	890	PRG4	1442	SCL	1402	XHJA	570
CC117	1170	EAJ31	1492	JOJK	710	MTCY	560	PRG5	720	SCM	1402	XHKA	1050
CC136	1360	EAJ32	1500	JOJG	800	MTFY	675	PRG6	1500	SCN	1402	XHKB	590
CC141	1410	EAJ33	1492	JOJK	700	OAX4A	750	PRG7	1330	SCO	1312	XHKC	1210
CC143	1430	EAJ34	1492	JOJG	890	OAX4B	1200	PRG9	1200	SCP	1402	XHKR	1071
CD103	1030	EAJ35	1500	JOLK	680	OAX4C	1300	PRH2	600	SCQ	1312	XLHA	780
CD111	1110	EAJ36	1500	JONG	600	OAX4E	980	PRH3	1120	SCR	1402	XLHB	560
CD112	1120	EAJ37	1500	JONK	940	OAX4F	1080	PRH4	1480	SCS	1402	XLHC	720
CD121	1210	EAJ38	1500	JOOG	1080	OAX4H	1150	PRH8	820	SCT	1402	XLHD	720
CD132	1320	EAJ39	1492	JOJK	960	OAX4I	1120	PYG2	1070	SCU	1240	XLHE	1380
CD136	1360	EAJ40	1500	JOJK	780	OAX4L	1250	PYG8	1250	SCV	1402	XLHF	1380
CNR	601	EAJ41	1492	JOJK	920	OA4AR	1210	RW9	722	SCW	1402	XLHI	760
CPX	1300	EAJ42	1492	JORK	720	OA4K	1360	RW10	1438	SPTT	859	XLHJ	760
CP4	1040	EAJ43	1492	JOSK	735	OA4O	1277	RW13	960	TUA	1275	XLHK	800
CTIAA	629	EAJ44	1492	JOTK	625	OA6D	1400	RW16	710	VPB	705	XLHL	800
CT1GL	1031	EAJ45	1500	JOUK	645	OA6E	1350	RW17	686	VQ7LO	858	XLHM	1120
CW19	1340	EAJ46	1492	JOVK	680	OA6U	1443	RW18	610	VUB	855	XLHN	1120
CW23	820	EAJ47	1492	JOXK	980	OFA	895	RW20	1185	VUD	810	XLHO	1400
CW25	1430	EAJ48	1492	JQAK	652	OFD	749	RW22	617	VUG	880	XLHQ	1440
CW27	680	EAJ49	1500	KZEG	780	OFE	1340	RW23	676	VUL	933	XLIA	1320
CW29	1120	EAJ51	1492	KZIB	900	OFH	527	RW26	776	VUL	1200	XLIB	1450
CW31	1160	EAJ52	1492	KZRM	618.5	OKB	922	RW27	689	VUM	770	XLID	1370
CW33	1460	EAJ53	1492	LKA	850	OKK	1113	RW28	639	VUP	1500	XLIE	1170
CW35	1240	EAJ55	1492	LKB	850	OKP	633	RW28	725	VDYF	1270	XLIF	1250
CW37	1400	FFZ	1400	LKD	686	OKR	1094	RW29	648	XGCK	990	XLIG	1110
CW39	1320	FJP	600	LKF	776	ON4CE	1492	RW30	913	XGDZ	1470	XLII	830
CW41	1360	F31CD	840	LKH	519	ON4CE	1500	RW31	625	XGED	1340	XLIJ	790
CW43	1470	HAE	1122	LKI	845	ON4EB	1492	RW32	635	XGF	833	XLIK	1330
CW47	1480	HAE2	1321	LKK	1276	ON4RW	1500	RW33	1050	XGKA	895	XLIL	870
CX4	610	HAE3	1438	LKN	1357	PFB1	959	RW34	522	XGKM	1005	XLIM	910
CX6	650	HAE4	1465	LKO	1181	PP	995	RW35	598	XGML	714.3	XLIN	1390
CX8	690	HAL	546	LKP	850	PRA2	750	RW36	586	XGOA	660	XLIO	1090
CX10	730	HCZET	1153	LKR	1348	PRA3	860	RW38	662	XGOB	1090	XLIQ	850
CX12	770	HCZJB	1250	LKS	1276	PRA4	840	RW39	832	XGOC	1130	XLIR	1230
CX14	810	HJN	681	LKT	629	PRA5	1295	RW40	959	XGOD	990	XLKA	1194
CX16	850	HJ1ABA	1330	LR1	1070	PRA6	815	RW41	563	XGOE	1290	XLKB	825
CX18	890	HJ1ABM	1154	LR2	910	PRA7	706	RW42	565	XGOF	860	XLKS	1490
CX20	930	HJ3ABD	1100	LR3	950	PRA8	750	RW46	686.5	XGOG	560	XLPH	1210
CX22	970	HJ3ABE	1200	LR4	990	PRA9	1000	RW48	704	XGOH	590	XLTC	1210
CX24	1010	HJ3ABH	1005	LR5	830	PRB2	882	RW50	617	XGOI	900	XMHA	600
CX26	1050	HJ4ABJ	1000	LR6	870	PRB3	857	RW51	794	XGOK	500	XMHB	980
CX28	1090	HJ4ABK	1230	LR7	750	PRB4	960	RW52	556	XGOL	1030	XMHC	700

**FOREIGN B. C. STATIONS BY CALLS**

<b>XMHD</b>	840	<b>ZEK</b>	640	<b>2CH</b>	1190	<b>2UE</b>	950	<b>3GI</b>	830	<b>4CA</b>	1470	<b>5CK</b>	640
<b>XOCL</b>	1500	<b>ZP1</b>	1135	<b>2CO</b>	670	<b>2UW</b>	1110	<b>3GL</b>	1350	<b>4GR</b>	1000	<b>5CL</b>	730
<b>XOMO</b>	1450	<b>ZP4</b>	1275	<b>2CR</b>	550	<b>2WG</b>	1150	<b>3HA</b>	1010	<b>4GY</b>	1430	<b>5DN</b>	960
<b>XQHA</b>	580	<b>ZP5</b>	1465	<b>2FC</b>	610	<b>2WL</b>	1430	<b>3HS</b>	1370	<b>4IP</b>	1440	<b>5KA</b>	1200
<b>XQHB</b>	850	<b>ZP9</b>	898	<b>2GB</b>	870	<b>2XN</b>	1340	<b>3KZ</b>	1180	<b>4LG</b>	1100	<b>5MU</b>	1340
<b>XQHC</b>	1300	<b>ZTB</b>	790	<b>2GF</b>	1210	<b>2YA</b>	570	<b>3LO</b>	770	<b>4MB</b>	1060	<b>5PI</b>	1040
<b>XQHD</b>	1360	<b>ZTC</b>	600	<b>2GN</b>	1390	<b>2YB</b>	760	<b>3MA</b>	900	<b>4MK</b>	1160	<b>5RM</b>	850
<b>XQHE</b>	1460	<b>ZTD</b>	750	<b>2GZ</b>	990	<b>2YC</b>	840	<b>3SH</b>	1080	<b>4PM</b>	1360	<b>6AM</b>	980
<b>XQHF</b>	1480	<b>ZTJ</b>	645	<b>2HD</b>	1140	<b>2ZD</b>	1170	<b>3TR</b>	1240	<b>4QG</b>	800	<b>6CK</b>	1240
<b>XQHG</b>	1220	<b>ZTP</b>	952	<b>2KA</b>	1160	<b>2ZF</b>	960	<b>3UZ</b>	930	<b>4QN</b>	600	<b>6GF</b>	720
<b>XQHA</b>	1350	<b>ZUG</b>	560	<b>2KM</b>	1060	<b>2ZH</b>	820	<b>3WR</b>	1260	<b>4RK</b>	910	<b>6IX</b>	1240
<b>XQKE</b>	750	<b>1YA</b>	650	<b>2KO</b>	1410	<b>2ZJ</b>	980	<b>3WV</b>	580	<b>4RO</b>	1330	<b>6KA</b>	1070
<b>XQKC</b>	810	<b>1YX</b>	888	<b>2KY</b>	1020	<b>2ZL</b>	1240	<b>3XY</b>	1420	<b>4TO</b>	1170	<b>6KG</b>	1210
<b>YDA</b>	1510	<b>1ZB</b>	1090	<b>2LV</b>	980	<b>2ZM</b>	1150	<b>3YA</b>	720	<b>4WK</b>	900	<b>6MD</b>	1330
<b>YLZ</b>	583	<b>1ZM</b>	1260	<b>2MO</b>	1360	<b>2ZO</b>	1400	<b>3YB</b>	1060	<b>4YA</b>	790	<b>6ML</b>	1130
<b>YN</b>	648	<b>1ZS</b>	1420	<b>2NC</b>	1230	<b>2ZP</b>	900	<b>3YL</b>	1200	<b>4YO</b>	1140	<b>6PR</b>	880
<b>YVIRC</b>	960	<b>2AD</b>	1080	<b>2NR</b>	700	<b>2ZR</b>	920	<b>3ZM</b>	1470	<b>4ZB</b>	1010	<b>6WA</b>	560
<b>VY3RC</b>	1200	<b>2AY</b>	1480	<b>2NZ</b>	1170	<b>3AK</b>	1500	<b>3ZR</b>	940	<b>4ZC</b>	1280	<b>6WF</b>	690
<b>VY4RC</b>	750	<b>2BE</b>	1470	<b>2QN</b>	1440	<b>3AR</b>	630	<b>4AK</b>	1220	<b>4ZL</b>	1220	<b>7BU</b>	1390
<b>VY5RMO</b>	1300	<b>2BH</b>	1330	<b>2RG</b>	1090	<b>3AW</b>	1280	<b>4AY</b>	1450	<b>4ZM</b>	1010	<b>7HO</b>	860
<b>VY11RMO</b>	1034	<b>2BL</b>	740	<b>2RN</b>	1340	<b>3BA</b>	1320	<b>4BC</b>	1120	<b>4ZO</b>	1010	<b>7LA</b>	1100
<b>VY6RV</b>	670	<b>2BS</b>	1450	<b>2SM</b>	1270	<b>3BO</b>	970	<b>4BH</b>	1380	<b>4ZP</b>	620	<b>7NT</b>	750
<b>ZBW</b>	845	<b>2CA</b>	1050	<b>2TM</b>	1300	<b>3DB</b>	1030	<b>4BK</b>	1290	<b>4ZR</b>	1340	<b>7UV</b>	1460
								<b>4BU</b>	1480	<b>5AD</b>	1310	<b>7ZL</b>	590

A construction permit has been granted WQDM, St. Albans, Vt., to install new equipment, to move the transmitter from a location on Kingman St. in the city, to St. Alban's Bay, to change the frequency from 1370 to 1390 kcs., and to increase power from 100 watts to one kilowatt.

\* \* \*

WTHT, Hartford, Conn., will become the tenth member of the Inter-City Group when the new transmitter gets under operation. It will also be a member of Mr. Shepard's New Colonial Network. WTHT is a 100-watt daytime station owned by the Hartford Times and working on 1200 kcs.

\* \* \*

The Mutual Broadcasting System will be a coast-to-coast network before winter comes. Negotiations have been completed by which the Don Lee Network in California, and stations KFEL-KVOD of Denver, became members of the MBS.

Plans are being considered to bring several other stations into this fast-growing network. Mutual, less than two years old, has had by far the swiftest rise to transcontinental stature of any network in the history of radio.

John Long, Jr., Chief Engineer of WHAM at Rochester, N. Y., announces that their "apex" auxiliary, W8XAI, will shift its frequency from 31.6 megs to 41 megs. The reason for the change is to avoid ignition interference from airplanes and automobiles, which seems to be more prevalent on 31 megs.

\* \* \*

The most powerful radio station in the Far East, MTCY, Hsinking, Manchukuo, broadcasts daily from 1730 to 0930, EST. This 100,000 watt station on 560 kcs. announces in four languages, including English, and will verify correct reports.

\* \* \*

Headquarters of the Universal DX Club have been moved from Hackensack to 345 Maple Ave., Oradell, N. J. Correspondence for the Globe Circlers DX Club should now be sent to Raphael Geller, 1652 Radcliff Ave., Bronx, N. Y.

\* \* \*

Two stations in high power regional channels wish to increase power. WLAC, Nashville on 1470 and WCKY, Covington, on 1490, have requested permission to boost their power from 5000 to 50,000 watts.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

540 keys. (555.2)

CJRM ak 1000 F Moose Jaw, Sask. —J. Richardsons & Sons, 311 Main St.

550 keys. (545.1)

CFNB	ak	500	F (1)	Fredericton, N. B.	—J. S. Neill & Sons, York St.
KFUO	ae	500	2 (1)	St. Louis, Mo.	—Evang. Lutheran Synod, 801 DeMun St.
KFYR	ae	1000	N (5)	Bismarck, N. D.	—Meyer Brdcstg. Co., 320 Broadway
KOAC	ak	1000	....	Corvallis, Ore.	—State Agricultural College
KSD	ak	1000	2R (5)	St. Louis, Mo.	—St. Louis Post-Dispatch
KTSA	ak	1000	C (5)	San Antonio, Tex.	—KTSA Broadcasting Co.
WDEV	ae	500	D	Waterbury, Vt.	—Mary M. Whitehill, Stowe St.
WGR	ck	1000	C	Buffalo, N. Y.	—Buffalo Brdcstg. Corp., Rand Bldg.
WKRC	ak	1000	CX	Cincinnati, Ohio	—WKRC, Inc., Hotel Alms
WWSA	ak	500	D	Harrisonburg, Va.	—Marion Gilliam, Main & Market Sts.

560 keys. (535.4)

KFDM	ak	500	(1)	Beaumont, Tex.	—Sabine Brdcstg. Co., Box 2950
KLZ	ae	1000	CX	Denver, Colo.	—KLZ Brdcstg. Co., Shirley-Savoy Hotel
KSFO	ak	1000	....	San Francisco, Cal.	—Russ Bldg.
KWTO	ak	5000	D	Springfield, Mo.	—Ozarks Brdcstg. Co., St. Louis & Kimbrough
WFIL	ak	1000	B	Philadelphia, Pa.	—WFIL Brdcstg. Co., 801 Market St.
WIND	ak	1000	(5)	Gary, Ind.	—Johnson-Kennedy Corp., 504 Broadway
WIS	ae	1000	N (5)	Columbia, S. C.	—Station WIS, Inc., Box 635
WQAM	ae	1000	C	Miami, Fla.	—Miami Brdcstg. Co., 327 N. E. 1st Ave.
XEAO	ak	250	(15)	Mexicali, L. C.	—Luis Castro, Altamirano 156
XEFC	ak	100	....	Merida, Yuc.	—J. Molina Font, Calle 59, No. 517

570 keys. (526.0)

KGKO	ak	250	C (1)	Wichita Falls, Tex.	—W. F. Brdcstg. Co., 9th & Indiana
KMTR	ak	1000	....	Hollywood, Calif.	—KMTR Radio Corp., 915 N. Formosa Ave.
KVI	ak	1000	C	Tacoma, Wash.	—Puget Sound Brdcstg. Co., Inc., Rust Bldg.
WKBN	ae	500	1C	Youngstown, Ohio	—WKBN Brdcstg. Corp., 17 N. Champion St.
WMCA	ak	500	X	New York, N. Y.	—Knickerbocker Brdcstg. Co., 1697 Broadway
WNAX	ak	1000	C (5)	Yankton, S. D.	—WNAX Brdcstg. Co., 2nd and Capitol
WOSU	ak	750	1 (1)	Columbus, Ohio	—Ohio State University
WSYR	ak	250	BX	Syracuse, N. Y.	—315 Starret-Syracuse Bldg.
WWNC	ak	1000	N	Asheville, N. C.	—Citizen Brdcstg. Co., Inc., Flatiron Bldg.

580 keys. (516.9)

CFPR	z	50	....	Prince Rupert, B.C.	—Felix E. Batt, Box 79
CHRC	ak	100	F	Quebec, Que.	—CHRC, Ltd., Victoria Hotel
CJGX	ae	100	F	Yorkton, Sask.	—155 Royal Alexandria Hotel, Winnipeg, Man.
CKCL	ae	100	F	Toronto, Ont.	—Dominion Battery Co., 444 University
CKUA	ak	500	....	Edmonton, Alta.	—University of Alberta
KMJ	ak	500	C (1)	Fresno, Calif.	—McClatchey Brdcstg. Co.
KSAC	ak	500	2 (1)	Manhattan, Kans.	—State College of Agriculture
WGHS	ak	500	(1)	Charleston, W. Va.	—WOBU, Inc., Ruffner Hotel
WDBO	ae	1000	C	Orlando, Fla.	—Orlando Brdcstg. Co., Inc., Box 1097
WIBW	ak	1000	C2 (5)	Topeka, Kans.	—Eleventh & Topeka Blvd.
WILL	ak	1000	D	Urbana, Ill.	—University of Illinois
WTAG	ae	500	RX	Worcester, Mass.	—Worcester Telegram, 18 Franklin St.

590 keys. (508.2)

KHQ	ak	1000	R (2.5)	Spokane, Wash.	—Louis Wasmer, Inc., Sprague & Post
WEEI	ak	1000	RX	Boston, Mass.	—WEEI Brdcstg. Corp.
WKZO	ae	1000	D	Kalamazoo, Mich.	—WKZO, Inc., Burdick Hotel
WOW	ae	5000	R (5)	Omaha, Nebr.	—Woodmen of the World, 4th & Farnam
XEPN	ak	50000	..	Piedras Negras, Coah.	—P. Negras Brdcstg. Co., Box 360

600 keys. (499.7)

CFCF	ae	400	FN	Montreal, Que.	—Canadian Marconi Co., Royal Hotel
CJOR	ak	500	....	Vancouver, B. C.	—G. C. Chandler, Hotel Grosvenor
CMW	ak	1400	....	Havana, Cuba	—Paseo de Marti 105
CRCW	ak	500	F (1)	Windsor, Ont.	—C. R. B. Co., Guaranty Trust Bldg.
FQN	z	250	609	St. Pierre, Miq.	—.....

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFSD	ae	1000	B	San Diego, Calif.	—Airfan Radio Corp., U. S. Grant Hotel
WCAO	ae	500	C (1)	Baltimore, Md.	—Monumental Radio Co., 811 W. Lanvale
WICC	ae	500	C (1)	Bridgeport, Conn.	—So. Conn. Brdcstg. Corp., Stratfield Hotel
WMT	ak	1000	B (2.5)	Cedar Rapids, Ia.	—Iowa Brdcstg. Co., Hotel Montrose
WREC	ak	1000	C (2.5)	Memphis, Tenn.	—WREC, Inc., Hotel Peabody

### 610 kcys. (491.5)

KFRC	ck	1000	C (5)	San Francisco, Cal.	—Don Lee Brdcstg. Sys., 1000 Van Ness Ave.
WDAF	ak	1000	R (5)	Kansas City, Mo.	—Kansas City Star, 1729 Grand Ave.
WIP	ae	1000	....	Philadelphia, Pa.	—Penn. Brdcstg. Co., Gimbel Bldg.
WJAY	ae	500	D	Cleveland, Ohio	—Cleveland Brdcstg. Corp., 1224 Huron Rd.
XEXM	z	....	....	Mexico City, D. F.	—Secretaria de Educacion Publica
XFX	ak	1000	....	Mexico City, D. F.	—Secretaria de Educacion Publica

### 620 kcys. (483.6)

KGW	ak	1000	R (5)	Portland, Ore.	—Oregonian Pub. Co., 325 Adler St.
KTAR	ae	1000	N	Phoenix, Ariz.	—KTAR Brdcstg. Co., Heard Bldg.
WFLA	ae	1000	Na (5)	Clearwater, Fla.	—Chamber of Commerce, Box 119
WHJB	ak	250	D	Greensburg, Pa.	—Pittsburgh Radio Supply, 128 Penna. Ave.
WLBZ	ak	500	C (1)	Bangor, Maine	—Maine Brdcstg. Co., 100 Main St.
WSUN	ae	1000	Na (5)	St. Petersburg, Fla.	—Chamber of Commerce, Recreation Pier
WTMJ	ae	1000	N (5)	Milwaukee, Wis.	—The Journal Co., 333 W. State St.

### 630 kcys. (475.9)

CFCO	ak	100	F	Chatham, Ont.	—John Beardall, Wm. Pitt Hotel
CFCY	ae	1000	F	Charlottetown, P.E.I.	—8 Brace Block, Queen St.
CJRC	ak	1000	F	Winnipeg, Man.	—J. Richardson & Son, Royal Alexandria Hotel
CKOV	ak	100	F	Kelowna, B. C.	—Okanagan Brdcsters., Box 243
KFRU	ak	500	I (1)	Columbia, Mo.	—KFRU, Inc., 9th and Elm Sts.
KGFX	ak	200	D	Pierre, S. D.	—Dana McNeil, Box 573
WGBF	ak	500	I	Evansville, Ind.	—Evansv. on the Air, Inc., 519 Vine St.
WMAA	ak	250	B (5)	Washington, D. C.	—NBC, Inc., 712—11th St., N. W.
WOS	ak	500	1D	Jefferson City, Mo.	—State Highway Control, Capitol Bldg.
WPRO	ak	250	....	Providence, R. I.	—Cherry & Webb Brdcstg. Co., 15 Chestnut
XEZ	z	500	....	Merida, Yuc.	—Jorge L. Falomeque

### 640 kcys. (468.5)

CMBC	dj	150	....	Havana, Cuba	—Maximo Gomez 139
KFI	ah	5000	R	Los Angeles, Calif.	—E. C. Anthony, Inc., 1000 S. Hope St.
WHKC	ae	500	....	Columbus, Ohio	—Ass. Radiocstg. Corp., Deshler-Wallick Hot.
WOI	ae	5000	D	Ames, Iowa	—Iowa State College
WSPG	z	500	P	Portland, Me.	—Portland Brdcstg. Sys., Inc.
XEOX	ak	500	....	Saltillo, Coah.	—Antonio Garza C., Victoria 4 (altos)

### 650 kcys. (461.3)

TIGPH	ak	1000	....	San Jose, C. R.	—“Alma Tica”, Apartado 800
WSM	ae	50000	N	Nashville, Tenn.	—Nat'l. Life & Accident, 301—7th St.

### 660 kcys. (454.3)

WAAW	ak	500	D	Omaha, Neb.	—Omaha Grain Exchange
WEAF	ak	50000	R	New York, N. Y.	—NBC, Inc., 30 Rockefeller Plaza

### 670 kcys. (447.5)

WMAQ	ak	50000	N	Chicago, Ill.	—NBC, Inc., Merchandise Mart
------	----	-------	---	---------------	------------------------------

### 680 kcys. (440.9)

CMCG	ak	150	....	Havana, Cuba	—La Onda, S. A., Calle Malecon 340
KFEQ	ak	2500	D	St. Joseph, Mo.	—KFEQ, Inc., Schneider Bldg.
KPO	ak	50000	R	San Francisco, Cal.	—NBC, Inc., 111 Sutter St.
RDN	z	500	....	San Salvador, E. S.	—Republic of El Salvador
VAS	akn	2000	685	Glace Bay, N. S.	—Canadian Marconi Co., Ltd.
VOWR	ck	500	681	St. John's, Nfld.	—Wesley United Church, Box 157
WPTF	ae	5000	DnN	Raleigh, N. C.	—WPTF Radio Co., 324 Fayetteville St.

**NORTH AMERICAN B. C. STATIONS BY FREQUENCIES**

**690 kcys. (434.5)**

CFRB	ak	10000	C	Toronto, Ont.	—Rogers-Majestic Corp., 37 Bloor St.
CJGJ	aj	100	F	Calgary, Alta.	—Albertan Pub. Co., New Albertan Bldg.
NAA	akn	1000	.....	Arlington, Va.	—United States Navy
XET	ak	500	.....	Monterrey, N. L.	—P. O. Box 203, Hidalgo, N. L.

**700 kcys. (428.3)**

WLW	ak	500000	N	Cincinnati, Ohio	—Crosley Radio Corp., 1329 Arlington St.
-----	----	--------	---	------------------	--

**710 kcys. (422.3)**

KIRO	ae	1000	.....	Seattle, Wash.	—Tower Bldg., Queen City Brdcstg. Co.
KMPC	ak	500	.....	Beverly Hills, Cal.	—Bev. Hills Brdcstg. Corp., 9631 Wilshire
WOR	ak	50000	.....	Newark, N. J.	—Bamberger Brdcstg. Sys., 147 Market St.
XEN	ak	1000	.....	Mexico City, D. F.	—G. de la Conde, Dolores No. 1

**720 kcys. (416.4)**

WGN	ak	50000	.....	Chicago, Ill.	—WGN, Inc., 435 N. Michigan Ave.
-----	----	-------	-------	---------------	----------------------------------

**730 kcys. (410.7)**

CFPL	ak	100	F	London, Ont.	—London Free Press, Richmond St.
CJCA	ah	1000	F	Edmonton, Alta.	—Edmonton Journal, 10122—100 A St.
CKAC	ck	5000	C	Montreal, Que.	—La Presse Pub. Co., 980 St. Catherine St.
CKPR	ak	100	F	Fort William, Ont.	—Dougall Motor Co., Royal Edward Hotel
CMK	ae	3000	.....	Havana, Cuba	—Cia Nacional de Radio, Hotel Plaza
XEBC	z	5000	.....	Agua Caliente, L. C.	—.....

**740 kcys. (405.2)**

KMMJ	ae	1000	D	Clay Center, Neb.	—KMMJ, Inc.
KTRB	ak	250	D	Modesto, Calif.	—McTammany & Bates, Box 405
WHBB	ak	250	D	Portsmouth, N. H.	—Granite State Brdcstg. Corp., Box 522
WSB	ah	50000	N	Atlanta, Ga.	—Atlanta Journal, 7 No. Forsyth St.

**750 kcys. (399.8)**

CMCW	dk	150	.....	Havana, Cuba	—Radio Pilot, Calle San Lazaro 113
KGU	aj	2500	N	Honolulu, T. H.	—Advertiser Pub. Co., Kapiolani & South Sts.
WJR	ak	50000	C	Detroit, Mich.	—WJR, Inc., Fisher Bldg.
XEAM	z	7.5	.....	Matamoros, Tams.	—Edificio Banco Longoria

**760 kcys. (394.5)**

CMHX	ak	200	.....	Cienfuegos, Cuba	—F. Chavarry, P. O. Box 205
KXA	ae	250	(5)	Seattle, Wash.	—Am. Radio Tel. Co., 312 Bigelow Bldg.
WBAL	ae	2500	BSy	Baltimore, Md.	—Am. Radio News Corp., Lexington Bldg.
WEW	ae	1000	D	St. Louis, Mo.	—St. Louis University, 221 N. Grand Blvd.
WJZ	ak	50000	BSy	New York, N. Y.	—NBC, Inc., 30 Rockefeller Plaza
XEOK	ak	250	.....	Tijuana, L. C.	—Carlos de la Sierra, Calle 5a, 312

**770 kcys. (389.4)**

CMBS	ak	150	.....	Havana, Cuba	—Calzada y H St., Vedado, Habana
KFAB	ae	10000	CSy	Lincoln, Neb.	—KFAB Brdcstg. Co., Cornhusker Hotel
WBBM	ae	50000	CSy	Chicago, Ill.	—WBBM Brdcstg. Corp., 410 N. Michigan Ave.

