

THE OCTOBER 1936

25<sup>c</sup>

# RADIO IN DEX

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**

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### **The Radex Press, Conneaut, Ohio**



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

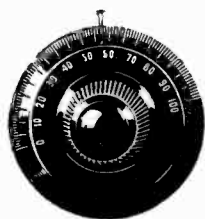
**25 to 16,000 Cycle Hi-Fidelity**—probably twice the tonal range of any other high fidelity receiver—a fact which we can demonstrate in any comparative test.

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

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

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

OCTOBER 1, 1936



# RADIO IN DEX



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## 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

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# 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.

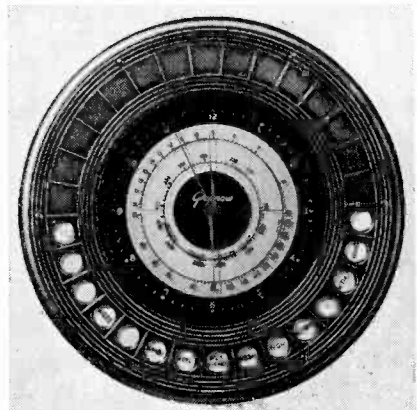
The new bank-spread dial thins out the congested traffic on the short-wave lanes simply by increasing the dial distance between foreign stations as much as six times the normal spacing for such readings. This makes tuning much easier, and in addition, the names of important foreign stations are clearly 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

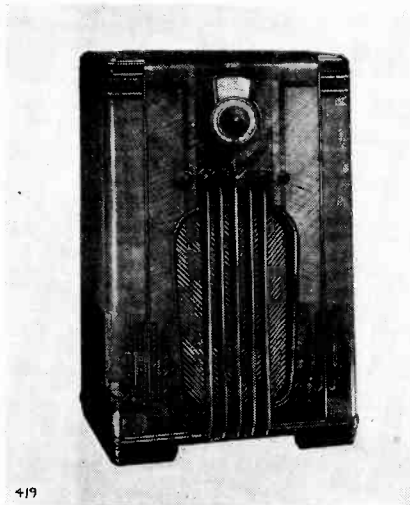
The dial, which looks like a telephone dial, provides automatic tuning for a certain number of favorite stations. The spaces around the dial, for the fingers, are fitted with printed cards bearing the call letters of the stations usually received. These cards will be inserted by the local dealer as soon 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.



419

*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 above-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.

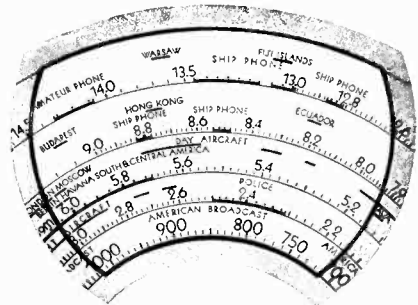
### Grunow's "Teledial"

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-

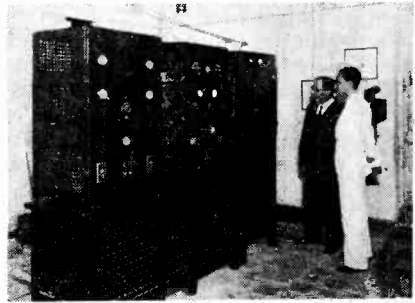
(Continued on page 34)

# 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 PRA<sup>8</sup> 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 watt. 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 Ilera, 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 last.

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.

**HI3C** 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.

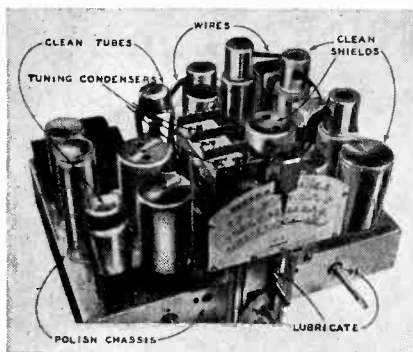
## The Effect Of Dust

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

WITH 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, KFAC, 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

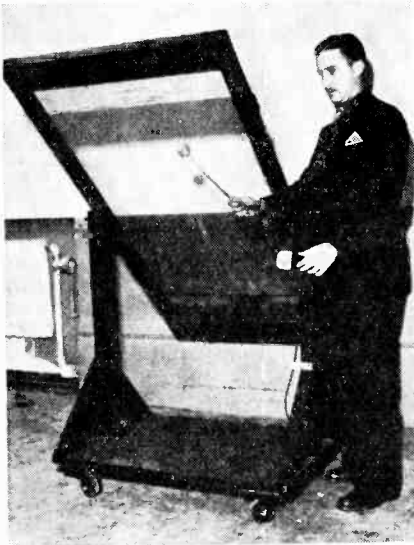


man who realizes the importance of group strength and co-operation, and who will work unselfishly for the preservation of the ideals of the ICCP.

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 loudest 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, XE1'N, XEAW, XEW, XEYZ, CMCY, CMCF, CMSG 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 keys; 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 keys; 4LG, Longreach, 1100 keys, 300 watts; 4VL, Charleville, 1430 keys, 50 watts; and 4CA, Cairns, 1390 keys, 100 watts. Projected stations are 4QN, Clevedon, 600 keys; 2NR, Lawrence, 700 keys; 6WA, Minding, 550 keys; 6KA, Kattanning, 1070 keys; 6MD, Merridin, frequency unknown; 2RG, Griffith, 1470 keys; and 2NZ, Narrabi, 1170 keys."

"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. Arbie, 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 Berozheim) and Em (Mrs. John Mitchell). Charles Lyon is the master of ceremonies and Ted Pio-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 series.

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

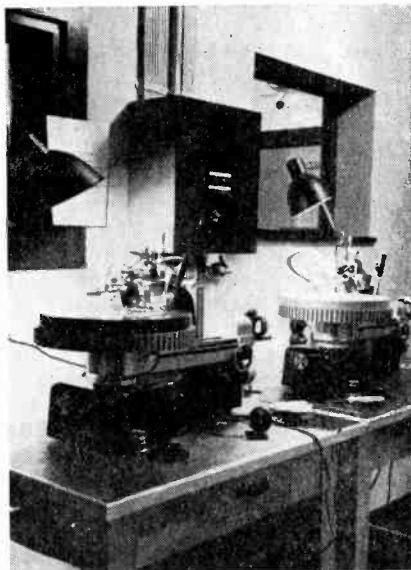
### Special Programs

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 keys., 0005-0515; 1650-2245.

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

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

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

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

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

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

**DJR**, 15340 keys., 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 Daven-try, Great Britain occur at the following times:

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

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

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

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

Trans. V. From 1800-2000 on **GSC**, 9580 keys., **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.

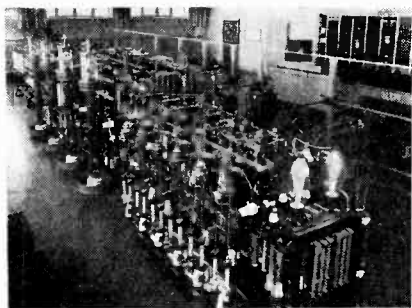
The clock in the tower of the House of Parliament in London is the largest striking clock in the world, and Big Ben is the name given to the largest bell, the one which strikes the hours. Big Ben weighs 13 and a half tons. There are several smaller bells in the tower which are used to play the Westminster 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 keys. 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 keys. lower than **LRX**, making the frequency for **YNLF** about 9645 keys. 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 keys. 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, Wisc., 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-tube 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 kcys. 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 kcys. 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 kcys.; 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 kcys. 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 shortwavers. **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 kcys., Zeesen, Germany; **LRX** on 9660 kcys. in Buenos Aires; and **TDC**, on code, at Hsinking, Manchokuo, 13955 kcys. A very new station which I have heard testing is **Radio Podebrady**, Czechoslovakia, operating on three frequencies, 6115, 11760 and 15230 kcys. 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.

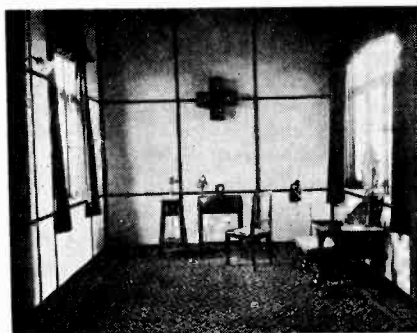
The new Australian station 9MI is considered the first ship broadcasting station in the world. Although occasional broadcasts have been relayed from ships at sea, 9MI is the first to be installed permanently with the idea of broadcasting regular programs while sailing. This transmitter is installed on 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 keys. I note that more and more DXers are trying the 20-meter amateur bands. I tried it myself



*The Sulu Daeng studios at Bangkok, Siam, where programs from s.w. HSSPJ 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.
	WHBB	1500	Seima, Ala.
2:20-2:40	WMIAS	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	Brooklyn, 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.
	WLAJ	1310	Lakeland, Fla.
5:00-5:20	KIEM	1450	Eureka, Calif.
	WGCM	1210	Gulfport, 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.
	WDA5	1370	Philadelphia, Pa.
2:10-2:30	WBBL	1210	Richmond, Va.
2:20-2:40	WFBG	1310	Altoona, Pa.
2:30-2:50	WMBG	1210	Richmond, Va.
2:40-3:00	WEBR	1310	Buffalo, N. Y.
2:50-3:10	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	KBIN	1500	Muskogee, Okla.
	WKRC	550	Cincinnati, Ohio
	WHEC	1430	Rochester, N. Y.
3:30-3:50	WNAD	1010	Norman, Okla.
	WMBC	1420	Detroit, Mich.
	WRAC	1370	Williamsport, Pa.
3:40-4:00	KFVS	1210	Cape Girardeau, Mo.
	WTAD	900	Quincy, Ill.
	WJAC	1310	Johnstown, Pa.
3:50-4:10	WTAW	1120	College Station, Tex.
	WBNS	1430	Columbus, Ohio
	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
	KPQ	1500	Wenatchee, Wash.
4:20-4:40	WPAR	1420	Parkersburg, W. Va.
	KRMD	1310	Shreveport, La.
	KFIO	1120	Spokane, Wash.
	WCLO	1200	Janesville, Wisc.
4:30-4:50	WSYR	570	Syracuse, N. Y.
	KGCA	1270	Decorah, Iowa
	KORE	1420	Eugene, Ore.
	WJAY	610	Cleveland, Ohio
	WNBZ	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
	WHK	1390	Cleveland, Ohio
	WWSW	1500	Pittsburgh, Pa.
5:00-5:20	WSAY	1210	Rochester, N. Y.
	WSPD	1340	Toledo, Ohio
5:10-5:30	KAST	1370	Astoria, Ore.
	KNET	1420	Palestine, Texas
	WAVE	940	Louisville, Ky.
5:20-5:40	KCMO	1370	Kansas City, Mo.
	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**

2:00-2:20	WMEJ	1420	Daytona Beach, Fla.
2:10-2:30	WAIM	1200	Anderson, S. C.
2:20-2:40	KVOI	1310	Lafayette, La.
2:30-2:50	WHBQ	1370	Memphis, Tenn.
2:40-3:00	WKAQ	1240	San Juan, P. R.
2:50-3:10	WSIS	1310	Winston-Salem, N. C.
3:00-3:20	KABR	1420	Aberdeen, S. Dak.
	WFAM	1200	South Bend, Ind.
	WMFD	1370	Wilmington, N. C.
3:10-3:30	KLCN	1290	Blytheville, Ark.
	WPAX	1210	Thomasville, Ga.
3:20-3:40	KFPL	1310	Dublin, Texas
	WBBN	570	Youngstown, Ohio
	WRDW	1500	Augusta, Ga.
3:30-3:50	KGBX	1230	Springfield, Mo.
	WELL	1420	Battle Creek, Mich.
	WQBC	1360	Vicksburg, Miss.
3:40-4:00	KFNJ	1200	Grand Junction, Colo.
	KPLC	1500	Lake Charles, La.
	WADC	1320	Akron, Ohio
3:50-4:10	KARD	890	Little Rock, Ark.
	WQPC	1420	Albany, Ga.
	WOSU	570	Columbus, Ohio
4:00-4:20	KFJZ	1370	Fort Worth, Texas
	WHBU	1210	Anderson, Ind.
	WJNO	1200	Jacksonville, Fla.
4:10-4:30	WBEO	1310	Marquette, Mich.
	WCOC	880	Meridian, Miss.
	WLB	1250	Minneapolis, Minn.
4:20-4:40	KSO	1430	Des Moines, Iowa
	WMPC	1200	Lapeer, Mich.
4:30-4:50	WEXL	1310	Royal Oak, Mich.
	WHLB	1370	Virginia, Minn.
4:40-5:00	WJMS	1420	Ironwood, Mich.
4:50-5:10	KFNX	1310	Oklahoma City, Okla.
	WTAX	1210	Springfield, Ill.
5:00-5:20	KFJB	1200	Marshalltown, Iowa
	WEOA	1370	Evansville, Ind.
5:10-5:30	WDZ	1020	Tuscola, Ill.
5:20-5:40	KELD	1370	El Dorado, Ark.
5:30-5:50	KDLR	1210	Devils Lake, N. Dak.

**The Second Thursday**

2:00-2:20	WSVS	1370	Buffalo, N. Y.
2:10-2:30	WKOK	1210	Sunbury, Pa.
2:20-2:40	WRAW	1310	Reading, Pa.
2:30-2:50	WCOL	1210	Janestown, N. Y.
2:40-3:00	WTEL	1310	Philadelphia, Pa.
2:50-3:10	WHIS	1410	Bluefield, W. Va.
3:00-3:20	KGKO	570	Wichita Falls, Tex.
	WCPO	1200	Cincinnati, Ohio
	WQAN	890	Seranton, Pa.
3:10-3:30	KFYO	1310	Lubbock, Texas
	WGL	1370	Ft. Wayne, Ind.
	WLEU	1420	Erie, Pa.
3:20-3:40	KGFI	1500	Corpus Christi, Texas
	WIBU	1210	Poynette, Wis.
3:30-3:50	KGFL	1370	Roswell, N. Mex.
	WBCM	1410	Bay City, Mich.
	WSAJ	1310	Grove City, Pa.
3:40-4:00	KGGM	1230	Albuquerque, N. Mex.
	WJBC	1200	Bloomington, Ill.
3:50-4:10	KGHF	1320	Pueblo, Colo.
	WLAP	1420	Lexington, Ky.
4:00-4:20	KGHI	1200	Little Rock, Ark.
	KXO	1500	El Centro, Calif.
	WSMK	1380	Dayton, Ohio
4:10-4:30	KGIW	1420	Alamosa, Colo.
	KJBS	1070	San Francisco, Calif.
	WJIM	1210	Lansing, Mich.
4:20-4:40	KGKB	1500	Tyler, Texas
	KGU	750	Honolulu, T. H.
	WBOW	1310	Terre Haute, Ind.
4:30-4:50	KGKL	1370	San Angelo, Tex.
	KSNL	1200	Lowell, Ariz.
	WCBS	1420	Springfield, Ill.
4:40-5:00	KHSL	950	Chico, Calif.
	WDAH	1310	El Paso, Texas
	WTMV	1500	East St. Louis, Ill.
4:50-5:10	KERN	1370	Bakersfield, Calif.
	WHBF	1210	Rock Island, Ill.

5:00-5:20  
5:10-5:30  
5:20-5:40  
5:30-5:50

KHBC 1400  
WTRC 1310  
KTRB 740  
WVAE 1200  
WIBM 1370  
WALR 1210

Hilo, T. H.  
Elkhart, Ind.  
Modesto, Calif.  
Hammond, Ind.  
Jackson, Mich.  
Zanesville, Ohio

**The Second Friday**

2:00-2:20	WGNV	1210	Chester, N. Y.
2:10-2:30	WCNSW	1500	Brooklyn, N. Y.
2:20-2:40	WGBB	1210	Freeport, N. Y.
2:30-2:50	WABY	1370	Albany, N. Y.
2:40-3:00	WNRI	1200	Newport, R. I.
2:50-3:10	WBYB	1500	Rutland, Vt.
3:00-3:20	KICA	1370	Clovis, N. Mex.
	WEBQ	1210	Harrisburg, Ill.
3:10-3:30	WACO	1420	Waco, Texas
	WLCB	1310	Muncie, Ind.
	WEW	760	St. Louis, Mo.
3:20-3:40	WIBX	1200	Utica, N. Y.
	WKBB	1500	E. Dubuque, Ill.
3:30-3:50	KUOA	1260	Fayetteville, Ark.
	WAGM	1420	Presque Isle, Me.
	WHDF	1370	Calumet, Mich.
3:40-4:00	KIUJ	1310	Santa Fe, N. Mex.
	WJW	1210	Akron, Ohio
	WNBZ	1290	Saranac Lake, N. Y.
3:50-4:10	WJBK	1500	Detroit, Mich.
	WMBH	1420	Joplin, Mo.
	WRDO	1370	Augusta, Me.
4:00-4:20	KIUL	1210	Garden City, Kans.
	WCML	1310	Ashland, Ky.
4:10-4:30	WCAZ	1070	Carthage, Ill.
	WLBK	1420	Kansas City, Kans.
4:20-4:40	WMFG	1210	Hibbing, Minn.
	WTAQ	1330	Green Bay, Wis.
4:30-4:50	KIUP	1370	Durango, Colo.
	WPAD	1420	Paducah, Ky.
4:40-5:00	KNOW	1500	Austin, Texas
	WEMP	1310	Milwaukee, Wis.
4:50-5:10	KGDE	1200	Fergus Falls, Minn.
5:00-5:20	KIUN	1420	Pecos, Texas
5:10-5:30	KGKE	1200	Sterling, Colo.
5:20-5:40	KMAC	1370	San Antonio, Texas
5:30-5:50	WLL	1200	St. Louis, Mo.
5:40-6:00	KGFG	1370	Oklahoma City, Okla.

**The Second Saturday**

2:00-2:20	WMFR	1200	High Point, N. C.
2:10-2:30	WMFO	1370	Decatur, Ala.
2:20-2:40	WSOC	1210	Charlotte, N. C.
2:30-2:50	WTJS	1310	Jackson, Tenn.
2:40-3:00	WSIX	1210	Nashville, Tenn.
2:50-3:10	WROL	1310	Knoxville, Tenn.
3:00-3:20	KOTN	1500	Pine Bluff, Ark.
	WQAM	560	Miami, Fla.
3:10-3:30	KWYO	1370	Sheridan, Wyo.
	WCLS	1310	Joliet, Ill.
	WPRP	1420	Ponce, P. R.
3:20-3:40	KGCV	1240	Mandan, N. Dak.
	WHBV	1200	Green Bay, Wis.
	WNEL	1290	San Juan, P. R.
3:30-3:50	KXYZ	1440	Houston, Texas
	WAML	1310	Laurel, Miss.
	WKBV	1400	Richmond, Ind.
3:40-4:00	KRGV	1260	Weslaco, Texas
	WJBL	1200	Decatur, Ill.
	WPFH	1370	Hattiesburg, Miss.
3:50-4:10	KNEL	1500	Brady, Texas
	WEED	1420	Rocky Mount, N. C.
	WGBF	630	Evansville, Ind.
4:00-4:20	KPQD	780	Anchorage, Alaska
	KVSO	1210	Ardmore, Okla.
	WFDF	1310	Flint, Mich.
4:10-4:30	KONO	1370	San Antonio, Texas
	KVOS	1200	Bellingham, Wash.
	WKBZ	1500	Muskegon, Mich.
4:20-4:40	KRLC	1420	Lewiston, Idaho
	KTNM	1310	El Paso, Texas
4:30-4:50	KUJ	1370	Walla Walla, Wash.
4:40-5:00	KCMC	1420	Texarkana, Ark.
	KRNR	1500	Roseburg, Ore.
4:50-5:10	KVL	1370	Seattle, Wash.
	KWTN	1210	Watertown, S. Dak.

5:00-5:20	KGFF	1420	Shawnee, Okla.
	KIT	1310	Yakima, Wash.
5:10-5:30	KBTM	1200	Paragould, Ark.
	KRKO	1370	Everett, Wash.
5:20-5:40	KPRO	1370	Longview, Texas
	KGEZ	1310	Kalispell, Mont.
5:30-5:50	KFXD	1200	Nampa, Idaho
5:40-6:00	KXKO	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 keys.

A 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 kcs. 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 kcs. so we will overlook them because the average radio set isn't calibrated well enough to notice 5 kcs. 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

### NEW

1210	KLAH	Carlsbad, N. Mex.
1330	CMKW	Santiago, Cuba
1370	WPRM	Mayaguez, P. R.
1500	KOVC	Valley City, N. Dak.

### POWER

580	KMJ	Fresno, Calif. 500 from 1000
1300	WBBL	Sheboygan, Wisc., 250 from 500
1320	WSMB	New Orleans, La., 1000 from 500

### CALL LETTERS

1310	KHUB	Watsonville, Calif., from KWAT
1370	KOBH	Rapid City, S. Dak., from KBHB
	WFOR	Hattiesburg, Miss., from WFPB

## 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	Oklmulgee, Okla.
2.616	KAEP	Tenakee, Alaska
3.040	YDA	Tandjong Priok, N. E. I.
3.093	KAED	Angoon, Alaska
6.018	ZIHI	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	THNRH	Iheredia, 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

### FREQUENCIES

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
9.490	HJ1ABE	Cartagena, Col., from 6.115
9.505	XEFT	Veraacruz, 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

### CALL LETTERS

5.985	NEWI	Mexico City, D. F., from NEVI
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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 Brdestg. 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 WHCC WOKO

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

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

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**R — Amos 'n' Andy**  
 KYW WBEN WCAE WCSH WFAE  
 WEEL WFBR WGY WJAR WLW  
 WRC WTAG WTIC

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C — Popeye the Sailor**  
 KFAB KLZ KMBC KMOX KRNT  
 KSL WABC WADC WBBM WBNS  
 WCAO WCAU WDRC WEAN WFBL  
 WFHM WGR WHAS WHCC WHK  
 WIBX WICC WJAS WJSV WKRC  
 WNAC WOC WOKO WORC WSMK  
**R — Uncle Ezra's Radio Station**  
 KPRC KTBS KTBS KVOO KYW  
 WBAP WBEN WCAE WCKY WCSH  
 WDAF WFAE WEEI WFBR 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 — Charlotte's and Judy Starr**  
 KDB KERN KFAB KFBK KFPY  
 KFRG KGB KHJ KAJ KMOX KOIN  
 KOL KSL KVI KWG WAAB WBBM  
 WCAO WCAU WCCO WEAN WFBL  
 WFHM 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 KRLL 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 KFRG KGB KHJ KLRA KLZ  
 KMBC KMJ KMOX KOIN KOL  
 KRLL KRNT KSL KTRH KTSB  
 KTUL KVI KWG WABC WBBM  
 WBRG WBT WCAO WCAU WCCO  
 WDRC WFBL WFHM WGR WGST  
 WHAS WHK WJAS WJR WJSV  
 WKRC WLAC WMBR WNAC WNAX  
 WOKO WREC WWL

**R — Fibber McGee and Molly**  
 KSD KYW WBEN WCAE WCKY  
 WCSH WDAF WFAE WEEI WFBR  
 WGY WFO WIRE WJAR WMAQ  
 WOOD WOW WRC WTAG WTAM  
 WTIC WJZ

**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 WHCC WHK  
 WHP WICC WJAS WJR WJSV  
 WKRC WLZ WMAS WNAC WOKO  
 WORC WSPD

**R — Voice of Firestone**  
 CFCE CRCT KFYR KPRC KSD  
 KSTP KTBS KVOO KYW WAVE  
 WBEN WCAE WCSH WDSB WDAF  
 WDAY WFAE WFCB WEEI WFAA  
 WFBC 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 WTIC WTMJ  
 WWJ WNNC

**B — Melodiana; Abe Lyman**  
 KDKA KOIL KSO KWK WBAL WBZ  
 WBJZ 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 CKAC KDB KERN KFAB

KFBK KFPY KFRG KGB KHJ  
 KLRA KLZ KMBC KMJ KMOX  
 KOIN KOL KOMA KRLL KRNT  
 KSL KTRH KTSB KTUL KVI KWG  
 WABC WADC WBBM WBNS WBRG  
 WBT WCAO WCAU WCCO WDAE  
 WDBJ WDRC WEAN WFBL WFHM  
 WGST WHAS WHCC WHK WICC  
 WISN WJAS WJR WJSV WKBW  
 WKRC WLAC WNAC WNAX WOKO  
 WORC WQAM WREC WWL

**B — Sinclair Greater Minstrels**  
 KDKA KDYL KFYR KOA KOIL  
 KPRC KSO KSTP KPBS KTBS  
 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 WSMB WSOC  
 WSYR WSYR WTAR WTMJ WNNC  
 WXYZ

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**R — Richard Himber and Orchestra**  
 KFYR KPRC KSD KSTP KTBS  
 KVOO KYW WBEN WCAE WCSH  
 WDAF WDAY WFAE WEBC WFAA  
 WFBR 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 WBEN WCAE WCSH WDAF  
 WFAE WEEI WFBR WFLA WGY  
 WHO WIOD WIS WJAR WJAX  
 WKY WMAQ WMC WOAI WOW  
 WPTF WRC WRVA WSB WSM  
 WTAG WTAM WTAR WTIC WJZ  
 WNNC

**C — Wayne King and Orchestra**  
 KDB KERN KFAB KFBK KFPY  
 KFRG KGB KHJ KLZ KMBC  
 KMJ KMOX KOIN KOL KRNT  
 KSL KVI KWG WAAB WABC  
 WADC WBBM WBNS WBT WCAO  
 WCAU WCCO WDRC WEAN WFBL  
 WFHM 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 KERN KFAB KFBB KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRLD KRNT  
KSL KVI KWG WABC WADC  
WBWM WBT WCAO WCAU WCGO  
WDAE WDBO WDRC WEAN WFBL  
WFBN WGST WHAS WHIC 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 WFLA  
WHIC WHK WIBX WJAS WKBN  
WKBW WLBZ WMSB WOKO WORC  
WPG WSBT WSPD

**R — Amos 'n' Andy**  
KDYL KFI KGW KHQ KOA KOMO  
KPO KPRC KSD WBAP WDAF  
WHO WKY WLW WMC WOAT WOV  
WSB WMSB WMTM WWJ

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Renfrew of the Mounted**  
KDB KERN KFBB KFPY KFRC  
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 WDJ  
WDNC WDOO WDRC WEAN WFBL  
WFBN WFLA WGST WHAS WHIC  
WHK WIBX WJAS WJR  
WJSV WKBW WKRC WLAC  
WLBZ WMAS WMBG WMBR WNAC  
WOKO WORC WQAM WREC WSBT  
WSJ WSMK WSPD WTOC

**C — Fick and Pat**  
KDB KERN KFBB KFPY KFRC  
KFB KGKO KHJ KLRA KLZ KMJ  
KMOX KOIN KOL KOMA KRLD  
KRNT KSCJ KSL KTUL KVI KWG  
KWKH WACO WBRG WCCO WFBN  
WHAS WLAC WREC

**R — Voice of Firestone**  
KDYL KFI KFSD KGHK KGIR  
KGU KGW KHQ KOA KOMO KPO  
KTRAR

# TUESDAY

**E-6:00 p.m., C-5:00, M-4:00, P-3:00**  
**C — Fetti Chapin; Songs**  
CFRB KERN KFBB KFI KFPY  
KFRC KGB KGKO KHJ KLZ KMBC  
KNOW KOH KOI KOMA KRLD  
KRNT KSCJ KTRH KVI KVOR  
KWG WAAB WABC WACO WALA  
WBIG WBNS WBRG WCAO WDAE  
WDBJ WDBO WDNC WDOO WESG  
WFBL WFBN WGST WHAS WHK  
WHIP WLX 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 WRK WBAW  
WCC WJR WKBW WLBZ WNAC  
WOKO WORC WWVA

**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**  
**B — Easy Aces**

KDKA KDYL KFI KGW KHQ KOA  
KOIL KOMO KPO KSO KWK WBAL  
WBZ WBZA WCKY WENR WFLL  
WGAR WHAM WHIO WIRE WJZ  
WMAL WMT WSYR WNYZ  
**C — Krueger Musical Toast**  
WABC WBIG WBT WDBJ WDNC  
WDRC WEAN WFLA WGST WIGG  
WLBZ WNAS WMBG WMBR WNAC  
WORC

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**R — Voice of Experience**  
KDYL KFI KFYR KGW KHQ KOA  
KOMO KPO KSD KSTP KYW WBRN  
WCAE WCHL WDAF WDAY WFAF  
WFCB WFLA WFLR 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 KRLD KRNT  
KTRH WABC WADC WBMM WBIG  
WBNS WBRG WBT WCAO WCAU  
WCOO WDAE WDRC WEAN WFBL  
WFBN WGR WGST WHAS WHK  
WJAS WJR WJSV WKBW WKRC  
WLBZ WMAS WMBG WMBR WNAC  
WOKO WORC WWL WWVA

**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  
WBMM WBNS WCAO WCAU WDRC  
WEAN WFBL WFBN WGR WHAS  
WHK WJAS WJR WJSV WKRC  
WNAS WNAC WOKO WSPD

**R — Leo Reisman and Orchestra**  
KPYR KPRC KSD KSTP KTBS  
KVOO KYW WBAP WBRN WCAE  
WCHL WDAF WDAY WFAF WFLA  
WFLR WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDN  
WKY WLW WMAQ WOW WPTF  
WRC WRVA WSOE WTAG WTAM  
WTAR WTIC WTMJ WWJ WYWC

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Russ Morgan; Ken Murray**  
CFRB CKAC KFAB KFI KLRA  
KMBC KMOX KOMA KRLD KRNT  
KSL KTRH KTSB KTUL WABC  
WADC WBBM WBNS WBRG WBT  
WCAO WCAU WCOO WDAE WDBJ  
WDRC WEAN WFBL WFBN WGR  
WGST WHAS WHIC WHK WCC  
WNSB WJAS WJR WJSV WKRC  
WLAC WNAS WMBD WMBG  
WNAE WNAX WOKO WORC WQAM  
WREC WWL

**R — Wayne King and Orchestra**  
KPYR KPRC KSD KSTP KTBS  
KVOO KYW WAVE WBAP WBRN  
WCAE WCKY WCHL WDAF WDAY  
WFAF WFCB WFLA WFLR WGY  
WHO WHIO WIBA WIRE WJAR  
WJDN 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 WFLL 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 KFI KGKO  
KLRA KMBC KMOX KOMA KRLD  
KRNT KSCJ KTRH KTSB KTUL  
KWKH WABC WACO WADC WALA  
WBMM WBIG WBNS WBRG WBT  
WCAO WCAU WCOO WDAE WDBJ  
WDBO WDNC WDOO WDRC WEAN  
WFBL WFBN WFLA WGST WHAS  
WHIC WHK WHIP WHW WIBX  
WIGG WISN WJAS WJR WJSV  
WKBH WKBN WKH WKRK  
WLAC WLBZ WMAS WMBD WMBG  
WMBR WMMN WNAC WNAX  
WNB WNOX WOC WOKO WORC  
WOWO WPG WQAM WREC WSBT  
WSFA WSJS WSPD WTOC WWL

**R — Vox Pop; Sidewalk Interviews**  
KSD KYW WBRN WCAE WCKY  
WCHL WDAF WFAF WFLA WFLR  
WGY WHO WHIO WIRE WJAR  
WMAQ WOW WRC WTAG WTAM  
WTIC WWJ

**B — Ben Bernie and Orchestra**  
KDKA KDYL KFI KFSD KFYR  
KGW KHQ KOA KOIL KOMO KPO  
KPRC KSO KSTP KTRH KTSB  
KVVO KWK WAVE WBAL WBAP  
WBZ WBZA WDAY WFCB WFLL  
WFLA WGAR WHAM WIBA WIOD  
WIS WJAX WJDX WJZ WKY WLS  
WLW WMAL WMC WMT WOAI  
WPTF WREN WRVA WSB WSM  
WSMB WSOE WSYR WTAR WTMJ  
WVNC WXYZ

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Camel Caravan**  
KDB KERN KFAB KFBB KFI  
KFPY KFRC KGB KGKO KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KOMA KRLD  
KRNT KSCJ KSL KTRH KTSB  
KTUL KVI KVOR KWH KWKH  
WABC WACO WADC WALA WBMM  
WBIG WBNS WBRG WBT WCAO  
WCAU WCOO WDAE WDBJ WDBO  
WDNC WDOO WDAE WDBJ WDBO  
WDRC WEAN WFBL  
WFBN WFLA WGST WHAS WHIC  
WHK WHI WHP WJAS WJR  
WJSV WKBW WKRC WLAC  
WLBZ WMAS WMBD WMBG  
WMBR WNAC WNAX  
WNOX WOKO WORC WOWO WPG  
WQAM WREC WSBT WSFA WSJS  
WSPD WTOC WWL

**R — Fred Astaire; Johnny Green**  
CRCT KDYL KFI KFYR KGW  
KHQ KOA KOMO KPO KPRC KSD  
KSTP KTBS KTHS KVVO KYW  
WAVE WBAP WDAY WCAE WCKY  
WCHL WDAF WDBY WFAF WFCB  
WFLA WFLR WFLA WGY WHO  
WHIO WIBA WIOD WIRE WJZ  
WJAR WJAX WJDX WKY WMAQ  
WMC WOAI WOW WPTF WRC  
WRVA WSM WSMB WSOE WTAG  
WTAM WTAR WTIC WTMJ WWJ  
WVNC

**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 WBX WJAS WJSV WKHB  
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 WDDO WDRG  
WEAN WFBL WFBM WFEA WGST  
WHAS WHEC WHK WBX WICC  
WISN WJAS WJR WJSV WKWB  
WKRC WLAC WLZB WMAS WMBD  
WMBR WMNR WNAX WNOX WOC  
WOKO WORC WQAM WREC WSBT  
WSJS WSMK WSPD WTOC

**C** — "Laugh with Ken Murray"  
KDB KERN KFBK KFPY KFCR  
KGB KHJ KLZ KMJ KOH KOIN  
KOL KSL KVI KVR KWG

**R** — Leo Reisman and Orchestra  
KDYL KFI KFSD KHGL KHGR  
KGGW KHQ KOA KOMO KPO KTRH

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

**B** — Folies de Paree  
KDKA KOIL KSO KWK WBAL  
WBZ WBZA WCKY WFIL WGAR  
WHAM WHO WIRE WJZ WLS  
WMAL WMT WREN WSYR WXYZ

**R** — One Man's Family  
KDYL KFI KFYL KGW KHQ KOA  
KOMO KPO KPRC KSD KSTP  
KTRH KTBS KTIS KYOO KYW  
WAPI WAVE WBAF WBBM WCAE  
WCSH WDAF WDAY WEAF WECB  
WEEI WFAA WFBM WFLA WGY  
WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ

WMC WOAI WOW WPTF WRC  
WRVA WSB WSM WSBM WSOC  
WSUN WTAG WTAM WTRT 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 WDAE WBT  
WCAU WCAU WCCO WDBE WDBJ  
WDBO WDRC WEAN WFBL WFBM  
WFEA WGR WGST WHAS WHEC  
WHK WHP WIBW WIBX WICC  
WJAS WJR WJSV WKRC WLAC  
WLZB WMAS WMBD WMBG  
WMBR WMNR 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 WFLA 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 KFBK KFH  
KFPY KFCR KGB KGKO KGMB  
KHJ KLRA KLZ KMBC KMJ  
KMOX KOH KOIN KOL KOMA  
KRLD KRNT KSCJ KSL KTRH  
KTSa KTUL KVI KVR KWG  
KWKH WABC WADC WADC WBT  
WBBM WBIG WBNS WDCR WBT  
WCAU WCAU WCCO WCOA WDAE  
WDRG WDBO WDNC WDDO WDRG  
WEAN WFBL WFBM WFEA WGST  
WHAS WHEC WHK WHI WIBW  
WIBX WICC WISN WJAS WJR  
WJSV WKHB WKBW WKRC WLAC  
WLZB WMAS WMBD WMBG  
WMBR WMNR WNAX WNBW WNOX  
WOC WOKO WORC WOVW WPG  
WQAM WREC WSFA WSJS WSPD  
WTOC WWL

**R** — Town Hall Tonight

KFYR KPRC KSD KSTP KTBS  
KTIS KVOO KYW WAVE WBEN  
WBAE WCSH WDAF WDAY WEAF  
WECB WEEI WFAA WFBM WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOAI WOW WPTF WRC WSB  
WSM WSBM WSOC WTAG WTAM  
WTRT WTTIC WTMJ 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 KFBK KFH  
KFPY KFCR KGB KGMB KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOIN KOL KOMA KRLD KRNT  
KSL KTRH KTSA KTUL KVI KWG  
KWKH WABC WBBM WBNS WBRC  
WBT WCAU WCAU WCCO WDAE  
WDBJ WDBO WDRC WEAN WFBL  
WFBM WGST WHAS WHEC WHK  
WICC WISN WJAS WJR WJSV  
WKBW WKRC WLAC WLZB WMBG  
WMBR WMNR WOKO WORC WOWO  
WQAM WREC WTOC WWL

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

KDB KERN KFAB KFBK KFH  
KFPY KFCR KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOL  
KOMA KRLD KRNT KSL KTRH  
KTSa KTUL KVI KWG KWKH  
WABC WACO WBBM WBNS WBRC

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

**Red and Blue: Your Hit Parade**

KDKA KDYL KECA KEX KFI  
KFSD KEYR KGA KGHL KHGR  
KGO KGU KGW KHQ KJR KLO  
KOA KOIL KOMO KPO KPRC KSD  
KSO KSTP KTRH KTBS KTIS  
KVOO KWK KYW WAVE WBAL  
WBEN WBZ WBZA WCAE WCKY  
WCSH WDAF WDAY WEAF WECB  
WEEI WENR WFAA WFBM 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 WSOC WSUN  
WSYR WTAG WTAM WTRT WTTIC  
WTMJ WWJ WWM 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 WCAU WCAU  
WDAE WDBJ WDBO WDNC WDOI  
WDRG WEAN WFBL WFBM WFLA  
WGST WHAS WHEC WHK WICC  
WJAS WJR WJSV WKRB WKRC  
WLAC WLZB WMBG WMBR WNOX  
WOKO WORC WQAM WREC WSPD  
WTOC

**C** — Burns and Allen

KDB KERN KFBK KFPY KFCR  
KGB KHJ KLZ KMJ KOIN KOL  
KSL KVI KVR 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  
WCAU WCAU WDAE WDBJ WDBO  
WDRC WEAN WESG WFBL WGR  
WGST WHEC WHK WHP WIBX  
WICC WJAS WKBN WMAS WMBG  
WMBR WMNR WNBW WOKO WORC  
WQAM WSJS WTOC WYVA

**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





# 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

CFRB CKAC KLRA KSCJ WAAB  
WABC WADC WALA WBNS WBRC  
WBT WCAO WCAU WDAE WDBJ  
WDBO WDNC WDOJ WDRB WFBL  
WFEA WGST WHBC WHK WIBX  
WISN WJAS WJR WKBW WLAC  
WLWB WMAJ WMBD WMBG  
WMBR WNAX WNOX WOC WOKO  
WORC WPG WQAM WREC WSBT  
WSJS WSMK WSPD WTOG