**780 kcys. (384.4)**

CHWK	dk	100	F	Chilliwack, B. C.	—Chilliwack Brdcstg. Co., Box 452
CKSO	ak	1000	F	Sudbury, Ont.	—W. E. Mason, Grand Theater Bldg.
CMJK	ak	250	.....	Camaguey, Cuba	—Cia. Nacional de Radio, Finlay No. 3
KEHE	ak	500	(1) X	Los Angeles, Calif.	—Evening Herald Publishing Co.
KFDY	ae	1000	D	Brookings, S. D.	—S. Dak. State College, Box L
KFOD	ck	250	.....	Anchorage, Alaska	—Anchorage Radio Club, 411 Fourth Ave.
KGHL	ak	1000	N(2.5)	Billings, Mont.	—Northwestern Auto Supply, 5th & Broadway
WEAN	ae	500	CX	Providence, R. I.	—Shepard Brdcstg. Serv., Inc., New Crown Ht.

**NORTH AMERICAN B. C. STATIONS BY FREQUENCIES**

WMC	ak	1000	N (5.)	Memphis, Tenn.	—Memphis Commercial Appeal, Inc.
WTAR	ae	500	NX (1)	Norfolk, Va.	—WTAR Radio Corp., Bank of Com. Bldg.
XEYZ	z	10000	....	Mexico City, D. F.	—Angel M. Diez, Avenida Juarez 48

**790 kcys. (379.5)**

CMGH	z	250	....	Matanzas, Cuba	—"Rialto," E. Blanchet 25
KGO	ak	7500	B	San Francisco, Cal.	—NBC, Inc., 111 Sutter St.
WGY	ak	50000	R	Schenectady, N. Y.	—General Electric Co., 1 River Road

**800 kcys. (374.8)**

HIX	ak	700	....	Trujillo, D. R.	—J. R. Saladin, Director General
TIX	ak	....	....	San Jose, C. R.	—"La Reina del Aire," Apartado 800
WBAP	ak	50000	Na	Fort Worth, Tex.	—Ft. Worth Star Telegram
WFAA	ak	50000	Na	Dallas, Tex.	—A. H. Belo Corp., Baker Hotel
WTBO	ak	250	D	Cumberland, Md.	—Associated Brdcstg. Corp., Box 794

**810 kcys. (370.2)**

CMCF	ak	600	....	Havana, Cuba	—Oscar Gutierrez, Paseo de Marti 9
WCCO	ae	50000	C	Minneapolis, Minn.	—Northwestern Brdcstg. Co., Nicollet Hotel
WNYC	ak	1000	D	New York, N. Y.	—City of N. Y., Centre & Duane Sts.
XFC	z	350	....	Aguascalientes, Ags.	—Gobierno del Estado de Aguascalientes

**820 kcys. (365.6)**

CMHW	ak	100	....	Cienfuegos, Cuba	—Ramon Gonzales, Box 226
WHAS	aj	50000	C	Louisville, Ky.	—Courier-Journal, 300 W. Liberty St.
XEMZ	z	....	....	Coronado Isle, L. C.	—.....

**830 kcys. (361.2)**

CMJX	z	....	....	Camaguey, Cuba	—Teatro Principal
KOA	ak	50000	N	Denver, Colo.	—National Brdcstg. Co., Inc.
WEEU	ak	1000	D	Reading, Pa.	—Berks Brdcstg. Co., 533 Pennsylvania
WHDH	ae	1000	Dn	Boston, Mass.	—Matheson Radio Co., 62 Boylston
WRUF	ae	5000	Dn	Gainesville, Fla.	—University of Florida

**840 kcys. (356.9)**

CFQC	ak	1000	F	Saskatoon, Sask.	—Electric Shop, Ltd., 216 1st Ave., N.
CRCT	ak	5000	FN	Toronto, Ont.	—C. R. B. C., 485 Davenport Road
VOGY	ak	400	....	St. John's, Nfld.	—Newfoundland Hotel
XERA	ck	250000	....	Villa Acuna, Coah.	—Brinkley Hospital (Del Rio, Texas)

**850 kcys. (352.7)**

CMBN	z	150	....	Havana, Cuba	—Calle Pozos Dulces 3, Rpt. Ensanche
KIEV	ak	250	D	Glendale, Calif.	—Cannon System, Ltd.
TIEP	z	500	....	San Jose, C. R.	—Eduardo Pinto H., Apartado 257
WESG	ak	1000	C	Elmira, N. Y.	—Cornell University, Mark Twain Hotel
WKAR	ae	1000	D	East Lansing, Mich	—Michigan State College
WWL	ae	10000	C	New Orleans, La.	—Loyola University, Roosevelt Hotel

**860 kcys. (348.6)**

WABC	ak	50000	C	New York, N. Y.	—Atlantic Brdcstg. Corp., 485 Madison Ave.
WHB	ak	1000	D	Kansas City, Mo.	—WHB Brdcstg. Co., Scarritt Bldg.
XEMO	ak	5000	....	Tijuana, L. C.	—Box 202, San Diego, Calif.

**870 kcys. (344.6)**

WENR	ak	50000	Na	Chicago, Ill.	—NBC, Inc., Merchandise Mart
WLS	ae	50000	Na	Chicago, Ill.	—Agri. Brdcstg. Co., 1230 Washington Blvd.

**880 kcys. (340.7)**

CFJC	ak	100	F	Kamloops, B. C.	—Review Pub. Co., Wilcox-Hall Bldg.
CMQ	ak	500	....	Havana, Cuba	—25 Numero 445, Vedado
CRCO	ak	1000	F	Ottawa, Ont.	—CRBC, Chateau Laurier Hotel



## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFKA	ak	500	2 (1)	Greeley, Colo.	—Mid-Western Radio Corp., Box 735
KLX	ae	1000	....	Oakland, Calif.	—Tribune Tower
KPOF	ae	500	2	Denver, Colo.	—Pillar of Fire, 1845 Champa St.
WCOC	ae	500	(1)	Meridian, Miss.	—Miss. Brdctg. Co., Box 603
WGBI	ae	500	1	Scranton, Pa.	—Scranton Brdcasters, Inc., 1000 Wyoming
WPHR	ak	500	D	Petersburg, Va.	—WLBG, Inc., Medical Arts Bldg.
WOAN	ae	250	1	Scranton, Pa.	—Scranton Times, 149 Penn Ave.
WSUI	ae	500	(1)	Iowa City, Iowa	—State University of Iowa

### 890 kcys. (336.9)

KARK	ak	250	(.5)X	Little Rock, Ark.	—Ark. Radio & Equip. Co., N. S. L. Bldg.
KPNF	ak	500	2 (1)	Shenandoah, Iowa	—KPNF, Inc., 407 Sycamore St.
KFPY	ak	1000	C (5)	Spokane, Wash.	—Symons Brdctg. Co., Symons Bldg.
KUSD	ae	500	2	Vermillion, S. D.	—University of South Dakota
WBAA	ak	500	(1)	W. Lafayette, Ind.	—Purdue University
WGST	ak	1000	C	Atlanta, Ga.	—Ga. School of Technology, Ansley Hotel
WJAR	ae	1000	R	Providence, R. I.	—The Outlet Co., Weybossett St.
WMMN	ak	250	C (.5)	Fairmont, W. Va.	—Monongahela Valley Brdctg. Co.
XEW	ak	5000	....	Mexico City, D. F.	—Cadena Radiodifusora Mexicana, Box 2516

### 900 kcys. (333.1)

KGBU	ak	500	X	Ketchikan, Alaska	—Alaska Radio & Serv. Co., Mile 5, Ward Cove
KHJ	ae	1000	C (5)	Los Angeles, Calif.	—Don Lee System, 7th & Bixel Sts.
KSEI	ck	250	(.5)	Pocatello, Idaho	—Radio Serv. Corp., 141 S. 6th St.
WBEN	ak	1000	R (5)	Buffalo, N. Y.	—WBEN, Inc., Hotel Statler
WELI	z	500	D	New Haven, Conn.	—City Brdctg. Corp.
WFMD	ah	500	D	Frederick, Md.	—Francis Scott Key Hotel
WJAX	ae	1000	N (5)	Jacksonville, Fla.	—City of Jacksonville
WKY	ae	1000	N	Oklahoma City, Okla.	—WKY Radiophone Co., Plaza Court Bldg.
WLBI	ak	2500	D	Stevens Point, Wis.	—State of Wisc., Fox Theater Bldg.
WTAD	ak	500	D	Quincy, Ill.	—Ill. Brdctg. Corp., State & 6th

### 910 kcys. (329.6)

CJAT	ak	1000	F	Trail, B. C.	—Kootenay Brdctg. Co., Box 1959
CKY	ak	1500	F	Winnipeg, Man.	—Man. Telephone Sys., Sherbrooke St.
CRCM	ak	5000	F	Montreal, Que.	—CRBC, 1231 St. Catherine St., W.
XENT	ak	15000	...	Nuevo Laredo, Tams.	—P. O. Box 410, Laredo, Texas

### 920 kcys. (325.9)

CMX	ae	1000	....	Havana, Cuba	—Lavin, Calle Obrapia y Oficios
HHK	ae	1000	....	Port-au-Prince, Haiti	—Haitian Government
KFEL	ak	500	a	Denver, Colo.	—Eugene O'Fallon, Inc., Albany Hotel
KOMO	ak	1000	R (5)	Seattle, Wash.	—Fishers Blend Station, Inc., Skinner Bldg.
KPRC	ak	1000	N (5)	Houston, Texas	—Houston Printing Co., Lamar Hotel
KVOD	ak	500	a	Denver, Colo.	—Colo. Radio Corp., Continental Oil Bldg.
WAAF	ak	1000	D	Chicago, Ill.	—Drovers Journal Pub. Co., Palmer House
WORL	ae	500	D	Boston, Mass.	—Brdctg. Serv. Organization, Inc.
WPEN	ak	250	(.5) 1	Philadelphia, Pa.	—Wm. Penn Brdctg. Co., 22nd & Walnut
WRAX	ak	250	1 (.5)	Philadelphia, Pa.	—WRAX Brdctg. Co., 217 S. Broad St.
WSPA	ae	1000	D	Spartanburg, S. C.	—Virgil Evans, Ravenel & Avant Sts.
WWJ	ak	1000	R (5)	Detroit, Mich.	—Evening News Assn., 616 Lafayette Blvd.
XEAA	ak	200	....	Mexicali, L. C.	—P. O. Box 714, Calexico, Calif.

### 930 kcys. (322.4)

CFAC	ak	100	F	Calgary, Alta.	—T. P. & C. Brdctg. Co., Southam Bldg.
CFCH	ak	100	F	North Bay, Ont.	—Roy H. Thompson, Capitol Theater Bldg.
CFLC	ae	100	....	Prescott, Ont.	—Radio Assn. of Prescott, 307 George St.
CHNS	ae	1000	F	Halifax, N. S.	—Maritime Brdctg. Co., Lord Nelson Hotel
CKNS	ae	100	F	Brantford, Ont.	—Telephone City Brdctg. Ltd., Arcade Bldg.
KMA	ak	1000	(2.5)	Shenandoah, Iowa	—Earl E. May Seed and Nursery Co.
KROW	ak	1000	....	Oakland, Calif.	—Educational Brdctg. Corp., 1803 Franklin
TIRH	z	50	....	San Jose, C. R.	—.....
WBRC	ak	1000	C	Birmingham, Ala.	—Birmingham Brdctg. Co., Bankhead Hotel
WDBJ	ae	1000	C (5)	Roanoke, Va.	—Times World Corp., P. O. Box 150
XEBH	z	500	....	Hermosillo, Sonora	—Carlos Halderamma, Obregon 10

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

940 kcys. (319.0)

KOIN ak 1000 C (5) Portland, Ore.  
 VOAS ak 100 St. John's, Nfld.  
 WAAT ae 500 D Jersey City, N. J.  
 WAVE bk 1000 N Louisville, Ky.  
 WCHS ae 1000 R (2.5) Portland, Maine  
 WDAY ae 1000 N (5) Fargo, N. D.  
 WHA ak 2500 DX Madison, Wis.  
 XEFO ak 5000 (XFO) Mexico City, D. F.

—KOIN, Inc., New Heathman Hotel  
 —Ayre & Sons, Ltd., Water St.  
 —Bremer Brdctg. Corp., 50 Journal Sq.  
 —WAVE, Inc., 1525 Brown Hotel  
 —Congress Square Hotel Co.  
 —WDAY, Inc., 118 Broadway  
 —University of Wisc., Radio Hall  
 —Av. 5 de Mayo 19

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.  
 YNVA z 30 Managua, Nic.

—H. R. Carson, Ltd., Marquis Hotel  
 —Calle G y 25, Vedado  
 —CRBC, 4 rue Larouche  
 —Warner Bros. Motion Pictures, Inc.  
 —Golden Empire Brdctg. Co.  
 —Midland Brdctg. Co., Pickwick Hotel  
 —NBC, Inc., National Press Bldg.  
 —.....

960 kcys. (312.3)

CHNC ak 1000 F New Carlisle, Que.  
 XEAW ck 50000 Reynosa, Tams.

—Gaspesian Radio Brdctg. Co., Ltd.  
 —Cla. Int. Difusora Reynosa, Apto 6

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.

—Calle Infanta 132  
 —Fishers Blend Station, Skinner Bldg.  
 —Chi. Fed. of Labor, 666 Lake Shore Dr.  
 —Seaboard Radio Brdctg. Corp.

980 kcys. (306.0)

KDKA ae 50000 B Pittsburgh, Pa.  
 XEF z 100 Juarez, Chih.

—Westinghouse Elec. Co., Grant Bldg.  
 —.....

990 kcys. (302.8)

WBZ ak 50000 BSy Boston, Mass.  
 WBZA ak 1000 BSy Springfield, Mass.  
 XEAF ak 500 Nogales, Sonora  
 XEK ak 100 Mexico City, D. F.  
 XES dk 250 Tampico, Tams.

—Westinghouse Elec. Co., Hotel Bradford  
 —Westinghouse Elec. Co., Hotel Kimball  
 —Francisco G. Elias, Hotel Central  
 —Arturo Martinez, Jalapa No. 51  
 —Fernando Sada, Box 309

1000 kcys. (299.8)

CMBZ ak 150 Havana, Cuba  
 KFVD ak 250 Dn Los Angeles, Calif.  
 TIGH z 500 San Jose, C. R.  
 WHO ak 50000 R Des Moines, Iowa  
 XEBK z 100 Nueyo Laredo, Tams.  
 XEY z 10 Merida, Yuc.

—Manuel y G. Salas, San Rafael 14  
 —Standard Brdctg. Co.  
 —.....  
 —Central Brdctg. Co., 914 Walnut St.  
 —.....  
 —Ramon Rubio, Calle 64, No. 568

1010 kcys. (296.9)

CHML ak 100 F Hamilton, Ont.  
 CHWC ak 500 Regina, Sask.  
 CKDC ak 100 Vancouver, B. C.  
 CKCK ak 500 Regina, Sask.  
 CKCO ak 100 F Ottawa, Ont.  
 CKIC ak 50 Wolfville, N. S.  
 CKWX ak 100 F Vancouver, B. C.  
 CMJA ak 50 Camaguey, Cuba  
 KGGF ak 1000 2 Coffeyville, Kans.  
 KQW ak 1000 San Jose, Calif.  
 TIGA z 30 1014 Cartago, C. R.  
 WHN ae 1000 (5) New York, N. Y.  
 WNAD ae 1000 2 Norman, Okla.  
 WNXX ak 1000 C (2) Knoxville, Tenn.  
 XEU ak 250 Veracruz, Ver.

—Maple Leaf Radio Co., Pigott Bldg.  
 —R. H. Williams & Sons, Kitchener Hotel  
 —Van. Daily Province, 142 Hastings W.  
 —Leader-Post Ltd., 1853 Hamilton St.  
 —Dr. Geldert, 272 Somerset St., W.  
 —Acadia University  
 —Western Brdctg. Co., Hotel Georgia  
 —Rafael Valdes, P. O. Box 64  
 —Powell & Platz, Coffeyville Journal Bldg.  
 —87 E. San Antonio St.  
 —.....  
 —Marcus Loew Agency, 1540 Broadway  
 —University of Oklahoma  
 —Continental Brdctg. Corp., Hotel Johnson  
 —Fernando Pazos S., Independencia 98

**NORTH AMERICAN B. C. STATIONS BY FREQUENCIES**

**1020 keys. (293.9)**

KYW	ak	10000	R	Philadelphia, Pa.	—Westinghouse Elec. Co., 1622 Chestnut St.
WDZ	ak	250	D	Tuscola, Ill.	—WDZ Brdcstg. Co., Inc.
XEJ	ak	1000	....	Juarez, Chih.	—Juan C. Buttner, P. O. Box 111

**1030 keys. (291.1)**

CFCN	ak	10000	....	Calgary, Alta.	—Toronto General Trust Bldg.
CKLW	ag	5000	....	Windsor, Ont.	—Guaranty Trust Bldg.
GMCY	ak	1000	....	Havana, Cuba	—Calle G y 215, Vedado
XEB	ak	10000	....	Mexico City, D. F.	—El Buen Tono, S. A., Aptdo 79-44

**1040 keys. (288.3)**

KRLD	ae	10000	C	Dallas, Texas	—KRLD Radio Corp., Adolphus Hotel
KWJJ	ak	500	....	Portland, Ore.	—KWJJ Brdcstg. Co., 622 Salmon St.
KYOS	z	250	DP	Merced, Calif.	—Merced Star Publishing Co.
WTIC	ah	50000	R	Hartford, Conn.	—Travelers Brdcstg. Co., 26 Grove St.

**1050 keys. (285.5)**

CMKDD	ak	250	....	Santiago, Cuba	—Radioemisora Oriental, Box 23
CRCK	ak	1000	F	Quebec, Que.	—CRBC, Chateau Frontenac Hotel
KFBI	ak	5000	Dn	Abilene, Kans.	—Farmers & Bankers Life, Box 345
KNX	ak	50000	....	Hollywood, Calif.	—West. Brdcstg. Co., 1558 N. Vine St.
TIFA	z	75	....	San Jose, C. R.	—.....

**1060 keys. (282.8)**

KTHS	ae	10000	N	Hot Springs, Ark.	—Chamber of Commerce, Box 86
VOAC	z	40	1065	St. John's, Nfld.	—.....
WBAL	ak	10000	B	Baltimore, Md.	—Am. Radio News Corp., Lexington Bldg.
WJAG	ak	1000	D	Norfolk, Neb.	—Norfolk Daily News
XEA	ak	500	....	Guadalajara, Jal.	—Alberto Palos Sauza

**1070 keys. (280.2)**

CMBX	ak	500	....	Havana, Cuba	—A. Alvarez, San Miguel 194-altos
CMHA	z	50	....	Sagua la Grande, C.	—Abelardo Menocal, Carrillo No. 31
KJBS	ak	500	Dn	San Francisco, Cal.	—Julius Brunton & Sons, 1380 Bush St.
WCAZ	ak	100	D	Carthage, Ill.	—Superior Brdcstg. Serv., 97½ Adams
WTAM	ak	50000	R	Cleveland, Ohio	—NBC, Inc., 1367 E. 6th St.

**1080 keys. (277.6)**

WBT	ak	50000	C	Charlotte, N. C.	—Station WBT, Inc., Wilder Bldg.
WCBD	ak	5000	1Dn	Waukegan, Ill.	—WCBD, Inc., Karcher Hotel
WBMI	ak	5000	1Dn	Chicago, Ill.	—Moody Bible Inst., 153 Institute Place

**1090 keys. (275.1)**

KMOX	ak	50000	C	St. Louis, Mo.	—Voice of St. Louis, 401 S. 12th St.
XEAQ	ak	1000	....	Rosarito, L. C.	—P. O. Box 32, Tijuana

**1100 keys. (272.6)**

CRCV	ak	1000	FX	Vancouver, B. C.	—CRBC, Can. Nat'l. Railway Station
KGDM	ak	1000	D	Stockton, Calif.	—E. F. Pepper, 42 S. California St.
KWKH	ae	10000	C	Shreveport, La.	—Times Pub. Co., Spring & Fannin Sts.
WLWL	ae	5000	1	New York, N. Y.	—415 W. 59th St.
WPG	ak	5000	1G	Atlantic City, N. J.	—City of Atlantic City, Convention Hall
XEL	z	250	....	Mexico City, D. F.	—Plaza de San Juan 15

**1110 keys. (270.1)**

CMCJ	ak	500	....	Havana, Cuba	—Rafael Rodriguez, Estevez No. 4
KSOO	ak	2500	Dn	Sioux Falls, S. D.	—Sioux Falls Brdcstg. Co., Carpenter Hotel
WRVA	ae	5000	N	Richmond, Va.	—Larus & Bros., 22nd & Gary Sts.
XELO	z	10000	....	Piedras Negras, Co.	—Piedras Negras Brdcstg. Co., Madero 53

**NORTH AMERICAN B. C. STATIONS BY FREQUENCIES**

**1120 kcys. (267.7)**

CHLP	ak	100	F	Montreal, Que.	—La Patrie Pub. Co., Sun Life Bldg.
CHSJ	ae	500	F (1)	St. John, N. B.	—N. B. Brdcstg. Co., Admiral Beatty Hotel
CKOC	ak	500	F (1)	Hamilton, Ont.	—Westworth Brdcstg. Co., Wentworth Bldg.
CKX	ak	100	F	Brandon, Man.	—Man. Telephone Sys., City Hall Square
CMGF	dk	150	....	Matanzas, Cuba	—Calle Gnrl. Betancourt No. 51
CMKM	ak	50	....	Manzanillo, Cuba	—Merchan P. Figeredo, P. O. Box 4
KFIO	ae	100	D	Spokane, Wash.	—Spokane Brdcstg. Co., Ziegler Bldg.
KFSG	ag	500	a (2.5)	Los Angeles, Calif.	—Echo Park Assn., 1100 Glendale Blvd.
KRKD	aj	500	a (2.5)	Los Angeles, Calif.	—Radio Brdcsters, Inc., 815 Spring Arcade
KRSC	ak	100	DX	Seattle, Wash.	—Radio Sales Corp., Wash. Athletic Club
WCOP	ak	500	D	Boston, Mass.	—Mass. Brdcstg. Corp.
WDEL	ak	250	(.5)	Wilmington, Del.	—WDEL, Inc., 10th & King Sts.
WISN	ak	250	(1)	Milwaukee, Wis.	—Hearst Radio, Inc., 123 W. Michigan St.
WTAW	ae	500	....	College Station, Tex.	—Agriculture & Mechanical College

**1130 kcys. (265.3)**

CMJI	ak	50	....	Ciego de Avila, Cuba	—Gilberto Gesse L., Independencia 95
KSL	ae	50000	C	Salt Lake City, Utah	—Radio Service Corp., Vermont Bldg.
WJJD	ak	20000	Dn	Chicago, Ill.	—WJJD, Inc., 201 N. Wells St.
WOV	ag	1000	D	New York, N. Y.	—International Brdcstg. Co., 132 W. 43rd.

**1140 kcys. (263.0)**

CMBG	z	200	....	Havana, Cuba	—John L. Stowers, Hospital No. 100
KVOO	ak	25000	1N	Tulsa, Okla.	—Southwestern Sales Corp., Wright Bldg.
WAPI	ae	5000	1N	Birmingham, Ala.	—WAPI Brdcstg. Corp., Protective Life Bldg.
WSPR	z	500	....	Springfield, Mass.	—Connecticut Valley Brdcstg. Co.

**1150 kcys. (260.7)**

CMJF	z	200	....	Camaguey, Cuba	—John Stowers, Republica No. 88
WHAM	ae	50000	B	Rochester, N. Y.	—Stromberg-Carlson, 100 Carlson Road
XED	ak	2500	1155	Guadalajara, Jal.	—Cia. Radiofonografica, Apto. 197
XFFL	ak	250	....	Tijuana, L. C.	—P. O. Box 6, San Diego, Calif.
XEH	ak	250	....	Monterrey, N. L.	—Tarnava y Cia., P. O. Box 147
XEWZ	ak	100	....	Mexico City, D. F.	—J. Valezzi E., Box 291

**1160 kcys. (258.5)**

CMHJ	z	100	....	Cienfuegos, Cuba	—Romualdo Ugalde, Santa Elena 104
WOWO	ae	10000	1C	Fort Wayne, Ind.	—Westinghouse Elec. & Mfg. Co.
WWVA	ak	5000	1C	Wheeling, W. Va.	—W. Va. Brdcstg. Corp., Hawley Bldg.
XEAS	z	100	....	Saltillo, Coah.	—La Voz del Comercio en Saltillo
XEC	z	30	....	Tijuana, L. C.	—Luis F. Encisco, Teatro Zaragoza
XEP	ak	500	....	Juarez, Chih.	—Apartado 89
XESL	z	....	....	Tijuana, L. C.	—.....

**1170 kcys. (256.3)**

CMBD	z	150	....	Havana, Cuba	—Luis Perez Carcia, Calle 17, 3, Vedado
WCAU	ae	50000	C	Philadelphia, Pa.	—WCAU Brdcstg. Corp., 1622 Chestnut St.