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  
KFRB KGB KGKO KMBC KMOX  
KOH KOL KOMA KRNT KTRH  
KVOR KVG WAAB WADC WALA  
WCAO WDAE WDBO WDNC WESG  
WFEA WGST WHAS WHEC WHP  
WIBX WJAS WJSV WKBW WLAC  
WLWB WMBD WMBG WMBR WOC  
WOKO WORC WQAM WREC WSJS  
WSMK WSPD WTOG

E-7:00 p.m., C-6:00, M-5:00, P-4:00  
C — Patti Chapin, Songs

CKAC KERN KFH KFPY KFRB  
KGB KGKO KIJL KLZ KMBC  
KMOX KOL KOMA KRLD KRNT  
KSCJ KTRH KVI KVOR KVG  
WABC WACO WALA WBBM WBIG  
WBT WCAO WCAU WDAE WDBO  
WDRB WEAN WESG WFBL WFEA  
WGR WGST WHAS WHK WHP  
WIBX WJAS WJSV WKBW WLAC  
WLWB WMBG WMBR WNAC  
WNOX WOC WOKO WORC WQAM  
WREC WSJS WSMK WSPD WTOG

R — Harold "Red" Grange

KDYL KFER KOA KPRC KSD  
KSTP KTBS KYW WAVE WHEN  
WCAE WCKY WCSI WDAF WDAY  
WEAF WEBC WEEI WFEA WFBR  
WFLA WGY WHIO WIBA WIOD  
WIRE WIS WJAR WJAX WJDX  
WKY WMAQ WMC WQAI WOW  
WPTF WRC WRVA WSB WSMB  
WSOC WTGJ WTAM WTAR WTTG  
WTMJ WWJ WWCN

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

E-8:00 p.m., C-7:00, M-6:00, P-5:00  
C — Saturday Swing Session

CFRB CKAC KFH KFRB KFRB  
KLRA KMBC KMOX KOMA  
KRNT KTRH KTSU KTUL KWKH  
WABC WBBM WBNS WBRC WBT  
WCAO WCAU WCOA WDAE WDBJ  
WDBO WDRB WEAN WFBL WFBM  
WGR WGST WHAS WHEC WHK  
WHP WICC WISN WJAS WJR WJSV  
WKRC WLAC WLWB WMBG WMBR  
WNAC WOKO WORC WQAM WREC  
WTOG WWL

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

C — Columbia Workshop; Drama  
CFRB CKAC KFBK KFH KFRB  
KLRA KMBC KMOX KOMA KRNT  
KTRH KTSU KTUL KWKH WABC  
WBBM WBNS WBRC WBT WCAO  
WCAU WCOA WDAE WDBJ WDBO  
WDRB WEAN WFBL WFBM WGR  
WGST WHAS WHEC WHK WHP  
WICC WISN WJAS WJR WJSV  
WKRC WLAC WLWB WMBG WMBR  
WNAC WOKO WORC WQAM WREC  
WTOG WWL

E-9:30 p.m., C-8:30, M-7:30, P-6:30  
R — Shell Chateau

KDYL KFI KTSU KFYR KGHL  
KGIR KGW KHQ KOA KOMO KPO  
KSD KSTP KTAR KYW WBBN  
WCAE WCSI WDAF WDAY WEAF  
WEBC WEEI WFBR WGY WIBA  
WJAR WLW WMAQ WOW WRC  
WTAG WTAM WTTG WTMJ WWJ

B — National Barn Dance

KDKA KOIL KPRC KSO KTBS  
KTHS KWK WAPI WAVE WBAL  
WBAP WBZ WBZA WCSC WFBC  
WFBR WFIL WFLA WGAR WHAM  
WHIO WIOD WIRE WIS WJAX  
WJDX WJZ WKY WLS WML WMC  
WMT WOAI WOOD WPTF WREN  
WRVA WSB WSMB WSOC WSUN  
WSYR WTAR WWCN WXYZ

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

C — Your Hit Parade

KERN KFBK KFBK KFH KFPY  
KFRB KGB KGKO KGMN KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KOMA KRLD  
KRNT KSCJ KSL KTRH KTSU  
KTUL KVI KVOR KVG KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRC WBT WCAO  
WCAU WCOO WCOA WDAE WDBJ  
WDBO WDNC WDOJ WDRB WEAN  
WFBL WFBM WFEA WGST WHAS  
WHEC WHK WHP WIBX WIBX  
WICC WISN WJAS WJR WJSV  
WKBW WKRC WLAC WLWB WMAJ  
WMBD WMBG WMBR WNAC  
WNAX WNOX WOC WOKO WORC  
WPG WQAM WREC WSBT WSFA  
WSJS WSPD WTOG WWL WWVA

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

C — Dance Orchestra

CFRB CKAC KFH KGKO KLRA  
KLZ KMBC KMOX KOMA KRLD  
KSCJ KSL KTRH KTSU KVOR  
KWKH WABC WACO WADC WALA  
WBBM WBNS WBRC WBT WCAO  
WCAU WCOO WDAE WDBJ WDBO  
WDNC WDOJ WDRB WFBL WFBM  
WFEA WGST WHAS WHEC WHK  
WIBX WJAS WJSV WKBW WLAC  
WLWB WMAJ WMBD WMBG  
WMBR WNAX WNOX WOC WOKO  
WORC WQAM WREC WSBT WSJS  
WSMK WSPD WTOG

B — National Barn Dance

KDYL KFI KFSU KFYR KGHL  
KGIR KGU KGW KHQ KOA KOMO  
KPO KSTP KTAR WDAY WEBC  
WIBA WLW WTMJ

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

C — Dance Orchestra

CFRB CKAC KFH KGKO KLRA  
KLZ KMBC KMOX KOMA KSL  
KTRH KTSU KVOR KWKH WABC  
WACO WADC WALA WBNS WBRC

WBT WCAO WCAU WDAE WDBJ  
WDBO WDNC WDOJ WDRB WEAN  
WFBL WFBM WFEA WGST WHAS  
WHEC WHK WHP WIBX WICC  
WJAS WJR WKBW WKRC WLAC  
WLWB WMAJ WMBG WMBR WNOX  
WOKO WORC WQAM WREC WSBT  
WSJS WSMK WSPD WTOG

# 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  
KOM A KRLD KSCJ KSL KTRH  
KTSU KWKH WACO WADC WALA  
WBG WBNS WBRC WBT WCOO  
WDBO WDNC WDOJ WDRB WFBL  
WFBM WFEA WGST WHAS WIBX  
WIBX WISN WJAS WJR WJSV  
WKBW WKRC WLAC WLWB WMAJ  
WMBD WMBR WNAC WNAX  
WNOX WOKO WORC WQAM WREC  
WSBT WSMK WSPD WTOG

R — Major Bowes' Capitol Family

CFCE CRCT KDYL KFI KFYR  
KGV KHQ KOA KOMO KPO KPRC  
KSD KSTP KTBS KTHS KVOO KYW  
WAPI WAVE WBAW WHEN WCAE  
WCSG WCSI WDAF WDAY WEAF  
WEBC WEEI WFEA WFBC WFBR  
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  
WTTG WTMJ WWJ WWCN

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

B — Radio City Music Hall

CFCE CRCT KDKA KDYL KFI  
KFYR KGO KGW KHQ KOIL KOMO  
KPRC KSO KVOO WAPI WBAL  
WBZ WBZA WCKY WDAY WEBC  
WGAR WHAM WIS WJDX WJZ  
WKY WML WQAI WREN WSMB  
WSYR WWCN

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

C — Trans-Atlantic Broadcast

CFRB CKAC KFH KGKO KLRA  
KLZ KMBC KRLD KSCJ KTRH  
KTSU KVOR WABC WACO WADC  
WALA WBIG WBRB WCAO WCAU  
WCOO WDAE WDBJ WDBO WDRB  
WEAN WESG WFBL WFBM WFEA  
WGR WHAS WHX WJAS WJSV  
WKBW WLAC WLWB WMBD WMBR  
WNAC WOC WOKO WORC WPG  
WQAM WREC WSJS WSMK WSPD  
WTOG WWL

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

C — Church of the Air

KFBK KFH KFPY KFRB KGB  
KHJ KMOX KOH KOL KOMA KRLD  
KRNT KSCJ KSL KTRH KTSU  
KVI KVOR KVG WABC WALA  
WBNS WBT WCAO WCOO WDAE  
WDBJ WDBO WDRB WESG WFBL  
WFBM WGR WHAS WHP WIBX  
WJAS WJSV WKBW WKRC WLAC  
WLWB WMBR WSBF WOC WOKO  
WORC WPG WQAM WREC WSBT  
WSJS WSPD WTOG WWVA

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

B — Magic Key of RCA

CFCE CRCT KDKA KDYL KFI  
KFYR KGU KGW KHQ KOA KOIL  
KOMO KPO KPRC KSO KSTP

**SUNDAY (Continued)**

KTBS KTBS 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 WWNC 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 KJH KLZ KMBC  
KMOX KOH KOL KOMA KRNT  
KSCJ KSL KTRH KTSA KVI KVOR  
KWG WAAB WABC WALA WBIG  
WBNS WBRC WBT WCAO WCCO  
WDAE WDBJ WDRC WEAN WESG  
WFBL WFBM WFEA WGST WHAS  
WHK WHIP WIBW WIBX WICC  
WJAZ WKBN WKBW WKRC WLAC  
WLIZ WMBD WMBG WMBR  
WNBW WNOX WOC WOKO WORC  
WPG WQAM WREC WSBT WSJS  
WSMK WSPD WTOG

**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 KJH  
KLZ KMBC KMOX KOH KOL  
KOM A KRNT KSL KTRH KTSA  
KVI KVOR WABC WACO WADC  
WALA WBNT WBNS WBRC WBT  
WCAO WCAU WCCO WDAE WDEJ  
WDRO WDOD WDRC WEAN WFBL  
WFBM WGST WHAS WHEC WHK  
WHIP WIBW WJAS WJR WJSV  
WKBW WKRC WLAC WMBD  
WMBG WMBR WNAC WNOX  
WOKO WPG WQAM WREC WSJS  
WSMK WSPD WTOG

**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 WMAA 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  
WDRO WDNC WDOD WDRC WEAN  
WFBL WFBM WFEA WGR WGST  
WHAS WHEC WHK WHP WIBX  
WICO WJAS WJR WJSV WKBN  
WKRO WLAC WLIZ WMAA WMBG  
WMBR WNAC WNOX WOKO WORC  
WQAM WREC WSBT WSPA WSJS  
WSMK WSPD WTOG WWL WWVA

**R — Fireside Recitals**

KSD KYW WBN WCAE WCSH  
WDAF WEAF WFBR WGY WHIO  
WIRE WJAR WMAQ WOW WRC  
WSAI WTAG WTAM W TIC WWJ

**B — Ozzie Nelson; Bob Ripley**

KDKA KOIL KPRC KSO KTBS  
KTBS KVOO KWK WAPI WAVE  
WBAL WBAP WBZ WBZA WCKY  
WFIL WGAR WHAM WHIO WIRE  
WJDX WJZ WKY WIS WMAL WMC  
WMT WOAI WREN WSB WSM  
WSMB WYAI WXYZ

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

**R — Sunset Dreams; Morin Sisters**  
CFCE CRCT KSD KYW WBN  
WCAE WCSH WDAF WEAF WFBR  
WGY WHO WHIO WIRE WJAR  
WLW WMAQ WOAI WOOD WOW  
WRC WTAG WTAM W TIC WWJ

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

**C — America Dances; Lud Gluskin**  
KFAB KFH KFPY KLRA 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  
WHIP WICC WJAS WJR WJSV  
WKRC WLAC WNAC WNOX WOC  
WOKO WOWO 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**  
CFCE KDYL KFI KFYR KWG

KHQ KOA KOMO KPO KPRC KSD  
KSTP KTBS KTBS KYW WAVE  
WBN WCAE WCKY WCSH WDAF  
WDAY WEAF WEBC WEEI WFAA  
WFRB 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 WTIC WTJM WWJ  
WWNC

**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**  
CFCE CRCT KDYL KFI KFYR  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTBS KYW WAPI  
WAVE WBN WCAE WCSH WDAF  
WDAY WEAF WEBC WEEI WFAA  
WFRB 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 WTJM WWJ WWNC

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

**B-Paul Whiteman's Musical Varieties**  
KDKA KOIL KSO KWE 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 KFSB KGW KHQ KOA  
KOMO KPO KPRC KTAR KTBS  
KTBS WBAP WDAF WKY

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

**B — Walter Winchell**  
KDYL KFI KFSB KGHL KGIR  
KGW KHQ KOA KOMO KPO KPRC  
KTAR KTBS KTBS WAPI WAVE  
WHAP 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 KFSB KGA KGO KJH  
KPRC KTBS KTBS WAPI WAVE  
WHAP 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.

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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 Moran, 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

## IALOG

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  
Kruzeur 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 Haller, 9:30 p.m. Sat., R  
Richard Bonelli, 9 p.m. Fri., B  
Patti Chapin, 7 p.m. Sat., C and 6 p.m. Tues., C  
Chariotteurs, 7:45 p.m. Mon., C  
Bernice Claire, 5 p.m. Sun., C, and 9 p.m. Fri., R  
Jerry Cooper, 7 p.m. Tues., C  
Bing Crosby, 10 p.m. Thurs., R  
Crumit-Sanderson, 7:30 p.m. Sun., C  
Jessica Dragonette, 8 p.m. Fri., R  
Phil Dues, 5 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  
Lucy 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. Mon., C  
Voice of Experience, Tues., Thurs., 7:45 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)

- IBZ 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)
- WC2R 10. Cumnock, Ausl.
- ..... 100. Beromunster, Sw. (556) Report to PTT, Berne, Speichergasse No. 6.
- Weekdays 600-163
- Sun. 130-1630 EST

### 560 (535.4)

- 11PA 4. Palermo, I. (565)
- MTCY 100. Hsinking, Mch.
- RW41 1.2 Syktyvkar, USSR. (563)
- RW42 10. Gorki, USSR. (565)
- XG08 10. Chengtu, China.
- XLHB .045 Shanghai, China.
- ZUG 10. Grahamstown, S. Af.
- GWA 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.
- ZL 1. Hobart, Ausl.
- Elizabeth St. Mon. to Fri. 830-1030; 1200-1530; 1630-1800; 1900-100; Sat. 830-1000; 1230-1300; Sun. 1200-300; 1630-1830; 1915-2400
- ..... 120. Vienna, Aust. (592)
- Wein No. 1, Johannegrasse No. 4B.
- Daily 310-1900 EST

### 600 (499.7)

- CNR 25. Rabat, Mor. (601)
- Radio Maroc., Office Cherifien 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
- 11FI 20. Florence, I. E.I.A.R. Stazione di Firenze. Weekdays 130-1730; Sun. 310-1730 EST
- Seoul, Ko.
- JODK2 10. Seoul, Ko.
- KZRM 50. Manila, P. I. (618.5)
- Daily 600-2300
- RW18 1. Pratisorsk, USSR
- RW22 10. Oufa, USSR. (617)
- RW50 2.5 Oust Abakansk, USSR (617)
- RW79 10. Murmansk, USSR.
- XGSS .015 Tsunshi, Chn.
- 2FC 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. Lisbon, Por. (629)
- CT1AA 20. 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 Bourne 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

Brdcstg. Com., P. O. Box 200.  
**ZTJ** 10. Johannesburg, S. Af. (645)  
**SCK** 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, Martin Fierro 2603. 12-14; 17-23  
**JOCC** 3. Asahigawa, J. (655) Pres. NBC. Hokkaido Asahikawa Branch, EST Daily 11 p.m.-7:30 a.m.  
**JQAK** 5. Dairen, Mnch. (652) Auckland, N. Z. Karangahape Rd. Mon. to Sat. 7-9; 10-23; Sun. 9-1215; 13-1630; 18-22  
 ..... 100. Cologne, G. (658) Dagoberlstrabe 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, Belgrano 1841  
**MTFY** 3. Harbin, Mnch. (674)  
**RW23** 1. Grozny, 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. Ernesto 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. (686.5)  
**RW71** 1.2 Petropavlovsk, USR. (689)  
**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, Caguia 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) **FPTT** 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  
**VPB** 1.75 Colombo, Cey. (705)  
**XMHC** 5. Shanghai, Chn.  
**ZP15** Villarrica, Par.  
**2NR** 7. Lawrence, Ausl.

**710 (422.3)**

**I1RO** 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.  
**JORK** 5. Kochi, J. Mr. Matsuo, 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  
**6GF** 2. Kalgoorlie, Ausl.

**730 (410.7)**

**CB73** 1. Santiago, Chile. Ultimas Noticias. Compania 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)  
**LV1** 1. San Juan, Arg. Radio Graffingna, C. de Correo 44  
**RW65** 1. Saransk, USR. (734)  
**XHGS** 05. Wuchow, Chn.  
**5CL** 2. Adelaide, Ausl. Hindmarsh Square. Same Schedule as SCK, 640 kc.  
 ..... 20. Tallin, Est. (731)

**740 (405.2)**

**OFD** 1. Pori, Fin. (749)  
**PRE6** 1.5 Uberaba, Brz.  
**RW64** 10. Ordjonikidze, USSR. (749)  
**XHHB** 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. 1225-1930; 18-2330  
 ..... 100. Munich, G., Funkhaus 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 Carcoca 45  
**PRA8** 3. Pernambuco, Brz. Ave. Cruz Cabuga 394 Urdjonikidze, USR. (752)  
**RW64** 10. Canton, Chn.  
**XGOK** 1. Tientsin, China  
**XQKB** 15. Caracas, Vnz.  
**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, Chi. Cop. Vitalicia, Agustina 1253. 9 Piso

# FOREIGN B. C. STATIONS BY FREQUENCIES

PRD9 .25 Sorocaba, Brz. (769)  
Radio Soc. Sorocaba  
RW78 3. Ijevsk, USSR. (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,  
Itacaba 2620; 10-23  
Sendai, J.  
JOHK 10. Frederikstad, N. (776)  
RW26 10. Stallino, UR. (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. Maniila, P. I.  
Daily 8-20  
LT1 4. Rosario, Arg. Radio  
Litoral, Cordoba 1049  
PRE7 5. Sao Paulo, Brz. (788)  
Radio Cosmos, Praca  
Marechal Deodoro 52  
XLHA .05 Shanghai, Chn.  
..... 120. Leipzig, G. (785)  
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. Naltchik, USSR. (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 we 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, Ur.  
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  
XLKB .055 Tientsin, Chn.  
2ZH .065 Napier, N. Z.  
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, Mai-  
pu 462  
RW39 100. Moscow, USSR. (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  
Fera, Parque Halfeld  
Simferopol, USSR.  
(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-  
csters, Ltd., 29 Run-  
de 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.  
XHHH .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, USSR. (871)  
XLIL .075 Suchow, Chn.  
2GB 1. Sydney, Ausl. "The  
Nation's Station".  
Adayr 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.  
GPR .5 Perth, Ausl.  
Barrack St., Mon. to Sat. 1030-12; 14-1530; 21-2; Sun. 2330-130  
..... 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 Kasing, Chn. (895)  
ZP9 .5 Ascunk, Par. (898)  
..... 5. Limoges, F. (895)

900 (333.1)

CB90 1. Valparaiso, Chile, El Mercurio 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.  
PRF3 5. Sao Paulo, Brz. (CP 60 kw) Radio Difusora Sao Paulo.  
XGOI .5 Shanghai, China.  
ZZP .105 Wairoa, N. Z.  
E. A. Perry, 128 Queen St., Te. 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 Reichssender 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 Monie. 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 R'do Janeiro, Brz. (923). Soc. Anonima "Journal do Brasil"  
PRF4 10. Shanghai, Chn.  
XHHX 1. Nelson, N. Z.  
ZZR .03 Trafalgar St. Temporarily silent.