**1180 kcys. (254.1)**

CMJO	ak	50	....	Ciego de Avila, Cuba	—Calle Maceo y C. Central
KEX	ak	5000	2B	Portland, Ore.	—Oregonian Pub. Co., Oregonian Bldg.
KOB	ak	10000	2	Albuquerque, N.M.	—Albuquerque Brdcstg. Co.
VE9EK	ak	10	1185	Montmagny, Que.	—J. A. Marquis, Box 52
WDGY	ak	1000	Dn (5)	Minneapolis, Minn.	—Dr. Geo. Y. Young, 909 W. Broadway
WINS	ak	1000	....	New York, N. Y.	—Hearst Radio, Inc., 114 E. 58th St.
WMAZ	ak	1000	....	Macon, Ga.	—Southeastern Brdcstg. Co., 211 Cotton
XEFA	z	500	....	Mexico City, D. F.	—Eduardo Limon S., Mediterraneo 236

**1190 kcys. (252.0)**

HJ	z	15	1195	Trujillo, D. R.	—Tuto Baez, Hostos 34
VONF	ak	500	1195	St. John's, Nfld.	—Dominion Brdcstg. Co., Ltd., Box 135
WATR	ak	100	D	Waterbury, Conn.	—WATR, Inc., 47 Grand St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WOAI ak 50000 N San Antonio, Tex. —Southland Industries, 1038 Navarro  
 WSAZ ak 1000 .... Huntington, W. Va. —WSAZ, Inc., P. O. Box 729

1200 keys. (249.9)

CHAB	ak	100	F	Moose Jaw, Sask.	—CHAB, Ltd., P. O. Box 26
CKNX	ak	50		Wingham, Ont.	—Wingham Radio Club, Box 65
CKTB	ae	100	F	St. Catharines, Ont.	—E. T. Sandell, Welland House
CMCO	ak	150		Havana, Cuba	—Enrique Lasanta, Calle Oficios 116
KADA	ak	100	D	Ada, Okla.	—C. C. Morris
KBTM	ak	100	D	Jonesboro, Ark.	—Jay P. Beard
KDNC	z	100	P	Lewistown, Mont.	—Democrat-News Co., Inc.
KFJB	ak	100	(25)	Marshalltown, Iowa	—Marshall Elec. Co., 1603 W. Main
KFXD	ae	100	(25)	Nampa, Idaho	—Frank Hurt, 1024 Twelfth Ave., S.
KFXJ	ak	100	(25)	Grand Junc., Colo.	—Western Slope Brdcastg. Co., Hillcrest Manor
KGDE	ak	100	(25)	Fergus Falls, Minn.	—C. L. Jaren
KGKE	ak	100		Sterling, Colo.	—Elmer Beeher, 109 W. 2nd St.
KGJF	ae	100		Los Angeles, Calif.	—Ben. S. McClashan, 1417 S. Figueroa
KGHI	ak	100	(25)	Little Rock, Ark.	—Arkansas Brdcastg. Co., Marion Hotel
KMLB	ak	100		Monroe, La.	—Liners Brdcastg. Sta., Francis Hotel
KSUN	ak	100		Lowell, Ariz.	—Copper Electric Co., Inc., Drawer C
KVCV	z	100	P	Redding, Calif.	—Golden Empire Brdcastg. Co.
KVEC	z	250	DP	San Luis Obispo, Cal.	—Valley Electric Co.
KVOS	dk	100		Bellingham, Wash.	—KVOS, Inc., 115 W. Magnolia St.
KWG	ak	100	C	Stockton, Calif.	—McClatchey Brdcastg. Co.
WABI	ak	100		Bangor, Maine	—Community Brdcastg. Service
WAIM	ak	100	XZ	Anderson, S. C.	—Anderson College
WAYX	z	100	P	Waycross, Ga.	—Waycross Brdcastg. Co.
WBBZ	ak	100		Ponca City, Okla.	—C. L. Carrell, 407 W. South Ave.
WBNO	ak	100	D	New Orleans, La.	—Hotel New Orleans
WCAT	ak	100	1	Rapid City, S. D.	—S. Dak. State School of Mines
WCAX	ak	100		Burlington, Vt.	—Burlington Daily News, 293 College St.
WCLO	ak	100	X	Janesville, Wis.	—Gazette Ptg. Co., 200 E. Milwaukee St.
WCPO	ak	100	(25)	Cincinnati, Ohio	—Continental Radio Co., Hotel Sinton
WEST	ae	100	3	Easton, Pa.	—Lancaster Brdcastg. Service
WFAM	ak	100	8	South Bend, Ind.	—South Bend Tribune, 225 W. Colfax Ave.
WHBC	ak	100	(25)	Canton, Ohio	—Edw. P. Graham, 319 Tuscola St., W.
WHBY	ak	100	(25)	Green Bay, Wis.	—WHBY, Inc., Bellin Bldg.
WIBX	aej	100	(3)C	Utica, N. Y.	—WIBX, Inc., 1st Nat'l. Bank Bldg.
WIL	ak	100	(25)	St. Louis, Mo.	—Mo. Brdcastg. Corp., Melbourne Hotel
WJBC	ak	100	6	Bloomington, Ill.	—Kaskaskia Brdcastg. Co.
WJBL	ak	100	6	Decatur, Ill.	—Commodore Brdcastg. Co., Gushard Bldg.
WJBW	ak	100	1	New Orleans, La.	—C. C. Carlson, Godchaux Bldg.
WJNO	ak	100		W. Palm Beach, Fla.	—Hazelwood, Inc.
WJRD	z	100	DP	Tuscaloosa, Ala.	—James R. Doss, Jr.
WKBO	ak	100	3	Harrisburg, Pa.	—Keystone Brdcastg. Corp., Penn Harris Hotel
WLVA	ak	100	(25)	Lynchburg, Va.	—Lynchburg Brdcastg. Corp., 915 Main St.
WMFR	ae	100	D	High Point, N. C.	—Hart & Nelson
WMPC	ak	100	(25)	Lapeer, Mich.	—1st Methodist Church, 81 Liberty St.
WNRI	ak	100	(25)	Newport, R. I.	—S. George Webb, 21 Bull St.
WOLS	z	100	DP	Florence, S. C.	—O. Lee Stone
WRBL	ak	100		Columbus, Ga.	—WRBL, Inc., Royal Theater Bldg.
WTHT	z	100	D	Hartford, Conn.	—Hartford Times, Inc.
WWAE	ae	100	8	Hammond, Ind.	—Hammond-Calumet Brdcastg. Corp.

1210 keys. (247.8)

CJCS	z	50		Stratford, Ont.	—M. I. Higgins, 151 Ontario St.
CJCU	z	50		Aklavik, N. W. T.	—Dr. J. A. Urquharhart, Dept. of Interior
CKBI	ak	100	F	Prince Albert, Sask.	—Prince Albert Radio Club, Canada Bldg.
CKCH	ak	100	F	Hull, Que.	—CKCH Brdcastg. Co., Standish Hall Hotel
CKMC	ak	50		Cobalt, Ont.	—R. L. MacAdam
CMHI	ak	150		Santa Clara, Cuba	—Luis y Pas, Independencia No. 34
KANS	z	100	P	Wichita, Kans.	—Charles C. Theis
KASA	ck	100		Elk City, Okla.	—E. M. Woody, Casa Grande Hotel
KDLR	ak	100		Devils Lake, N. D.	—KDLR, Inc., 1025 Third St.
KDON	z	100		Del Monte, Calif.	—Monterey Peninsula Brdcastg. Co.
KFJI	ak	100		Klamath Falls, Ore.	—KFJI Brdcasters, Inc., Willard Hotel
KFOR	ae	100	(25)	C. Lincoln, Neb.	—Howard Shuman, Hotel Lincoln
KFPW	ak	100		Fort Smith, Ark.	—Southwestern Hotel Co., Goldman Hotel
KFVS	ak	100	6	Cape Girardeau, Mo.	—Oscar C. Hirsch, Box 275
KFXM	ak	100	9	San Bernardino, Calif.	—Lee Bros. Brdcastg. Co., California Hotel
KGLO	z	100	P	Mason City, Iowa	—Mason City Globe Gazette Co.
KGY	ak	100		Olympia, Wash.	—KGY, Inc., 11th & Capitol Way
KIUL	ak	100		Garden City, Kans.	—Garden City Brdcastg. Co.
KLAH	z	100	P	Carlsbad, N. Mex.	—Carlsbad Brdcastg. Co.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KOCA	z	100	P	Kilgore, Texas
KPPC	ak	100	9	Pasadena, Calif.
KVSO	ak	100	.....	Ardmore, Okla.
KWTN	ak	100	.....	Watertown, S. D.
TGW	ak	10000	.....	Guatemala City
WALR	ak	100	.....	Zanesville, Ohio
WABX	ae	100	.....	Wilkes Barre, Pa.
WBBL	ak	100	S	Richmond, Va.
WBLV	z	100	DP	Lima, Ohio
WBRB	ak	100	3	Red Bank, N. J.
WCOL	ak	100	.....	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	Chester, N. Y.
WHBF	ak	100	(.25)	Rock Island, Ill.
WHBU	ak	100	(.25)	Anderson, Ind.
WIBU	ak	100	(.25)	Poynette, Wis.
WJBY	ak	100	.....	Gadsden, Ala.
WJEJ	ae	100	D	Hagerstown, Md.
WJIM	z	100	(.25)	Lansing, Mich.
WJW	ae	100	(.25)	Akron, Ohio
WKOK	ak	100	.....	Sunbury, Pa.
WLMU	z	100	P	Middlesboro, Ky.
WMBG	ak	100	C(.25)	Richmond, Va.
WMFG	z	100	.....	Hibbing, Minn.
WMFN	ak	100	Y	Clarksdale, Miss.
WOCL	ak	50	.....	Jamestown, N. Y.
WOMT	ak	100	.....	Manitowoc, Wis.
WPAX	ak	100	D	Thomasville, Ga.
WSAY	z	100	DP	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	z	50	.....	Hidalgo, Chih.
XEE	z	50	.....	Durango, Dgo.
XEFV	ak	100	.....	Juarez, Chih.
XETH	ak	100	.....	Puebla, Pue.

—Oil Capital Brdcstg. Assn.  
 —Pasadena Presb. Church, 585 E. Colorado  
 —Ardmoreite Publishing Co.  
 —Midland Life Insurance Bldg.  
 —Ministerio de Fomento  
 —WALR Brdcstg. Corp., 1st Trust & Bank Bldg.  
 —John A. Stenger, Jr., 70 S. Main St.  
 —Grace Presb. Church, 1627 Monument Ave.  
 —Herbert Lee Blye  
 —Monmouth Brdcstg. Corp., 63 Broad St.  
 —WCOL, Inc., 33 N. High St.  
 —Clinton R. White, 2756 Pine Grove Ave.  
 —Harrisburg Brdcstg. Co., 100 E. Poplar  
 —Emil Denmark, 3850 Ogden Ave.  
 —Westchester Brdcstg. Corp., Hotel Rog. Smith  
 —Fountain of Youth Properties, Inc.  
 —H. H. Carman, 64 S. Grove St.  
 —WGCM, Inc.  
 —Peter Goelet (Orange County)  
 —Rock Isl. Brdcstg. Co., Hotel Harms  
 —Anderson Brdcstg. Corp., Box 816  
 —Wm. C. Forrest, RFD No. 3  
 —Gadsden Brdcstg. Co., 112 N. 8th St.  
 —Hagerstown Brdcstg. Co., Lovely Dame Bldg.  
 —Capital City Brdcstg. Co.  
 —WJW, Inc., 41 S. High St.  
 —Sunbury Brdcstg. Co., 1150 N. Front  
 —Lincoln Memorial University  
 —Havens & Martin, 914 W. Broad  
 —Head of the Lakes Brdcstg. Co.  
 —Attala Brdcstg. Corp., Box 180  
 —A. E. Newton, 840 N. Main St.  
 —Francis M. Kadow, Box 326  
 —H. Wimpy, 135 E. Jackson St.  
 —Brown Radio Serv., 192 S. Goodman  
 —Gene T. Dyer, 1258 S. Michigan Ave.  
 —638 Tire & Vulcanizing Co.  
 —WSOC, Inc., 516 W. Trade St.  
 —WTAX, Inc., 416 E. Capitol Ave.  
 —.....  
 —Alejandro Stevenson, Aptdo. 148  
 —J. Onofre M., Tlaxcala 1013  
 —Ramon Huerta G., Calle 17, Oriente 11

1220 kcys. (245.8)

CMJE	z	50	.....	Camaguey, Cuba
KFKU	ae	1000	a (5)	Lawrence, Kans.
KTW	ak	1000	S2	Seattle, Wash.
KWSC	ae	1000	2 (2)	Pullman, Wash.
TIVCA	ak	.....	1225	San Jose, C. R.
WCAD	ak	500	D	Canton, N. Y.
WCAE	ak	1000	R(5)	Pittsburgh, Pa.
WDAE	ae	1000	C (2.5)	Tampa, Fla.
WREN	ak	1000	Ba(5)	Lawrence, Kas.
XETF	ak	12	.....	Veracruz, Ver.

—M. Fernandez, Hnos. Aguero No. 2  
 —University of Kansas  
 —1st Presb. Church, 7th & Spring Sts.  
 —State College of Washington  
 —La Voz de Centro America, Aptdo. 800  
 —St. Lawrence University  
 —Pitt Publishing Co.  
 —Tampa Times Co., Tampa Terrace  
 —WREN Brdcstg. Co., 7th and Vermont  
 —Jose R. Lopez, Independencia 28

1230 kcys. (243.8)

CMCB	ak	150	.....	Havana, Cuba
KGBX	ak	500	.....	Springfield, Mo.
KGGM	ak	250	(.5)	Albuquerque, N. M.
KYA	ak	1000	N	San Francisco, Calif.
WFBM	ae	1000	C(5)	Indianapolis, Ind.
WNAC	ak	1000	C(2.5)	Boston, Mass.
XEFJ	ak	100	.....	Monterrey, N. L.
YNOP	z	100	.....	Managua, Nic.

—A. Capablanca, Metropolitan Bldg.  
 —Springfield Brdcstg. Co.  
 —New Mexico Brdcstg. Co., KiMo Bldg.  
 —Hearst Radio, Inc.  
 —307 N. Pennsylvania St.  
 —Sheppard Brdcstg. Serv., 21 Brookline  
 —Junco de la Vega, Box 186  
 —.....

1240 kcys. (241.8)

CJCB	ak	1000	F	Sydney, N. S.
CMHB	z	50	.....	Sancti Spiritus, Cuba
KGCU	ak	250	I	Mandan, N. D.

—N. Nathanson, 318 Charlotte St.  
 —V. E. Weiss y Cia., Independencia 33  
 —Mandan Radio Assn., 404 W. Main St.

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KLPM	ak	250	1	Minot, N. D.	—John P. Cooley, Box 707
KTAT	ak	1000	.....	Fort Worth, Texas	—Raymond E. Buck
KTFI	ae	1000	.....	Twin Falls, Idaho	—Radio Brdcastg. Corp., Box 521
WKAO	ae	1000	.....	San Juan, P. R.	—Radio Corp. of P. R., Box 1414
WXYZ	ak	1000	B	Detroit, Mich.	—King-Trendle Brdcastg. Corp.
XEAC	z	250	.....	Tijuana, L. C.	.....
XEAI	z	100	.....	Mexico City, D. F.	—Carlos Conzales C., Insurgentes 366
XEKL	z	500	.....	Leon, Guan.	—Cia. Raocio del Bajio, 5 de Mayo 26
XELA	z	50	.....	Saltillo, Coah.	.....
XEME	z	15	.....	Merida, Yuc.	.....

### 1250 keys. (239.9)

CMKC	ak	150	.....	Santiago, Cuba	—J. A. Saco, P. O. Box 466
KFOX	ae	1000	.....	Long Beach, Calif.	—Nichols & Warinner, 220 E. Anaheim
WCAL	ah	1000	2(2.5)	Northfield, Minn.	—St. Olaf College
WDSU	ak	1000	.....	New Orleans, La.	—WDSU, Inc., Hotel Monteleone
WHBI	ak	1000	1(2.5)	Newark, N. J.	—May Brdcastg. Corp., 100 Shipman St.
WLB	ak	1000	2	Minneapolis, Minn.	—University of Minnesota
WNEW	ae	1000	1(2.5)	Newark, N. J.	—Wodaam Corp., 100 Shipman St.
WTCN	ak	1000	2(5)	Minneapolis, Minn.	—Minn. Brdcastg. Corp., Wesley Temple Bldg.

### 1260 keys. (238.0)

CFRN	ak	100	F	Edmonton, Alta.	—G. R. A. Rice, 109 C.P.R. Bldg.
KGVO	ak	1000	.....	Missoula, Mont.	—Mosby's, Inc., 240 N. Higgins
KOIL	ak	1000	B(2.5)	Council Bluffs, Ia.	—Central States Brdcastg. Co.
KPAC	ak	500	D	Port Arthur, Texas	—Port Arthur College
KRGV	ak	500	.....	Weslaco, Texas	—KRGV, Inc.
KUOA	ak	1000	DXV	Fayetteville, Ark.	—KUOA, Inc.
KVOA	ak	500	.....	Tucson, Ariz.	—Ariz. Brdcastg. Co., Cons. Nat'l Bank Bldg.
WHIO	ae	1000	R(5)	Dayton, Ohio	—Miami Valley Corp., 39 S. Ludlow St.
WNBX	ak	1000	.....	Springfield, Vt.	—WNBX Brdcastg. Corp., 39 Main St.
WTOC	ae	1000	C	Savannah, Ga.	—Savannah Brdcastg. Co., DeSoto Hotel

### 1270 keys. (236.1)

CMHD	dk	250	.....	Caibarien, Cuba	—Manuel Alvarez M., Escobar 17
KGCA	ak	100	2D	Decorah, Iowa	—Chas. W. Greenley, 201 Water St.
KOL	ae	1000	C(5)	Seattle, Wash.	—Seattle Brdcastg. Co., Northern Life Tower
KVOR	ae	1000	C	Colorado Sp'gs, Colo.	—S. H. Patterson, Antlers Hotel
KWLC	ak	100	2D	Decorah, Iowa	—Luther College
WASH	ak	500	aN	Grand Rapids, Mich.	—King-Trendle Brdcastg. Corp.
WBR	ae	500	RX	Baltimore, Md.	—Baltimore Radio Show, 7 St. Paul St.
WJDX	ae	1000	N(2.5)	Jackson, Miss.	—Lamar Life Insurance Co.
WOOD	ak	500	aN	Grand Rapids, Mich.	—King-Trendle Brdcastg. Corp.
XEG	z	200	.....	Ensenada, L. C.	—Juan C. Chavez, Av. Obregon 958
XFB	ak	250	.....	Jalapa, Ver.	—Gobierno del Estado de Veracruz
YNLF	z	20	1275	Managua, Nic.	.....

### 1280 keys. (234.2)

KFBB	ae	1000	(2.5)	Great Falls, Mont.	—Buttrey Brdcastg. Co., Box 1817
WCAM	ae	500	1	Camden, N. J.	—City of Camden, City Hall
WCAP	ae	500	1	Asbury Park, N. J.	—Radio Industries, Inc., Convention Hall
WDOD	ak	1000	C(5)	Chattanooga, Tenn.	—WDOD Brdcastg. Corp., Hotel Patten
WIBA	ae	1000	N(5)	Madison, Wis.	—Badger Brdcastg. Co., 111 King St.
WORC	ak	500	C	Worcester, Mass.	—WORC, 60 Franklin St.
WRR	ak	500	.....	Dallas, Texas	—City of Dallas, Southland Bldg.
WTNJ	ak	500	1	Trenton, N. J.	—Trenton Brdcastg. Co., Stacy Trent Hotel
XEMX	z	12	.....	Mexico City, D. F.	—A. T. Avales, Salamanca 87

### 1290 keys. (232.4)

KDYL	ak	1000	NX	Salt Lake City, Utah	—Intermountain Brdcastg. Corp.
KLCN	ak	100	D	Blytheville, Ark.	—Main & Division Sts.
KTRH	ak	1000	C(5)	Houston, Texas	—KTRH Brdcastg. Co., Rice Hotel
WIBC	ae	1000	M(5)	Superior, Wis.	—Spaulding Hotel, Duluth, Minn.
WJAS	ak	1000	C(5)	Pittsburgh, Pa.	—Chamber of Commerce Bldg.
WNBZ	z	100	D	Saranac Lake, N. Y.	—Smith & Mace, 70 Broadway
WNEL	ak	1000	(2.5)	San Juan, P. R.	—Juan Piza, Box 1252

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1300 keys. (230.6)

KALE	mk	500	3C	Portland, Ore.
KFAC	ak	1000	.....	Los Angeles, Calif.
KFH	ak	1000	C	Wichita, Kans.
KFJR	ag	500	3	Portland, Ore.
WBRR	ae	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.
WHAZ	ae	500	1	Troy, N. Y.
WHBL	ae	250	.....	Sheboygan, Wis.
WIOD	ak	1000	N	Miami, Fla.

—KALE, Inc., New Heathman Hotel  
 —E. L. Cord, 645 So. Mariposa  
 —KFH, 124½ S. Market St.  
 —KFJR, Inc., 622 Lumberman's Bldg.  
 —124 Columbia Heights  
 —Jewish Daily Forward, Hotel Claridge  
 —154 W. 57th St.  
 —Greenville News-Piedmont Co.  
 —Rensselaer Polytechnic Inst. 8th Ave.  
 —Press Pub. Co., Press Bldg.  
 —Isle of Dreams Brdcstg. Corp.

1310 keys. (228.9)

CHCK	ak	50	.....	Charlottetown, P.E.I.
CJCL	ak	1000	F	Kirkland Lake, Ont.
CJLS	ak	100	.....	Yarmouth, N. S.
CKCV	ak	100	F	Quebec, Que.
KCRJ	ak	400	D	Jerome, Ariz.
DKFL	dk	100	(.25)	Dublin, Texas
KFKR	ak	100	(.25)	Oklahoma City, Okla.
KFYO	dk	100	(.25)	Lubbock, Texas
KGCK	ak	100	(.25)XZ	Wolf Pt., Mont.
KGEZ	aj	100	.....	KallsPELL, Mont.
KGFW	ak	100	.....	Kearney, Neb.
KHUB	z	250	DP	Watsonville, Calif.
KINY	ak	100	.....	Juneau, Alaska
KIT	ak	100	(.25)	Yakima, Wash.
KIUJ	ak	100	.....	Santa Fe, N. Mex.
KMED	ck	100	(.25)	Medford, Ore.
KPDN	z	100	DP	Pampa, Texas
KRMD	ak	100	.....	Shreveport, La.
KROC	z	100	.....	Rochester, Minn.
KROY	z	100	DP	Sacramento, Calif.
KROY	z	100	DP	Sherman, Texas
KTSM	ak	100	.....	El Paso, Texas
KVOI	ak	100	.....	Lafayette, La.
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.
WCMI	z	100	.....	Ashland, Ky.
WDAH	ak	100	S	El Paso, Texas
WEBR	ae	100	B(.25)	Buffalo, N. Y.
WEMP	z	100	D	Milwaukee, Wis.
WEXL	ak	50	.....	Royal Oak, Mich.
WFBG	ae	100	3	Altoona, Pa.
WFDL	mk	100	.....	Flint, Mich.
WGH	aj	100	(.25)	Newpor. 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	250	D	Plattsburg, N. Y.
WNBH	ak	100	(.25)	New Bedford, Mass.
WOL	ak	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.
WSJL	ak	100	C	Winston-Salem, N.C.
WTAL	ak	100	.....	Tallahassee, Fla.
WTFL	ce	100	4	Philadelphia, Pa.
WTJS	ak	100	(.25)	Nackson, Tenn.
WTRC	ak	100	6(.25)	Elkhart, Ind.
XEAG	z	10	.....	Cordoba, Ver.
XECW	z	10	.....	Mexico City, D. F.
XEFW	ak	250	.....	Tampico, Tams.
XETB	ak	125	.....	Torreón, Coah.

—Burke & Gesner, 36 Upper Hillsboro St.  
 —Northern Brdcstg. Co., Ltd.  
 —Laurie L. Smith, Grand Hotel  
 —CKCV, Ltd., 142 St. John St.  
 —Chas. C. Robinson, Drawer D  
 —C. C. Baxter, Box 176  
 —541 Hightower Bldg.  
 —Plains Radio Brdcstg. Co.  
 —E. E. Krebsbach  
 —Donald C. Treloar, Box 1  
 —Cent. Nebr. Brdcstg. Corp., 919 W. 27th  
 —F. W. Atkinson  
 —Edwin A. Kraft  
 —Carl Haymond, 109½ E. Yakima Ave.  
 —J. Laurence Martin  
 —Mrs. W. J. Virgin, Sparta Bldg.  
 —Pampa Daily News  
 —KRMD, Inc. Jefferson Hotel  
 —Southern Minn. Brdcstg. Co.  
 —Royal Miller  
 —Red River Valley Brdcstg. Corp.  
 —Tri-State Brdcstg. Co., Box 1976  
 —Evangeline Brdcstg. Co.  
 —KXRO, Inc., Hotel Morck  
 —New Laurel Radio Co., Box 26  
 —Lake Superior Brdcstg. Co., 146 W. Wash.  
 —Banks of the Wabash, Inc., 19 Beach Block  
 —L. G. Baltimore, 16 N. Main St.  
 —WCLS, Inc., 301 E. Jefferson St.  
 —Ashland Brdcstg. Co., Box 106  
 —Tri-State Brdcstg. Co., Box 1976  
 —WEBR, Inc.  
 —Milwaukee Brdcstg. Co.  
 —R. O. Brdcstg. Co., 212 W. 6th St.  
 —Gable Brdcstg. Co., 12th Ave. & 13th St.  
 —Flint Brdcstg. Co., Union Industrial Bldg.  
 —2813 Washington  
 —Independent Brdcstg. Co., Public Ledger Bldg.  
 —WJAC, Inc., Locust St.  
 —Lake Region Brdcstg. Co.  
 —D. A. Burton, Anthony Bldg.  
 —Northern Brdcstg. Co., 523 Main St.  
 —WMBO, Inc., Metcalf Bldg.  
 —Hotel Cumberland  
 —E. Anthony & Sons, 251 Union St.  
 —American Brdcstg. Co., Annapolis Hotel  
 —Reading Brdcstg. Co., 533 Penn St.  
 —Stuart Brdcstg. Corp., 523 S. Gay St.  
 —Grove City College, 418 Poplar St.  
 —Birmingham News Co.  
 —416 N. Marshall  
 —Florida Capitol Brdcsts., Inc.  
 —Foulkrod Radio Eng. Co., 3701 N. Broad  
 —Sun Pub. Co., Sun Bldg.  
 —Truth Pub. Co., Hotel Elkhart  
 —  
 —Avenida Juarez 104  
 —Salvador Diaz Miron 6  
 —P. O. Box 225



## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

**XEX** ak 125 .... Monterrey, N. L. —L. F. Petit Jean, P. O. Box 10  
**XFA** z 5 ... Aguascalientes, Ags. —Apartado 92

### 1320 kcys. (227.1)

<b>CMOX</b> ak 200 ....	Havana, Cuba	—10 entre 17 y 19, Vedado
<b>KGHF</b> ak 500 ....	Pueblo, Colo.	—G. P. Ritchie, 113 Broadway
<b>KGMB</b> ak 1000 C	Honolulu, T. H.	—Honolulu Brdcastg. Co., Box 2663
<b>KID</b> ae 500 (1)	Idaho Falls, Idaho	—KID Brdcastg. Co., Box 487
<b>KRNT</b> ak 500 C(1)	Des Moines, Iowa	—715 Locust St.
<b>WADC</b> ae 1000 C(2.5)	Akron, Ohio	—Allen Simmons, P. O. Box 29
<b>WORK</b> ak 1000 ....	York, Pa.	—York Brdcastg. Co., 15 S. Beaver St.
<b>WSMB</b> ak 1000 N	New Orleans, La.	—WSMB, Inc., Maison Blanche Bldg.

### 1330 kcys. (225.4)

<b>CMHK</b> z 250 ....	Cruces, Cuba	—Virgilio Villaneuva, Calle Heredia 61
<b>CMKW</b> z ....	Santiago, Cuba	—Reparto Sueno
<b>KGB</b> ag 1000 C(2.5)	San Diego, Calif.	—Don Lee Sys., 1012 First Ave.
<b>KMO</b> ak 250 ....	Tacoma, Wash.	—KMO, Inc., Hotel Winthrop
<b>KSCJ</b> aj 1000 C(2.5)	Sioux City, Iowa	—Perkins Bros. Co., 415 Douglas St.
<b>WDRC</b> ae 1000 C(5)	Hartford, Conn.	—WDRC, Inc., 11 Asylum St.
<b>WSAI</b> ak 1000 R(2.5)	Cincinnati, Ohio	—Crosley Radio Corp., 1329 Arlington St.
<b>WTAQ</b> ae 1000 ....	Green Bay, Wis.	—WHBY, Inc., Bellin Bldg.