930 (322.4)

CB93 3. Santiago, Chile. Huke, Providencia 1022  
CX20 2. Montevideo, Uru. Radio Monecario, 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. Ajijers, Alg. (941) Radio PIT 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 Poiping, Chn.  
ZTP .5 Pretoria, S. Af. (952)  
ZUE 1. Sydney, Ausl. Rex Shaw, 296 Pitt St., Mon. to Fri. 730-15; 16-1; Sat. 730-1230; 1500-130; Sun. 930-1330; 1815-0030.  
..... 100. Breslau, G. Schlesi- sche Funktunde, 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) Brdsg. Caracas, Apt de Corcos 2009. Sun. 9-23; Weekdays 16-2230  
ZZF .15 Palmerston, N. Z. King St.  
SDN .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.  
3B0 .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 Stazioni di Genova. Weekdays 130-1730; Sun. 330-1730 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 Ocoma No. 158 R'de Janeiro, Brz. Soc. Radio Philips, Rua Sacadura Cabral 43

**XMHB** .5 Shanghai, Chn.

**2LV** .1 Invernull, Ausl.

**2ZJ** .2 Gisborne, N. Z. 229 Gladstone Rd.

**6AM** 1. 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

**PFB1** 60. Hilversum, Hol. (995) Heir Radio Hilversum, Ouden, Engweg. 4. Daily 310-1810 EST

**XCCK** .075 Chuching, Chn.

**XGOD** 1. Hangchow, Chn.

**2GZ** 2. Orange, Ausl.

**1000(299.8)** [ ]

**HJ3ABH** 2. Bogota, Col. (1005) "La Voz de La Victor", Apto 565. Sun., 12-14; 16-21; Wednesdays 1130-14; 18-23

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

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

**PRB8** .05 Mogy das Cruzes, Brz.

**XGMM** .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 Brdstg. Service". Mon. to Sat. 830-1030; 1330-1745; 1915-2400; Sun. 1230-1300; 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. Davenport, G. B. (1013) Midland Regional, Weekdays 545-1815; Sun. 1130-1745 EST

**1020(293.9)** [ ]

**EAJ15** 3. Barcelona, Sp. (1022)

**EAJ19** 7. Oviedo, Sp. (1022)

**OBJ** 7. Lima, Peru. Escuela Militar de Chorrillos.

**XHHG** .1 Shanghai, Ch.

**2KY** 1. Sydney Ausl. The 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 Sanchez, Mexicana 936

**CTIGL** 5. Parede, Por. (1031) Radio Club Portuguese.

**JBAK** .15 Fuzan, Korea

**LR9** 5. Buenos Aires, Arg. Radio Fenix, Santa Fe 1174

**PRC8** 1. Rio de Janeiro, Brz. Radio Soc. Guanabara, Rua 1st de Mayo 123

**XGOL** .25 Foochow, Chn.

**YV11RMO** . Maracaibo, Venez. (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 Vedela, 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 5AD. 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. Scottish National. Weekdays 545-1815; Sun. 1130-1745 EST

**1060(282.8)** [ ]

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

**JOIG** .5 Toyama, Japan

**RW57** 4. Tiraspol, USR. (1068)

**XHHI** 1. Shanghai, Chn.

**2KM** . Kompey, Ausl.

**3YB** .025 Wannambool, 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. Radio 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) Boredaux Lafayette Hotel des PTT, 220 Chemin do Tondou Daily 300-1730 EST

**1080(277.6)** [ ]

**JOBK2** 10. Osaka, J. (1085)

**JOOG** 5. Obihiro, Japan (CP)

**LT3** 4.5 Rosario, Arg. Radio Soc. Rural de Cereales, Pte. Roca 770

**OAX4F** .05 Lima, Peru F. W. Castelano & Hno. Opens and closes "Anchors Aweigh" Daily except Sun., 15-17 EST

**SCC** 2. Falun, Swe. (1086)

**XHHJ** .2 Shanghai, Chn.

**ZP7** .7 Asuncion, Par. (1083)

**2AD** .1 Armidale, Ausl.

**35H** .05 Swan Hill, Ausl. Mon. to Sat. 14-15; 2030-24; Sun. 1345-1545; 1745-1930; 2045-2330

..... 7. Zagreb, Yu. (1088)

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, Aptdo 745. Daily 3-19 EST
- PRC2 3. Porto Alegre, Brz. Radio Soc. Gaucha, Galerie Chaves
- PRC7 .25 Bello Horizonte, Brz. Soc. Radio Mineira
- RW75 10. Vinnitza, USR. (1095)
- XGOB .25 Loyang, Chn.
- XLIO .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
- 11NA 1.5 Naples, I. (1104)
- XHHS .1 Shanghai, Chn.
- 4LG .3 Longreach, Ausl.
- 7LA .3 Lancaster, Ausl. 67 Brisbane St. Mon. to Fri. 9-1030; 1330-1530; 19-24; Sat. 9-1030; 16-1830; 19-24; Sun. 1915-2330
- ..... 50. 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 Magallanos, Chile. Radio Austral, Independencia s/n 20-23
- LS5 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. Normandle, 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 Abbo. 1130-13; 1830-2230
- HAE 6.2 Nyirgyhaza, 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. Niteroy, Brz. (1132) Radio Club Fluminense
- SBH 10. Horby, Swe. (1131) Weekdays 145-1700; Sun. 3-17 EST
- XGOC .25 Nan-chang, Chn.
- ZP1 1. Asuncion, Par. (1135)
- 6ML .5 Perth, Ausl. Lyric 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
- 11TO 7. Turin, I. Weekdays 130-1730; Sun. 310-1730 EST
- 11TR 10. Trieste, I.
- XHHL .1 Shanghai, Chn.
- 2HD .5 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) Cartagena, Cib. (1154)
- HJ1ABM .05 Buenos Aires, Arg. Radio Paris, Cangallo 860
- OAX4H .. Lima, Peru. Radio Davila, Aptdo. 373
- XGOZ 1. Chinkiang, Chn.
- YV7RMO .5 Maracabio, Venez. (1153)
- 2WG .2 Wagesa, 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, Spelghergasse No. 8 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, Rad. Cruzeiro do Sul, Largo da Misericordia 4 Campinas, Brz. (1175) Radio Educadora di Campinas
- XLIE .05 Wushih, Chn.
- 2NZ 2. Narrabri, Ausl.
- 2ZD .005 Masterton, N. Z. W. D. Ansell, 7 Rimu St. Daily 20-22. Relays 2YA Tue., Fri., Sat., Sun.
- 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 Fomien Heibergsgrade No. 7

1180(254.1)

- CB118 1. Santiago, Chile. Radio Bayer, Portal Fernandez Co. 960
- RW20 10. Kharkov, U.S.R. (1185)
- XHMZ .15 Shanghai, Chn.
- 3KZ .6 Melbourne, Ausl., S. Morgan, 64 Elizabeth St., "The Brighton Brcdstg. 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 Lands-  
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 313.  
HJ3ABE 1. Bogota, C.B., Uribe  
y Moreno, P. O. Box  
317.  
LT9 .5 Santa Fe, Argentina.  
Radio Roca Soler  
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;  
1845-100  
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  
OAAAR .025 Lima, Peru  
OA4D .025 Lima, Peru  
XGTM .1 Tengchow, Chn.  
XHKK .1 Tsingtao, China  
XLPH .015 Pinghu, Chn.  
XLTC .015 Wusih, Chn.  
2GF .05 Grafton, Ausl.  
47 York St., Mon. 9-  
10; 1330-1430; 1930-  
2338; 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  
Bologna, I. (1222)  
50. Narvik, Norway (1222)  
.3

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  
Bahia Blanca, Argen-  
tina. 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;  
1930-24; Sun. 20-24  
6CK 1. Cork, I. F. S.  
61X .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 Brdstg.  
Ignacio Nunez 2133.  
9-14; 17-24  
EAJ8 1. Sn. Sebastian, Sp.  
(1258)  
HC2JB .03 Guayaquil, 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, Chl. (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.  
1ZM .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, Pozos 439.  
OA40 .1 Lima, Peru (1277)  
PRE8 7. Rio de Janeiro, Brz.  
Soc. Radio Nacional  
Rua Buenos Aires 120.  
TUA .5 Tunis, Tun. (1275)  
XDYF .015 Wu-hu, Chn.  
ZPA .15 Asuncion, Par. (1275)  
25M 1. 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;  
1230-1; 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 Yungning, China  
 XGOE 1. 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 Atlantica.  
 OAX4C .1 Lima, Peru, Estacion Radiodifusora DUSA, Calle de Plumeros.  
 PRC4 .05 Ampara, Brz. (1304)  
 XQHC .5 Shanghai, Chn.  
 YVSRMO .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 9-100

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 Ningbo, 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 Fonix, 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.  
 2BH .1 Broken Hill, Ausl., 10 O'Connell St., Mon. to Sat. 9-11; 20-0030; Sun. 1230-15; 20-24  
 4R0 .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. Arisporu y Abel Machado  
 LKR .15 RJukan, Nor. (1348)  
 LT7 .5 Corrientes, Arg. Radio Provinciale 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  
 SMU .1 Murray Bridge, Ausl. No. 2 4. Milan, I. (1348)  
 ..... 2. Ille de F., F. (1348)  
 ..... 5. Salzburg, Aust. (1348)  
 ..... 2. Konigsbrg, G. (1348)  
 ..... 5. Cairo, Eg. (1348)

1350(222.4)

LKN .15 Notodden, Nor. (1357)  
 LS6 6. Buenos Aires, Arg. Radio del Pueblo, Estados Unidos 1816  
 OAGE .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.

No. 2 .2 Turin, I. (1357)

1360(220.4)

CC136 .1 Rancagua, Chile. Guillermo Espinosa, Milan 767  
 CD136 .1 Magallanes, Chile. Santiago Aguilera, Valvivia 250  
 CW41 .05 San Jose, Uru. Radio San Jose 10-14; 18-23.  
 OA4K .15 Lima, Peru  
 PRC5 .1 Belen, 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 Radiodifusora Porto Alegre  
 XQHD .2 Shanghai, Chn.  
 2MO .05 Gunnedah, Ausl. P. O. Box 78. Mon. to Sat. 830-1030; 1330-1530; 1930-2330; Sun. 930-1130; 1530-1730; 1930-2330  
 4PM .1 Port Moresby, Ausl. No. 2 .1 Turin, I. (1366)

1370(218.8)

CX42 1. Montevideo, Uru. Colonial Brdctg. Ave. Italia 3646. 11-24  
 Hangchow, China  
 XLID .05 Hoshang, Ausl.  
 3HS .05 Morsham, 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 Mercurio, Cia. Esq. Morande  
 XLHE .05 Shanghai, Chn.  
 XLHF .05 Shanghai, Chn.  
 4BH .06 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 Wushih, Chn.  
**ZGN** 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 Educacio da Prof. Largo da Carloca 5  
**LXHO** 1. Shanghai, Chn.  
**ZZO** 1. Palmerston, N. Z. J. V. Kyle, 50 Waldegrave St. Tue. 1830-22; Thu. 1830-21; Sun. 10-1230  
 ..... 5. Ornskoldsvik, Swe. (1402)  
 ..... 1. Umea, Swe. (1402)

**1410(212.6)**

**CC141** 1. Concepcion, Chl. Radio Phillips, Caupolican 370.  
**CX44** 2. Montevideo, Uru. SADREP, Solis Grande 912. 8-2  
**PRB5** .05 Franca, Brz. (1415)  
**PRES** .25 Radio Club Hertz Uberaba, Brz.  
 Radio Soc. Triangulo Minero  
**XH1A** .06 Chuchow, China  
**ZKO** .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. Beziers, 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 Brdcast. 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, Moneda 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, Calera 2860  
**LS11** 7. La Plata, Arg. Radio Proa. de Bs. Aires.  
**OA6U** .05 Arequipa, Peru (1443)  
**PRG4** .25 Jabotical, Brz. Radio Club Jabotical (1442)  
**XLHQ** .03 Shanghai, Chn.  
**ZQN** 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  
**XL1B** .015 Suchow, Chn.  
**XOMO** .015 Peiping, Chn.  
**ZB5** 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)  
**ON4EB** 1. Antwerp, Belg. (1465)  
**XQHE** .25 Shanghai, Chn.  
**ZP5** .15 Asuncion, Par. (1465)  
**ZUV** .3 Ulverstone, Ausl.  
 ..... 1. Courtrai, Blg. (1465)  
 ..... Bega, 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. Chatelineau, Blg. (1492)  
**XLKS** .02 Kashing, Chn.  
**No. 1** 1. Wallonia, Belg. (1492)  
**2TM** .05 Tamworth, Ausl.  
 ..... 1. Binche, Blg. (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 Manti-queira  
**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

SOUTH AMERICA							
<b>ARGENTINA</b>							
<b>Bahia Blanca</b>							
LU2	900	2000					
LU7	1240	2000					
<b>Buenos Aires</b>							
LR1	1070	50000					
LR2	910	12000					
LR3	950	31000					
LR4	990	16000					
LR5	830	29000					
LR6	870	26000					
LR7	750	15000					
LR8	1150	7000					
LR9	1030	5000					
LR10	790	10250					
LS1	710	5000					
LS2	1190	30000					
LS3	630	5000					
LS4	670	7000					
LS5	1110	5000					
LS6	1350	6000					
LS7	1310	10000					
LS8	1230	15000					
LS9	1270	6000					
LS10	590	6000					
<b>Cordoba</b>							
LV2	880	7000					
LV3	620	2000					
<b>Corrientes</b>							
LT7	1340	500					
<b>La Plata</b>							
LR11	1390	1000					
LS11	1440	700					
<b>La Rioja</b>							
LV14	1240	500					
<b>Mar del Plata</b>							
LU6	1300	500					
<b>Mendoza</b>							
LV6	690	500					
LV10	1210	500					
<b>Parana</b>							
LT11	1260	500					
<b>Resistencia</b>							
LT5	1160	500					
<b>Rosario</b>							
LT1	780	4000					
LT3	1080	4500					
LT8	840	500					
<b>San Juan</b>							
LV1	730	1500					
LV5	1120	500					
<b>Santa Fe</b>							
LT9	1200	500					
LT10	1300	500					
<b>Tucuman</b>							
LV7	820	1000					
<b>BOLIVIA</b>							
<b>La Paz</b>							
CPX	1300	5000					
CP4	1040	10000					
<b>BRAZIL</b>							
<b>Amparo</b>							
PRC4	1300	50					
<b>Araraquara</b>							
PRD4	1364	250					
<b>Bahia</b>							
PRA4	840	50					
PRF6	1050	50					
PRF8	950	500					
<b>Bauru</b>							
PYG8	1250	250					
<b>Belem</b>							
PRC5	1360	100					
<b>Bello Horizonte</b>							
PRC7	1090	250					
<b>Campinas</b>							
PRC9	1175	250					
<b>Cruzeiro</b>							
PRG6	1500	250					
<b>Curitiba</b>							
PRB2	882	250					
<b>Fortaleza</b>							
PRE9	1315	500					
<b>Jabotical</b>							
PRG4	1442	250					
<b>Jahu</b>							
PRG7	1330	250					
<b>Juiz de Fora</b>							
PRB3	857	250					
<b>Mogy das Cruces</b>							
PRB8	1000	50					
<b>Niteroy</b>							
PRD8	1132	1000					
<b>Pelotas</b>							
PRC3	920	250					
<b>Pernambuco</b>							
PRA8	750	3000					
<b>Petropolis</b>							
PRH4	1480	1000					
<b>Porto Alegre</b>							
PRC2	1090	3000					
PRH2	600	25000					
<b>Rio Claro</b>							
PRF2	725	250					
<b>Rio de Janeiro</b>							
PRA2	750	1500					
PRA3	860	2500					
PRA9	1000	1000					
PRB7	800	500					
PRC6	980	1000					
PRC8	1030	1000					
PRD2	932	1000					
PRD5	1400	1000					
PRE2	1330	500					
PRE3	1220	10000					
PRE4	940	250					
PRE8	1270	7000					
PRF4	923	10000					
PRG3	1280	10000					
PRH8	820	5000					
<b>Rio Grande do Sul</b>							
PRF9	1360	500					
<b>Santos</b>							
PRB4	960	1000					
PRG5	720	750					
<b>Sao Paulo</b>							
PRA5	1295	500					
PRA6	815	10000					
PRA7	706	50					
PRB6	1170	1000					
PRB9	1017	5000					
PRE7	788	5000					
PRF3	900	5000					
PRG9	1220	500					
PRH3	1120	10000					
PYG2	1070	10000					
<b>Sorocaba</b>							
PRD7	1430	250					
PRD9	769	250					
<b>Uberaba</b>							
PRE5	1410	250					
PRE6	740	1500					
<b>CHILE</b>							
<b>Concepcion</b>							
CC64	640	100					
<b>CC117</b>		1170		100			
<b>CC141</b>		1410		100			
<b>Curico</b>							
<b>CC96</b>		960		100			
<b>Magallanes</b>							
<b>CD103</b>		1030		100			
<b>CD111</b>		1110		100			
<b>CD136</b>		1360		100			
<b>Osorno</b>							
<b>CD112</b>		1120		100			
<b>CD121</b>		1210		100			
<b>Rancagua</b>							
<b>CC109</b>		1090		100			
<b>CC136</b>		1360		100			
<b>San Antonio</b>							
<b>CB140</b>		1400		100			
<b>San Felipe</b>							
<b>CB146</b>		1460		100			
<b>Santiago</b>							
<b>CB57</b>		570		5000			
<b>CB62</b>		620		1000			
<b>CB73</b>		730		1000			
<b>CB78</b>		780		1000			
<b>CB82</b>		820		1000			
<b>CB89</b>		890		1000			
<b>CB93</b>		930		3000			
<b>CB97</b>		970		1000			
<b>CB101</b>		1010		1000			
<b>CB106</b>		1060		1000			
<b>CB114</b>		1140		1000			
<b>CB118</b>		1180		1000			
<b>CB126</b>		1260		1000			
<b>CB130</b>		130		1000			
<b>CB134</b>		1340		500			
<b>CB138</b>		1380		5000			
<b>CB144</b>		1440		100			
<b>CB144A</b>		1440		100			
<b>CB144B</b>		1440		500			
<b>CB144C</b>		1440		150			
<b>CB150</b>		1500		1000			
<b>Talca</b>							
<b>CC143</b>		1430		100			
<b>Talcahuano</b>							
<b>CB84</b>		840		100			
<b>Temuco</b>							
<b>CC58</b>		580		500			
<b>Valdivia</b>							
<b>CD132</b>		1320		100			
<b>Valparaiso</b>							
<b>CB76</b>		760		10000			
<b>CB90</b>		900		1000			
<b>CB116</b>		1160		100			
<b>CB120</b>		1200		1000			
<b>CB124</b>		1240		250			
<b>CB132</b>		1320		1000			
<b>CB139</b>		1390		105			
<b>Vina del Mar</b>							
<b>CB64</b>		640		1000			
<b>CB111</b>		1110		1000			
<b>COLOMBIA</b>							
<b>Barranquilla</b>							
<b>IJ1ABA</b>		1330		100			
<b>Bogota</b>							
<b>IJN</b>		681		500			
<b>IJ3ABD</b>		1100		50			
<b>IJ3ABE</b>		1200		1000			
<b>IJ3ABH</b>		1005		2000			
<b>IJ3ABK</b>		1320		50			
<b>Cartagena</b>							
<b>IJ1ABM</b>		1154		50			
<b>Medellin</b>							
<b>IJ4ABK</b>		1230		300			
<b>ECUADOR</b>							
<b>Guyaquil</b>							
<b>HC2ET</b>		1153		300			
<b>HC2JB</b>		1250		30			
<b>PARAGUAY</b>							
<b>Asuncion</b>							