### 1340 kcys. (223.7)

<b>CMAB</b> z ....	Pinar del Rio, Cuba	—Hotel Ricardo
<b>CMJL</b> z 75 ....	Camaguey, Cuba	—M. Caymares, Republica 181
<b>HRN</b> z 50 ....	Tegucigalpa, Hond.	—
<b>KGDY</b> ak 250 D	Huron, S. D.	—347 Dakota St.
<b>KGIR</b> ak 1000 N(2.5)	Butte, Mont.	—KGIR, Inc., 121 W. Broadway
<b>KGNO</b> ak 250 ....	Dodge City, Kans.	—First Nat'l. Bank Bldg.
<b>WCOA</b> ak 500 C	Pensacola, Fla.	—Pensacola Brdcastg. Co., San Carlos Hotel
<b>WFEA</b> ae 500 C(1)	Manchester, N. H.	—N. H. Brdcastg. Co., Carpenter Hotel
<b>WSPD</b> ae 1000 C(5)	Toledo, Ohio	—Toledo Brdcastg. Co., 505 Jefferson
<b>XEFE</b> z 250 ....	Nuevo Laredo, Tams.	—Km. 4 Carretera Laredo Mt.
<b>XFD</b> z 350 ....	Jalapa, Ver.	—Gobierno Estado de Veracruz

### 1350 kcys. (222.1)

<b>CMCA</b> z 250 ....	Havana, Cuba	—Testar y Gonzales, Av. de Italia
<b>KIDO</b> ak 1000 (.25)	Boise, Idaho	—Boise Brdcastg. Station, Hotel Boise
<b>KWK</b> ak 1000 B(5)	St. Louis, Mo.	—Thomas Patrick, Inc., Hotel Chase
<b>WAWZ</b> ae 500 1(1)	Zarephath, N. J.	—Pillar of Fire
<b>WBNX</b> ae 250 1X	New York, N. Y.	—Standard Cahill Co., 260 E. 161st St.

### 1360 kcys. (220.4)

<b>CMJH</b> dk 50 ....	Ciego de Avila, Cuba	—Luis Maraauri H., Castilla 37
<b>KCRC</b> ak 250 ....	Enid, Okla.	—Enid Radiophone Co., Oxford Hotel
<b>KGER</b> ak 1000 ....	Long Beach, Calif.	—435 Pine St.
<b>WCSC</b> ak 500 (1)N	Charleston, S. C.	—S. C. Brdcastg. Corp., Francis Marion Hotel
<b>WFBL</b> ak 1000 C(5)	Syracuse, N. Y.	—Onondaga Brdcastg. Co., Onondaga Hotel
<b>WGES</b> ae 500 1	Chicago, Ill.	—Oak Leaves Brdcastg. Co., 4000 Washington
<b>WQBC</b> ak 1000 D	Vicksburg, Miss.	—Delta Brdcastg. Corp., Hotel Vicksburg
<b>WSBT</b> ak 500 1	South Bend, Ind.	—South Bend Tribune, 225 W. Colfax Ave.

### 1370 kcys. (218.8)

<b>CKCW</b> ak 100 F	Moncton, N. B.	—Moncton Brdcastg. Co., K. of P. Hall
<b>CMGE</b> ak 150 ....	Cardenas, Cuba	—Genero Sebater, Av. Cespedes 180
<b>HIZ</b> z 10 ....	Trujillo, D. R.	—Abbes y Garcia, Calle Duarte 68
<b>KAST</b> ak 100 D	Astoria, Ore.	—Abraham Shapiro, 611 Commercial St.
<b>KCMO</b> ak 100 ....	Kansas City, Mo.	—
<b>KELD</b> z 100 ....	El Dorado, Ark.	—Radio Enterprises, Inc.
<b>KERN</b> ak 100 ....	Bakersfield, Calif.	—McClatchey Brdcastg. Co.
<b>KFGQ</b> ak 100 ....	Boone, Iowa	—Boone Biblical College, 924 W. 2nd
<b>KFJM</b> ak 100 (.25)XZ	Grand Forks, N. D.	—University of N. Dakota
<b>KFJZ</b> ae 100 (.25)	Fort Worth, Texas	—Ft. Worth Brdcasters, 502 Trinity Life
<b>KFRO</b> ak 100 D	Longview, Texas	—Voice of Longview, Box 86
<b>KGAR</b> ae 100 (.25)	Tucson, Ariz.	—Tucson Motor Serv., 142 S. 6th Ave.

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KGFG	bk	100	....	Oklahoma City, Okla	—Okla. Brdcstg. Co., 1113 N. Broadway
KGFL	ak	100	4	Roswell, N. M.	—KGFL, Inc., 507 N. Main St.
KGKL	ak	100	(.25)	San Angelo, Texas	—KGKL, Inc., St. Angelus Hotel
KIGA	ak	100	4	Clovis, N. M.	—Western Brdcsters, Inc.
KIUP	ak	100	....	Durango, Colo.	—C. Guy Shepard, 2800 Main St.
KLUF	z	100	(.25)	Galveston, Texas	—Geo. R. Clough, Buccaneer Hotel
KMAC	ak	100	....	San Antonio, Tex.	—W. W. McAllister, Smith-Young Tower
KOBH	z	100	P	Rapid City, S. Dak.	—Black Hills Brdcstg. Co.
KONO	ak	100	5	San Antonio, Tex.	—Mission Brdcstg. Co., Milam Bldg.
KRE	ak	100	(.25)	Berkeley, Calif.	—1st Cong. Church, 2337 Shattuck Ave.
KRKO	ak	50	1	Everett, Wash.	—Lee Mudgett, 2814 Rucker Ave.
KSLM	ak	100	....	Salem, Ore.	—Oregon Radio, Inc.
KTEM	z	100	DP	Temple, Texas	—Bell Brdcstg. Co.
KUJ	ak	100	....	Walla Walla, Wash.	—KUJ, Inc., Marcus Whitman Hotel
KVL	ak	100	1	Seattle, Wash.	—KVL, Inc., 2101 Smith Tower
KWYO	ak	100	X	Sheridan, Wyo.	—Big Horn Brdcstg. Co., Inc.
WABY	aj	100	....	Albany, N. Y.	—Hotel Ten Eyck
WAGF	ak	250	D	Dothan, Ala.	—Dothan Brdcstg. Co., Box 25
WAIL	ak	100	....	Atlanta, Ga.	—Volunteer Life Bldg.
WBNU	z	100	2(.25)	Buffalo, N. Y.	—Roy L. Albertson
WBTM	ak	100	(.25)	Danville, Va.	—Piedmont Brdcstg. Co., Miller Bldg.
WCBM	ae	100	(.25)	Baltimore, Md.	—Keith Theater Bldg.
WDAS	ae	100	(.25)	Philadelphia, Pa.	—WDAS Brdcstg. Co., 1211 Chestnut St.
WDWS	z	100	DP	Champaign, Ill.	—.....
WEOA	z	100	....	Evansville, Ind.	—Evansville on the Air, Inc.
WEXP	z	100	DP	Clarksburg, W. Va.	—The Exponent Co.
WFOR	ak	100	....	Hattiesburg, Miss.	—Forrest Brdcstg. Co., Inc.
WGL	ae	100	C	Fort Wayne, Ind.	—Westinghouse Elec. & Mfg. Co.
WGRC	z	250	DP	New Albany, Ind.	—North Side Brdcstg. Corp.
WHBO	ak	100	....	Memphis, Tenn.	—WHBO, Inc., Hotel Claridge
WHDF	ak	100	(.25)	Calumet, Mich.	—Upper Mich. Brdcstg. Co., Box 643
WHLB	z	100	P	Virginia, Minn.	—Head of the Lakes Brdcstg. Co.
WIBM	ak	100	(.25)	Jackson, Mich.	—WIBM, Inc., 306 W. Michigan Ave.
WLLH	ak	100	(.25)	Lowell, Mass.	—Merrimac Brdcstg. Co., Box D
WMBR	ak	100	C(.25)	Jacksonville, Fla.	—Florida Brdcstg. Co.
WMFD	ak	100	D	Wilmington, N. C.	—R. A. Dunlea, Hotel Wilmington
WMFO	ak	100	D	Decatur, Ala.	—James R. Doss, Jr.
WMIN	z	100	P	St. Paul, Minn.	—Edward Hoffman
WOC	ak	100	C(.25)	Davenport, Iowa	—Tri-City Brdcstg. Co.
WPAY	ak	100	....	Portsmouth, Ohio	—WPAY, Veebee Corp.
WPRA	z	100	(.25)P	Mayaguez, P. R.	—Puerto Rico Advertising Co.
WQDM	ae	100	DXZ	St. Albans, Vt.	—Regan & Bostwick, 42 N. Main St.
WRAM	ak	100	(.25)	Williamsport, Pa.	—WRAM, Inc., 244 W. 4th St.
WRDO	ae	100	....	Augusta, Maine	—WRDO, Inc., Augusta House
WRJN	ak	100	(.25)	Racine, Wis.	—Racine Brdcstg. Corp., Hotel Racine
WSVS	ak	50	D2	Buffalo, N. Y.	—Seneca High School, 606 E. Delevan Ave.
XEPZ	ak	100	....	Mexico City, D. F.	—Manuel Zetina, Calle de la Rosa 92
XET	ak	125	....	Morelia, Mich.	—F. I. Madero 545
XEZZ	z	100	....	San Luis Potosi, SLP.	—Zeferino Jimenez, Zaragoza 32

### 1380 kcys. (217.3)

CMCR	z	150	....	Havana, Cuba	—Aurelio Hernandez, Infanta 115
KOH	ak	500	C	Reno, Nev.	—The Bee, Inc., 440 N. Virginia St.
KQV	ae	500	....	Pittsburgh, Pa.	—KQV Brdcstg. Co., 1406 C. of C. Bldg.
WALA	af	500	C(1)	Mobile, Ala.	—Pape Brdcstg. Co., P. O. Box 288
WKBH	ae	1000	....	LaCrosse, Wis.	—WKBH, Inc., 409 Main St.
WNBC	mk	250	D	New Britain, Conn.	—State Brdcstg. Corp.
WSMK	ak	200	C	Dayton, Ohio	—WSMK, Inc., 121 N. Main St.

### 1390 kcys. (215.7)

CMJC	z	150	....	Camaguey, Cuba	—Calle Cisneros y Gnrl. Gomez
HIH	ak	15	1395	San Ped. de Macoris	—Domingo Dominguez
KLRA	ae	1000	C(2.5)	Little Rock, Ark.	—Arkansas Brdcstg. Co., Box 550
KOOS	ae	250	D	Marshfield, Ore.	—Pacific Radio Corp., Hall Bldg.
KOY	ae	500	(1)	Phoenix, Ariz.	—Nielsen Co., Box 1323
WHK	ae	1000	C(2.5)	Cleveland, Ohio	—Radio Air Corp., 1311 Terminal Tower

### 1400 kcys. (214.2)

CMGC	z	100	....	Matanzas, Cuba	—Oscar Mechoso, Independencia 56
CMKR	z	100	....	Santiago, Cuba	—Jaime Nadal, Calle "B", Maso alta 71
KHBC	z	250	....	Hilo, T. H.	—Honolulu Brdcstg. Co., Ltd.
KLO	ak	500	N	Ogden, Utah	—Interstate Brdcstg. Corp., 405 25th
KTUL	ak	500	C(1)	Tulsa, Okla.	—Tulsa Brdcstg. Co., Nat'l. Bank Bldg.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

TGX	ak	250	...	Guatemala City, Gt.	—Ministerio de Fomento
WARD	ak	500	2	Brooklyn, N. Y.	—U. S. Brdcstg. Corp., 427 Fulton St.
WBBC	ae	500	2(1)	Brooklyn, N. Y.	—Brooklyn Brdcstg. Corp., 552-54 Atlantic
WEGE	z	500	P	Brooklyn, N. Y.	—Brooklyn Daily Eagle
WIRE	ak	500	R(1)	Indianapolis, Ind.	—Indianapolis Brdcstg., Inc.
WLTH	ak	500	2	Brooklyn, N. Y.	—105—Second Ave., New York City
WVFW	ak	500	2	Brooklyn, N. Y.	—4 & 5 Court Square

1410 keys. (212.6)

CKFC	ak	50	5	Vancouver, B. C.	—United Church of Canada, Hemlock & 12th
CKMO	ag	100	5F	Vancouver, B. C.	—1604 Bekins Bldg.
KGNC	ae	1000	(2.5)	Amarillo, Texas	—Plains Radio Brdcstg. Co.
WAAB	ak	500	C	Boston, Mass.	—Bay State Brdcstg. Co., 21 Brookline Ave.
WBCM	ae	500	...	Bay City, Mich.	—James E. Davidson, Hotel Wenonah
WHIS	ak	500	(1)	Bluefield, W. Va.	—Daily Telegraph Ptg. Co., Bland St.
WROK	ak	500	...	Rockford, Ill.	—Rockford Brdcstg. Inc., 109 S. Water
WSFA	ak	500	C(1)	Montgomery, Ala.	—Jefferson Davis Hotel

1420 keys. (211.1)

CKGB	ak	100	F	Timmings, Ont.	—R. H. Thompson, Press Bldg.
CMCO	z	250	...	Havana, Cuba	—Calle Vista Alegre 90, Vibora
KABC	ak	100	(.25)	San Antonio, Texas	—Alamo Brdcstg. Co., Texas Theater Bldg.
KABR	ak	100	...	Aberdeen, S. Dak.	—Aberdeen Brdcstg. Co.
KALB	z	100	D	Alexandria, La.	—Alexandria Brdcstg. Co., Inc.
KBPS	aj	100	4	Portland, Ore.	—546 N. E. 12th Ave.
KCMC	ak	100	...	Texarkana, Ark.	—KCMC, Inc.
KEUB	z	100	P	Price, Utah	—Eastern Utah Brdcstg. Co.
KFIZ	ak	100	...	Fond du Lac, Wis.	—18 W. First St.
KGFF	ak	100	(.25)	Shawnee, Okla.	—KGFF, Inc., 9th & Bell Sts.
KGGC	ak	100	...	San Francisco, Cal.	—Golden State Brdcstg. Co., 230 Eddy St.
KGIW	ak	100	1	Alamosa, Colo.	—1326 N. Commercial
KIDW	ak	100	1	Lamar, Colo.	—Southwest Brdcstg. Co.
KIUN	ak	100	...	Pecos, Texas	—J. H. Hawkins & B. H. Tubbs
KNET	z	100	D	Palestine, Texas	—Palestine Brdcstg. Assn.
KORE	ae	100	...	Eugene, Ore.	—733 Willamette St.
KRBC	z	100	P	Abilene, Tex.	—Reporter Brdcstg. Co.
KRLC	ak	100	...	Lewiston, Idaho	—H. E. Studebaker, Lewis-Clarke Hotel
KRLH	z	100	D	Midland, Tex.	—Clarence Scharbaur
KUMA	ak	100	...	Yuma, Ariz.	—Dr. A. H. Schermann, Box 267
KWBG	ak	100	...	Hutchinson, Kans.	—W. N. Greenwald
KXL	ak	100	4(.25)	Portland, Ore.	—K&L Brdcstg., Multnomah Hotel
WACO	ak	100	C	Waco, Texas	—KTSA Brdcstg. Co.
WAGM	ae	100	...	Presque Isle, Maine	—Aroostook Brdcstg. Corp., Main St.
WAPQ	z	100	DP	Chattanooga, Tenn.	—W. A. Petterson
WAZL	ak	100	2	Hazleton, Pa.	—Hazelton Brdcstg. Service, Inc.
WCBS	ak	100	...	Springfield, Ill.	—WCBS, Inc., 208 1/2 S. 5th St.
WCHV	ak	100	3(.25)	Charlottesville, Va.	—Community Brdcstg. Corp., Box 221
WEED	ak	100	3 X	Rocky Mount, N. C.	—Wm. Avera Wynne, Box 221
WEHS	ak	100	a	Cicero, Ill.	—WEHS, Inc., 6138 Cermak Road
WELL	ak	100	...	Battle Creek, Mich.	—Enquirer News, 38 W. State St.
WGPC	ak	100	...	Albany, Ga.	—Rylander Theater
WHDL	ak	100	D	Olean, N. Y.	—Olean Brdcstg. Co., Exchange Bank
WHFC	ae	100	a	Cicero, Ill.	—WHFC, Inc., 6138 Cermak Road
WILM	aj	100	2	Wilmington, Del.	—Del. Brdcstg. Corp., 920 King St.
WJBO	ak	100	...	Baton Rouge, La.	—334 Florida St.
WJBR	z	100	P	Gastonia, N. C.	—J. B. Roberts
WJMS	ak	100	...	Ironwood, Mich.	—WJMS, Inc., St. James Hotel
WKBI	ak	100	a	Cicero, Ill.	—WKBI, Inc., 6138 Cermak Road
WLAP	ak	100	(.25)	Lexington, Ky.	—Main and Esplanade
WLBF	ak	100	...	Kansas City, Kan.	—WLBF Brdcstg. Co., 901 N. 8th St.
WLEU	ak	100	(.25)	Eric, Pa.	—Leo. J. Omelian, Commerce Bldg.
WMAS	ak	100	C(.25)	Springfield, Mass.	—WMAS, Inc., 70 Chestnut St.
WMBC	ae	100	(.25)	Detroit, Mich.	—Mich. Brdcstg. Co., 7310 Woodward Ave.
WMBH	ak	100	(.25)	Joplin, Mo.	—Joplin Brdcstg. Co., 1334 Roosevelt St.
WMFJ	ak	100	...	Daytona Beach, Fla.	—W. W. Esch, 126 1/2 Magnolia Ave.
WMSD	ak	100	...	Sheffield, Ala.	—Muscle Shoals Brdcstg. Corp., Box 486
WPAD	ak	100	(.25)	Paducah, Ky.	—Paducah Brdcstg. Co., 2201 Broadway
WPAR	ak	100	...	Parkersburg, W. Va.	—Chancellor Hotel
WPRP	z	100	P(.25)	Ponce, P. R.	—Julio M. Conesa
XEAZ	z	7	...	Guanajuato, Gto.	—Paseo de la Presa 85
XEFB	ak	100	...	Monterrey, N. L.	—Jesus Quintanilla, Box 317

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1430 kcys. (209.7)

CMJP	ak	75	...	Camaguey, Cuba	—Gallejas No. 28
KECA	ah	1000	(5) B	Los Angeles, Calif.	—E. C. Anthony, Inc., 1000 S. Hope St.
KGNF	ak	1000	D	North Platte, Neb.	—Great Plains Brdcastg. Co., W. 12th
KSO	ak	500	B (1)	Des Moines, Iowa	—Iowa Brdcastg. Co., 715 Locust St.
WBNS	ae	500	C (1)	Columbus, Ohio	—WBNS, Inc., 33 N. High St.
WHEC	ae	500	C (1)	Rochester, N. Y.	—WHEC, Inc., 40 Franklin St.
WHP	ak	500	C (1)	Harrisburg, Pa.	—WHP, Inc., 216 Locust St.
WNBR	ae	500	(1)	Memphis, Tenn.	—Memphis Commercial Appeal
WOKO	aj	500	C (1)	Albany, N. Y.	—WOKO, Inc., Hotel Ten Eyck

1440 kcys. (208.2)

CMOA	z	150	....	Havana, Cuba	—Aguilar 126, Altos
HP50	z	25	....	Colon, Panama	—
KDFN	ak	500	....	Casper, Wyo.	—D. L. Hathaway, Box 930
KLS	ag	250	D	Oakland, Calif.	—Warner Bros., 2201 Telegraph Ave.
KXYZ	ak	1000	....	Houston, Texas	—Harris County Brdcast. Co., Gulf Bldg.
TIFS	z	7.5	(1441)	Cartago, C. R.	—
WBIG	ae	500	C (1)	Greensboro, N. C.	—N. C. Brdcastg. Co., O. Henry Hotel
WCBA	aj	500	a	Allentown, Pa.	—B. B. Musselman, 39-41 Tenth St.
WMBD	ak	500	C (1)	Peoria, Ill.	—Peoria Brdcastg. Co., 11 N. Madison
WSAN	aj	500	a	Allentown, Pa.	—WSAN, Inc., 39 Tenth St.
XEFI	ae	250	....	Chihuahua, Chih.	—Feliciano Lopez I., Aptdo. 157

1450 kcys. (206.8)

CFCT	ae	50	....	Victoria, B. C.	—Vic. Brdcastg. Assn., 620 View St.
CHGS	ae	50	F	Summerside, P.E.I.	—R. T. Holman, Ltd., 190 Water Sr.
KTEM	ak	500	....	Eureka, Calif.	—Redwood Brdcastg. Co., Vance Hotel
KTBS	ak	1000	N	Shreveport, La.	—Tri-State Brdcastg. Sys., Box 17
WGAR	ak	500	B (1)	Cleveland, Ohio	—WGAR Brdcastg. Co., Hotel Statler
WHOM	ae	250	....	Jersey City, N. J.	—N. J. Brdcastg. Corp., 2870 Hudson Blvd.
WSAR	ae	1000	....	Fall River, Mass.	—Academy of Music Bldg.
WTFI	ak	500	Y	Athens, Ga.	—Liberty Brdcastg. Co., 133 E. Washington

1460 kcys. (205.4)

CMCU	z	150	....	Havana, Cuba	—San Francisco 13, Vibora
CMKF	z	50	....	Holguin, Cuba	—Libertad esq. Arias
KSTP	ak	25000	N	St. Paul, Minn.	—Nat'l. Battery Brdcastg. Co., St. Paul Hotel
WJSV	ak	10000	C	Washington, D. C.	—Old Dominion Brdcastg. Co., Earle Bldg.

1470 kcys. (204.0)

CMOK	z	150	....	Havana, Cuba	—Rafael Valdez, Estrella 121
KGA	ak	5000	B	Spokane, Wash.	—Louis Wasmer, 1023 W. Riverside Ave.
WLAC	ak	5000	C	Nashville, Tenn.	—WLAC, Inc., 2421 West End Ave.

1480 kcys. (202.6)

KOMA	ak	5000	C	Oklahoma City, Okla.	—Hearst Radio, Inc.
WKBW	ck	5000	C	Buffalo, N. Y.	—Buffalo Brdcastg. Corp., Rand Bldg.

1490 kcys. (201.2)

KFBK	ak	5000	C	Sacramento, Calif.	—McClatchey Brdcastg. Co.
WCKY	ae	5000	B	Covington, Ky.	—L. B. Wilson, Inc., 6th & Madison

1500 kcys. (199.9)

CJIC	ak	100	...	Sault Ste. Marie, Ont.	—678 Queen St., E.
CMCX	z	150	....	Havana, Cuba	—Calle Maceo 7, Guanabacoa
KBIX	z	100	....	Muskogee, Okla.	—Muskogee Press
KBST	z	100	P	Big Spring, Tex.	—Big Spring Herald Brdcastg. Co.
KDB	ak	100	C	Santa Barbara, Cal.	—15-17 E. Haley
KGFI	ak	100	(25)	Corpus Christi, Tex.	—Eagle Brdcastg. Co., Box 1508
KGPK	ak	100	Y	Moorhead, Minn.	—Red River Brdcastg. Co., Comstock Hotel
KGKB	ak	100	....	Tyler, Texas	—E. Texas Brdcastg. Co., 115 S. College
KGKY	ak	100	(25)	Scottsbluff, Neb.	—Hilliard Co., 1517 1/2 Broadway

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KNEL	ak	100	D	Brady, Texas	—C. L. Burns
KNOW	ak	100	C	Austin, Texas	—KUT Brdcstg. Co., Norwood Bldg.
KOTN	ak	100	D	Pine Bluff, Ark.	—Universal Brdcstg. Corp., Hotel Pines
KVOC	z	100	P	Valley City, N. Dak.	—George B. Bairey
KPLC	ak	100	.....	Lake Charles, La.	—Calcasieu Brdcstg. Co., Majestic Hotel
KPLT	z	100	DP	Paris, Texas	—North Texas Brdcstg. Co.
KPO	ak	100	(.25)	Wenatchee, Wash.	—Wescoast Brdcstg. Co., 20—2nd St.
KRNR	z	100	D	Roseburg, Ore.	—Oregon Publishing Co.
KTEP	z	100	P	El Paso, Texas	—Dorrence D. Roderick
KUTA	ak	100	P	Salt Lake City, Utah	—Utah Brdcstg. Co.
KVOE	ak	100	.....	Santa Ana, Calif.	—Voice of the Orange Empire, Ltd.
KXO	ae	100	.....	El Centro, Calif.	—F. M. Bowles, Box 140
WCNW	ak	100	1 (.25)	Brooklyn, N. Y.	—Arthur Faske, 864-868 Flatbush Ave.
WDNC	ae	100	C	Durham, N. C.	—Durham Radio Corp., Washington Duke Hotel
WGAL	ae	100	(.25)	Lancaster, Pa.	—WGAL, Inc., 8 W. King St.
WHBB	z	100	D	Selma, Ala.	—Selma Brdcstg. Co.
WHEF	ak	100	(.25)	Kosciusko, Miss.	—Attala Brdcstg. Corp., Box 631
WJBK	ae	100	(.25)	Detroit, Mich.	—6559 Hamilton Ave.
WKBB	ak	100	(.25)	E. Dubuque, Ill.	—Sanders Brothers, Hotel Julian
WKBV	ak	100	(.25)	Richmond, Ind.	—Knox Radio Corp., Box 308
WKBZ	ak	100	(.25)	Muskegon, Mich.	—Karl L. Ashbacker, Occidental Hotel
WKEU	ak	100	D	Griffin, Ga.	—Station WKEU, 906 Hill St.
WMBO	ae	100	1	Brooklyn, N. Y.	—Met. Brdcstg. Corp., 95 Leonard
WMEX	ak	100	(.25)	Boston, Mass.	—The Northern Corp., Hotel Manager
WNBf	ae	100	C	Binghamton, N. Y.	—Howitt-Wood Co., Arlington Hotel
WNLC	z	100	DP	New London, Conn.	—Thames Brdcstg. Corp.
WOPI	ae	100	.....	Bristol, Tenn.	—Radiophone WOPI, 22nd & State
WRDW	ak	100	.....	Augusta, Ga.	—Augusta Brdcstg. Corp., 309 Eighth St.
WRGA	ak	100	(.25)	Rome, Ga.	—Rome Brdcstg. Corp., 10 Third Ave.
WSYB	ak	100	.....	Rutland, Vt.	—Philip Weiss Music Co., Box 328
WTMV	ak	100	.....	East St. Louis, Ill.	—Mississippi Valley Brdcstg. Co.
WWRL	ak	100	1 (.25)	Woodside, N. Y.	—41-30—58th St.
WWSW	ae	100	(.25)	Pittsburgh, Pa.	—Hotel Keystone

### 1510 kcys. (198.6)

CFRC	ak	100	F	Kingston, Ont.	—Queen's University, Fleming Hall
CKCR	ak	100	.....	Waterloo, Ont.	—Mitchell & Liddle, 24 King St., S.

### 1530 kcys. (196.0)

W1XBS	z	1000	.....	Waterbury, Conn.	—Am. Republican, Inc., 136 Grand St.
W9XBY	ak	1000	.....	Kansas City, Mo.	—106 W. 14th St.

### 1550 kcys. (193.4)

W2XR	z	1000	.....	Long Isl. City, N. Y.	—Interstate Brdcstg. Co., Inc.
W6XAI	ak	1000	.....	Bakersfield, Calif.	—Pioneer Mercantile Co.

## 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.

#### Second Column Symbols

- a Verifies reception for return postage.
- b Verifies only occasionally.
- c Does not verify.
- d Verification 10c; letter 25c.
- e Sends Ekko stamp for 10c.
- f Sends Ekko stamp for 5c.
- g Sends Ekko stamp for postage.
- h Sends own station stamp for 10c.
- i Sends own station stamp for 5c.
- j Sends own station stamp for postage.

- k Has no stamps.
- m Verifies for 5c.
- n Weather or time only.
- z No information available.

#### Fourth Column Symbols

- B National "Blue" network.
- C Columbia network.
- D Day time only.
- Dn Day time with occasional evening hours.
- F Canadian Radio Brdcstg. Commission.
- N National "Red" and "Blue"

- networks.
- P Has construction permit only.
- R National "Red" network.
- S Sunday only.
- Sy Synchronized.
- X Has permit to increase power.
- Y Has permit to change location.
- Z Has permit to change frequency.
- a-b-c. Small letters show stations using same transmitter.
- 1-2-3. Figures denote stations sharing time.
- ..... No information.

## 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.*

ALABAMA	CALIFORNIA			Stockton			Gainesville		
Birmingham				KGD M	1100	1000	WRUF	830	5000
WAPI	1140	5000 N		KW G	1200	100 C	Jacksonville		
WBR C	930	1000 C		Watsonville			WJAX	900	1000 N
W SGN	1310	100		KHUB	1310	250	WMBR	1370	100 C
Decatur				<b>COLORADO</b>			Lakeland		
WMFO	1370	100		Alamosa			WLAK	1310	100
Dothan				KG I W	1420	100	Miami		
WAG F	1370	250		Colorado Springs			WIOD	1300	1000 N
Gadsden				KVOR	1270	1000 C	WQAM	560	1000 C
WBJ Y	1210	100		Denver			Orlando		
Mobile				KREL	920	500	WDBO	580	1000 C
WALA	1380	500 C		KLZ	560	1000 C	Pensacola		
Montgomery				KOA	830	5000 N	WCOA	1340	500 C
WSFA	1410	500 C		KPOF	880	500	St. Augustine		
Selma				KVOD	920	500	WFO Y	1210	100
WHBB	1500	100		Durango			St. Petersburg		
Sheffield				KIUP	1370	100	WSUN	620	1000 N
WMSD	1420	100		Grand Junction			Tallahassee		
Tuscaloosa				KFXJ	1200	100	WTAL	1310	100
WJRD	1200	100		Greeley			Tampa		
<b>ALASKA</b>				KFKA	880	500	WD AE	1220	1000 C
Anchorage				Lamar			West Palm Beach		
KFOD	780	250		KIDW	1420	100	WJNO	1200	100
Juneau				Pueblo			<b>GEORGIA</b>		
KTNY	1310	100		KGHF	1320	500	Albany		
Ketchikan				Sterling			WGPC	1420	100
KGBU	900	500		KGEK	1200	100	Athens		
<b>ARIZONA</b>				<b>CONNECTICUT</b>			WTFI	1450	500
Jerome				Bridgeport			Atlanta		
KGRJ	1310	100		WICC	600	500 C	WATL	1370	100
Lowell				Hartford			WGST	890	1000 C
KSUN	1200	100		WDR C	1330	1000 C	WSB	740	5000 N
Phoenix				WTIC	1040	5000 R	Augusta		
KOY	1390	500		WTH T	1200	100	WRDW	1500	100
KTAR	620	1000 N		New Britain			Columbus		
Tucson				WNBC	1380	250	WRBL	1200	100
KGAR	1370	100		New Haven			Griffin		
KVOA	1260	500		WELI	900	500	WKEU	1500	100
Yuma				New London			Macon		
KUMA	1420	100		WNLC	1500	100	WMAZ	1180	1000
<b>ARKANSAS</b>				Waterbury			Rome		
Blytheville				WATR	1190	100	WRGA	1500	100
KLGN	1290	100		WIXBS	1530	1000	Savannah		
El Dorado				<b>DELAWARE</b>			WTOC	1260	1000 C
KELD	1370	100		Wilmington			Thomasville		
Fayetteville				WDEL	1120	250	WPAX	1210	100
KUOA	1260	1000		WILM	1420	100	Waycross		
Fort Smith				<b>DISTRICT OF COLUMBIA</b>			WAYX	1200	100
KFPW	1210	100		Washington			<b>HAWAII</b>		
Hot Springs				WJSV	1460	1000 C	Hilo		
KTHS	1060	10000 N		WMAL	630	250 B	KHBC	1400	250
Jonesboro				WOL	1310	100	Honolulu		
KBTM	1200	100		WRC	950	500 R	KGMB	1320	1000 C
Little Rock				<b>FLORIDA</b>			KGU	750	2500 N
KARK	890	250		Clearwater			<b>IDAHO</b>		
KGHI	1200	100		WFLA	620	1000 N	Boise		
KLRA	1390	1000 C		Daytona Beach			KIDO	1350	1000
Pine Bluff				WMFJ	1420	100	Idaho Falls		
KOTN	1500	100		<b>GEORGIA</b>			KID	1320	500
Texarkana				Washing			Lewiston		
KCMC	1420	100		WJWS	1460	1000 C	KRLC	1420	100

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

ILLINOIS	Muncie	Covington	Fall River
Bloomington	WLCB 1310 100	WCKY 1490 5000 B	WSAR 1450 1000
WJCB 1200 100	New Albany	Lexington	Lowell
Carthage	WGRC 1370 250	WLAP 1420 100	WLLH 1370 100
WCZA 1070 100	Richmond	Louisville	New Bedford
Champaign	WKBV 1500 100	WAVE 940 1000 N	WNBH 1310 100
WDWS 1370 100	South Bend	WEAS 820 50000 C	Springfield
Chicago	WFAM 1200 100	Middlesboro	WBZA 990 1000 B
WAAF 920 1000	WSBT 1360 500 C	WLMU 1210 100	WMAS 1420 100 C
WBBM 770 50000 C	Terre Haute	Paducah	WSPR 1140 500
WCRL 970 5000 B	WBOW 1310 100	WPAD 1420 100	Worcester
WCRW 1210 100	West Lafayette		WORC 1280 500 C
WEDC 1210 100	WBAA 890 500		WTAG 580 500 R
WENR 870 50000 N		LOUISIANA	
WGES 1360 500		Alexandria	MICHIGAN
WGN 720 50000	IOWA	KALB 1420 100	Battle Creek
WJJD 1130 20000	Ames	Baton Rouge	WELL 1420 100
WLS 870 50000 N	WOI 640 5000	WJBO 1420 100	Bay City
WMAQ 670 50000 N	Boone	Lafayette	WBCM 1410 500
WBMI 1080 5000	KFGQ 1370 100	Lake Charles	Calumet
WBCS 1210 100	Cedar Rapids	KPLC 1500 100	WHDF 1370 100
Cicero	WMT 600 1000 B	Monroe	Detroit
WEHS 1420 100	Council Bluffs	KMLB 1200 100	WIBK 1500 100
WHFC 1420 100	KOIL 1260 1000 B	New Orleans	WJR 750 50000 C
WKBI 1420 100	Davenport	WBNO 1200 100	WMBC 1420 100
Decatur	WOC 1370 100 C	WDSU 1250 1000	WWJ 920 1000 R
WJBL 1200 100	Decorah	WJBW 1200 100	WX YZ 1240 1000 B
East Dubuque	KGCA 1270 100	WSMB 1320 1000 N	East Lansing
WKBB 1500 100	KWLC 1270 100	WML 850 10000 C	WKAR 850 1000
East St. Louis	Des Moines	Shreveport	Flint
WTMV 1500 100	KRNT 1320 500 C	KRMD 1310 100	WFDF 1310 100
Harrisburg	KSO 1430 500 B	KTBS 1450 1000 N	Grand Rapids
WEBQ 1210 100	WHO 1000 50000 R	KWKH 1100 1000 C	WASH 1270 500 N
Joliet	Iowa City		WOOD 1270 500 N
WCLS 1310 100	WSUI 880 500	MAINE	Ironwood
Peoria	Marshalltown	Augusta	WJMS 1420 100
WMBD 1440 500 C	KFJB 1200 100	WRDO 1370 100	Jackson
Quincy	Mason City	Bangor	WIBM 1370 100
WTAD 900 500	KGLO 1210 100	WABI 1200 100	Kalamazoo
Rockford	Shenandoah	WLBZ 620 500 C	WKZO 590 1000
WROK 1410 500	KPNF 890 500	Portland	Lansing
Rock Island	KMA 930 1000	WCSH 940 1000 R	WJIM 1210 100
WHBF 1210 100	Sioux City	WSPG 640 500	Lapeer
Springfield	KSCJ 1330 1000 C	Presque Isle	WMPG 1200 100
WCBS 1420 100		WAGM 1420 100	Marquette
WTAX 1210 100	KANSAS		WBEO 1310 100
Tuscola	Abilene	MARYLAND	Muskegon
WDZ 1020 250	KFBI 1050 5000	Baltimore	WKBZ 1500 100
Urbana	Coffeyville	WBAL 760 2500 B	Royal Oak
WILL 580 1000	KGFF 1010 1000	WBAL 1060 10000 B	WEXL 1310 50
Waukegan	Dodge City	WGAO 600 500 C	
WCBD 1080 5000	KGNO 1340 250	WGBM 1370 100	MINNESOTA
	Garden City	WFBR 1270 500 R	Duluth
	KIUL 1210 100	Cumberland	KDAL 1500
	Hutchinson	WTBO 800 250	Fergus Falls
	KWBG 1420 100	Frederick	KGDE 1200 100
	Kansas City	WFMD 900 500	Hibbing
	WLBK 1420 100	Hagerstown	WMFG 1210 100
	Lawrence	WJEF 1210 100	Minneapolis
	KPKU 1220 1000		WCCO 810 50000 C
	WREN 1220 1000 B	MASSACHUSETTS	WDGY 1180 1000
	Manhattan	Boston	WLB 1250 1000
	KSAC 580 500	WAAB 1410 500 B	WTCN 1250 1000
	Topeka	WBZ 990 50000 C	Moorhead
	WIBW 580 1000 C	WCOP 1120 500	KGFK 1500 100
	Wichita	WEEL 590 1000 R	Northfield
	KANS 1210 100	WHDH 830 1000	WCAL 1250 1000
	KPFH 1300 1000 C	WMEX 1500 100	Rochester
		WNAC 1230 1000 C	KROC 1310 100
		WORL 920 500	St. Paul
	KENTUCKY		KSTP 1460 25000 N
	Ashland		WMIN 1370 100
	WCMI 1310 100		Virginia
			WHLB 1370 100

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<b>MISSISSIPPI</b>		<b>Norfolk</b> WJAG 1060 1000 North Platte KGNF 1430 1000 Omaha WAAW 660 500 WOW 590 5000 R Scottsbluff KGKY 1500 100		WLTH 1400 500 WMBO 1500 100 WVFV 1400 500 Buffalo WBEN 900 1000 R WBNY 1370 100 WEBR 1310 100 B WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50		<b>High Point</b> WMFR 1200 100 Raleigh WPTF 680 5000 N Rocky Mount WEED 1420 100 Wilmington WMFD 1370 100 Winston-Salem WSJS 1310 100 C			
Clarkedale WMFN 1210 100 Gulfport WGCM 1210 100 Hattiesburg WFOR 1370 100 Jackson WJDX 1270 1000 N Kosciusko WHEF 1500 100 Laurel WAML 1310 100 Meridian WCOC 880 500 Vicksburg WQBC 1360 1000		<b>NEVADA</b> Reno KOH 1380 500 C		Canton WCAD 1220 500 Chester WGNV 1210 100 Elmira WESG 850 1000 C Freeport WGBB 1210 100 Jamestown WOCL 1210 50 Long Island City W2XR 1550 1000		<b>NORTH DAKOTA</b> Bismarck KFVR 550 1000 N Devils Lake KDLR 1210 100 Fargo WDAY 940 1000 N Grand Forks KFJM 1370 100 Mandan KGCU 1240 250 Minot KLPW 1240 250 Valley City KOVC 1500 100			
<b>MISSOURI</b>		<b>NEW HAMPSHIRE</b> Laconia WLNH 1310 100 Manchester WFEA 1340 500 C Portsmouth WHEB 740 250		New York WABC 860 50000 C WBNX 1350 250 WBOQ 860 50000 WFAE 660 50000 R WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000 WINS 1180 1000 WJZ 760 50000 B WLWL 1100 5000 WMCA 570 500 WNYC 810 1000 WOV 1130 1000		Akron WADC 1320 1000 C WJW 1210 100 Canton WHBC 1200 100 Cincinnati WCPO 1200 100 WKRC 550 1000 C WLW 700 500000 N WSAI 1330 1000 R Cleveland WGAR 1450 500 B WHK 1390 1000 C WJAY 610 500 WTAM 1070 50000 R			
Cape Girardeau KFVS 1210 100 Columbia KFRO 630 500 Jefferson City WOS 630 500 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000 W9XBY 1530 1000 St. Joseph KFEE 680 2500 St. Louis KFUD 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 KWTO 560 5000		<b>NEW JERSEY</b> Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Camden WCAM 1280 500 Jersey City WAAZ 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WNEW 1250 1000 WOR 710 50000 Red Bank WBRB 1210 100 Trenton WTNJ 1280 500 Zarephath WAWZ 1350 500		Olean WHDL 1420 100 Plattsburg WMFF 1310 250 Rochester WHAM 1150 50000 B WHEC 1430 500 C WSAV 1210 100 Saranac Lake WNBZ 1290 100 Schenectady WGY 790 50000 R Syracuse WFBL 1360 1000 C WSYR 570 250 B Troy WHAZ 1300 500 Utica WIBX 1200 100 C White Plains WFAS 1210 100 Woodside WWRL 1500 100		Columbus WBNS 1430 500 C WCOL 1210 100 WHKC 640 500 WOSU 570 750 Dayton WHIO 1260 1000 R WSMK 1380 200 C Lima WBLY 1210 100 Portsmouth WPAY 1370 100 Toledo WSPD 1340 1000 C Youngstown WKBN 570 500 C Zanesville WALR 1210 100			
<b>MONTANA</b>		<b>NEW MEXICO</b> Albuquerque KGGM 1230 250 KOB 1180 10000 Carlsbad KLAH 1210 100 Clovis KICA 1370 100 Roswell KGFL 1370 100 Santa Fe KIUF 1310 100		<b>NEW YORK</b> Albany WABY 1370 100 WOKO 1430 500 C Auburn WMBO 1310 100 Binghamton WNEF 1500 100 C Brooklyn WARD 1400 500 WBBC 1400 500 WBRR 1300 1000 WCNW 1500 100 WEGL 1400 500		<b>NORTH CAROLINA</b> Asheville WNCN 570 1000 N Charlotte WBT 1080 50000 C WSOC 1210 100 N Durham WDNC 1500 100 C Gastonia WJBR 1420 100 Greensboro WBIG 1440 500 C		Toledo WSPD 1340 1000 C Youngstown WKBN 570 500 C Zanesville WALR 1210 100	
<b>NEBRASKA</b>		<b>NEW MEXICO</b> Albuquerque KGGM 1230 250 KOB 1180 10000 Carlsbad KLAH 1210 100 Clovis KICA 1370 100 Roswell KGFL 1370 100 Santa Fe KIUF 1310 100		<b>NEW YORK</b> Albany WABY 1370 100 WOKO 1430 500 C Auburn WMBO 1310 100 Binghamton WNEF 1500 100 C Brooklyn WARD 1400 500 WBBC 1400 500 WBRR 1300 1000 WCNW 1500 100 WEGL 1400 500		<b>NORTH CAROLINA</b> Asheville WNCN 570 1000 N Charlotte WBT 1080 50000 C WSOC 1210 100 N Durham WDNC 1500 100 C Gastonia WJBR 1420 100 Greensboro WBIG 1440 500 C		<b>OKLAHOMA</b> Ada KADA 1210 100 Ardmore KVSQ 1200 100 Elk City KASA 1210 100	
Clay Center KMMJ 740 1000 Kearney KGFW 1310 100 Lincoln KFAB 770 10000 C KFOR 1210 100 C		Omaha WAAW 660 500 WOW 590 5000 R Scottsbluff KGKY 1500 100		Buffalo WBEN 900 1000 R WBNY 1370 100 WEBR 1310 100 B WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50		Rocky Mount WEED 1420 100 Wilmington WMFD 1370 100 Winston-Salem WSJS 1310 100 C			



NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<b>Enid</b> KCRC 1360 250	<b>Philadelphia</b> 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	<b>Huron</b> KGDY 1340 250 <b>Pierre</b> KGFX 630 200 <b>Rapid City</b> KOBH 1370 100 WCAT 1200 100 <b>Sioux Falls</b> KSOU 1110 2500 <b>Vermillion</b> KUSD 890 500 <b>Watertown</b> KWTN 1210 100 <b>Yankton</b> WNAX 570 1000 C	<b>Houston</b> KPRC 920 1000 N KTRH 1290 1000 C KXYZ 1440 1000 <b>Kilgore</b> KOCA 1210 100 <b>Longview</b> KFRO 1370 100 <b>Lubbock</b> KFYO 1310 100 <b>Midland</b> KRLH 1420 100 <b>Palestine</b> KNET 1420 100 <b>Pampa</b> KPDN 1310 100 <b>Paris</b> KPLT 1500 100 <b>Pecos</b> KIUN 1420 100 <b>Port Arthur</b> KPAC 1260 500 <b>San Angelo</b> KGKL 1370 100 <b>San Antonio</b> KABG 1420 100 KMAG 1370 100 KQNO 1370 100 K TSA 550 1000 C WQAI 1190 50000 N <b>Sherman</b> KRRV 1310 100 <b>Temple</b> KTEM 1370 100 <b>Tyler</b> KGGK 1500 100 <b>Waco</b> WACO 1420 100 C <b>Weslaco</b> KRGV 1260 500 <b>Wichita Falls</b> KKGK 570 250 C
<b>OREGON</b>	<b>Pittsburgh</b> KDKA 980 50000 B KOV 1380 500 WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100 <b>Reading</b> WEEU 830 1000 WRAW 1310 100 <b>Scranton</b> WGBI 880 500 WQAN 880 250 <b>Sunbury</b> WKOK 1210 100 <b>Wilkes-Barre</b> WBAX 1210 100 WBRE 1310 100 <b>Williamsport</b> WRAK 1370 100 <b>York</b> WORK 1320 1000	<b>TENNESSEE</b>	
<b>ASTORIA</b> KAST 1370 100	<b>PUERTO RICO</b>	<b>Bristol</b> WOPI 1500 100 <b>Chattanooga</b> WAPO 1420 100 WDOD 1280 1000 C <b>Jackson</b> WTJS 1310 100 <b>Knoxville</b> WNOX 1010 1000 C WROL 1310 100 <b>Memphis</b> WHBO 1370 100 WMC 780 1000 N WNBK 1430 500 WREC 600 1000 C <b>Nashville</b> WLAC 1470 5000 C WSM 650 50000 N <b>Springfield</b> WSIX 1210 100	
<b>CORVALLIS</b> KOAC 550 1000	<b>RHODE ISLAND</b>	<b>Abilene</b> KRBC 1420 100 <b>Amarillo</b> KGNC 1410 1000 <b>Austin</b> KNOW 1500 100 C <b>Beaumont</b> KFDM 560 500 <b>Big Spring</b> KBST 1500 100 <b>Brady</b> KNEL 1500 100 <b>College Station</b> WTAW 1120 500 <b>Corpus Christi</b> KGFI 1500 100 <b>Dallas</b> KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500 <b>Dublin</b> KFPL 1310 100 <b>El Paso</b> KTEP 1500 100 KTSM 1310 100 WDAH 1310 100 <b>Fort Worth</b> KFJZ 1370 100 KTAT 1240 1000 WBAP 800 50000 N <b>Galveston</b> KLFU 1370 100	
<b>EUGENE</b> KORE 1420 100	<b>SOUTH CAROLINA</b>	<b>Houston</b> KPRC 920 1000 N KTRH 1290 1000 C KXYZ 1440 1000 <b>Kilgore</b> KOCA 1210 100 <b>Longview</b> KFRO 1370 100 <b>Lubbock</b> KFYO 1310 100 <b>Midland</b> KRLH 1420 100 <b>Palestine</b> KNET 1420 100 <b>Pampa</b> KPDN 1310 100 <b>Paris</b> KPLT 1500 100 <b>Pecos</b> KIUN 1420 100 <b>Port Arthur</b> KPAC 1260 500 <b>San Angelo</b> KGKL 1370 100 <b>San Antonio</b> KABG 1420 100 KMAG 1370 100 KQNO 1370 100 K TSA 550 1000 C WQAI 1190 50000 N <b>Sherman</b> KRRV 1310 100 <b>Temple</b> KTEM 1370 100 <b>Tyler</b> KGGK 1500 100 <b>Waco</b> WACO 1420 100 C <b>Weslaco</b> KRGV 1260 500 <b>Wichita Falls</b> KKGK 570 250 C	
<b>KLAMATH FALLS</b> KFJI 1210 100	<b>SOUTH DAKOTA</b>	<b>UTAH</b>	
<b>MARSHFIELD</b> KOOS 1390 250	<b>Aberdeen</b> KABR 1420 100 <b>Brookings</b> KFDY 780 1000	<b>Ogden</b> KLO 1400 500 N <b>Price</b> KEUB 1420 100 <b>Salt Lake City</b> KDYL 1290 1000 N KSL 1130 50000 C KUTA 1500 100	
<b>MEDFORD</b> KMED 1310 100		<b>VERMONT</b>	
<b>PORTLAND</b> KALE 1300 500 C KBPS 1420 100 KEK 1180 5000 N KFJR 1300 500 KGW 620 1000 R KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100		<b>Burlington</b> WCAX 1200 100 <b>Rutland</b> WSYB 1500 100 <b>St. Albans</b> WQDM 1370 100 <b>Springfield</b> WNBX 1260 1000 <b>Waterbury</b> WDEV 550 500	
<b>ROSEBURG</b> KRRR 1500 100		<b>VIRGINIA</b>	
<b>SALEM</b> KSLM 1370 100		<b>Arlington</b> NAA 690 1000 <b>Charlottesville</b> WCHV 1420 100	
<b>PENNSYLVANIA</b>			
<b>Allentown</b> WCBA 1440 500 WSAN 1440 500			
<b>ALTOONA</b> WFBG 1310 100			
<b>EASTON</b> WEST 1200 100			
<b>ERIE</b> WLEU 1420 100			
<b>GLENSIDE</b> WIBG 970 100			
<b>GREENSBURG</b> WHJB 620 250			
<b>GROVE CITY</b> WSAJ 1310 100			
<b>HARRISBURG</b> WHP 1430 500 C WKBO 1200 100			
<b>HAZLETON</b> WAZL 1420 100			
<b>JOHNSTOWN</b> WJAC 1310 100			
<b>LANCASTER</b> WGAL 1500 100			

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Danville</b> WBTM 1370 100</p> <p><b>Harrisonburg</b> WSVA 550 500</p> <p><b>Lynchburg</b> WLVA 1200 100</p> <p><b>Newport News</b> WGH 1310 100</p> <p><b>Norfolk</b> WTAR 780 500 N</p> <p><b>Petersburg</b> WPHR 880 500</p> <p><b>Richmond</b> WBL 1210 100 WMBG 1210 100 C WRVA 1110 5000 N</p> <p><b>Roanoke</b> WDBJ 930 1000 C</p> <hr/> <p style="text-align: center;"><b>WASHINGTON</b></p> <hr/> <p><b>Aberdeen</b> KXRO 1310 100</p> <p><b>Bellingham</b> KVO5 1200 100</p> <p><b>Everett</b> KRKO 1370 50</p> <p><b>Olympia</b> KGY 1210 100</p> <p><b>Pullman</b> KWSC 1220 1000</p> <p><b>Seattle</b> KIRO 710 1000 KJR 970 5000 B KOL 1270 1000 C KOMO 920 1000 R KRSC 1120 100 KTW 1220 1000 KVL 1370 100 KXA 760 250</p> <p><b>Spokane</b> KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R</p> <p><b>Tacoma</b> KMO 1330 250 KVI 570 1000 C</p> <p><b>Walla Walla</b> KUJ 1370 100</p> <p><b>Wenatchee</b> KPO 1500 100</p> <p><b>Yakima</b> KIT 1310 100</p> <hr/> <p style="text-align: center;"><b>WEST VIRGINIA</b></p> <hr/> <p><b>Bluefield</b> WHIS 1410 500</p> <p><b>Charleston</b> WCHS 580 500</p> <p><b>Clarksburg</b> WEXP 1370 100</p> <p><b>Fairmont</b> WMMN 890 250 C</p> <p><b>Huntington</b> WSAZ 1190 1000</p> <p><b>Parkersburg</b> WPAR 1420 100</p> <p><b>Wheeling</b> WVVA 1160 5000 C</p>	<p style="text-align: center;"><b>WISCONSIN</b></p> <hr/> <p><b>Fond du Lac</b> KFIZ 1420 100</p> <p><b>Green Bay</b> WBXY 1200 100 WTAQ 1330 1000</p> <p><b>Janesville</b> WCLO 1200 100</p> <p><b>LaCrosse</b> WKBH 1380 1000</p> <p><b>Madison</b> WHA 940 2500 WIBA 1280 1000 N</p> <p><b>Manitowoc</b> WOMT 1210 100</p> <p><b>Milwaukee</b> WEMP 1310 100 WISN 1120 250 C WTMJ 620 1000 N</p> <p><b>Poyntette</b> WIBU 1210 100</p> <p><b>Racine</b> WRJN 1370 100</p> <p><b>Sheboygan</b> WHBL 1300 250</p> <p><b>Stevens Point</b> WLBL 900 2500</p> <p><b>Superior</b> WEBC 1290 1000 N</p> <hr/> <p style="text-align: center;"><b>WYOMING</b></p> <hr/> <p><b>Casper</b> KDFN 1440 500</p> <p><b>Sheridan</b> KWYO 1370 100</p> <hr/> <p style="text-align: center;"><b>CANADA</b></p> <hr/> <p style="text-align: center;"><b>ALBERTA</b></p> <hr/> <p><b>Calgary</b> CFAC 930 100 F CFCN 1030 10000 CFCJ 690 100 F</p> <p><b>Edmonton</b> CFRN 1260 100 F CJCA 730 1000 F CKUA 580 500</p> <p><b>Lethridge</b> CJOC 950 100 F</p> <hr/> <p style="text-align: center;"><b>BRITISH COLUMBIA</b></p> <hr/> <p><b>Chilliwack</b> CHWK 780 100 F</p> <p><b>Kamloops</b> CFJC 880 100 F</p> <p><b>Kelowna</b> CKOV 630 100 F</p> <p><b>Prince Rupert</b> CFPR 580 50</p> <p><b>Trail</b> CJAT 910 1000 F</p> <p><b>Vancouver</b> CJOR 600 500 CKDC 1010 100 CKFC 1410 50 CKMO 1410 100 F CKWX 1010 100 F CRCV 1100 1000 F</p> <p><b>Victoria</b> CFPT 1450 50</p>	<p style="text-align: center;"><b>MANITOBA</b></p> <hr/> <p><b>Brandon</b> CKX 1120 100 F</p> <p><b>Winnipeg</b> CJRC 630 1000 F CKY 910 15000 F</p> <hr/> <p style="text-align: center;"><b>NEW BRUNSWICK</b></p> <hr/> <p><b>Fredericton</b> CFNB 550 500 F</p> <p><b>Moncton</b> CKCW 1370 100 F</p> <p><b>St. John</b> CHSJ 1120 500 F</p> <hr/> <p style="text-align: center;"><b>N. W. TERRITORY</b></p> <hr/> <p><b>Aklavik</b> CJCU 1210 50</p> <hr/> <p style="text-align: center;"><b>NOVA SCOTIA</b></p> <hr/> <p><b>Glace Bay</b> VAS 685 2000</p> <p><b>Halifax</b> CHNS 930 1000 F</p> <p><b>Sydney</b> CJCB 1240 1000 F</p> <p><b>Wolfville</b> CKIC 1010 50</p> <p><b>Yarmouth</b> CJLS 1310 100</p> <hr/> <p style="text-align: center;"><b>ONTARIO</b></p> <hr/> <p><b>Brantford</b> CKPC 930 100 F</p> <p><b>Chatham</b> CFCO 630 100 F</p> <p><b>Cobalt</b> CKMC 1210 50</p> <p><b>Fort William</b> CKPR 730 100 F</p> <p><b>Hamilton</b> CHML 1010 100 F CKOC 1120 500 F</p> <p><b>Kingston</b> CFRC 1510 100 F</p> <p><b>Kirkland Lake</b> CJKL 1310 100 F</p> <p><b>London</b> CFPL 730 100 F</p> <p><b>North Bay</b> CFCH 930 100 F</p> <p><b>Ottawa</b> CKCO 1010 100 F CRCO 880 1000 F</p> <p><b>Prescott</b> CFLC 930 100</p> <p><b>St. Catharines</b> CKTB 1200 100 F</p> <p><b>Sault Ste. Marie</b> CJIC 1500 100</p> <p><b>Stratford</b> CJCS 1210 50</p> <p><b>Sudbury</b> CKSO 780 1000 F</p> <p><b>Timmins</b> CKGB 1420 100 F</p>	<p><b>Toronto</b> CFRB 690 10000 C CKLW 580 100 F CRCT 840 5000 N</p> <p><b>Waterloo</b> CKCR 1510 100</p> <p><b>Windsor</b> CKLW 1030 5000 CRCW 600 500 F</p> <p><b>Wingham</b> CKNX 1200 50</p> <hr/> <p style="text-align: center;"><b>PRINCE EDWARD ISLAND</b></p> <hr/> <p><b>Charlottetown</b> CFCY 630 1000 F CHCK 1310 50</p> <p><b>Summerside</b> CHGS 1450 50 F</p> <hr/> <p style="text-align: center;"><b>QUEBEC</b></p> <hr/> <p><b>Chicourtimi</b> CRCS 950 100 F</p> <p><b>Hull</b> CKKH 1210 100 F</p> <p><b>Montmagny</b> VE9EK 1185 10</p> <p><b>Montreal</b> CFCF 600 400 N CHLP 1120 100 F CKAC 730 5000 C CRCM 910 5000 F</p> <p><b>New Carlisle</b> CHNC 960 1000 F</p> <p><b>Quebec</b> CHRC 580 100 F CKGV 1310 100 F CRCK 1050 1000 F</p> <hr/> <p style="text-align: center;"><b>SASKATCHEWAN</b></p> <hr/> <p><b>Moose Jaw</b> CHAB 1200 100 F CJRM 540 1000 F</p> <p><b>Prince Albert</b> CKBI 1210 100 F</p> <p><b>Regina</b> CHWC 1010 500 F CKCK 1010 500 F</p> <p><b>Saskatoon</b> CFQC 840 1000 F</p> <p><b>Yorkton</b> CJGX 580 100 F</p> <hr/> <p style="text-align: center;"><b>NEWFOUNDLAND</b></p> <hr/> <p><b>St. John's</b> VOAC 1065 40 VOAS 940 100 VOGY 840 400 VONF 1195 500 VOWR 681 500</p> <hr/> <p style="text-align: center;"><b>MIQUELON</b></p> <hr/> <p><b>St. Pierre</b> FQN 609 250</p>
---	---	---	---