## 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" style="text-align: center;"><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>Maracabo</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> <tr><td colspan="3" style="text-align: center;"><b>EUROPE</b></td></tr> <tr><td colspan="3" style="text-align: center;"><b>AUSTRIA</b></td></tr> <tr><td colspan="3"><b>Dornbirn</b></td></tr> <tr><td>.....</td><td>1294</td><td>500</td></tr> <tr><td colspan="3"><b>Graz</b></td></tr> <tr><td>.....</td><td>886</td><td>7000</td></tr> <tr><td colspan="3"><b>Innsbruck</b></td></tr> <tr><td>.....</td><td>519</td><td>1000</td></tr> <tr><td colspan="3"><b>Klangenfurt</b></td></tr> <tr><td>.....</td><td>1294</td><td>4200</td></tr> <tr><td colspan="3"><b>Linz</b></td></tr> <tr><td>.....</td><td>886</td><td>15000</td></tr> <tr><td colspan="3"><b>Salzburg</b></td></tr> <tr><td>.....</td><td>1348</td><td>500</td></tr> <tr><td colspan="3"><b>Vienna</b></td></tr> <tr><td>.....</td><td>592</td><td>120000</td></tr> <tr><td 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Jose</b>			CW41	1360	50	<b>VENEZUELA</b>			<b>Caracas</b>			YVIRC	960	5000	YV3RC	1200	3000	YV4RC	750	100	<b>Maracabo</b>			YV5RMO	1300	150	YV7RMO	1153	500	YV11RMO	1034	.....	<b>Valencia</b>			YV6RV	670	350	<b>EUROPE</b>			<b>AUSTRIA</b>			<b>Dornbirn</b>			.....	1294	500	<b>Graz</b>			.....	886	7000	<b>Innsbruck</b>			.....	519	1000	<b>Klangenfurt</b>			.....	1294	4200	<b>Linz</b>			.....	886	15000	<b>Salzburg</b>			.....	1348	500	<b>Vienna</b>			.....	592	120000	<b>Vorarlberg</b>			.....	1294	6000	<b>BELGIUM</b>			<b>Antwerp</b>			ON4EB	1465	100	<b>Binche</b>			.....	1492	100	<b>Brussels</b>			No. 1	620	15000	No. 2	932	15000	<b>Chatelineau</b>			ON4GE	1492	100	<b>Courtrai</b>			.....	1465	100	<b>Liege</b>			ON4RW	1500	100	<b>Radio Comte</b>			.....	1500	100	<b>Seraing</b>			.....	1500	100	<b>Verviers</b>			No. 1	1500	100	No. 2	1500	100	<b>Wallonia</b>			No. 1	1492	100	No. 2	1500	100	<b>BULGARIA</b>			<b>Sofia</b>			.....	850	1000	<table border="1" style="width: 100%; border-collapse: 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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" style="text-align: center;"><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" style="text-align: center;"><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" style="text-align: center;"><b>ITALY</b></td></tr> <tr><td colspan="3"><b>Bari</b></td></tr> <tr><td>11BA</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>11BZ</td><td>536</td><td>10000</td></tr> <tr><td colspan="3"><b>Firenze</b></td></tr> 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**FOREIGN B. C. STATIONS BY LOCATIONS**

<b>NORWAY</b>		<b>Spain has many stations of 100 watts or less on 1492 and 1500 kcs. For complete list see Index by Calls.</b>		<b>Igarka</b>		<b>YUGOSLAVIA</b>	
Aalesund				RW85	871	2000	
LKA	850 350			Ijevsk	767	3000	Belgrade
Bergen				RW78	767	3000	..... 686 2500
LKB	850 1000			Iochar-Ola			Ljubijana
Bodo				RW61	888	1000	..... 527 5000
LKR	686 500			Ivanovo			Zagreb
Fredrikstad				RW31	625	10000	..... 1086 700
LKF	776 1000			Karaganda			
Hamar				RW46	686.5	1200	
LKH	519 700			Kazan			<b>ASIA</b>
Kristianssand				RW17	686	10000	
LKK	1276 500			Kharkov			
Narvik				RW20	1185	10000	
Notodden				Kiev			<b>CEYLON</b>
LKN	1357 150			RW9	722	36000	Colombo
Porsgrund				Krasnodar			VPB 705 1750
LKP	850 1000			RW33	1050	1000	
Rjukan				Leningrad			<b>CHINA</b>
LKR	1348 150			RW70	1040	10000	Canton
Stavanger				Magnitogorsk			XGOK 750 1000
LKS	1276 500			..... 571 10000			XKRI 1071 100
Trondelag				Makhatch			Chang-Chow
LKT	629 20000			RW27	689	4000	XGDZ 1470 10
				Minsk			XLIK 1330 75
				RW10	1438	100000	Chang-sha
				Moscow			XGOH 590 150
				RW39	832	100000	XGTM 840 15
				Mourmansk			Chengtu
				RW79	610	10000	XGOV 560 10000
				Naitchik			Chinkiang
				RW51	794	1000	XGOZ 1150 1000
				Odessa			Chuching
				RW13	968	10000	XGCK 990 7.5
				Ordjenikidze			XGOS 711 1000
				RW64	740	10000	Foo-chow
				Oufa			XGOL 1030 250
				RW22	617	10000	Hangchow
				Qust-Abakansk			XGOD 990 2000
				RW50	617	2500	XLID 1370 50
				RW84	635	1200	XLIQ 850 50
				Penza			XLIR 1230 50
				RW56	640	1200	Hangkow
				Petropavlovsk			XGOW 1010 5000
				RW71	689	1200	XHJA 570 100
				Petrozavodsk			Hanim
				RW29	648	10000	XLIM 910 50
				Pratigorsk			Honan-fu
				RW18	610	1000	XGOQ 1070 200
				Samara			Hongkong
				RW16	710	10000	ZBW 845 2000
				Saransk			Kiangyin
				RW65	734	1000	XGSA 1335 10
				Simferopol			Kashing
				RW73	859	10000	XGAK 895 15
				Stalingrad			XGML 714.3 7.5
				RW34	522	10000	XLKS 1490 20
				Stalino			Kunming
				RW26	776	10000	XGOY 690 250
				Sykytykar			Loyang
				RW41	563	1200	XGOB 1090 250
				Tcheboksary			Nan-chang
				RW74	680	1200	XGOC 1130 500
				Tcheliabinsk			Nanking
				RW68	577	1500	XGOA 660 75000
				Tchernigov			Ningpo
				RW86	1013	5000	XLIA 1320 15
				Tchita			Peiping
				RW52	556	20000	XGOP 950 300
				Tiraspol			XGOT 1220 500
				RW57	1068	4000	XLKA 1194 30
				Vinnitza			Pinghu
				RW75	1095	10000	XLPH 1210 15
				Urdjenikidze			Poatung
				RW64	752	10000	XGMK 1005 15
				Vladivostok			
				RW28	635	800	
				RW32	635	10000	



## FOREIGN B. C. STATIONS BY LOCATIONS

<b>Shanghai</b>		<b>Tsunshi</b>		<b>Matsuye</b>		<b>AFRICA</b>	
FFZ	1400	XGSS	610	JOJK	625	<b>ALGERIA</b>	
XIHB	740	T'ung Hsien		Miyazaki		ALGERS	
XIHD	860	LUHO	750	JONG	600	Algiers	941 12000
XIHE	940	<b>Wuchow</b>		Nagano		<b>EGYPT</b>	
XIHF	960	XHGS	730	JONK	940	Alexandria	1122 500
XIHG	1020	Wu-hu		Nagasaki		.....	1429 500
XIHH	1040	XDYF	1270	JOAG	930	Cairo	620 20000
XIHI	1060	XGWH	830	Nagoya		.....	1348 500
XIHL	1080	Wusih		JOCK-1	810	<b>KENYA</b>	
XIHK	620	XIHB	970	JOCK-2	1175	Nairobi	858 600
XIHL	1140	XLIE	1170	10000		<b>MOROCCO</b>	
XIHN	1200	XLUF	1250	19000		Rabat	601 25000
XIHP	1260	XLJJ	790	JOOQ	920	<b>SOUTH RHODESIA</b>	
XIHQ	1280	XLIN	1390	500		Salisbury	681.8 1500
XHIR	1340	XLTC	1210	JOOG	1080	<b>TUNISIA</b>	
XHIS	1100	XLWU	1250	500		Tunis	1275 500
XHIT	1500	Yungning		JOJK	700	<b>UNION S. AFRICA</b>	
XIHU	1160	XGOE	1290	10000		Bloemfontaine	790 500
XIHV	880	<b>FORMOSA</b>		JOBK-1	750	Cape Town	600 10000
XIHX	920	JFCK	580	1085		Durban	750 1500
XIHY	1240	Taihu		JOBK-2	1085	Grahamstown	560 10000
XIHZ	1180	JFHK	670	10000		Johannesburg	645 10000
XLIA	780	Tainan		JOJK	830	Maritzburg	750 10000
XLHB	560	JFBK	720	10000		Pretoria	952 500
XLHC	720	<b>INDIA</b>		Sendai		<b>OCEANIA</b>	
XLHD	720	JFCK	580	JOHK	770	<b>AUSTRALIA</b>	
XLHE	1380	Taihoku		10000		Adelaide	1310 300
XLHF	1380	JFAK	670	500		5CL	730 2000
XLHG	760	Tainan		JOJK	780	5DN	960 300
XLHH	760	JFBK	720	10000		5KA	1200 300
XLHK	800	<b>INDO-CHINA</b>		Tokushima		Albury	1480 100
XLHL	800	Bombay		JONK	980	Armidale	1080 100
XLHM	1120	VUB	855	500		Ayr	1450 100
XLHN	1120	Calcutta		JOAK-1	590	Ballarat	1320 50
XLHO	1400	VUC	810	15000		Bathurst	1450 100
XLHQ	1440	Delhi		JOAK-2	590	Bega	1470 100
XLIA	600	VUG	933	10000		Bendigo	970 200
XLIB	980	Lahore		JOJK	890		
XLIC	700	VUL	1200	500			
XLID	840	Madras		JOJG	1040		
XLIE	580	VUM	770	500			
XLIF	850	<b>JAPAN</b>		Yamaqata			
XLIG	1300	Salgon		JOJG	1040		
XOHD	1360	F3ICD	840	500			
XOHE	1460	<b>INDO-CHINA</b>		Tandjongpriok			
XOHF	1480	Akita		YDAS	1510		
XOHG	1220	JOJK	645	500			
.....	640	Asahigawa		<b>KOREA</b>			
Shaohing		JOCC	655	Fuzan			
XLIO	1090	Fukui		JBAK	1030		
Shuhing		JOFG	990	Seoul			
.....	1090	Fukuoka		JODK-1	900		
Siangyang		JOJK	680	10000			
MABS	1250	Hakodate		JODK-2	610		
.....	1250	JOJK	680	10000			
Suchow		Hamamatsu		<b>MANCHUOKUO</b>			
XLJB	1450	JODG	635	Dairn			
XLJC	870	Hiroshima		JOAK	652		
.....	1110	JOFK	850	Harbin			
Taiyuan		JOHG	1050	MTFY	675		
XGOT	1000	Kagoshima		Hsinking			
.....	1000	JOJK	710	MTCY	560		
Tengchow		Kanazawa		Mukden			
XGTM	1210	Kochi		MTBY	890		
XHKC	590	JORK	720	1000			
.....	590	Kofu		<b>PALESTINE</b>			
Tientsin		JOJK	710	Jerusalem			
XLKB	825	Kokura		.....	668		
XLKA	1050	Kumamoto		<b>PHILIPPINES</b>			
XOKA	1350	JOJK	790	Manila			
XOKB	750	Kyoto		KZEG	780		
XOKC	810	JOJK	960	900	1000		
.....	810	Maebashi		KZRM	618.5		
Tsangchow		JOJK	970	50000			
XLIG	1110	<b>JAPAN</b>		<b>SIAM</b>			
.....	1110	Akita		Bangkok			
Taiyuan		JOJK	645	HSP-1	856		
XGOT	1000	Asahigawa		11S7PJ	750		
.....	1000	JOCC	655	.....	1200		
Tengchow		Fukui					
XGTM	1210	JOFG	990				
XHKC	590	Fukuoka					
.....	590	JOJK	680				
Tientsin		Hakodate					
XLKB	825	JOJK	680				
XLKA	1050	Hamamatsu					
XOKA	1350	JODG	635				
XOKB	750	Hiroshima					
XOKC	810	JOFK	850				
.....	810	JOHG	1050				
Tsangchow		Kagoshima					
XLIG	1110	JOJK	710				
.....	1110	Kanazawa					
Taiyuan		Kochi					
XGOT	1000	JOJK	710				
.....	1000	Kofu					
Tengchow		JOJK	720				
XGTM	1210	Kokura					
XHKC	590	JOJK	720				
.....	590	Kumamoto					
Tientsin		JOJK	790				
XLKB	825	Kyoto					
XLKA	1050	JOJK	960				
XOKA	1350	Maebashi					
XOKB	750	JOJK	970				
XOKC	810	JOJK	970				
.....	810	JOJK	970				

## FOREIGN B. C. STATIONS BY LOCATIONS

<b>Brisbane</b>		<b>Katanning</b>		<b>Perth</b>		<b>NEW ZEALAND</b>	
4BC	1120	6KA	1070	6IX	1240	<b>Auckland</b>	
4BH	1380	6Katoomba	2000	6ML	1130	1YA	650
4BK	1290	2KB	1160	6PR	880	1YX	880
4OG	800	6Kelso	100	6WF	690	1ZB	1090
<b>Broken Hill</b>		7NT	710	6Port Moresby	3500	1ZS	1420
2BH	1330	6Kempsey	7000	4PM	1360	<b>Balclutha</b>	
<b>Bundaberg</b>		2KM	1060	<b>Denmark</b>		4ZR	1340
4BU	1480	6Launceston	.....	5RM	850	6Christchurch	4
<b>Burnie</b>		7LA	1100	6Rockhampton	1000	3YA	720
7BU	660	6Lawrence	300	4RK	910	3YL	1200
<b>Cairns</b>		2NR	700	4RO	1330	3ZM	1470
4CA	1470	6Lismore	7000	6Sale	50	<b>Cromwell</b>	
<b>Canberra</b>		2XN	1340	3TR	1240	4ZC	1280
2CA	1050	6Longford	50	6Shepparton	500	6Dunedin	7
<b>Clevedon</b>		3GI	1830	3WR	1260	4YA	790
4ON	600	6Longreach	7000	6Swan Hill	50	4YO	1140
<b>Corowa</b>		4LG	1100	3SH	1080	4ZB	200
2CO	670	6Mackay	300	6Sydney	50	4ZL	1010
<b>Crystal Brook</b>		4MK	1160	2BL	740	4ZM	1220
5CK	640	6Maryborough	100	2CH	1190	4ZO	1010
5PI	1040	4MD	1060	2FC	610	6Gisbourne	25
<b>Cumnock</b>		6Melbourne	50	2GB	870	2ZJ	980
2CR	550	3AK	1500	2KY	1020	2ZM	1150
<b>Denilquin</b>		3AR	580	2SM	1270	<b>Greymouth</b>	
2QN	1440	3AW	1280	2UE	950	3ZR	940
<b>Geelong</b>		3DB	1030	2UW	1110	<b>Hastings</b>	
3GL	1350	3KZ	1180	<b>Tamworth</b>		2ZL	1240
<b>Goulburn</b>		3LO	770	2TM	1300	<b>Invercargill</b>	
2GN	1390	3UZ	930	6Toowoomba	50	4ZP	620
<b>Grafton</b>		3XY	1420	2GR	1000	<b>Manurewa</b>	
2GF	1210	6Murrudin	500	6Townsville	500	1ZM	1260
<b>Griffith</b>		6MD	1330	4TO	1170	<b>Masterton</b>	
2RG	1090	6Mildura	50	6Ulverstone	200	2ZD	1170
<b>Gunnedah</b>		3MA	900	6U7V	300	<b>Napier</b>	
2MO	1360	6Minding	50	6Wagga	1460	2ZH	820
<b>Gympie</b>		6WA	560	2WG	1150	<b>Nelson</b>	
4GY	1430	6Murray Bridge	10000	6Warrnambool	200	2ZR	920
<b>Hamilton</b>		5MU	1340	3YB	1060	<b>New Plymouth</b>	
3HA	1010	6Narrabri	100	6Warwick	25	2YB	760
<b>Hobart</b>		2NZ	1170	4WK	900	<b>Palmerston N.</b>	
7HO	860	6Newcastle	2000	6Wollongong	50	2ZF	960
7ZL	590	2HD	1140	2WL	1430	2ZO	1400
<b>Horsham</b>		2KO	1410	<b>FIJI</b>			
3HS	1370	2NC	1230	6Suva	.....	<b>Wairoa</b>	
3WV	580	<b>Northam</b>		6Suva	880	2ZP	900
<b>Invernell</b>		6AM	980	<b>NEW CALEDONIA</b>			
2LV	980	6Oakley	1000	6Noumea	.....	<b>Wellington</b>	
<b>Ipswich</b>		4AK	1220	6FJP	600	2YA	570
4IP	1440	<b>Orange</b>		<b>NEW ZEALAND</b>			
<b>Kalgoorlie</b>		2GZ	990	2YC	840	250	
6GF	720						
6KG	1210						

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-watt 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	HS7PJ	750	LR9	1030	PRB6	1170	RW54	950	XGOQ	1070
CB64	640	CX34	1210	11BA	1059	LR10	790	PRB7	800	RW55	932	XGOS	711
CB73	730	CX36	1250	11BZ	536	LR11	1390	PRB8	1000	RW56	640	XGOT	1000
CB76	760	CX38	1290	11FI	610	LS1	710	PRB9	1017	RW57	1068	XGOT	1220
CB78	780	CX40	1330	11GE	986	LS2	1190	PRC2	1090	RW61	888	XGOV	1010
CB82	820	CX42	1370	11MI	814	LS3	630	PRC3	920	RW64	740	XGOY	690
CB84	840	CX44	1410	11NA	1104	LS4	670	PRC4	1304	RW65	734	XGOZ	1150
CB89	890	CX46	1450	11PA	565	LS5	1110	PRC5	1364	RW68	577	XGSA	1335
CB90	900	CX48	1500	11RO	713	LS6	1350	PRC6	980	RW70	1040	XGSS	610
CB93	930	EAJ1	790	11TO	1140	LS7	1310	PRC7	1090	RW71	689	XGTM	840
CB97	970	EAJ2	735	11TR	1140	LS8	1230	PRC8	1030	RW73	859	XGTM	1210
CB101	1010	EAJ3	850	JBAK	1030	LS9	1270	PRC9	1175	RW74	680	XHGS	730
CB106	1060	EAJ4	1492	JFAK	670	LS10	590	PRD2	932	RW75	1095	XHHB	740
CB111	1110	EAJ5	731	JFBK	720	LS11	1440	PRD3	1207	RW78	767	XHHB	860
CB114	1140	EAJ6	1492	JFCK	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	JOCG	655	LT11	1260	PRE4	941	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	JODG	990	LV2	880	PRF2	725	SCD	1402	XHHT	1500
CB144B	1440	EAJ21	1492	JOFK	850	LV3	620	PRF3	900	SCF	1402	XHHU	1160
CB144C	1440	EAJ23	1492	JOGK	790	LV5	1120	PRF4	923	SCG	1402	XHHV	880
CB146	1460	EAJ24	1492	JOHG	1050	LV6	690	PRF6	1050	SCH	1402	XHHX	920
CB150	1500	EAJ25	1502	JOHK	770	LV7	820	PRF7	1380	SCI	1402	XHHY	1240
CC58	580	EAJ26	1502	JOIG	1060	LV10	1210	PRF8	950	SCJ	1402	XHHZ	1180
CC64	640	EAJ27	1492	JOHK	770	LV14	1240	PRF9	1360	SC1	1530	XHIA	1410
CC96	960	EAJ29	1500	JOIK	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	JOLG	890	OAX4B	1200	PRG9	1200	SCP	1402	XHRI	1071
CD103	1030	EAJ35	1500	JOLK	680	OAX4C	1300	PRH2	600	SCQ	1312	XHLA	780
CD111	1110	EAJ36	1500	JONG	600	OAX4E	980	PRH3	1120	SCR	1402	XHLB	560
CD112	1120	EAJ37	1500	JONK	940	OAX4F	1080	PRH4	1480	SCS	1402	XHLC	720
CD121	1210	EAJ38	1500	JOOG	1080	OAX4H	1150	PRH8	820	SCT	1402	XHLD	720
CD132	1320	EAJ39	1492	JOOK	960	OAX4I	1120	PYG2	1070	SCU	1240	XHLE	1380
CD136	1360	EAJ40	1500	JOJK	780	OAX4L	1250	PYG8	1250	SCV	1402	XHLF	1380
CNR	601	EAJ41	1492	JOJK	920	OAX4R	1210	RW9	722	SCW	1402	XHLI	760
CPX	1300	EAJ42	1492	JORK	720	OA4K	1360	RW10	1438	PTT	859	XHLJ	760
CP4	1040	EAJ43	1492	JOSK	735	OA4O	1277	RW13	960	TUA	1275	XHLK	800
CT1AA	629	EAJ44	1492	JOTK	625	OA6D	1400	RW16	710	VPB	705	XHLH	800
CT1GL	1031	EAJ45	1500	JOUM	645	OA6E	1350	RW17	686	VQ7LO	858	XHLM	1120
CW19	1340	EAJ46	1492	JOVK	688	OA6U	1443	RW18	610	VUB	855	XHLN	1400
CW23	820	EAJ47	1492	JOXK	980	OFA	895	RW20	1185	VUC	810	XHLO	1400
CW25	1430	EAJ48	1492	JOAK	652	OFD	749	RW22	617	VUD	880	XHLQ	1440
CW27	680	EAJ49	1500	KZEG	780	OFF	1340	RW23	676	VUG	933	XHLR	1320
CW29	1120	EAJ51	1492	KZIB	900	OFH	527	RW26	776	VUM	1200	XHLB	1450
CW31	1160	EAJ52	1492	KZRM	618.5	OKB	922	RW27	689	VUP	570	XHLI	1170
CW33	1460	EAJ53	1492	LKA	850	OKK	1113	RW28	635	VDYF	1270	XHLF	1250
CW35	1240	EAJ55	1492	LKB	850	OKP	633	RW28	725	XGCK	990	XHLG	1110
CW37	1400	FFZ	1400	LKD	686	OKR	1004	RW29	648	XGZD	1470	XHLI	830
CW39	1320	FJP	600	LKF	776	ON4CE	1492	RW30	913	XGED	1340	XHLJ	790
CW41	1360	F31CD	840	LKH	519	ON4CE	1500	RW31	625	XGF	833	XHLK	1330
CW43	1470	HAE	1122	LKI	845	ON4EB	1492	RW32	635	XGKA	895	XHLL	870
CW47	1480	HAE2	1321	LKK	1276	ON4RW	1500	RW33	1050	XGKM	1005	XHLM	910
CX4	610	HAE3	1438	LKN	1357	PFB1	995	RW34	522	XGML	714.3	XHLN	1390
CX6	650	HAE4	1465	LKO	1181	PP	959	RW35	598	XGMA	660	XHLO	1090
CX8	690	HAL	546	LKP	850	PRA2	750	RW36	586	XGOA	660	XHLQ	850
CX10	730	HC2ET	1153	LKR	1348	PRA3	860	RW38	662	XGOB	1090	XHLR	1230
CX12	770	HC2JB	1250	LKS	1276	PRA4	840	RW39	832	XGOC	1130	XHLI	1230
CX14	810	HJN	681	LKT	629	PRA5	1295	RW40	959	XGOD	990	XHLA	1194
CX16	850	HJ1ABA	1330	LRI	1070	PRA6	815	RW42	563	XGOE	1290	XHLB	825
CX18	890	HJ1ABM	1154	LR2	910	PRA7	706	RW46	686.5	XGOF	860	XHLS	1490
CX20	930	HJ3ABD	1100	LR3	950	PRA8	750	RW48	704	XGOH	590	XLTC	1210
CX22	970	HJ3ABE	1200	LR4	990	PRA9	1000	RW48	617	XGOI	900	XMHA	600
CX24	1010	HJ3ABH	1005	LR5	830	PRB2	882	RW50	857	XGOK	750	XMHB	980
CX26	1050	HJ4ABJ	1000	LR6	870	PRB3	857	RW51	794	XGOL	1030	XMHC	700
CX28	1090	HJ4ABK	1230	LR7	750	PRB4	960	RW52	556				

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

XMH	840	ZEK	640	2CH	1190	2UE	950	3GI	830	4CA	1470	5CK	640
XOCL	1500	ZP1	1135	2CO	670	2UW	1110	3GL	1350	4GR	1000	5CL	730
XOMO	1450	ZP4	1275	2CR	550	2WG	1150	3HA	1010	4GY	1430	5DN	960
XQHA	580	ZP5	1465	2FC	610	2WL	1430	3HS	1370	4IP	1440	5KA	1200
XQHB	850	ZP9	898	2GB	870	2XN	1340	3KZ	1180	4LG	1100	5MU	1340
XQHC	1300	ZTB	790	2GF	1210	2YA	570	3LO	770	4MB	1060	5PI	1040
XQHD	1360	ZTC	600	2GN	1390	2YB	760	3MA	900	4MK	1160	5RM	850
XQHE	1460	ZTD	750	2GZ	990	2YC	840	3SH	1080	4PM	1360	6AM	980
XQHF	1480	ZTJ	645	2HD	1140	2ZD	1170	3TR	1240	4QG	800	6CK	1240
XQHG	1220	ZTP	952	2KA	1160	2ZF	960	3UZ	930	4QN	600	6GF	720
XQKA	1350	ZUG	560	2KM	1050	2ZH	820	3WR	1260	4RK	910	6IX	1240
XQKB	750	1YA	650	2KO	1410	2ZJ	980	3WV	580	4RO	1330	6KA	1070
XQKC	810	1YX	880	2KY	1020	2ZL	1240	3XV	1420	4TO	1170	6KG	1210
YDA	1510	1ZB	1090	2LV	950	2ZM	1150	3YA	720	4WK	900	6MD	1330
YLZ	583	1ZM	1260	2MO	1360	2ZO	1400	3YB	1060	4YA	790	6ML	1130
YN	648	1ZS	1420	2NC	1230	2ZP	900	3YL	1200	4YO	1140	6PR	860
YVIRC	960	2AD	1080	2NR	700	2ZR	920	3ZM	1470	4ZB	1010	6WA	560
VY3RC	1200	2AY	1480	2NZ	1170	3AK	1500	3ZR	940	4ZC	1280	6WF	690
VY4RC	750	2BE	1470	2QN	1440	3AR	630	4AK	1220	4ZL	1220	7BU	1390
VY5RMO	1300	2BH	1330	2RG	1090	3AW	1280	4AY	1450	4ZM	1010	7HO	860
VY11RMO	1034	2BL	740	2RN	1340	3BA	1320	4BC	1120	4ZO	1010	7LA	1100
VY6RV	670	2BS	1450	2SM	1270	3BO	970	4BH	1380	4ZP	620	7NT	750
ZBW	845	2CA	1050	2TM	1300	3DB	1030	4BK	1290	4ZR	1340	7UV	1460
								4EU	1480	5AD	1310	7ZL	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)	Bismarek, N. D.	—Meyer Brdstg. 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	G (5)	San Antonio, Tex.	—KTSA Broadcasting Co.
WDEV	ae	500	D	Waterbury, Vt.	—Mary M. Whitehill, Stowe St.
WGR	ak	1000	C	Buffalo, N. Y.	—Buffalo Brdstg. Corp., Rand Bldg.
WKRC	ak	1000	CX	Cincinnati, Ohio	—WKRC, Inc., Hotel Alms
WSVA	ak	500	D	Harrisonburg, Va.	—Marion Gilliam, Main & Market Sts.

### 560 keys. (535.4)

KFDM	ak	500	(1)	Beaumont, Tex.	—Sabine Brdstg. Co., Box 2950
KLZ	ae	1000	CX	Denver, Colo.	—KLZ Brdstg. Co., Shirley-Savoy Hotel
KSFO	ak	1000		San Francisco, Cal.	—Russ Bldg.
KWTO	ak	5000	D	Springfield, Mo.	—Ozarks Brdstg. Co., St. Louis & Kimbrough
WFIL	ak	1000	B	Philadelphia, Pa.	—WFIL Brdstg. 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 Brdstg. Co., 327 N. E. 1st Ave.
XFAO	ak	250	(15)	Mexicali, L. C.	—Luis Castro, Altamirano 156
XFEFC	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. Brdstg. Co., 9th & Indiana
KMTR	ak	1000		Hollywood, Calif.	—KMTR Radio Corp., 915 N. Formosa Ave.
KVI	ak	1000	C	Tacoma, Wash.	—Puget Sound Brdstg. Co., Inc., Rust Bldg.
WKBN	ae	500	1G	Youngstown, Ohio	—WKBN Brdstg. Corp., 17 N. Champion St.
WMCA	ak	500	X	New York, N. Y.	—Knickerbocker Brdstg. Co., 1697 Broadway
WNAX	ak	1000	C (5)	Yankton, S. D.	—WNAX Brdstg. 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 Brdstg. 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.
CKLC	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 Brdstg. Co.
KSAC	ak	500	2 (1)	Manhattan, Kans.	—State College of Agriculture
WCIS	ak	500	(1)	Charleston, W. Va.	—WOBU, Inc., Ruffner Hotel
WDBO	ae	1000	C	Orlando, Fla.	—Orlando Brdstg. 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)

KHO	ak	1000	R (2.5)	Spokane, Wash.	—Louis Wasmer, Inc., Sprague & Post
WEEL	ak	1000	RX	Boston, Mass.	—WEEL Brdstg. 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 Brdstg. Co., Box 360

### 600 keys. (499.7)

CFGF	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. C., Guaranty Trust Bldg.
FON	z	250	609	St. Pierre, Mq.	—.....

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFSD	ae	1000	B	San Diego, Calif.	—Airfan Radio Corp., U. S. Grant Hotel
WGAO	ae	500	C (1)	Baltimore, Md.	—Monumental Radio Co., 811 W. Lanvale
WICC	ae	500	C (1)	Bridgeport, Conn.	—So. Conn. Brdcastg. Corp., Stratfield Hotel
WMT	ak	1000	B (2.5)	Cedar Rapids, Ia.	—Iowa Brdcastg. 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 Brdcastg. 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. Brdcastg. Co., Gimbel Bldg.
WJAY	ae	500	D	Cleveland, Ohio	—Cleveland Brdcastg. 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 Brdcastg. Co., Heard Bldg.
WFLA	ae	1000	Na (5)	Clearwater, Fla.	—Chamber of Commerce, Box 119
WJIB	ak	250	D	Greensburg, Pa.	—Pittsburgh Radio Supply, 128 Penna. Ave.
WLBZ	ak	500	C (1)	Bangor, Maine	—Maine Brdcastg. 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 Brdcasters., Box 243
KFRU	ak	500	1 (1)	Columbia, Mo.	—KFRU, Inc., 9th and Elm Sts.
KGFX	ak	200	D	Pierre, S. D.	—Dana McNeil, Box 573
WGBF	ak	500	1	Evansville, Ind.	—Evansv. on the Air, Inc., 519 Vine St.
WMAL	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 Brdcastg. 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	50000	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 Brdcastg. Sys., Inc.
XEOX	ak	500	.....	Saltillo, Coah.	—Antonio Garza C., Victoria 4 (altos)

### 650 kcys. (461.3)

TIGHF	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
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### 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.  
 CJCJ aj 100 F Calgary, Alta.  
 NAA akn 1000 ..... Arlington, Va.  
 XET ak 500 ..... Monterrey, N. L.

—Rogers-Majestic Corp., 37 Bloor St.  
 —Albertan Pub. Co., New Albertan Bldg.  
 —United States Navy  
 —P. O. Box 203, Hidalgo, N. L.

### 700 kcys. (428.3)

WLW ak 50000 N Cincinnati, Ohio

—Crosley Radio Corp., 1329 Arlington St.

### 710 kcys. (422.3)

KIRO ae 1000 ..... Seattle, Wash.  
 KMPC ak 500 ..... Beverly Hills, Cal.  
 WOR ak 50000 ..... Newark, N. J.  
 XEN ak 1000 ..... Mexico City, D. F.

—Tower Bldg., Queen City Brdcastg. Co.  
 —Bev. Hills Brdcastg. Corp., 9631 Wiltshire  
 —Bamberger Brdcastg. Sys., 147 Market St.  
 —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.  
 CJCA ah 1000 F Edmonton, Alta.  
 CKAG ck 5000 C Montreal, Que.  
 CKPR ak 100 F Fort William, Ont.  
 CMK ae 3000 ..... Havana, Cuba  
 XEBC z 5000 ..... Agua Caliente, L.C.

—London Free Press, Richmond St.  
 —Edmonton Journal, 10122—100 A St.  
 —La Presse Pub. Co., 980 St. Catherine St.  
 —Dougall Motor Co., Royal Edward Hotel  
 —Cia Nacional de Radio, Hotel Plaza

### 740 kcys. (405.2)

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

—KMMJ, Inc.  
 —McTammany & Bates, Box 405  
 —Granite State Brdcastg. Corp., Box 522  
 —Atlanta Journal, 7 No. Forsyth St.

### 750 kcys. (399.8)

CMCW dk 150 ..... Havana, Cuba  
 KGU aj 2500 N Honolulu, T. H.  
 WJR ak 50000 C Detroit, Mich.  
 XEAM z 7.5 ..... Matamoros, Tams.

—Radio Pilot, Calle San Lazaro 113  
 —Advertiser Pub. Co., Kapiolani & South Sts.  
 —WJR, Inc., Fisher Bldg.  
 —Edificio Banco Longoria

### 760 kcys. (394.5)

CMHX ak 200 ..... Cienfuegos, Cuba  
 KXA ae 250 (.5) Seattle, Wash.  
 WBAL ae 2500 BSy Baltimore, Md.  
 WJW ae 1000 D St. Louis, Mo.  
 WEZ ak 50000 BSy New York, N. Y.  
 XEOK ak 250 ..... Tijuana, L. C.

—F. Chavarry, P. O. Box 205  
 —Am. Radio Tel. Co., 312 Bigelow Bldg.  
 —Am. Radio News Corp., Lexington Bldg.  
 —St. Louis University, 221 N. Grand Blvd.  
 —NBC, Inc., 30 Rockefeller Plaza  
 —Carlos de la Sierra, Calle 5a, 312

### 770 kcys. (389.4)

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

—Calzada y H St., Vedado, Habana  
 —KFAB Brdcastg. Co., Cornhusker Hotel  
 —WBBM Brdcastg. Corp., 410 N. Michigan Ave.

### 780 kcys. (384.4)

CHWK dk 100 F Chilliwack, B. C.  
 CKSO ak 1000 F Sudbury, Ont.  
 CMJK ak 250 ..... Camaguey, Cuba  
 KEHE ak 500 (1) X Los Angeles, Calif.  
 KFQD ae 1000 D Brookings, S. D.  
 KFQD ck 250 ..... Anchorage, Alaska  
 KGHL ak 1000 N(2.5) Billings, Mont.  
 WEAN ae 500 CX Providence, R. I.

—Chilliwack Brdcastg. Co., Box 452  
 —W. E. Mason, Grand Theater Bldg.  
 —Cia. Nacional de Radio, Finlay No. 3  
 —Evening Herald Publishing Co.  
 —S. Dak. State College, Box L  
 —Anchorage Radio Club, 411 Fourth Ave.  
 —Northwestern Auto Supply, 5th & Broadway  
 —Shepard Brdcastg. 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.
KEYZ	z	10000	....	Mexico City, D. F.	—Angel M. Diez, Avenida Juarez 48

**790 keys. (379.5)**

CMGHI	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 keys. (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 Brdcastg. Corp., Box 794

**810 keys. (370.2)**

CMCF	ak	600	....	Havana, Cuba	—Oscar Gutierrez, Paseo de Marti 9
WCCO	ae	50000	C	Minneapolis, Minn.	—Northwestern Brdcastg. 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 keys. (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 keys. (361.2)**

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

**840 keys. (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., 805 Davenport Road
VOGY	ak	400	....	St. John's, Nfld.	—Newfoundland Hotel
XERA	ck	250000	....	Villa Acuna, Coah.	—Brinkley Hospital (Del Rio, Texas)

**850 keys. (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 II., 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 keys. (348.6)**

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

**870 keys. (344.6)**

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

**880 keys. (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.
WQOC	ae	500	(1)	Meridian, Miss.	—Miss. Brdcastg. 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.
WQAN	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.
KFNF	ak	500	2 (1)	Shenandoah, Iowa	—KFNF, Inc., 407 Sycamore St.
KFPY	ak	1000	C (5)	Spokane, Wash.	—Symons Brdcastg. 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 Brdcastg. Co.
NEW	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.
KSEL	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 Brdcastg. 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.
WBLB	ak	2500	D	Denver, Colo.	—State of Wisc., Fox Theater Bldg.
WTAD	ak	500	D	Quincy, Ill.	—Ill. Brdcastg. Corp., State & 6th

### 910 kcys. (329.6)

CJAT	ak	1000	F	Trail, B. C.	—Kootenay Brdcastg. 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 Oficinas
HIHK	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
WORLD	ae	500	D	Boston, Mass.	—Brdcastg. Serv. Organization, Inc.
WPEN	ak	250	(.5) 1	Philadelphia, Pa.	—Wm. Penn Brdcastg. Co., 22nd & Walnut
WRAX	ak	250	1 (.5)	Philadelphia, Pa.	—WRAX Brdcastg. Co., 217 S. Broad St.
WSPA	ae	1000	D	Spartanburg, S. C.	—Virgil Evans, Ravelen & 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. Brdcastg. Co., Southam Bldg.
CFCH	ak	100	F	North Bay, Ont.	—Roy H. Thompson, Capitol Theater Bldg.
GFLC	ae	100	....	Prescott, Ont.	—Radio Assn. of Prescott, 307 George St.
GHNS	ae	1000	F	Halifax, N. S.	—Maritime Brdcastg. Co., Lord Nelson Hotel
GKPC	ae	100	F	Brantford, Ont.	—Telephone City Brdcastg. Ltd., Arcade Bldg.
KMA	ak	1000	(2.5)	Shenandoah, Iowa	—Earl E. May Seed and Nursery Co.
KROW	ak	1000	....	Oakland, Calif.	—Educational Brdcastg. Corp., 1803 Franklin
TIRH	z	50	....	San Jose, C. R.	—
WBRG	ak	1000	C	Birmingham, Ala.	—Birmingham Brdcastg. Co., Bankhead Hotel
WDBJ	ae	1000	C (5)	Roanoke, Va.	—Times World Corp., P. O. Box 150
XEBII	z	500	....	Hermosillo, Sonora	—Carlos Halderamma, Obregon 10

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

940 keys. (319.0)

KOIN	ak	1000	C (5)	Portland, Ore.	—KOIN, Inc., New Heathman Hotel
VOAS	ak	100	.....	St. John's, Nfld.	—Ayre & Sons, Ltd., Water St.
WAAT	ae	500	D	Jersey City, N. J.	—Bremer Brdcastg. Corp., 50 Journal Sq.
WAVE	bk	1000	N	Louisville, Ky.	—WAVE, Inc., 1525 Brown Hotel
WGSJ	ae	1000	R (2.5)	Portland, Maine	—Congress Square Hotel Co.
WDAY	ae	1000	N (5)	Fargo, N. D.	—WDAY, Inc., 118 Broadway
WHA	ak	2500	DX	Madison, Wis.	—University of Wisc., Radio Hall
XEFO	ak	5000	(XFO)	Mexico City, D. F.	—Av. 5 de Mayo 19

950 keys. (315.6)

CJOC	ak	100	F	Lethbridge, Alta.	—H. R. Carson, Ltd., Marquis Hotel
CMCD	ak	250	.....	Havana, Cuba	—Calle G y 25, Vedado
CRCS	ak	100	F	Chicoutimi, Que.	—CRBC, 4 rue Larouche
KFWB	ak	1000	(5)	Hollywood, Calif.	—Warner Bros. Motion Pictures, Inc.
KHSL	ak	250	D	Chico, Calif.	—Golden Empire Brdcastg. Co.
KMBC	ae	1000	C (5)	Kansas City, Mo.	—Midland Brdcastg. Co., Pickwick Hotel
WRC	ak	500	R (1)	Washington, D. C.	—NBC, Inc., National Press Bldg.
YNVA	z	30	.....	Managua, Nic.	—.....