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<b>CENTRAL AMERICA</b>	<b>Saltillo</b>	<b>NUEVO LEON</b>	<b>Cardenas</b>
	XEAS 1160 100		CMGE 1370 150
	XELA 1240 50	<b>Monterrey</b>	<b>Ciego de Avila</b>
	XEOX 640 500	XEFB 1420 100	CMJH 1360 100
<b>COSTA RICA</b>		XEFJ 1230 100	CMJI 1130 50
	<b>Torreón</b>	XEH 1150 250	CMJO 1180 50
Cartago	XETB 1310 125	XET 690 500	<b>Cienfuegos</b>
TIFS 1441 7.5	<b>Villa Acuna</b>	XEX 1310 125	CMHJ 1160 100
TIGA 1014 30	XERA 840 250000		CMHW 820 100
		<b>PUEBLA</b>	CMHX 760 200
<b>San Jose</b>	<b>D. F.</b>		<b>Cruces</b>
TIEP 850 500		<b>Puebla</b>	CMHK 1330 250
TIFA 1050 75	<b>Mexico City</b>	XETH 1210 100	<b>Havana</b>
TIGH 1000 500	XEAI 1240 100		CMBC 640 150
TIGPH 650 1000	XEB 1030 10000	<b>SAN LUIS POTOSI</b>	CMBD 1170 150
TIRH 930 50	XECW 1310 10		CMBG 1140 200
TIVCA 1225 .....	XEFA 1180 500	<b>San Luis Potosi</b>	CMBN 850 150
TIX 800 .....	XEFO 940 5000	XEZZ 1370 100	CMBS 770 150
	XEFZ 1370 100		CMBX 1070 500
<b>GUATEMALA</b>	XEK 990 100	<b>SONORA</b>	CMBY 970 150
	XEL 1100 250	<b>Hermosillo</b>	CMBZ 1000 150
<b>Guatemala City</b>	XEMX 1280 12	XEBH 930 500	CMCA 1350 250
TGW 1210 10000	XEN 710 1000	<b>Nogales</b>	CMCB 1230 150
TGX 1400 250	XEW 890 50000	XEAF 990 500	CMCD 950 250
	XEWZ 1150 100		CMCF 810 600
<b>HONDURAS</b>	XEXM 610 .....		CMCG 680 150
	XEYZ 780 10000	<b>TAMAULIPAS</b>	CMCJ 1110 500
	XFX 610 1000		CMCO 1200 150
<b>Tegucigalpa</b>		<b>Matamoros</b>	CMCQ 1420 250
HRN 1340 100	<b>DURANGO</b>	XEAM 750 7.5	CMCR 1380 150
		<b>Nuevo Laredo</b>	CMCU 1460 150
<b>NICARAGUA</b>	Durango	XEBK 1000 100	CMCW 750 150
	XEE 1210 50	XEFE 1340 250	CMCX 1500 150
<b>Managua</b>		XENT 910 150000	CMCY 1030 1000
YNLF 1275 20	<b>GUANAJUATO</b>		CMK 730 3000
YNOP 1230 100		<b>Reynosa</b>	CMOA 1440 150
YNVA 950 30	Guanajuato	XEAW 960 50000	CMOK 1470 150
	XEAZ 1420 7	<b>Tampico</b>	CMOX 1320 200
<b>PANAMA</b>	Leon	XEFW 1310 250	CMQ 880 500
	XEKL 1240 500	XES 990 250	CMW 600 1400
			CMX 920 1000
<b>Colon</b>		<b>VERACRUZ</b>	<b>Holguin</b>
HP50 1440 25			CMKF 1460 250
<b>EL SALVADOR</b>	<b>JALISCO</b>	<b>Cordoba</b>	<b>Manzanillo</b>
		XEAG 1310 10	CMKM 1120 50
<b>San Salvador</b>	<b>Guadalajara</b>	<b>Jalapa</b>	<b>Matanzas</b>
RDN 680 500	XEA 1060 500	XFB 1270 250	CMGG 1400 100
	XED 1155 2500	XFD 1340 350	CMGF 1120 150
<b>MEXICO</b>		<b>Veracruz</b>	CMGH 790 250
	<b>LOWER CALIFORNIA</b>	XETF 1220 12	<b>Pinar del Rio</b>
		XEU 1010 250	CMAB 1340 .....
<b>AGUASCALIENTES</b>	<b>Agua Caliente</b>	<b>YUCATAN</b>	<b>Sagua la Grande</b>
	XEBC 730 5000		CMHA 1070 50
	<b>Coronado Island</b>	<b>Merida</b>	<b>Sancti Spiritus</b>
XFA 1310 5	XEMZ 820 .....	XEPC 560 100	CMHB 1240 50
XFC 810 350	<b>Ensenada</b>	XEME 1240 15	<b>Santa Clara</b>
	XEG 1270 200	XEY 1000 10	CMHI 1210 150
<b>CHIHUAHUA</b>	<b>Mexicali</b>	XEZ 630 500	<b>Santiago</b>
	XEAA 920 200		CMKC 1250 150
<b>Chihuahua</b>	XEAO 560 250	<b>WEST INDIES</b>	CMKD 1050 250
XEFI 1440 250	<b>Rosario</b>		CMKR 1400 100
	XEAQ 1090 1000	<b>CUBA</b>	CMKW 1330 .....
<b>Hidalgo</b>	<b>Tijuana</b>		CMKX 1190 75
XEAT 1210 50	XEAC 1240 250	<b>DOMINICAN REPUBLIC</b>	
	XEC 1160 30	<b>San Pedro de Macoris</b>	
<b>Juarez</b>	XEFL 1150 250	HJH 1395 15	
XEFV 1210 100	XEMO 860 5000	<b>Trujillo</b>	
XEF 980 100	XEOK 760 250	HJ 1195 15	
XEJ 1020 1000	XESL 1160 .....	HIX 800 700	
XEP 1160 500		HIZ 1370 10	
<b>COAHUILA</b>	<b>MICHOACAN</b>		
		<b>Caibarien</b>	<b>HAITI</b>
<b>Piedras Negras</b>	<b>Morelia</b>	CMHD 1270 250	<b>Port-au-Prince</b>
XELO 1110 10000	XEI 1370 125	<b>Camaguey</b>	HHK 920 1000
XEPN 590 50000		CMJA 1010 50	
		CMJC 1390 150	
		CMJE 1220 50	
		CMJF 1150 200	
		CMJK 780 250	
		CMJL 1340 100	
		CMJP 1430 75	
		CMJX 830 .....	

**NORTH AMERICAN B. C. STATIONS BY CALLS**

	<b>CFAC</b> 930	100		<b>CJIC</b> 1500	100		<b>CMAB</b> 1340	....
	Calgary, Alta.			S. Ste. Marie, Ont.			Pinar del Rio, Cuba	
	<b>CFCF</b> 600	400		<b>CJKL</b> 1310	100		<b>CMBC</b> 640	150
	Montreal, Que.			Kirkland Lake, Ont.			Havana, Cuba	
	<b>CFCH</b> 930	100		<b>CJLS</b> 1310	100		<b>CMBD</b> 1170	150
	North Bay, Ont.			Yarmouth, N. S.			Havana, Cuba	
X	<b>CFCN</b> 1030	10000	X	<b>CJOC</b> 950	100		<b>CMBG</b> 1140	200
	Calgary, Alta.			Lethbridge, Alta.			Havana, Cuba	
	<b>CFCO</b> 630	100		<b>CJOR</b> 600	500	X	<b>CMBN</b> 850	150
	Chatham, Ont.			Vancouver, B. C.			Havana, Cuba	
	<b>CFCT</b> 1450	50		<b>CJRC</b> 630	1000		<b>CMBS</b> 770	150
	Victoria, B. C.			Winnipeg, Man.			Havana, Cuba	
	<b>CFCY</b> 630	1000		<b>CJRM</b> 540	1000		<b>CMBX</b> 1070	500
	Charlottetown, P.E.I.			Moose Jaw, Sask.			Havana, Cuba	
	<b>CFJC</b> 880	100		<b>CKAC</b> 730	5000		<b>CMBY</b> 970	150
	Kamloops, B. C.			Montreal, Que.			Havana, Cuba	
	<b>CFLC</b> 930	100		<b>CKBI</b> 1210	100		<b>CMCZ</b> 1000	150
	Prescott, Ont.			Prince Albert, Sask.			Havana, Cuba	
	<b>CFNB</b> 550	500		<b>CKCD</b> 1010	100		<b>CMCA</b> 1350	250
	Fredericton, N. B.			Vancouver, B. C.			Havana, Cuba	
	<b>CFPL</b> 730	100		<b>CKCH</b> 1210	100		<b>CMCB</b> 1230	150
	London, Ont.			Hull, Que.			Havana, Cuba	
	<b>CFPR</b> 580	50		<b>CKCK</b> 1010	500	X	<b>CMCD</b> 950	250
	Prince Rupert, B. C.			Regina, Sask.			Havana, Cuba	
X	<b>CFQC</b> 840	1000		<b>CKCL</b> 580	100		<b>CMCF</b> 810	600
	Saskatoon, Sask.			Toronto, Ont.			Havana, Cuba	
X	<b>CFRE</b> 690	10000		<b>CKCO</b> 1010	100		<b>CMCG</b> 688	150
	Toronto, Ont.			Ottawa, Ont.			Havana, Cuba	
	<b>CFRC</b> 1510	100		<b>CKCR</b> 1510	100		<b>CMCJ</b> 1110	500
	Kingston, Ont.		X	Waterloo, Ont.			Havana, Cuba	
	<b>CFRN</b> 1260	100		<b>CKCV</b> 1310	100		<b>CMCO</b> 1200	150
	Edmonton, Alta.			Quebec, Que.			Havana, Cuba	
X	<b>CHAB</b> 1200	100		<b>CKCW</b> 1370	100		<b>CMCQ</b> 1420	250
	Moose Jaw, Sask.			Moncton, N. B.			Havana, Cuba	
	<b>CHCK</b> 1310	50		<b>CKFC</b> 1410	50		<b>CMCR</b> 1380	150
	Charlottetown, P. E. I.			Vancouver, B. C.			Havana, Cuba	
	<b>CHGS</b> 1450	50		<b>CKGB</b> 1420	100		<b>CMCU</b> 1460	150
	Summerside, P. E. I.			Timmins, Ont.			Havana, Cuba	
	<b>CHLP</b> 1120	100		<b>CKIC</b> 1010	50		<b>CMCW</b> 750	150
	Montreal, Que.			Wolfville, N. S.			Havana, Cuba	
	<b>CHML</b> 1010	100		<b>CKLW</b> 1030	5000		<b>CMCX</b> 1500	150
	Hamilton, Ont.		X	Windsor, Ont.			Havana, Cuba	
	<b>CHNC</b> 960	1000		<b>CKMC</b> 1210	50		<b>CMCY</b> 1030	1000
	New Carlisle, Que.			Cobalt, Ont.			Havana, Cuba	
	<b>CHNS</b> 930	1000		<b>CKMO</b> 1410	100		<b>CMGC</b> 1400	100
	Halifax, N. S.			Vancouver, B. C.			Matanzas, Cuba	
	<b>CHRC</b> 580	100		<b>CKNX</b> 1200	50		<b>CMGE</b> 1370	150
	Quebec, Que.			Wingham, Ont.			Cardenas, Cuba	
	<b>CHSJ</b> 1120	500		<b>CKOC</b> 1120	500		<b>CMGF</b> 1120	150
	St. John, N. B.			Hamilton, Ont.			Matanzas, Cuba	
X	<b>CHWC</b> 1010	500		<b>CKOV</b> 630	100		<b>CMGH</b> 790	250
	Regina, Sask.			Kelowna, B. C.			Matanzas, Cuba	
	<b>CHWK</b> 780	100		<b>CKPC</b> 930	100		<b>CMHA</b> 1070	50
	Chilliwack, B. C.			Brantford, Ont.			Sagua la Grande, Cu.	
X	<b>CJAT</b> 910	1000		<b>CKPR</b> 730	100		<b>CMHB</b> 1240	50
	Trail, B. C.			Fort William, Ont.			Sancti Spiritus, Cuba	
X	<b>CJCA</b> 730	1000		<b>CKSO</b> 780	1000		<b>CMHD</b> 1270	250
	Edmonton, Alta.			Sudbury, Ont.			Caibarien, Cuba	
	<b>CJCB</b> 1240	1000		<b>CKTB</b> 1200	100		<b>CMHI</b> 1210	150
	Sydney, N. S.			St. Catharines, Ont.			Santa Clara, Cuba	
	<b>CJJC</b> 690	100		<b>CKUA</b> 580	500		<b>CMHJ</b> 1160	100
	Calgary, Alta.			Edmonton, Alta.			Cienfuegos, Cuba	
	<b>CJCS</b> 1210	50		<b>CKWX</b> 1010	100		<b>CMHK</b> 1330	250
	Stratford, Ont.			Vancouver, B. C.			Cruces, Cuba	
	<b>CJCU</b> 1210	50		<b>CKX</b> 1120	100		<b>CMHW</b> 820	100
	Aklavik, N. W. T.			Brandon, Man.			Cienfuegos, Cuba	
X	<b>CJGX</b> 580	100		<b>CKY</b> 910	15000		<b>CMHX</b> 760	200
	Yorkton, Sask.			Winnipeg, Man.			Cienfuegos, Cuba	

NORTH AMERICAN B. C. STATIONS BY CALLS

	<b>CMJA</b> 1010	50		<b>HIH</b> 1395	15		<b>KEUB</b> 1420	100
	Camaguey, Cuba			San Pedro de M., D. R.			Price, Utah	
	<b>CMJC</b> 1390	150		<b>HIJ</b> 1195	15		<b>KEX</b> 1180	5000
	Camaguey, Cuba			Trujillo, D. R.			Portland, Ore.	
	<b>CMJE</b> 1220	50		<b>HIX</b> 800	700		<b>KFAB</b> 770	10000
	Camaguey, Cuba			Trujillo, D. R.			Lincoln, Neb.	
	<b>CMJF</b> 1150	200		<b>HIZ</b> 1370	10		<b>KFAC</b> 1300	1000
	Camaguey, Cuba			Trujillo, D. R.			Los Angeles, Calif.	
	<b>CMJH</b> 1360	100		<b>HP50</b> 1440	25		<b>KFBB</b> 1280	1000
	Ciego de Avila, Cuba			Colon, Panama			Great Falls, Mont.	
	<b>CMJI</b> 1130			<b>HRN</b> 1340	100		<b>KFBI</b> 1050	5000
	Ciego de Avila, Cuba			Tegucigalpa, Hond.			Ablene, Kans.	
	<b>CMJK</b> 780	250		<b>KABC</b> 1420	100		<b>KFBK</b> 1490	5000
	Camaguey, Cuba			San Antonio, Texas			Sacramento, Calif.	
	<b>CMJL</b> 1340	100		<b>KABR</b> 1420	100		<b>KFDM</b> 560	500
	Camaguey, Cuba			Aberdeen, S. Dak.			Beaumont, Texas	
	<b>CMJO</b> 1180	50		<b>KADA</b> 1200	100		<b>KFDY</b> 780	1000
	Ciego de Avila, Cuba			Ada, Okla.			Brookings, S. D.	
	<b>CMJP</b> 1430	75		<b>KALB</b> 1420	100		<b>KFEL</b> 920	500
	Camaguey, Cuba			Alexandria, La.			Denver, Colo.	
	<b>CMJX</b> 830	....		<b>KALE</b> 1300	500		<b>KFFQ</b> 680	2500
	Camaguey, Cuba			Portland, Ore.			St. Joseph, Mo.	
	<b>CMK</b> 730	3000		<b>KANS</b> 1210	100		<b>KFGQ</b> 1370	100
	Havana, Cuba			Wichita, Kans.			Boone, Iowa	
	<b>CMKC</b> 1250	150		<b>KARK</b> 890	250		<b>KFH</b> 1300	1000
	Santiago, Cuba			Little Rock, Ark.			Wichita, Kans.	
	<b>CMKD</b> 1050	250		<b>KASA</b> 1210	100		<b>KFI</b> 640	50000
	Santiago, Cuba			Elk City, Okla.			Los Angeles, Calif.	
	<b>CMKF</b> 1460	250		<b>KAST</b> 1370	100		<b>KFIO</b> 1120	100
	Hoguin, Cuba			Astoria, Ore.			Spokane, Wash.	
	<b>CMKM</b> 1120	50		<b>KBIX</b> 1500	100		<b>KFIZ</b> 1420	100
	Manzanillo, Cuba			Muskogee, Okla.			Font du Lac, Wis.	
	<b>CMKR</b> 1400	100		<b>KBPS</b> 1420	100		<b>KFJB</b> 1200	100
	Santiago, Cuba			Portland, Ore.			Marshalltown, Iowa	
	<b>CMKW</b> 1330	....		<b>KBST</b> 1500	100		<b>KFJI</b> 1210	100
	Santiago, Cuba			Big Spring, Texas			Klamath Falls, Ore.	
	<b>CMKX</b> 1190	75		<b>KBTM</b> 1200	100		<b>KFJM</b> 1370	100
	Santiago, Cuba			Jonesboro, Ark.			Grand Forks, N. D.	
	<b>CMOA</b> 1440	150		<b>KCMC</b> 1420	100		<b>KFJR</b> 1300	500
	Havana, Cuba			Texarkana, Ark.			Portland, Ore.	
	<b>CMOK</b> 1470	150		<b>KCMO</b> 1370	100		<b>KFJZ</b> 1370	100
	Havana, Cuba			Kansas City, Mo.			Fort Worth, Texas	
	<b>CMOX</b> 1320	200		<b>KCRC</b> 1360	250		<b>KFKA</b> 880	500
	Havana, Cuba			Enid, Okla.			Greeley, Colo.	
	<b>CMQ</b> 880	500		<b>KCRJ</b> 1310	100		<b>KFKU</b> 1220	1000
	Havana, Cuba			Jerome, Ariz.			Lawrence, Kans.	
	<b>CMW</b> 600	1400		<b>KDE</b> 1500	100		<b>KFNF</b> 890	500
	Havana, Cuba			Santa Barbara, Calif.			Shenandoah, Iowa	
	<b>CMX</b> 920	1000		<b>KDFN</b> 1440	500		<b>KFOR</b> 1210	100
	Havana, Cuba			Casper, Wyo.			Lincoln, Neb.	
	<b>CRCK</b> 1050	1000		<b>KDKA</b> 980	50000		<b>KFOX</b> 1250	1000
	Quebec, Que.			Pittsburgh, Pa.			Long Beach, Calif.	
	<b>CRCM</b> 910	5000		<b>KDLR</b> 1210	100		<b>KFPL</b> 1310	100
	Montreal, Que.			Devils Lake, N. D.			Dublin, Texas	
	<b>CRCO</b> 880	1000		<b>KDNC</b> 1200	100		<b>KFPW</b> 1210	100
	Ottawa, Ont.			Lewistown, Mont.			Fort Smith, Ark.	
	<b>CRCS</b> 950	100		<b>KDON</b> 1210	100		<b>KFPY</b> 890	1000
	Chicoutimi, Que.			Del Monte, Calif.			Spokane, Wash.	
	<b>CRCT</b> 840	5000		<b>KDYL</b> 1290	1000		<b>KFQD</b> 780	250
	Toronto, Ont.			Salt Lake City, Utah			Anchorage, Alaska	
	<b>CRCV</b> 1100	1000		<b>KECA</b> 1430	1000		<b>KFRK</b> 610	1000.
	Vancouver, B. C.			Los Angeles, Calif.			San Francisco, Calif.	
	<b>CRCW</b> 600	500		<b>KEHE</b> 700	500		<b>KFRO</b> 1370	100
	Windsor, Ont.			Los Angeles, Calif.			Longview, Texas	
	<b>FQN</b> 609	250		<b>KELD</b> 1370	100		<b>KFRU</b> 630	500
	St. Pierre, Miq.			El Dorado, Ark.			Columbia, Mo.	
	<b>HHK</b> 920	1000		<b>KERN</b> 1370	100		<b>KFSD</b> 600	1000
	Port-au-Prince, Haiti			Bakersfield, Calif.			San Diego, Calif.	
				<b>KDAL</b> 1500				
				DULUTH, MINN.				

NORTH AMERICAN B. C. STATIONS BY CALLS

	<b>KFSD</b> 1120 500		<b>KGGF</b> 1010 1000		<b>KIUJ</b> 1310 100
	Los Angeles, Calif.		Coffeyville, Kans.		Santa Fe, N. Mex.
	<b>KFUO</b> 550 500		<b>KGGM</b> 1230 250		<b>KIUL</b> 1210 100
	St. Louis, Mo.		Albuquerque, N. M.		Garden City, Kans.
	<b>KFVD</b> 1000 250		<b>KGHF</b> 1320 500		<b>KIUN</b> 1420 100
	Los Angeles, Calif.		Pueblo, Colo.		Pecos, Texas
	<b>KFVS</b> 1210 100		<b>KGHI</b> 1200 100		<b>KIUP</b> 1370 100
	Cape Girardeau, Mo.		Little Rock, Ark.		Durango, Colo.
	<b>KFWB</b> 950 1000		<b>KGHL</b> 780 1000		<b>KJBS</b> 1070 500
	Hollywood, Calif.		Billings, Mont.		San Francisco, Calif.
	<b>KFXD</b> 1200 100		<b>KGIR</b> 1340 1000		<b>KJR</b> 970 5000
	Nampa, Idaho		Butte, Mont.		Seattle, Wash.
	<b>KFXJ</b> 1200 100		<b>KGIW</b> 1420 100		<b>KLAH</b> 1210 100
	Grand Junction, Colo.		Alamosa, Colo.		Carlsbad, N. Mex.
	<b>KFXM</b> 1210 100		<b>KGKB</b> 1500 100		<b>KLCN</b> 1290 100
	San Bernardino, Calif.		Tyler, Texas		Blytheville, Ark.
	<b>KFXR</b> 1310 100		<b>KGKL</b> 1370 100		<b>KLO</b> 1400 500
	Oklahoma City, Okla.		San Angelo, Texas		Ogden, Utah
	<b>KFYO</b> 1310 100		<b>KGKO</b> 570 250		<b>KLPM</b> 1240 250
	Lubbock, Texas		Wichita Falls, Texas		Minot, N. D.
	<b>KFYR</b> 550 1000		<b>KGKY</b> 1500 100		<b>KLRA</b> 1390 1000
	Bismarck, N. D.		Scottsbluff, Neb.		<b>KLS</b> 1440 250
	<b>KGA</b> 1470 5000		<b>KGLO</b> 1210 100		<b>KLUF</b> 1370 100
	Spokane, Wash.		Mason City, Iowa		Galveston, Texas
	<b>KGAR</b> 1370 100		<b>KGMB</b> 1320 1000		<b>KLX</b> 830 1000
	Tucson, Ariz.		Honolulu, T. H.		Oakland, Calif.
	<b>KGB</b> 1330 1000		<b>KGNC</b> 1410 1000		<b>KLZ</b> 560 1000
	San Diego, Calif.		Amarillo, Texas		Denver, Colo.
	<b>KGBU</b> 900 500		<b>KGNF</b> 1430 1000		<b>KMA</b> 930 1000
	Ketchikan, Alaska		North Platte, Neb.		Shenandoah, Iowa
	<b>KGBX</b> 1230 500		<b>KGNO</b> 1340 250		<b>KMAC</b> 1370 100
	Springfield, Mo.		Dodge City, Kans.		San Antonio, Texas
	<b>KGCA</b> 1270 100		<b>KGO</b> 790 7500		<b>KMBC</b> 950 1000
	Decorah, Iowa		San Francisco, Calif.		Kansas City, Mo.
	<b>KGCU</b> 1240 250		<b>KGU</b> 750 2500		<b>KMED</b> 1310 100
	Mandan, N. D.		Honolulu, T. H.		Medford, Ore.
	<b>KGCX</b> 1310 100		<b>KGVO</b> 1260 1000		<b>KMJ</b> 580 500
	Wolf Point, Mont.		Missoula, Mont.		Fresno, Calif.
	<b>KGDE</b> 1200 100		<b>KGW</b> 620 1000		<b>KMLB</b> 1200 100
	Fergus Falls, Minn.		Portland, Ore.		Monroe, La.
	<b>KGDM</b> 1100 1000		<b>KGY</b> 1210 100		<b>KMMJ</b> 740 1000
	Stockton, Calif.		Olympia, Wash.		Clay Center, Neb.
	<b>KGDY</b> 1340 250		<b>KHBC</b> 1400 250		<b>KMOX</b> 1090 50000
	Huron, S. D.		Hilo, T. H.		St. Louis, Mo.
	<b>KGEK</b> 1280 100		<b>KHJ</b> 900 1000		<b>KMPC</b> 710 500
	Sterling, Colo.		Los Angeles, Calif.		Beverly Hills, Calif.
	<b>KGER</b> 1360 1000		<b>KHQ</b> 590 1000		<b>KMTR</b> 570 1000
	Long Beach, Calif.		Spokane, Wash.		Hollywood, Calif.
	<b>KGEZ</b> 1310 100		<b>KHSL</b> 950 250		<b>KNEL</b> 1500 100
	Kalispell, Mont.		Chico, Calif.		Brady, Texas
	<b>KGFF</b> 1420 100		<b>KHUB</b> 1310 250		<b>KNET</b> 1420 100
	Shawnee, Okla.		Watsonville, Calif.		Palestine, Texas
	<b>KGFG</b> 1370 100		<b>KICA</b> 1370 100		<b>KNOW</b> 1500 100
	Oklahoma City, Okla.		Clovis, N. M.		Austin, Texas
	<b>KGFI</b> 1500 100		<b>KID</b> 1320 500		<b>KNX</b> 1050 50000
	Corpus Christi, Texas		Idaho Falls, Idaho		Hollywood, Calif.
	<b>KGfJ</b> 1200 100		<b>KIDO</b> 1350 1000		<b>KOA</b> 830 50000
	Los Angeles, Calif.		Boise, Idaho		Denver, Colo.
	<b>KGfK</b> 1500 100		<b>KIDW</b> 1420 100		<b>KOAC</b> 550 1000
	Moorhead, Minn.		Lamar, Colo.		Corvallis, Ore.
	<b>KGfL</b> 1370 100		<b>KIEM</b> 1450 500		<b>KOB</b> 1180 10000
	Roswell, N. M.		Eureka, Calif.		Albuquerque, N. M.
	<b>KGfW</b> 1310 100		<b>KIEV</b> 850 250		<b>KOBH</b> 1370 100
	Kearney, Neb.		Glendale, Calif.		Rapid City, S. Dak.
	<b>KGfX</b> 630 200		<b>KINY</b> 1310 100		<b>KOCA</b> 1210 100
	Pierre, S. D.		Juneau, Alaska		Kilgore, Texas
	<b>KGgC</b> 1420 100		<b>KIRO</b> 710 1000		<b>KOH</b> 1380 500
	San Francisco, Calif.		Seattle, Wash.		Reno, Nev.
			<b>KIT</b> 1310 100		
			Yakima, Wash.		