960 keys. (312.3)

CHNC	ak	1000	F	New Carlisle, Que.	—Gaspesian Radio Brdcastg. Co., Ltd.
XEAW	ck	50000	.....	Reynosa, Tams.	—Cia. Int. Difusora Reynosa, Apto do 6

970 keys. (309.1)

CMBY	z	150	.....	Havana, Cuba	—Calle Infanta 132
KJR	ak	5000	B	Seattle, Wash.	—Fishers Blend Station, Skinner Bldg.
WCFL	ae	5000	B	Chicago, Ill.	—Chi. Fed. of Labor, 666 Lake Shore Dr.
WIBG	ak	100	D	Glenside, Pa.	—Seaboard Radio Brdcastg. Corp.

980 keys. (306.0)

KDKA	ae	50000	B	Pittsburgh, Pa.	—Westinghouse Elec. Co., Grant Bldg.
XEF	z	100	.....	Juarez, Chih.	—.....

990 keys. (302.8)

WBZ	ak	50000	BSy	Boston, Mass.	—Westinghouse Elec. Co., Hotel Bradford
WBZA	ak	1000	BSy	Springfield, Mass.	—Westinghouse Elec. Co., Hotel Kimball
XEAF	ak	500	.....	Nogales, Sonora	—Francisco G. Elias, Hotel Central
XEK	ak	100	.....	Mexico City, D. F.	—Arturo Martinez, Jalapa No. 51
XES	dk	250	.....	Tampico, Tams.	—Fernando Sada, Box 309

1000 keys. (299.8)

CMBZ	ak	150	.....	Havana, Cuba	—Manuel y G. Salas, San Rafael 14
KFVD	ak	250	Dn	Los Angeles, Calif.	—Standard Brdcastg. Co.
TGHI	z	500	.....	San Jose, C. R.	—.....
WHQ	ak	50000	R	Des Moines, Iowa	—Central Brdcastg. Co., 914 Walnut St.
XEBK	z	100	.....	Nuevo Laredo, Tams.	—.....
XEY	z	10	.....	Merida, Yuc.	—Ramon Rubio, Calle 64, No. 568

1010 keys. (296.9)

CHML	ak	100	F	Hamilton, Ont.	—Maple Leaf Radio Co., Pigott Bldg.
CHWC	ak	500	3F	Regina, Sask.	—R. H. Williams & Sons, Kitchener Hotel
CKCD	ak	100	.....	Vancouver, B. C.	—Van. Daily Province, 142 Hastings W.
CKCK	ak	500	3F	Regina, Sask.	—Leader-Post Ltd., 1853 Hamilton St.
CKCO	ak	100	F	Ottawa, Ont.	—Dr. Geldert, 272 Somerset St., W.
CKIC	ak	50	.....	Wolfville, N. S.	—Acadia University
CKWX	ak	100	F	Vancouver, B. C.	—Western Brdcastg. Co., Hotel Georgia
CMJA	ak	50	.....	Camaguey, Cuba	—Rafael Valdes, P. O. Box 64
KGGF	ak	1000	2	Coffeyville, Kans.	—Powell & Platz, Coffeyville Journal Bldg.
KOW	ak	1000	.....	San Jose, Calif.	—87 E. San Antonio St.
TIGA	z	30	1014	Cartago, C. R.	—.....
WHN	ae	1000	(5)	New York, N. Y.	—Marcus Loew Agency, 1540 Broadway
WNAD	ae	1000	2	Norman, Okla.	—University of Oklahoma
WNOX	ak	1000	C (2)	Knoxville, Tenn.	—Continental Brdcastg. Corp., Hotel Johnson
XEU	ak	250	.....	Veracruz, Ver.	—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.
CMCY	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)

CMKD	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	1C	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 Rodríguez, 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 keys. (267.7)

CHLP	ak	100	F	Montreal, Que.	—La Patrie Pub. Co., Sun Life Bldg.
GHSJ	ae	500	F (1)	St. John, N. B.	—N. B. Brdcstg. Co., Admiral Beatty Hotel
CKOC	ae	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 keys. (265.3)

GMJI	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 keys. (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 keys. (260.7)

GMJF	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.	—Gla. Radiofonografica, Aptdo. 197
XEFL	ak	250	.....	Tijuana, L. C.	—P. O. Box 6, San Diego, Calif.
XEH	ak	250	.....	Monterrey, N. L.	—Tarnava y Gla., P. O. Box 147
XEWZ	ak	100	.....	Mexico City, D. F.	—J. Valezzi E., Box 291

1160 keys. (258.5)

GMHJ	z	100	.....	Cienfuegos, Cuba	—Romualdo Ugalde, Santa Elena 104
WOWO	ae	10000	1C	Fort Wayne, Ind.	—Westinghouse Elec. & Mfg. Co.
WVVA	ak	5000	1C	Wheeling, W. Va.	—W. Va. Brdcstg. Corp., Hawley Bldg.
XEAS	z	100	.....	Salttillo, 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 keys. (256.3)

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

1180 keys. (254.1)

GMJO	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.
WE9EK	ak	10	1185	Montmagny, Que.	—J. A. Marquis, Box 52
VDGY	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 keys. (252.0)

HIJ	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

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

### 1200 kcys. (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 115
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
KGEK	ak	100	....	Sterling, Colo.	—Elmer Beehler, 109 W. 2nd St.
KGFJ	ae	100	....	Los Angeles, Calif.	—Ben. S. McGlashan, 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
KYCV	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.
WBZ	ak	100	....	Porta City, Okla.	—C. L. Carrell, 407 W. South Ave.
WBNO	ak	100	D	New Orleans, La.	—Hotel New Orleans
WCAT	ak	100	D	Rapid City, S. D.	—S. Dak. State School of Mines
WCAX	ak	100	....	Burlington, Vt.	—Burlington Daily News, 204 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	(25) 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.
WHX	aej	100	(3)C	Utica, N. Y.	—WHX, Inc., 1st Nat'l Bank Bldg.
WIL	ak	100	(25)	St. Louis, Mo.	—Mo. Brdcastg. Corp., Melbourne Hotel
WJBC	ak	100	6	(25) Bloomington, Ill.	—Kaskaskia Brdcastg. Co.
WJBL	ak	100	6	Decatur, Ill.	—Commodore Brdcastg. Co., Gushard Bldg.
WJNO	ak	100	1	New Orleans, La.	—C. C. Carlson, Godchaux Bldg.
WJRD	z	100	DP	W. Palm Beach, Fla.	—Hazelwood, Inc.
WKBO	ak	100	3	(25) Tuscaloosa, Ala.	—James R. Dass, Jr.
WLVA	ak	100	(25)	Harrisburg, Pa.	—Keystone Brdcastg. Corp., Penn Harris Hotel
WMER	ae	100	D	Lynchburg, Va.	—Lynchburg Brdcastg. Corp., 915 Main St.
WMPC	ak	100	(25)	High Point, N. C.	—Hart & Nelson
WNRI	ak	100	(25)	Lapeer, Mich.	—1st Methodist Church, 81 Liberty St.
WOLS	z	100	DP	Newport, R. I.	—S. George Webb, 21 Bull St.
WRBL	ak	100	....	Florence, S. C.	—O. Lee Stone
WTHH	z	100	D	Columbus, Ga.	—WRBL, Inc., Royal Theater Bldg.
WWAE	ae	100	8	Hartford, Conn.	—Hartford Times, Inc.
				Hammond, Ind.	—Hammond-Calumet Brdcastg. Corp.

### 1210 kcys. (247.8)

CJCS	z	50	....	Stratford, Ont.	—M. I. Higgins, 151 Ontario St.
CJCU	z	50	....	Aklavik, N. W. T.	—Dr. J. A. Urquhart, 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. Thels
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	(25) 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	—Oil Capital Brdcstg. Assn.
KPPC	ak	100	9	Pasadena, Calif.	—Pasadena Presb. Church, 585 E. Colorado
KVSO	ak	100	.....	Ardmore, Okla.	—Ardmoreite Publishing Co.
KWTN	ak	100	.....	Watertown, S. D.	—Midland Life Insurance Bldg.
TGW	ak	1000	.....	Guatemala City	—Ministerio de Fomento
WALR	ak	100	.....	Zanesville, Ohio	—WALR Brdcstg. Corp., 1st Trust & Bank Bldg.
WABX	ae	100	.....	Wilkes Barre, Pa.	—John A. Stenger, Jr., 70 S. Main St.
WBBL	ak	100	S	Richmond, Va.	—Grace Presb. Church, 1627 Monument Ave.
WBLY	z	100	DP	Lima, Ohio	—Herbert Lee Blye
WBRB	ak	100	3	Red Bank, N. J.	—Monmouth Brdcstg. Corp., 63 Broad St.
WCOL	ak	100	.....	Columbus, Ohio	—WCOL, Inc., 33 N. High St.
WCRW	ae	100	4	Chicago, Ill.	—Clinton R. White, 2756 Pine Grove Ave.
WEBQ	ae	100	6(25)	Harrisburg, Ill.	—Harrisburg Brdcstg. Co., 100 E. Poplar
WEDC	ae	100	4	Chicago, Ill.	—Emil Denmark, 3850 Ogden Ave.
WFAS	ak	100	3	White Plains, N. Y.	—Westchester Brdcstg. Corp., Hotel Rog. Smith
WFOY	z	100	P	St. Augustine, Fla.	—Fountain of Youth Properties, Inc.
WGBB	ae	100	3	Freeport, N. Y.	—H. H. Garman, 64 S. Grove St.
WGCM	ae	100	(25)	Gulfport, Miss.	—WGCM, Inc.
WGNV	ak	100	3	Chester, N. Y.	—Peter Goelet (Orange County)
WHBF	ak	100	(25)	Rock Island, Ill.	—Rock Isl. Brdcstg. Co., Hotel Harms
WIBU	ak	100	(25)	Anderson, Ind.	—Anderson Brdcstg. Corp., Box 816
WIBU	ak	100	(25)	Poynette, Wis.	—Wm. C. Forrester, RFD No. 3
WJBW	ak	100	.....	Gadsden, Ala.	—Gadsden Brdcstg. Co., 112 N. 8th St.
WJEJ	ae	100	D	Hagerstown, Md.	—Hagerstown Brdcstg. Co., Lovely Dame Bldg.
WJIM	z	100	(25)	Lansing, Mich.	—Capital City Brdcstg. Co.
WJW	ae	100	(25)	Akron, Ohio	—WJW, Inc., 41 S. High St.
WKOK	ak	100	.....	Sunbury, Pa.	—Sunbury Brdcstg. Co., 1150 N. Front
WLMU	z	100	P	Middlesboro, Ky.	—Lincoln Memorial University
WMBG	ak	100	C(25)	Richmond, Va.	—Havens & Martin, 914 W. Broad
WMFG	z	100	.....	Hibbing, Minn.	—Head of the Lakes Brdcstg. Co.
WMFN	ak	100	Y	Clarksdale, Miss.	—Attala Brdcstg. Corp., Box 180
WOCJ	ak	50	.....	Jamestown, N. Y.	—A. E. Newton, 840 N. Main St.
WOMT	ak	100	.....	Manitowoc, Wis.	—Francis M. Kadow, Box 326
WPAX	ak	100	D	Thomasville, Ga.	—H. Wimpy, 135 E. Jackson St.
WSAY	z	100	DP	Rochester, N. Y.	—Brown Radio Serv., 192 S. Goodman
WSBC	ae	100	4	Chicago, Ill.	—Gene T. Dyer, 1258 S. Michigan Ave.
WSIX	ak	100	Y	Springfield, Tenn.	—638 Tire & Vulcanizing Co.
WSOC	ak	100	N(25)	Charlotte, N. C.	—WSOC, Inc., 516 W. Trade St.
WTAX	ak	100	.....	Springfield, Ill.	—WTAX, Inc., 416 E. Capitol Ave.
XEAT	z	50	.....	Hidalgo, Chih.	—.....
XEE	z	50	.....	Durango, Dgo.	—Alejandro Stevenson, Aptdo. 148
XEFV	ak	100	.....	Juarez, Chih.	—J. Onofre M., Tlaxcala 1013
XETH	ak	100	.....	Puebla, Pue.	—Ramon Huerta G., Calle 17, Oriente 11

### 1220 keys. (245.8)

CMJE	z	50	.....	Camaguey, Cuba	—M. Fernandez, Hnos. Aguero No. 2
KFKU	ae	1000	a(5)	Lawrence, Kans.	—University of Kansas
KTW	ak	1000	S2	Seattle, Wash.	—1st Presb. Church, 7th & Spring Sts.
KWSC	ae	1000	2(2)	Pullman, Wash.	—State College of Washington
TIVCA	ak	.....	1225	San Jose, C. R.	—La Voz de Centro America, Aptdo. 800
WCAD	ak	500	D	Canton, N. Y.	—St. Lawrence University
WGAE	ak	1000	R(5)	Pittsburgh, Pa.	—Pitt Publishing Co.
WDAE	ae	1000	C(2,5)	Tampa, Fla.	—Tampa Times Co., Tampa Terrace
WREN	ak	1000	Ba(5)	Lawrence, Kas.	—WREN Brdcstg. Co., 7th and Vermont
XETF	ak	12	.....	Veracruz, Ver.	—Jose R. Lopez, Independencia 28

### 1230 keys. (243.8)

CMCB	ak	150	.....	Havana, Cuba	—A. Capablanca, Metropolitan Bldg.
KGBX	ak	500	.....	Springfield, Mo.	—Springfield Brdcstg. Co.
KGGM	ak	250	(5)	Albuquerque, N. M.	—New Mexico Brdcstg. Co., KiMo Bldg.
KYA	ak	1000	N	San Francisco, Calif.	—Hearst Radio, Inc.
WFBM	ae	1000	C(5)	Indianapolis, Ind.	—307 N. Pennsylvania St.
WNAC	ak	1000	C(2,5)	Boston, Mass.	—Sheppard Brdcstg. Serv., 21 Brookline
XEFJ	ak	100	.....	Monterrey, N. L.	—Junco de la Vega, Box 186
YNOP	z	100	.....	Managua, Nic.	—.....

### 1240 keys. (241.8)

CJCB	ak	1000	F	Sydney, N. S.	—N. Nathanson, 318 Charlotte St.
CMHB	z	50	.....	Sancti Spiritus, Cuba	—Y. E. Weiss y Cia., Independencia 33
KMGU	ak	250	1	Mandan, N. D.	—Mandan Radio Assn., 404 W. Main St.

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KLFPM	ak	250	1	Minor, 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 Gonzales C., Insurgentes 366
XEKL	z	500	.....	Leon, Guan.	—Cia. Radio del Bajio, 5 de Mayo 26
XELA	z	50	.....	Saltillo, Coah.	.....
XEME	z	15	.....	Merida, Yuc.	.....

### 1250 kcys. (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 kcys. (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.
WTOG	ae	1000	C	Savannah, Ga.	—Savannah Brdcastg. Co., DeSoto Hotel

### 1270 kcys. (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
KWLK	ak	100	2D	Decorah, Iowa	—Luther College
WASH	ak	500	aN	Grand Rapids, Mich.	—King-Trendle Brdcastg. Corp.
WFBR	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 kcys. (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 kcys. (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
WBCB	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	ak	500	3C	Portland, Ore.	—KALE, Inc., New Heathman Hotel
KFAC	ak	1000		Los Angeles, Calif.	—E. L. Cord, 645 So. Mariposa
KFH	ak	1000	C	Wichita, Kans.	—KFH, 124½ S. Market St.
KFJR	ag	500	3	Portland, Ore.	—KFJR, Inc., 622 Lumberman's Bldg.
WBBR	ae	1000	1	Brooklyn, N. Y.	—124 Columbia Heights
WEVD	ak	1000	1	New York, N. Y.	—Jewish Daily Forward, Hotel Claridge
WFAB	ae	1000	1	New York, N. Y.	—154 W. 57th St.
WFBC	ak	1000	(5)N	Greenville, S. C.	—Greenville News-Piedmont Co.
WHAZ	ae	500	1	Troy, N. Y.	—Rensselaer Polytechnic Inst. 8th Ave.
WHBL	ae	250		Sheboygan, Wis.	—Press Pub. Co., Press Bldg.
WIOD	ak	1000	N	Miami, Fla.	—Isle of Dreams Brdctg. Corp.