NORTH AMERICAN B. C. STATIONS BY CALLS

X	<b>KOIL</b> 1260 Council Bluffs, Iowa	1000	X	<b>KROY</b> 1310 Sacramento, Calif.	100	X	<b>KVI</b> 570 Tacoma, Wash.	1000
X	<b>KOIN</b> 940 Portland, Ore.	1000	X	<b>KRRV</b> 1310 Sherman, Texas	100	X	<b>KVL</b> 1370 Seattle, Wash.	100
X	<b>KOL</b> 1270 Seattle, Wash.	1000	X	<b>KRSC</b> 1120 Seattle, Wash.	100	X	<b>KVOA</b> 1260 Tucson, Ariz.	500
X	<b>KOMA</b> 1480 Oklahoma City, Okla.	5000	X	<b>KSAC</b> 580 Manhattan, Kans.	500	X	<b>KVOD</b> 920 Denver, Colo.	500
X	<b>KOMO</b> 920 Seattle, Wash.	1000	X	<b>KSCJ</b> 1330 Sioux City, Iowa	1000	X	<b>KVEE</b> 1500 Santa Ana, Calif.	100
X	<b>KONO</b> 1370 San Antonio, Texas	100	X	<b>KSD</b> 550 St. Louis, Mo.	1000	X	<b>KVOL</b> 1310 Lafayette, La.	100
X	<b>KOOS</b> 1390 Marshfield, Ore.	250	X	<b>KSEI</b> 900 Pocatello, Idaho	250	X	<b>KVUU</b> 1140 Tulsa, Okla.	25000
X	<b>KORE</b> 1420 Eugene, Ore.	100	X	<b>KSFO</b> 560 San Francisco, Calif.	1000	X	<b>KVOR</b> 1270 Colorado Spgs., Colo.	1000
X	<b>KOTN</b> 1500 Pine Bluffs, Ark.	100	X	<b>KSL</b> 1130 Salt Lake City, Utah	50000	X	<b>KVOS</b> 1200 Bellingham, Wash.	100
X	<b>KOVC</b> 1500 Valley City, N. Dak.	100	X	<b>KSLM</b> 1370 Salem, Ore.	100	X	<b>KVSO</b> 1210 Ardmore, Okla.	100
X	<b>KOY</b> 1390 Phoenix, Ariz.	500	X	<b>KSO</b> 1430 Des Moines, Iowa	500	X	<b>KWBG</b> 1420 Hutchinson, Kans.	100
X	<b>KPAC</b> 1260 Port Arthur, Texas	500	X	<b>KSOO</b> 1110 Sioux Falls, S. D.	2500	X	<b>KWG</b> 1200 Stockton, Calif.	100
X	<b>KPDN</b> 1310 Pampa, Texas	100	X	<b>KSTP</b> 1460 St. Paul, Minn.	25000	X	<b>KWJJ</b> 1040 Portland, Ore.	500
X	<b>KPLC</b> 1500 Lake Charles, La.	100	X	<b>KSUN</b> 1200 Lowell, Ariz.	100	X	<b>KWK</b> 1350 St. Louis, Mo.	1000
X	<b>KPLT</b> 1500 Paris, Texas	100	X	<b>KTAR</b> 620 Phoenix, Ariz.	1000	X	<b>KWKH</b> 1100 Shreveport, La.	10000
X	<b>KPO</b> 680 San Francisco, Calif.	50000	X	<b>KTAT</b> 1240 Fort Worth, Texas	1000	X	<b>KWLC</b> 1270 Decorah, Iowa	100
X	<b>KPOF</b> 880 Denver, Colo.	500	X	<b>KTBS</b> 1450 Shreveport, La.	1000	X	<b>KWSC</b> 1220 Pullman, Wash.	1000
X	<b>KPPC</b> 1210 Pasadena, Calif.	100	X	<b>KTEM</b> 1370 Temple, Texas	100	X	<b>KWTN</b> 1210 Watertown, S. D.	100
X	<b>KPQ</b> 1500 Wenatchee, Wash.	100	X	<b>KTEP</b> 1500 El Paso, Texas	100	X	<b>KWTO</b> 560 Springfield, Mo.	5000
X	<b>KPRC</b> 920 Houston, Texas	1000	X	<b>KTFI</b> 1240 Twin Falls, Idaho	1000	X	<b>KWYV</b> 1370 Sheridan, Wyo.	100
X	<b>KQV</b> 1380 Pittsburgh, Pa.	500	X	<b>KTHS</b> 1060 Hot Springs, Ark.	10000	X	<b>KXA</b> 760 Seattle, Wash.	250
X	<b>KQW</b> 1010 San Jose, Calif.	1000	X	<b>KTRB</b> 740 Modesto, Calif.	250	X	<b>KXL</b> 1420 Portland, Ore.	100
X	<b>KRBC</b> 1420 Ablene, Texas	100	X	<b>KTRH</b> 1290 Houston, Texas	1000	X	<b>KXO</b> 1500 El Centro, Calif.	100
X	<b>KRE</b> 1370 Berkeley, Calif.	100	X	<b>KTSA</b> 550 San Antonio, Texas	1000	X	<b>KXRO</b> 1310 Aberdeen, Wash.	100
X	<b>KRGV</b> 1260 Weslaco, Texas	500	X	<b>KTSM</b> 1310 El Paso, Texas	100	X	<b>KXYZ</b> 1440 Houston, Texas	1000
X	<b>KRKD</b> 1120 Los Angeles, Calif.	500	X	<b>KTUL</b> 1400 Tulsa, Okla.	500	X	<b>KYA</b> 1230 San Francisco, Calif.	1000
X	<b>KRKO</b> 1370 Everett, Wash.	50	X	<b>KTW</b> 1220 Seattle, Wash.	1000	X	<b>KYOS</b> 1040 Merced, Calif.	250
X	<b>KRLC</b> 1420 Lewiston, Idaho	100	X	<b>KUJ</b> 1370 Walla Walla, Wash.	100	X	<b>KYW</b> 1020 Philadelphia, Pa.	10000
X	<b>KRLD</b> 1040 Dallas, Texas	10000	X	<b>KUMA</b> 1420 Yuma, Ariz.	100	X	<b>NAA</b> 690 Arlington, Va.	1000
X	<b>KRLH</b> 1420 Midland, Texas	100	X	<b>KUOA</b> 1260 Fayetteville, Ark.	1000	X	<b>RDN</b> 680 San Salvador, E. S.	500
X	<b>KRMD</b> 1310 Shreveport, La.	100	X	<b>KUSD</b> 890 Vermillion, S. D.	500	X	<b>TGW</b> 1210 Guatemala, Gua.	10000
X	<b>KRRN</b> 1500 Roseburg, Ore.	100	X	<b>KUTA</b> 1500 Salt Lake City, Utah	100	X	<b>TGX</b> 1400 Guatemala City	250
X	<b>KRNT</b> 1320 Des Moines, Iowa	500	X	<b>KVCV</b> 1200 Redding, Calif.	100	X	<b>TIEP</b> 850 San Jose, C. R.	500
X	<b>KROC</b> 1310 Rochester, Minn.	100	X	<b>KVEC</b> 1200 San Luis Obispo, Calif.	250			
X	<b>KROW</b> 930 Oakland, Calif.	1000						

NORTH AMERICAN B. C. STATIONS BY CALLS

	<b>TIFA</b> 1050	75		<b>WATL</b> 1370	100		<b>WCAD</b> 1220	500
	San Jose, C. R.			Atlanta, Ga.			Canton, N. Y.	
	<b>TIFS</b> 1441	7.5		<b>WATR</b> 1190	100		<b>WCAE</b> 1220	1000
	Cartago, C. R.			Waterbury, Conn.			Pittsburgh, Pa.	
	<b>TIGA</b> 1014	30	X	<b>WAVE</b> 940	1000	X	<b>WCAL</b> 1250	1000
	Cartago, C. R.			Louisville, Ky.			Northfield, Minn.	
	<b>TIGH</b> 1000	500		<b>WAWZ</b> 1350	500		<b>WCAM</b> 1280	500
	San Jose, C. R.			Zarephath, N. J.			Camden, N. J.	
	<b>TIGPH</b> 650	1000		<b>WAYX</b> 1200	100		<b>WCAO</b> 600	500
	San Jose, C. R.			Waycross, Ga.			Baltimore, Md.	
	<b>TIRH</b> 930	50		<b>WAZL</b> 1420	100		<b>WCAP</b> 1280	500
	San Jose, C. R.			Hazleton, Pa.			Asbury Park, N. J.	
	<b>TIVCA</b> 1225	....		<b>WBBA</b> 890	500		<b>WCAT</b> 1200	100
	San Jose, C. R.			West Lafayette, Ind.			Rapid City, S. D.	
	<b>TIX</b> 800	....		<b>WBAL</b> 760	2500	X	<b>WCAU</b> 2170	50000
	San Jose, C. R.			Baltimore, Md.			Philadelphia, Pa.	
	<b>VAS</b> 685	2000		<b>WBAL</b> 1060	10000		<b>WCAX</b> 1200	100
	Glace Bay, N. S.			Baltimore, Md.			Burlington, Vt.	
	<b>VESEK</b> 1185	10	X	<b>WBAP</b> 800	50000		<b>WCZA</b> 1070	100
	Montmagny, Que.			Fort Worth, Texas			Carthage, Ill.	
	<b>VOAC</b> 1065	40		<b>WBAX</b> 1210	100		<b>WCSA</b> 1440	500
	St. John's, Nfld.			Wilkes-Barre, Pa.			Allentown, Pa.	
	<b>VOAS</b> 940	100		<b>WBBC</b> 1400	500		<b>WCBD</b> 1080	5000
	St. John's, Nfld.			Brooklyn, N. Y.			Waukegan, Ill.	
	<b>VOGY</b> 840	400		<b>WBBL</b> 1210	100		<b>WCBM</b> 1370	100
	St. John's, Nfld.			Richmond, Va.			Baltimore, Md.	
	<b>VONF</b> 1195	500	X	<b>WBBM</b> 770	50000	X	<b>WCBS</b> 1420	100
	St. John's, Nfld.			Chicago, Ill.			Springfield, Ill.	
	<b>VOWR</b> 681	500		<b>WBBR</b> 1300	1000	X	<b>WCCE</b> 310	50000
	St. John's, Nfld.			Brooklyn, N. Y.			Minneapolis, Minn.	
	<b>WAAB</b> 1410	500		<b>WBBZ</b> 1200	100	X	<b>WCFL</b> 970	5000
	Boston, Mass.			Ponca City, Okla.			Chicago, Ill.	
	<b>WAAF</b> 920	1000	X	<b>WBCM</b> 1410	500	X	<b>WCHS</b> 580	500
	Chicago, Ill.			Bay City, Mich.			Charleston, W. Va.	
	<b>WAAT</b> 940	500		<b>WBEN</b> 900	1000	X	<b>WCHV</b> 1420	100
	Jersey City, N. J.			Buffalo, N. Y.			Charlottesville, Va.	
X	<b>WAAW</b> 660	500		<b>WBEO</b> 1310	100	X	<b>WCKY</b> 1490	5000
	Omaha, Neb.			Marquette, Mich.			Covington, Ky.	
X	<b>WABC</b> 860	50000		<b>WBIG</b> 1440	500	X	<b>WCOL</b> 1200	100
	New York, N. Y.			Greensboro, N. C.			Janesville, Wis.	
	<b>WABI</b> 1200	100		<b>WBLV</b> 1210	100		<b>WCLS</b> 1310	100
	Bangor, Maine			Lima, Ohio			Joliet, Ill.	
	<b>WABY</b> 1370	100		<b>WBNO</b> 1200	100		<b>WCMI</b> 1310	100
	Albany, N. Y.			New Orleans, La.			Ashland, Ky.	
	<b>WACO</b> 1420	100		<b>WBNS</b> 1430	500		<b>WCNW</b> 1500	100
	Waco, Texas			Columbus, Ohio			Brooklyn, N. Y.	
	<b>WADC</b> 1320	1000		<b>WBNX</b> 1350	250		<b>WCOA</b> 1340	500
	Akron, Ohio			New York, N. Y.			Pensacola, Fla.	
	<b>WAGF</b> 1370	250		<b>WBNY</b> 1370	100		<b>WCOC</b> 880	500
	Dothan, Ala.			Buffalo, N. Y.			Meridian, Miss.	
	<b>WAGM</b> 1420	100		<b>WBOQ</b> 860	50000		<b>WCOL</b> 1210	100
	Presque Isle, Me.			New York, N. Y.			Columbus, Ohio	
	<b>WAIM</b> 1200	100	X	<b>WBOW</b> 1310	100		<b>WCOP</b> 1120	500
	Anderson, S. C.			Terre Haute, Ind.			Boston, Mass.	
	<b>WALA</b> 1380	500		<b>WBRB</b> 1210	100		<b>WCPO</b> 1200	100
	Mobile, Ala.			Red Bank, N. J.			Cincinnati, Ohio	
	<b>WALR</b> 1210	100		<b>WBRC</b> 930	1000		<b>WCRW</b> 1210	100
	Zanesville, Ohio			Birmingham, Ala.			Chicago, Ill.	
	<b>WAML</b> 1310	100		<b>WBRE</b> 1310	100		<b>WCSC</b> 1360	500
	Laurel, Miss.			Wilkes-Barre, Pa.			Charleston, S. C.	
X	<b>WAPI</b> 1140	5000	X	<b>WBT</b> 1080	50000	X	<b>WCSH</b> 940	1000
	Birmingham, Ala.			Charlotte, N. C.			Portland, Me.	
	<b>WAPO</b> 1420	100		<b>WBTM</b> 1370	100		<b>WDEA</b> 1220	1000
	Chattanooga, Tenn.			Danville, Va.			Tampa, Fla.	
	<b>WARD</b> 1400	500	X	<b>WBZ</b> 990	50000	X	<b>WDFB</b> 610	1000
	Brooklyn, N. Y.			Boston, Mass.			Kansas City, Mo.	
	<b>WASH</b> 1270	500	X	<b>WBZA</b> 990	1000		<b>WDAH</b> 1310	100
	Grand Rapids, Mich.			Springfield, Mass.			El Paso, Texas	



## NORTH AMERICAN B. C. STATIONS BY CALLS

	<b>WDAS</b> 1370 Philadelphia, Pa.	100		<b>WEXP</b> 1370 Clarksburg, W. Va.	100		<b>WHAS</b> 820 Louisville, Ky.	50000
	<b>WDAY</b> 940 Fargo, N. D.	1000		<b>WFAA</b> 800 Dallas, Texas	50000		<b>WHAT</b> 1310 Philadelphia, Pa.	100
	<b>WDBJ</b> 930 Roanoke, Va.	1000		<b>WFAB</b> 1300 New York, N. Y.	1000		<b>WHAZ</b> 1300 Troy, N. Y.	500
	<b>WDBO</b> 580 Orlando, Fla.	1000		<b>WFAM</b> 1200 South Bend, Ind.	100		<b>WHB</b> 860 Kansas City, Mo.	1000
	<b>WDEL</b> 120 Wilmington, Del.	250		<b>WFAS</b> 1210 White Plains, N. Y.	100		<b>WHBB</b> 1500 Selma, Alabama	100
	<b>WDEV</b> 550 Waterbury, Vt.	500		<b>WFBC</b> 1300 Greenville, S. C.	1000		<b>WHBC</b> 1200 Canton, Ohio	100
	<b>WDGY</b> 1180 Minneapolis, Minn.	1000		<b>WFBG</b> 1310 Altoona, Pa.	100		<b>WHBF</b> 1210 Rock Island, Ill.	100
	<b>WDNC</b> 1500 Durham, N. C.	100		<b>WFBL</b> 1360 Syracuse, N. Y.	1000		<b>WHBI</b> 1250 Newark, N. J.	1000
	<b>WDDO</b> 1280 Chattanooga, Tenn.	1000		<b>WFBM</b> 1230 Indianapolis, Ind.	1000		<b>WHBL</b> 1300 Sheboygan, Wis.	250
	<b>WDRC</b> 1330 Hartford, Conn.	1000		<b>WFBR</b> 1270 Baltimore, Md.	500		<b>WHBQ</b> 1370 Memphis, Tenn.	100
	<b>WDSU</b> 1250 New Orleans, La.	1000		<b>WFDF</b> 1310 Flint, Mich.	100		<b>WHBU</b> 1210 Anderson, Ind.	100
	<b>WDWS</b> 1370 Champaign, Ill.	100		<b>WFEA</b> 1340 Manchester, N. H.	500		<b>WHBY</b> 1200 Green Bay, Wis.	100
	<b>WDZ</b> 1020 Tuscola, Ill.	250		<b>WFIL</b> 560 Philadelphia, Pa.	1000		<b>WHDF</b> 1370 Calumet, Mich.	100
	<b>WEAF</b> 660 New York, N. Y.	50000		<b>WFLA</b> 620 Clearwater, Fla.	1000		<b>WHDH</b> 830 Boston, Mass.	1000
	<b>WEAN</b> 780 Providence, R. I.	500		<b>WFMD</b> 900 Frederick, Md.	500		<b>WHDL</b> 1420 Olean, N. Y.	100
	<b>WEBC</b> 1290 Superior, Wis.	1000		<b>WFOR</b> 1370 Hattiesburg, Miss.	100		<b>WHEB</b> 740 Portsmouth, N. H.	250
	<b>WEBQ</b> 1210 Harrisburg, Ill.	100		<b>WFOY</b> 1210 St. Augustine, Fla.	100		<b>WHEC</b> 1430 Rochester, N. Y.	500
	<b>WEBR</b> 1310 Buffalo, N. Y.	100		<b>WGAL</b> 1500 Lancaster, Pa.	100		<b>WHEF</b> 1500 Kosciusko, Miss.	100
	<b>WEDC</b> 1210 Chicago, Ill.	100		<b>WGAR</b> 1450 Cleveland, Ohio	500		<b>WHFC</b> 1420 Cicero, Ill.	100
	<b>WEED</b> 1420 Rocky Mount, N. C.	100		<b>WGBB</b> 1210 Freeport, N. Y.	100		<b>WHIO</b> 1260 Dayton, Ohio	1800
	<b>WEEI</b> 590 Boston, Mass.	1000		<b>WGBF</b> 630 Evansville, Ind.	500		<b>WHIS</b> 1410 Bluefield, W. Va.	500
	<b>WEEU</b> 830 Reading, Pa.	1000		<b>WGBI</b> 880 Scranton, Pa.	500		<b>WHJB</b> 620 Greensburg, Pa.	250
	<b>WEGL</b> 1400 Brooklyn, N. Y.	500		<b>WGCM</b> 1210 Gulfport, Miss.	100		<b>WHK</b> 1390 Cleveland, Ohio	1000
	<b>WEHS</b> 1420 Cicero, Ill.	100		<b>WGES</b> 1360 Chicago, Ill.	500		<b>WHKC</b> 640 Columbus, Ohio	500
	<b>WELI</b> 900 New Haven, Conn.	500		<b>WGH</b> 1310 Newport News, Va.	100		<b>WHLB</b> 1370 Virginia, Minn.	100
	<b>WELL</b> 1420 Battle Creek, Mich.	100		<b>WGL</b> 1370 Fort Wayne, Ind.	100		<b>WRN</b> 1030 New York, N. Y.	1000
	<b>WEMP</b> 1310 Milwaukee, Wis.	100		<b>WGN</b> 720 Chicago, Ill.	50000		<b>WHO</b> 1000 Des Moines, Iowa	50000
	<b>WENR</b> 870 Chicago, Ill.	50000		<b>WGNV</b> 1210 Chester, N. Y.	100		<b>WHOM</b> 1450 Jersey City, N. J.	250
	<b>WEOA</b> 1370 Evansville, Ind.	100		<b>WGPC</b> 1420 Albany, Ga.	100		<b>WHP</b> 1430 Harrisburg, Pa.	500
	<b>WESG</b> 850 Elmira, N. Y.	1000		<b>WGR</b> 550 Buffalo, N. Y.	1000		<b>WIBA</b> 1280 Madison, Wis.	1000
	<b>WEST</b> 1200 Easton, Pa.	100		<b>WGRC</b> 1370 New Albany, Ind.	250		<b>WIBG</b> 970 Glenside, Pa.	100
	<b>WEVD</b> 1300 New York, N. Y.	1000		<b>WGST</b> 890 Atlanta, Ga.	1000		<b>WIBM</b> 1370 Jackson, Mich.	100
	<b>WEW</b> 760 St. Louis, Mo.	1000		<b>WGY</b> 790 Schenectady, N. Y.	50000		<b>WIBU</b> 1210 Poynette, Wis.	100
	<b>WEXL</b> 1310 Royal Oak, Mich.	50		<b>WHA</b> 940 Madison, Wis.	2500		<b>WIBW</b> 580 Topeka, Kans.	1000
				<b>WHAM</b> 1150 Rochester, N. Y.	50000			

## NORTH AMERICAN B. C. STATIONS BY CALLS

	<b>WIBX</b> 1200 100 Utica, N. Y.		<b>WJW</b> 1210 100 Akron, Ohio		<b>WMAL</b> 630 250 Washington, D. C.
	<b>WICC</b> 600 500 Bridgeport, Conn.	X	<b>WJZ</b> 760 50000 New York, N. Y.	X	<b>WMAQ</b> 670 50000 Chicago, Ill.
X	<b>WIL</b> 1200 100 St. Louis, Mo.		<b>WKAQ</b> 1240 1000 San Juan, P. R.		<b>WMAS</b> 1420 100 Springfield, Mass.
	<b>WILL</b> 580 1000 Urbana, Ill.		<b>WKAR</b> 850 1000 East Lansing, Mich.		<b>WMAZ</b> 1180 1000 Macon, Ga.
	<b>WILM</b> 1420 100 Wilmington, Del.		<b>WKBB</b> 1500 100 East Dubuque, Ill.	X	<b>WMBC</b> 1420 100 Detroit, Mich.
X	<b>WIND</b> 560 1000 Gary, Ind.	X	<b>WKBH</b> 1380 1000 LaCrosse, Wis.		<b>WMBD</b> 1440 500 Peoria, Ill.
	<b>WINS</b> 1180 1000 New York, N. Y.		<b>WKBI</b> 1420 100 Cicero, Ill.		<b>WMBG</b> 1210 100 Richmond, Va.
	<b>WIOD</b> 1300 1000 Miami, Fla.		<b>WKBN</b> 570 500 Youngstown, Ohio		<b>WMBH</b> 1420 100 Joplin, Mo.
	<b>WIP</b> 610 1000 Philadelphia, Pa.		<b>WKBO</b> 1200 100 Harrisburg, Pa.		<b>WMBI</b> 1080 5000 Chicago, Ill.
X	<b>WIRE</b> 1400 500 Indianapolis, Ind.	X	<b>WKBV</b> 1500 100 Richmond, Ind.		<b>WMOB</b> 1310 100 Auburn, N. Y.
	<b>WIS</b> 560 1000 Columbia, S. C.	X	<b>WKBW</b> 1480 5000 Buffalo, N. Y.		<b>WMBQ</b> 1500 100 Brooklyn, N. Y.
	<b>WISN</b> 1120 250 Milwaukee, Wis.		<b>WKBZ</b> 1500 100 Muskegon, Mich.		<b>WMBR</b> 1370 100 Jacksonville, Fla.
	<b>WJAC</b> 1310 100 Johnstown, Pa.		<b>WKUE</b> 1500 100 Griffin, Ga.	X	<b>WMC</b> 780 1000 Memphis, Tenn.
X	<b>WJAG</b> 1060 1000 Norfolk, Neb.		<b>WKOK</b> 1210 100 Sanbury, Pa.		<b>WMCA</b> 570 500 New York, N. Y.
	<b>WJAR</b> 890 1000 Providence, R. I.	X	<b>WKRC</b> 550 1000 Cincinnati, Ohio		<b>WMEX</b> 1500 100 Boston, Mass.
	<b>WJAS</b> 1290 1000 Pittsburgh, Pa.	X	<b>WKY</b> 900 1000 Oklahoma City, Okla.		<b>WMFD</b> 1370 100 Wilmington, N. C.
X	<b>WJAX</b> 900 1000 Jacksonville, Fla.		<b>WKZO</b> 590 1000 Kalamazoo, Mich.		<b>WMFF</b> 1310 250 Plattsburg, N. Y.
	<b>WJAY</b> 610 500 Cleveland, Ohio	X	<b>WLAC</b> 1470 5000 Nashville, Tenn.	X	<b>WMFG</b> 1210 100 Hibbing, Minn.
	<b>WJBC</b> 1200 100 Bloomington, Ill.		<b>WLAK</b> 1310 100 Lakeland, Fla.		<b>WMFJ</b> 1420 100 Daytona Beach, Fla.
	<b>WJBK</b> 1590 100 Detroit, Mich.		<b>WLAP</b> 1420 100 Lexington, Ky.		<b>WMFN</b> 1210 100 Clarksdale, Miss.
	<b>WJBL</b> 1200 100 Decatur, Ill.	X	<b>WLB</b> 1250 1000 Minneapolis, Minn.		<b>WMFO</b> 1370 100 Decatur, Ala.
	<b>WJBO</b> 1420 100 Baton Rouge, La.		<b>WLBC</b> 1310 100 Muncie, Ind.		<b>WMFR</b> 1200 100 High Point, N. C.
	<b>WJBR</b> 1420 100 Gastonia, N. C.	X	<b>WLBF</b> 1420 100 Kansas City, Kans.	X	<b>WMIN</b> 1370 100 St. Paul, Minn.
	<b>WJBW</b> 1200 100 New Orleans, La.		<b>WLBL</b> 900 2500 Stevens Point, Wis.		<b>WMMN</b> 890 250 Fairmont, W. Va.
	<b>WJBY</b> 1210 100 Gadsden, Ala.		<b>WLBZ</b> 620 500 Bangor, Me.		<b>WMPC</b> 1200 100 Lapeer, Mich.
X	<b>WJDX</b> 1270 1000 Jackson, Miss.		<b>WLEU</b> 1420 100 Erie, Pa.		<b>WMSD</b> 1420 100 Sheffield, Ala.
	<b>WJEJ</b> 1210 100 Hagerstown, Md.		<b>WLLH</b> 1370 100 Lowell, Mass.	X	<b>WMT</b> 600 1000 Cedar Rapids, Iowa
	<b>WJIM</b> 1210 100 Lansing, Mich.		<b>WLMU</b> 1210 100 Middlesboro, Ky.		<b>WNAC</b> 1230 1000 Boston, Mass.
	<b>WJJD</b> 1130 20000 Chicago, Ill.		<b>WLNH</b> 1310 100 Laconia, N. H.		<b>WNAD</b> 1010 1000 Norman, Okla.
X	<b>WJMS</b> 1420 100 Ironwood, Mich.	X	<b>WLS</b> 870 50000 Chicago, Ill.	X	<b>WNAX</b> 570 1000 Yankton, S. D.
	<b>WJNO</b> 1200 100 W. Palm Beach, Fla.		<b>WLTH</b> 1400 500 Brooklyn, N. Y.		<b>WNBC</b> 1380 250 New Britain, Conn.
X	<b>WJR</b> 750 50000 Detroit, Mich.		<b>WLVA</b> 1200 100 Lynchburg, Va.		<b>WNBF</b> 1500 100 Binghamton, N. Y.
	<b>WJRD</b> 1200 100 Tuscaloosa, Ala.	X	<b>WLW</b> 700 500000 Cincinnati, Ohio		<b>WNBH</b> 1310 100 New Bedford, Mass.
	<b>WJSV</b> 1460 10000 Washington, D. C.		<b>WLWL</b> 1100 5000 New York, N. Y.		<b>WNER</b> 1430 500 Memphis, Tenn.

## NORTH AMERICAN B. C. STATIONS BY CALLS

	<b>WNBX</b> 1260 1000 Springfield, Vt.		<b>WPRA</b> 1370 100 Mayaguez, P. R.		<b>WSGN</b> 1310 100 Birmingham, Ala.
	<b>WNBZ</b> 1290 100 Saranac Lake, N. Y.		<b>WPRO</b> 630 250 Providence, R. I.		<b>WSIX</b> 1210 100 Springfield, Tenn.
	<b>WNEL</b> 1290 1000 San Juan, P. R.		<b>WPRP</b> 1420 100 Ponce, P. R.		<b>WSJS</b> 1310 100 Winston-Salem, N. C.
	<b>WNEW</b> 1250 1000 Newark, N. J.		<b>WPTF</b> 680 5000 Raleigh, N. C.		<b>WSM</b> 650 50000 Nashville, Tenn.
	<b>WNLC</b> 1500 100 New London, Conn.		<b>WQAM</b> 560 1000 Miami, Fla.		<b>WSMB</b> 1320 1000 New Orleans, La.
	<b>WNOX</b> 1010 1000 Knoxville, Tenn.		<b>WQAN</b> 880 250 Scranton, Pa.		<b>WSMK</b> 1380 200 Dayton, Ohio
	<b>WNRI</b> 1200 100 Newport, R. I.		<b>WQBC</b> 1360 1000 Vicksburg, Miss.		<b>WSOC</b> 1210 100 Charlotte, N. C.
	<b>WNYC</b> 810 1000 New York, N. Y.		<b>WQDM</b> 1370 100 St. Albans, Vt.		<b>WSPA</b> 920 1000 Spartanburg, S. C.
	<b>WQAI</b> 1190 50000 San Antonio, Texas		<b>WRAX</b> 1370 100 Williamsport, Pa.		<b>WSPD</b> 1340 1000 Toledo, Ohio
	<b>WOC</b> 1370 100 Davenport, Iowa		<b>WRBW</b> 1310 100 Reading, Pa.		<b>WSPG</b> 640 500 Portland, Me.
	<b>WOCL</b> 1210 50 Jamestown, N. Y.		<b>WRAX</b> 920 250 Philadelphia, Pa.		<b>WSPR</b> 1140 500 Springfield, Mass.
	<b>WOI</b> 640 5000 Ames, Iowa		<b>WRBL</b> 1200 100 Columbus, Ga.		<b>WSUI</b> 880 500 Iowa City, Iowa
	<b>WOKO</b> 1430 500 Albany, N. Y.		<b>WRC</b> 950 500 Washington, D. C.		<b>WSUN</b> 620 1000 St. Petersburg, Fla.
	<b>WOL</b> 1310 100 Washington, D. C.		<b>WRDO</b> 1370 100 Augusta, Me.		<b>WSVA</b> 550 500 Harrisonburg, Va.
	<b>WOLS</b> 1200 100 Florence, S. C.		<b>WRDW</b> 1500 100 Augusta, Ga.		<b>WSVS</b> 1370 50 Buffalo, N. Y.
	<b>WOMT</b> 1210 100 Manitowoc, Wis.		<b>WREC</b> 600 1000 Memphis, Tenn.		<b>WSYB</b> 1500 100 Rutland, Vt.
	<b>WOOD</b> 1270 500 Grand Rapids, Mich.		<b>WREN</b> 1220 1000 Lawrence, Kans.		<b>WSYR</b> 570 250 Syracuse, N. Y.
	<b>WOPI</b> 1500 100 Bristol, Tenn.		<b>WRGA</b> 1500 100 Rome, Ga.		<b>WTAD</b> 900 500 Quincy, Ill.
	<b>WOR</b> 710 50000 Newark, N. J.		<b>WRJN</b> 1370 100 Racine, Wis.		<b>WTAG</b> 580 500 Worcester, Mass.
	<b>WORC</b> 1280 500 Worcester, Mass.		<b>WROK</b> 1410 500 Rockford, Ill.		<b>WTAL</b> 1310 100 Tallahassee, Fla.
	<b>WORK</b> 1320 1000 York, Pa.		<b>WROL</b> 1310 100 Knoxville, Tenn.		<b>WTAM</b> 1070 50000 Cleveland, Ohio
	<b>WORL</b> 920 500 Boston, Mass.		<b>WRR</b> 1280 500 Dallas, Texas		<b>WTAQ</b> 1330 1000 Green Bay, Wis.
	<b>WOS</b> 630 500 Jefferson City, Mo.		<b>WRUF</b> 830 5000 Gainesville, Fla.		<b>WTAR</b> 780 500 Norfolk, Va.
	<b>WOSU</b> 570 750 Columbus, Ohio		<b>WRVA</b> 1110 5000 Richmond, Va.		<b>WTAW</b> 1120 500 College Station, Tex.
	<b>WOV</b> 1130 1000 New York, N. Y.		<b>WSAI</b> 1330 1000 Cincinnati, Ohio		<b>WTAX</b> 1210 100 Springfield, Ill.
	<b>WOW</b> 590 5000 Omaha, Neb.		<b>WSAJ</b> 1310 100 Grove City, Pa.		<b>WTBO</b> 800 250 Cumberland, Md.
	<b>WOWO</b> 1160 10000 Fort Wayne, Ind.		<b>WSAN</b> 1440 500 Allentown, Pa.		<b>WTCN</b> 1250 1000 Minneapolis, Minn.
	<b>WPAD</b> 1420 100 Paducah, Ky.		<b>WSAR</b> 1350 1000 Fall River, Mass.		<b>WTEL</b> 1310 100 Philadelphia, Pa.
	<b>WPAR</b> 1420 100 Parkersburg, W. Va.		<b>WSAY</b> 1210 100 Rochester, N. Y.		<b>WTFI</b> 1450 500 Athens, Ga.
	<b>WPAX</b> 1210 100 Thomasville, Ga.		<b>WSAZ</b> 1190 1000 Huntington, W. Va.		<b>WTHT</b> 1200 100 Hartford, Conn.
	<b>WPAY</b> 1370 100 Portsmouth, Ohio		<b>WSB</b> 740 50000 Atlanta, Ga.		<b>WTIC</b> 1040 50000 Hartford, Conn.
	<b>WPEN</b> 920 250 Philadelphia, Pa.		<b>WSBC</b> 1210 100 Chicago, Ill.		<b>WTJS</b> 1310 100 Jackson, Tenn.
	<b>WPG</b> 1100 5000 Atlantic City, N. J.		<b>WSBT</b> 1360 500 South Bend, Ind.		<b>WTMJ</b> 620 1000 Milwaukee, Wis.
	<b>WPHR</b> 880 500 Petersburg, Va.		<b>WSFA</b> 1410 500 Montgomery, Ala.		<b>WTMV</b> 1500 100 East St. Louis, Ill.

## NORTH AMERICAN B. C. STATIONS BY CALLS

	<b>WTNJ</b> 1280 Trenton, N. J.	500		<b>XECW</b> 1310 Mexico City, D. F.	10		<b>XERA</b> 840 Villa Acuna, Coah.	250000
	<b>WTOC</b> 1260 Savannah, Ga.	1000		<b>XED</b> 1155 Guadalajara, Jal.	2500		<b>XES</b> 990 Tampico, Tams.	250
	<b>WTRC</b> 1310 Elkhart, Ind.	100		<b>XEE</b> 1210 Durango, Dgo.	50		<b>XESL</b> 1160 Tijuana, L. C.	....
	<b>WVFW</b> 1400 Brooklyn, N. Y.	500		<b>XEF</b> 980 Juarez, Chih.	100		<b>XET</b> 690 Monterrey, N. L.	500
X	<b>WWAE</b> 1200 Hammond, Ind.	100		<b>XEFA</b> 1180 Mexico City, D. F.	500		<b>XETF</b> 1310 Torreon, Coah.	125
X	<b>WWJ</b> 920 Detroit, Mich.	1000		<b>XEFB</b> 1420 Monterrey, N. L.	100		<b>XETF</b> 1220 Veracruz, Ver.	12
X	<b>WWL</b> 850 New Orleans, La.	10000		<b>XEFC</b> 560 Merida, Yuc.	100		<b>XETH</b> 1210 Puebla, Pue.	100
	<b>WWNC</b> 570 Asheville, N. C.	1000		<b>XEFE</b> 1340 Laredo, Tams.	250		<b>XEU</b> 1010 Veracruz, Ver.	250
	<b>WWRL</b> 1500 Woodside, N. Y.	100		<b>XEFI</b> 1440 Chihuahua, Chih.	250		<b>XEW</b> 899 Mexico City, D. F.	50000
	<b>WWSW</b> 1500 Pittsburgh, Pa.	100		<b>XEFJ</b> 1230 Monterrey, N. L.	100		<b>XEWZ</b> 1150 Mexico City, D. F.	100
X	<b>WWVA</b> 1160 Wheeling, W. Va.	5000		<b>XEFL</b> 1150 Tijuana, L. C.	250		<b>XEX</b> 1310 Monterrey, N. L.	125
	<b>WXYZ</b> 1240 Detroit, Mich.	1000		<b>XEFO</b> 940 Mexico City, D. F.	5000		<b>XEXM</b> 610 Mexico City, D. F.	....
	<b>W1XBS</b> 1530 Waterbury, Conn.	1000		<b>XEFV</b> 1210 Juarez, Chih.	100		<b>XEY</b> 1000 Merida, Yuc.	10
	<b>W2XR</b> 1550 Long Island City, N. Y.	1000		<b>XEFW</b> 1310 Tampico, Tams.	250		<b>XEYZ</b> 780 Mexico City, D. F.	10000
X	<b>W6XAI</b> 1550 Bakersfield, Calif.	1000		<b>XEFZ</b> 1370 Mexico City, D. F.	100		<b>KEZ</b> 630 Merida, Yuc.	500
X	<b>W9XBY</b> 1530 Kansas City, Mo.	1000		<b>XEG</b> 1270 Ensenada, B. C.	200		<b>KEZZ</b> 1370 San Luis Potosi, S. L. P.	100
	<b>XEA</b> 1060 Guadalajara, Jal.	500		<b>XEH</b> 1150 Monterrey, N. L.	250		<b>XFA</b> 1310 Aguascalientes, Ags.	5
	<b>XEAA</b> 920 Mexicali, B. C.	200		<b>XEI</b> 1370 Morelia, Mich.	125		<b>XFB</b> 1270 Jalapa, Ver.	250
	<b>XEAC</b> 1240 Tijuana, L. C.	250		<b>XEJ</b> 1020 Juarez, Chih.	1000		<b>XFC</b> 810 Aguascalientes, Ags.	350
	<b>XEAF</b> 990 Nogales, Son.	500		<b>XEK</b> 990 Mexico City, D. F.	100		<b>XFD</b> 1340 Jalapa, Ver.	350
	<b>XEAG</b> 1310 Cordoba, Ver.	10		<b>XEKL</b> 1240 Leon, Guan.	500		<b>XFO</b> 940 Mexico City, D. F.	5000
	<b>XEAI</b> 1240 Mexico City, D. F.	100		<b>XEL</b> 1100 Mexico City, D. F.	250		<b>XFX</b> 610 Mexico City, D. F.	1000
	<b>XEAM</b> 750 Matamoros, Tams.	7.5		<b>XELA</b> 1240 Saltillo, Coah.	50		<b>YNLF</b> 1275 Managua, Nicaragua	20
	<b>XEAO</b> 560 Mexicali, B. C.	250	X	<b>XELO</b> 1110 Piedras Negras, Coah.	10000		<b>YNOP</b> 1230 Managua, Nicaragua	100
	<b>XEAQ</b> 1090 Rosarito, L. C.	1000	X	<b>XEME</b> 1240 Merida, Yuc.	15		<b>YNVA</b> 950 Managua, Nicaragua	30
	<b>XEAS</b> 1160 Saltillo, Coah.	100	X	<b>XEMO</b> 860 Tijuana, L. C.	5000			
	<b>XEAT</b> 1210 Hidalgo, Chih.	50		<b>XEMX</b> 1280 Mexico City, D. F.	12			
X	<b>XEAW</b> 960 Reynosa, Tams.	50000		<b>XEMZ</b> 820 Coronado Isl., L. C.	....			
	<b>XEAZ</b> 1420 Guanajuato, Gto.	7		<b>XEN</b> 710 Mexico City, D. F.	1000			
	<b>XEB</b> 1030 Mexico City, D. F.	10000	X	<b>XENT</b> 910 Nuevo Laredo, Tams.	150000			
	<b>XEBC</b> 730 Agua Caliente, L. C.	5000		<b>XEOK</b> 760 Tijuana, L. C.	250			
	<b>XEBH</b> 930 Hermosillo, Sonora	500		<b>XEOX</b> 640 Saltillo, Coah.	500			
	<b>XEBK</b> 1000 Nuevo Laredo, Tams.	100		<b>XEP</b> 1160 Juarez, Chih.	500			
	<b>XEC</b> 1160 Tijuana, L. C.	30	X	<b>XEPN</b> 590 Piedras Negras, Coah.	50000			
X	<b>XES &amp;</b> TIJUANA L. C.	220	X					





Eastern Time P. M.	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	20:15	20:30	20:45	21:00	21:15	21:30	21:45	22:00	22:15	22:30	22:45	23:00	23:15	23:30	23:45															
QEG, Santiago, 10 670																																																															
QFCX, Montreal, 6,093																																																															
QJHO, Winnipeg, 6,150																																																															
QJHQ, Winnipeg, 6,150																																																															
QJRX, Winnipeg, 11,730																																																															
QJRX, Winnipeg, 11,730																																																															
QOCD, Havana, 6,130																																																															
QOCH, Havana, 6,130																																																															
QOCO, Havana, 9,438																																																															
QOCO, Havana, 6,010																																																															
QOOJQ, Carnegie, 8,665																																																															
QRCX, Toronto, 6,090																																																															
CTIAA, Lisbon, 9,650																																																															
DJA, Berlin, 9,560																																																															
DJB, Berlin, 15,300																																																															
DJD, Berlin, 11,770																																																															
DJN, Berlin, 9,540																																																															
EAQ, Madrid, 9,582																																																															
HAT4, Budapest, 9,125																																																															
GSA, Daventry, 6,050																																																															
GSB, Daventry, 9,510																																																															
GSC, Daventry, 9,580																																																															
GSD, Daventry, 11,750																																																															
GSE, Daventry, 15,140																																																															
GSO, Daventry, 15,180																																																															
GSP, Daventry, 15,310																																																															
HBL, Geneva, 9,585																																																															
HBP, Geneva, 7,797																																																															
HCJB, Quito, 8,900																																																															
HGZET, Guayaquil, 4,600																																																															
HCZRI, Guayaquil, 6,650																																																															
HH, San Pedro, 6,514																																																															
HIX, Trujillo, 6,130																																																															
HIZ, Trujillo, 6,315																																																															
HIIAB, Bar'q'ila, 6,447																																																															
HIABD, Car'erna, 7,280																																																															
HIABE, Car'erna, 9,500																																																															

	Eastern Time	
	A. M.	
CMCX, Montreal, 6,005		00:00
		00:15
		00:30
		00:45
		01:00
		01:15
		01:30
		01:45
		02:00
		02:15
		02:30
		02:45
		03:00
		03:15
		03:30
		03:45
		04:00
		04:15
		04:30
		04:45
		05:00
		05:15
		05:30
		05:45
		06:00
		06:15
		06:30
		06:45
		07:00
		07:15
		07:30
		07:45
		08:00
		08:15
		08:30
		08:45
		09:00
		09:15
		09:30
		09:45
		10:00
		10:15
		10:30
		10:45
		11:00
		11:15
		11:30
		11:45
DJA, Berlin, 9,560		
DJB, Berlin, 15,200		
DJD, Berlin, 11,770		
DJE, Berlin, 17,760		
DJN, Berlin, 9,540		
DJQ, Berlin, 15,280		
GSB, Daventry, 9,510		
GSD, Daventry, 11,750		
GSE, Daventry, 15,140		
SGG, Daventry, 17,790		
GSH, Daventry, 21,470		
GSO, Daventry, 15,180		
GSP, Daventry, 15,310		
HAS3, Budapest, 15,370		
HYJ, Vatican City, 15,120		
JVM, Nazaki, 10,740		
JVN, Nazaki, 10,660		
PHI, Hiversum, 17,775		
RKI, Moscow, 15,140		
RNE, Moscow, 12,000		
RNE, Moscow, 12,000		
RYL5, Khabarovsk, 4,273		
TPA2, Paris, 15,250		
TPA3, Paris, 11,880		
TPA4, 11,720, Paris		
YK2ME, Sydney, 9,585		
YK3LR, Melbourne, 9,580		
YK3ME, Melbourne, 9,510		
VPD, Suva, 13,075		
W1XK, Mills, 9,570		
W3XAD, Scht 147, 15,330		
W3XE, Wayne, 21,520		
W8XK, Pilsberg, 21,540		
W9XF, Chicago, 6,100		
YPA5, Bandoeng, 6,120		
	Sunday	
	Sunday	



# The Beginner's Story of Radio

By B. Francis Dashiell

should be in the hands of every radio listener. In this 96 page book, with the aid of many illustrations, Mr. Dashiell explains, in simple language, every action from the time the signal touches your aerial until it leaves the loud-speaker.

Beautifully bound in leatherette, well printed on good paper, you cannot afford to be without it at the new low price of

*Only 35c postpaid—Add 2c tax if you live in Ohio*

**The Radex Press, Cincinnati, Ohio**

## 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.	23:00	23:15	23:30	23:45	00:00	00:15	00:30	00:45	01:00	01:15	01:30	01:45	02:00	02:15	02:30	02:45	03:00	03:15	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30	05:45	06:00	06:15	06:30	06:45	07:00	07:15	07:30	07:45	08:00	08:15	08:30	08:45	09:00	09:15	09:30	09:45	10:00	10:15	10:30	10:45
Central Time P. M.	11:00	11:15	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	20:15	20:30	20:45	21:00	21:15	21:30	21:45	22:00	22:15	22:30	22:45
Central Time P. M.	11:00	11:15	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	20:15	20:30	20:45	21:00	21:15	21:30	21:45	22:00	22:15	22:30	22:45

# QUICK INDEX TO ALL STATION DATA

## NORTH AMERICAN BROADCAST

Frequency Checks.....October, Page 32  
 Owners' Address .....October, Page 59  
 Time on the Air.....February, Page 78  
 By Frequencies.....October, Page 59  
 By Locations .....October, Page 76  
 By Calls .....October, Page 82  
 The Month's Changes.....Oct., Page 35

## SHORT WAVE

By Frequencies.....September, Page 48  
 By Locations .....September, Page 53  
 By Calls .....September, Page 57  
 When to Tune.....October, Page 95

## FOREIGN BROADCAST

By Frequencies .....October, Page 43  
 By Locations .....October, Page 52  
 By Call Letters.....October, Page 57

## LONG WAVE

By Frequencies .....April, Page 49  
 By Locations .....April, Page 51  
 By Call Letters .....April, Page 52

## MISCELLANEOUS

Which Is the Best Aerial....March, 1935  
 Eliminating Noises.....April, 1935  
 Sets for the Short Waves....April, 1935  
 Short Wave Symbols.....April, 1935  
 The "V" Doublet Antenna.....May, 1935  
 Recording Programs.....December,, 1935  
 For Short Wave Beginners .....  
 ..... January, 1936  
 Roster of DX Clubs.....March, 1936  
 Apex Stations .....April, 1936  
 Assorted S. W. Information..May, 1936  
 A Tuned Antenna.....May, 1936  
 The Fading Problem.....May, 1936  
 A Good Pre-Selector.....June, 1936  
 Choosing an Aerial.....September, 1936

### 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.....\$4.75
- Beginner's Story of Radio ..... .35  
 (If you live in Ohio, add 3% for State Sales Tax. No tax on Subscriptions.)

Write Name Plainly .....

Street and Number .....

City and State .....

*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 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. 6KO, Washington, D. C.

J. E. SMITH, President,  
National Radio Institute  
Dept. 6KO, 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.....

# Exclusive New MIDWEST ELECTRIK-SAVER

Slashes Radio Current Bills IN HALF!



NEW  
1937  
AIR  
TESTED

## 16-TUBE MIDWEST

5 WAVE BANDS

9 to 2,200 METERS

The Elektrik-Saver is today's most sensational radio feature. It cuts radio wattage consumption as much as 50% and results in Midwest 16 and 18-tube radios consuming no more current than an ordinary 7 or 8-tube set. This feature enables the "Air Tested" Midwest to operate on low line voltage—as low as 80 volts! In addition, the Elektrik-Saver increases tube life, reduces strain on the set, eliminates repair bills etc., makes for more consistent and gloriously realistic reception.

**SAVE UP TO 50%**  
DIRECT FROM MIDWEST FACTORY

NO middlemen's profits to pay! Buying direct from the Midwest factory makes your radio dollar go twice as far. See for yourself that Midwest offers you greater radio values—enables you to buy the more economical factory-to-you way that scores of thousands of radio purchasers have preferred since 1920. Never before so much radio for so little money! Why pay more? The broad Midwest Foreign Reception and Money-Back Guarantees insure your satisfaction. You get 30 days FREE trial in your own home!

Once again, Midwest demonstrates its leadership by offering the world's most powerful and most beautiful ALL-WAVE 16-tube, 5 Band Radio. A startling achievement, it makes the whole world your playground. Powerful Triple-Twin tubes (two tubes in one!) give 18-tube results. This advanced radio is a master achievement, a highly perfected, precisely built, radio-musical instrument that will thrill you with its marvelous super performance... glorious crystal-clear "concert" realism... and magnificent foreign reception. The Dual Audio Program Expander gives a living, vital realistic quality to voice and musical reproduction.

Before you buy, write for the FREE 40-page four color 1937



### 35 ADVANCED 1937 FEATURES

The Super Deluxe Midwest is so powerful, so amazingly selective, so delicately sensitive that it brings in distant foreign stations with full loud speaker volume on channels adjacent to powerful locals. Scores of marvelous Midwest features, many of them exclusive, make it easy to parade the nations of the world before you. You can switch instantly from American programs to Canadian, police, amateur, commercial, airplane and ship broadcasts. To the finest and most fascinating foreign programs. The new Midwest Tuning System, for example, shows you exactly where to tune for foreign stations...

Automatic Aerial Adaption triples the number of foreign stations that can be secured and doubles the excitement and joy of short wave tuning.



MIDWEST USES LESS ORDINARY LIGHT BULB

With a Midwest, the finest entertainment the world has to offer is at your command! It is preferred by famous orchestra leaders, musicians, movie stars and discriminating radio purchasers everywhere. It enjoys an increasing world-wide sale because it outperforms ordinary receivers costing twice as much. You can order your Midwest "Air Tested" radio from the new 40-page catalog with as much certainty of satisfaction as if you were to come yourself to our great factory... (It pictures the beautiful 1937 radios... in their actual colors!) You pay as little as 10¢ a day. Three iron clad guarantees protect you: (1) A Foreign Reception Guarantee... (2) Absolute Guarantee of Satisfaction... (3) One Year Warranty. Fill in and mail the coupon NOW!



Only  
MIDWEST  
gives you  
**16 TUBES**  
5 WAVE BANDS  
9 to 2200 METERS  
ELECTRIK-SAVER  
PUSH BUTTON  
TUNING  
AUTOMATIC  
AERIAL ADAPTION  
DUAL AUDIO  
PROGRAM  
EXPANDER  
30 DAYS  
FREE  
TRIAL

**\$49.95** COMPLETE WITH GIANT THERMO-SONIC SPEAKER  
(LESS TAXES)

TERMS AS LOW AS 10¢ A DAY

MY MIDWEST HAS UNEQUALLED BEAUTY OF TONE AND SHARPNESS OF SELECTIVITY.  
*Glen Gray*

CONGRATULATIONS FOR CREATING THE MIDWEST. IT BRINGS IN WONDERFUL FOREIGN RECEPTION.  
*Rubinoff*

### MAIL COUPON TODAY for

Free 30-DAY TRIAL OFFER and 40-PAGE FOUR-COLOR Free CATALOG

MIDWEST RADIO CORPORATION  
Dept. D-81, Cincinnati, Ohio  
Without obligation on my part, send me your new FREE catalog and complete details of your liberal 30-day FREE trial offer. This is NOT an order. Special offer and prices prevail only when dealing direct with factory by mail.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Town \_\_\_\_\_ State \_\_\_\_\_

**MIDWEST RADIO CORP.**  
DEPT. D-81 CINCINNATI, OHIO, U.S.A.  
Established 1920 Cable Address MIRACO... All Codes