### 1310 keys. (228.9)

CHCK	ak	50	...	Charlottetown, P.E.I.	—Burke & Gesner, 36 Upper Hillsboro St.
CJKL	ak	1000	F	Kirkland Lake, Ont.	—Northern Brdctg. Co., Ltd.
CJLS	ak	100		Yarmouth, N. S.	—Laurie L. Smith, Grand Hotel
CKCV	ak	100	F	Quebec, Que.	—CKCV, Ltd., 142 St. John St.
CKRJ	ak	100	D	Jerome, Ariz.	—Chas. C. Robinson, Drawer D
KFPL	dk	100	(.25)	Dublin, Texas	—C. C. Baxter, Box 176
KFXR	ak	100	(.25)	Oklahoma City, Okla.	—541 Hightower Bldg.
KFYO	dk	100	(.25)	Lubbock, Texas	—Plains Radio Brdctg. Co.
KGCX	ak	100	(.25)XZ	Wolf Pt., Mont.	—E. E. Krebsbach
KGEZ	aj	100		Kalspell, Mont.	—Donald C. Treloar, Box 1
KGFW	ak	100		Kearney, Neb.	—Cent. Nebr. Brdctg. Corp., 919 W. 27th
KHUB	z	250	DP	Watsonville, Calif.	—F. W. Atkinson
KINY	ak	100		Juneau, Alaska	—Edwin A. Kraft
KIT	ak	100	(.25)	Yakima, Wash.	—Carl Haymond, 109½ E. Yakima Ave.
KIUJ	ak	100		Santa Fe, N. Mex.	—J. Laurence Martin
KMED	ck	100	(.25)	Medford, Ore.	—Mrs. W. J. Virgin, Sparta Bldg.
KPND	z	100	DP	Pampa, Texas	—Pampa Daily News
KRMD	ak	100		Shreveport, La.	—KRMD, Inc., Jefferson Hotel
KROC	z	100		Rochester, Minn.	—Southern Minn. Brdctg. Co.
KROY	z	100	DP	Sacramento, Calif.	—Royal Miller
KRRV	z	100	DP	Sherman, Texas	—Red River Valley Brdctg. Corp.
KTSM	ak	100		El Paso, Texas	—Tri-State Brdctg. Co., Box 1976
KVOL	ak	100		Lafayette, La.	—Evangeline Brdctg. Co.
KXRO	ak	100		Aberdeen, Wash.	—KXRO, Inc., Hotel Morck
WAML	ak	100		Laurel, Miss.	—New Laurel Radio Co., Box 26
WBEO	ae	100		Marquette, Mich.	—Lake Superior Brdctg. Co., 146 W. Wash.
WBOW	ak	100	(.25)	Terre Haute, Ind.	—Banks of the Wabash, Inc., 19 Beach Block
WBRE	ak	100		Wilkes Barre, Pa.	—L. G. Baltimore, 16 N. Main St.
WCLS	ak	100		Joliet, Ill.	—WCLS, Inc., 301 E. Jefferson St.
WDMI	z	100		Ashland, Ky.	—Ashland Brdctg. Co., Box 106
WDAH	ak	100	S	El Paso, Texas	—Tri-State Brdctg. Co., Box 1976
WEBR	ae	100	B(.25)	Buffalo, N. Y.	—WEBR, Inc.
WEMP	z	100	D	Milwaukee, Wis.	—Milwaukee Brdctg. Co.
WEXL	ak	50		Royal Oak, Mich.	—R. O. Brdctg. Co., 212 W. 6th St.
WFBG	ae	100	3	Altoona, Pa.	—Gable Brdctg. Co., 12th Ave. & 13th St.
WFDF	rmk	100		Flint, Mich.	—Flint Brdctg. Co., Union Industrial Bldg.
WGH	aj	100	(.25)	Newport News, Va.	—2813 Washington
WHAT	ak	100	4	Philadelphia, Pa.	—Independent Brdctg. Co., Public Ledger Bldg
WJAC	ae	100	3	Johnstown, Pa.	—WJAC, Inc., Locust St.
WLAK	z	100		Lakeland, Fla.	—Lake Region Brdctg. Co.
WLBC	ak	100	6(.25)	Muncie, Ind.	—D. A. Burton, Anthony Bldg.
WLNH	ak	100		Laconia, N. H.	—Northern Brdctg. Co., 523 Main St.
WMBO	ak	100		Auburn, N. Y.	—WMBO, Inc., Metcalf Bldg.
WMFF	ak	250	D	Plattsburg, N. Y.	—Hotel Cumberland
WNBH	ak	100	(.25)	New Bedford, Mass.	—E. Anthony & Sons, 251 Union St.
WOL	ak	100	XZ	Washington, D. C.	—American Brdctg. Co., Annapolis Hotel
WRAW	ak	100		Reading, Pa.	—Reading Brdctg. Co., 533 Penn St.
WROL	ak	100	(.25)	Knoxville, Tenn.	—Stuart Brdctg. Corp., 524 S. Gay St.
WSAJ	ae	100		Grove City, Pa.	—Grove City College, 418 Poplar St.
WSGN	ak	100	(.25)	Birmingham, Ala.	—Birmingham News Co.
WSJS	ak	100	C	Winston-Salem, N.C.	—416 N. Marshall
WTAL	ak	100		Tallahassee, Fla.	—Florida Capitol Brdctgs., Inc.
WTEL	ce	100	4	Philadelphia, Pa.	—Foulkrod Radio Eng. Co., 3701 N. Broad
WTJS	ak	100	(.25)	Jackson, Tenn.	—Sun Pub. Co., Sun Bldg.
WTRC	ak	100	6(.25)	Elkhart, Ind.	—Truth Pub. Co., Hotel Elkhart
XEAG	z	10		Cordoba, Ver.	.....
XECW	z	10		Mexico City, D. F.	—Avenida Juarez 104
XEFW	ak	250		Tampico, Tams.	—Salvador Diaz Miron 6
XETB	ak	125		Torreón, Coah.	—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 keys. (227.1)

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

### 1330 keys. (225.4)

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

### 1340 keys. (223.7)

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

### 1350 keys. (222.1)

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

### 1360 keys. (220.4)

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

### 1370 keys. (218.8)

CKCW	ak	100	F	Moncton, N. B.	—Moncton Brdcastg. Co., K. of P. Hall
CMGE	ak	150	.....	Cardenas, Cuba	—Genero Sebarer, Av. Gespedes 180
HIZ	z	10	.....	Trujillo, D. R.	—Abbes y Garcia, Calle Duarte 68
KAST	ak	100	D	Astoria, Ore.	—Abraham Shapiro, 611 Commercial St.
KCMO	ak	100	.....	Kansas City, Mo.	.....
KELD	z	100	.....	El Dorado, Ark.	—Radio Enterprises, Inc.
KERN	ak	100	.....	Bakersfield, Calif.	—McClatchey Brdcastg. Co.
KFGQ	ak	100	.....	Boone, Iowa	—Boone Biblical College, 924 W. 2nd
KFJM	ak	100	(.25)XZ	Grand Forks, N. D.	—University of N. Dakota
KFJZ	ae	100	(.25)	Fort Worth, Texas	—Ft. Worth Brdcasters, 502 Trinity Life
KFRO	ak	100	D	Longview, Texas	—Voice of Longview, Box 86
KGAR	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. Brdcastg. 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 Brdcasters, Inc.
KIUP	ak	100	....	Durango, Colo.	—C. Guy Shepard, 2800 Main St.
KLUF	z	100	(.25)	Galveston, Texas	—Geo. R. McAllister, Smith-Young Tower
KMAC	ak	100	5	San Antonio, Tex.	—W. W. Clough, Buccaneer Hotel
KOBH	z	100	P	Rapid City, S. Dak.	—Black Hills Brdcastg. Co.
KONO	ak	100	5	San Antonio, Tex.	—Mission Brdcastg. Co., Millam Bldg.
KRE	ak	100	(.25)	Berkeley, Calif.	—1st Cong. Church, 2337 Shattuck Ave.
KRKO	ak	100	1	Everett, Wash.	—Lee Mudgett, 2814 Rucker Ave.
KSLM	ak	100	....	Salem, Ore.	—Oregon Radio, Inc.
KTEM	z	100	DP	Temple, Texas	—Bell Brdcastg. 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 Brdcastg. Co., Inc.
WABY	aj	100	....	Albany, N. Y.	—Hotel Ten Eyck
WAGF	ak	250	D	Dothan, Ala.	—Dothan Brdcastg. Co., Box 25
WATL	ak	100	....	Atlanta, Ga.	—Volunteer Life Bldg.
WBNY	z	100	2(.25)	Buffalo, N. Y.	—Roy L. Albertson
WBTM	ak	100	(.25)	Danville, Va.	—Piedmont Brdcastg. Co., Miller Bldg.
WCBM	ae	100	(.25)	Baltimore, Md.	—Keith Theater Bldg.
WDAS	ae	100	(.25)	Philadelphia, Pa.	—WDAS Brdcastg. 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 Brdcastg. Co., Inc.
WGL	ae	100	C	Fort Wayne, Ind.	—Westinghouse Elec. & Mfg. Co.
WGRC	z	250	DP	New Albany, Ind.	—North Side Brdcastg. Corp.
WHBO	ak	100	....	Memphis, Tenn.	—WHBO, Inc., Hotel Claridge
WHDF	ak	100	(.25)	Calumet, Mich.	—Upper Mich. Brdcastg. Co., Box 643
WHLB	z	100	P	Virginia, Minn.	—Head of the Lakes Brdcastg. Co.
WIBM	ak	100	(.25)	Jackson, Mich.	—WIBM, Inc., 306 W. Michigan Ave.
WLLH	ak	100	(.25)	Lowell, Mass.	—Merrimack Brdcastg. Co., Box D
WMBR	ak	100	C(.25)	Jacksonville, Fla.	—Florida Brdcastg. 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 Brdcastg. 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.
WRAK	ak	100	(.25)	Williamsport, Pa.	—WRAK, Inc., 244 W. 4th St.
WRDO	ae	100	....	Augusta, Maine	—WRDO, Inc., Augusta House
WRJN	ak	100	(.25)	Racine, Wis.	—Racine Brdcastg. Corp., Hotel Racine
WSVS	ak	50	D2	Buffalo, N. Y.	—Seneca High School, 666 E. Delevan Ave.
XEFZ	ak	100	....	Mexico City, D. F.	—Manuel Zetina, Calle de la Rosa 92
XEI	ak	125	....	Morelia, Mich.	—F. I. Madero 545
XEZZ	z	100	....	San Luis Potosi, SLP.	—Zeferino Jiminez, 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 Brdcastg. Co., 1406 C. of C. Bldg.
WALA	af	500	C(1)	Mobile, Ala.	—Pape Brdcastg. Co., P. O. Box 288
WKBH	ak	1000	....	LaCrosse, Wis.	—WKBH, Inc., 409 Main St.
WNBC	mk	250	D	New Britain, Conn.	—State Brdcastg. 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 Brdcastg. Co., Box 550
KOOS	ae	250	D	Marshfield, Ore.	—Pacific Radio Corp., Hall Bldg.
KOY	ae	500	(1)	Phoenix, Ariz.	—Nielson 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 Brdcastg. Co., Ltd.
KLO	ak	500	N	Ogden, Utah	—Interstate Brdcastg. Corp., 405 25th
KTUL	ak	500	C(1)	Tulsa, Okla.	—Tulsa Brdcastg. Co., Nat'l. Bank Bldg.

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

TXG	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
WEGL	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	Brocklyn, 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 Brdcsters, Inc., 109 S. Water
WSFA	ak	500	C(1)	Montgomery, Ala.	—Jefferson Davis Hotel

### 1420 keys. (211.1)

CKGB	ak	100	F	Timmins, 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 Schabaur
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 Brdcsters., Multnomah Hotel
WAGO	ak	100	C	Waco, Texas	—KTSa Brdcstg. Co.
WAGM	ae	100		Presque Isle, Maine	—Aroostook Brdcstg. Corp., Main St.
WAFD	z	100	DP	Chattanooga, Tenn.	—W. A. Petterson
WAZL	ak	100	2	Hazleton, Pa.	—Hazleton 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	3 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
WHDI	ak	100	D	Cleon, N. Y.	—Olean Brdcstg. Co., Exchange Bank
WHFC	ae	100	2	Cleon, Ill.	—WHFC, Inc., 6138 Cermak Road
WILM	aj	100		Wilmingon, 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)	Erie, Pa.	—Leo J. Omelian, Commerce Bldg.
WMAS	ak	100	C(.25)	Springfield, Mass.	—WMAS, Inc., 70 Chestnut St.
WMBG	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
WRPP	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 keys. (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.
WHIP	ak	500	C (1)	Harrisburg, Pa.	—WHIP, Inc., 216 Locust St.
WNRB	ae	500	(1)	Memphis, Tenn.	—Memphis Commercial Appeal
WOKO	aj	500	C (1)	Albany, N. Y.	—WOKO, Inc., Hotel Ten Eyck

1440 keys. (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 1., Aptdo. 157

1450 keys. (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.
KIEM	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 keys. (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 keys. (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 keys. (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 keys. (201.2)

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

1500 keys. (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.
KDBA	ak	100	C	Santa Barbara, Cal.	—15-17 E. Haley
KGFI	ak	100	(.25)	Corpus Christi, Tex.	—Eagle Brdcastg. Co., Box 1508
KGFK	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	—G. L. Burns
KNOW	ak	100	C	Austin, Texas	—KUT Brdcastg. Co., Norwood Bldg.
KOTN	ak	100	D	Pine Bluff, Ark.	—Universal Brdcastg. Corp., Hotel Pines
KVOC	z	100	P	Valley City, N. Dak.	—George B. Bairey
KPLC	ak	100	.....	Lake Charles, La.	—Calcasieu Brdcastg. Co., Majestic Hotel
KPLT	z	100	DP	Paris, Texas	—North Texas Brdcastg. Co.
KPQ	ak	(.25)	D	Wenatchee, Wash.	—Wescoast Brdcastg. Co., 20—2nd St.
KRNR	z	100	D	Roseburg, Ore.	—Oregon Publishing Co.
KTEP	z	100	P	El Paso, Texas	—Dorrance D. Roderick
KUTA	z	100	P	Salt Lake City, Utah	—Utah Brdcastg. Co.
KVOE	ak	100	.....	Santa Ana, Calif.	—Voice of the Orange Empire, Ltd.
KXO	ae	100	.....	El Centro, Calif.	—F. M. Bowles, Box 140
WGNW	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.
WHBF	z	100	D	Selma, Ala.	—Selma Brdcastg. Co.
WHFB	ak	100	(.25)	Kosciusko, Miss.	—Attala Brdcastg. Corp., Box 631
WJKB	ae	100	(.25)	Detroit, Mich.	—6559 Hamilton Ave.
WKBB	ak	100	(.25)	E. Dubuque, Ill.	—Sanders Brothers, Hotel Julian
WKBY	ak	100	(.25)	Richmond, Ind.	—Knox Radio Corp., Box 308
WKBY	ak	100	(.25)	Muskegon, Mich.	—Karl L. Ashbacher, Occidental Hotel
WKEU	ak	100	D	Griffin, Ga.	—Station WKEU, 906 Hill St.
WMBQ	ae	100	1	Brooklyn, N. Y.	—Met. Brdcastg. 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
WOLC	z	100	DP	New London, Conn.	—Thames Brdcastg. Corp.
WOPI	ae	100	.....	Bristol, Tenn.	—Radiophone WOPI, 22nd & State
WRDW	ak	100	.....	Augusta, Ga.	—Augusta Brdcastg. Corp., 309 Eighth St.
WRGA	ak	100	(.25)	Rome, Ga.	—Rome Brdcastg. Corp., 10 Third Ave.
WSYB	ak	100	.....	Rutland, Vt.	—Philip Weiss Music Co., Box 328
WTMV	ak	100	.....	East St. Louis, Ill.	—Mississippi Valley Brdcastg. Co.
WWRL	ak	100	1 (.25)	Woodside, N. Y.	—41-30—58th St.
WWSW	ae	100	(.25)	Pittsburgh, Pa.	—Hotel Keystone

### 1510 keys. (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 keys. (196.0)

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

### 1550 keys. (193.4)

W2XR	z	1000	.....	Long Isl. City, N. Y.	—Interstate Brdcastg. Co., Inc.
W6XA1	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.

<b>Second Column Symbols</b>	k	Has no stamps.	networks.
a Verifies reception for return postage.	m	Verifies for 5c.	P Has construction permit only.
b Verifies only occasionally.	n	Weather or time only.	R National "Red" network.
c Does not verify.	z	No information available.	S Sunday only.
d Verification 10c; letter 25c.			Sy Synchronized.
e Sends Ekko stamp for 10c.		<b>Fourth Column Symbols</b>	X Has permit to increase power.
f Sends Ekko stamp for 5c.	B	National "Blue" network.	Y Has permit to change location.
g Sends Ekko stamp for postage.	C	Columbia network.	Z Has permit to change frequency.
h Sends own station stamp for 10c.	D	Day time only.	a-b-c. Small letters show stations using same transmitter.
i Sends own station stamp for 5c.	Dn	Day time with occasional evening hours.	1-2-3. Figures denote stations sharing time.
j Sends own station stamp for postage.	F	Canadian Radio Brdcastg. Commission.	..... No information.
	N	National "Red" and "Blue"	

## 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	Stocketon	Gainesville
Birmingham	Bakersfield	KGDM 1100 1000	WRUF 830 5000
WAPI 1140 5000 N	KERN 1370 100 C	KWG 1200 100 C	Jacksonville
WBCR 930 1000 C	W6XAI 1550 1000	Watsonville	WJAX 900 1000 N
WSGN 1310 100	Berkeley	KHUB 1310 250	WMBR 1370 100 C
Decatur	KRE 1370 100	<b>COLORADO</b>	Lakeland
WMFO 1370 100	Beverly Hills	Alamosa	WLAK 1310 100
Dothan	KMPK 710 500	KGIV 1420 100	Miami
WAGF 1370 250	Chico	Colorado Springs	WIOD 1300 1000 N
Gadsden	KHSL 950 250	KVOR 1270 1000 C	WQAM 560 1000 C
WJBW 1210 100	Del Monte	Denver	Orlando
WALA 1380 500 C	KDON 1210 100	KFEL 920 500	WDBQ 580 1000 C
Montgomery	El Centro	KLZ 560 1000 C	Pensacola
WSFA 1410 500 C	KXO 1500 100	KOA 830 50000 N	WGOA 1340 500 C
Selma	Eureka	KPOF 880 500	St. Augustine
WHBB 1500 100	KIEM 1450 500	KVOD 920 500	WFOY 1210 100
Sheffield	Fresno	Durango	St. Petersburg
WMSD 1420 100	KMJ 580 500 C	KIUP 1370 100	WSUN 620 1000 N
Tuscaloosa	Glendale	Grand Junction	Tallahassee
WJRD 1200 100	KIEV 850 250	KFXJ 1200 100	WTAL 1310 100
<b>ALASKA</b>	Hollywood	Greeley	Tampa
Anchorage	KFWB 950 1000	KFKA 880 500	WDAE 1220 1000 C
KFQD 780 250	KMTR 570 1000	Lamar	West Palm Beach
Juneau	KNX 1050 50000	KIDW 1420 100	WJNO 1200 100
KINY 1310 100	Long Beach	Pueblo	<b>GEORGIA</b>
Ketchikan	KFOX 1250 1000	KGHF 1320 500	Albany
KGBU 900 500	KGER 1360 1000	Sterling	WGPC 1420 100
<b>ARIZONA</b>	Los Angeles	KGEC 1200 100	Athens
Jerome	KECA 1430 1000 B	Bridgeport	WTFI 1450 500
KCRJ 1310 100	KEHE 780 500	WICC 600 500 C	Atlanta
Lowell	KFAC 1300 1000	Hartford	WATL 1370 100
KSUN 1200 100	KFI 640 50000 R	WDRG 1330 1000 C	WGST 890 1000 C
Phoenix	KFSG 1120 500	WTIC 1040 50000 R	WSB 740 50000 N
KOY 1390 500	KFVD 1000 250	WTHT 1200 100	Augusta
KTR 620 1000 N	KGFJ 1200 100	New Britain	WRDW 1500 100
Tucson	KHJ 900 1000 C	WNBC 1380 250	Columbus
KGAR 1370 100	KRKD 1120 500	New Haven	WRBL 1200 100
KVOA 1260 500	Merced	WELI 900 500	Griffin
Yuma	KYOS 1040 250	New London	WKEU 1500 100
KUMA 1420 100	Modesto	WNLC 1500 100	Macon
<b>ARKANSAS</b>	Oakland	Waterbury	WMAZ 1180 1000
Blytheville	KLS 1440 250	WATR 1190 100	Rome
KLCN 1290 100	KLX 880 1000	WIXBS 1530 1000	WRGA 1500 100
El Dorado	KROW 930 1000	<b>DELAWARE</b>	Savannah
KELD 1370 100	Pasadena	Wilmington	WTOC 1260 1000 C
Fayetteville	KPPC 1210 100	WDEL 1120 250	Thomasville
KUOA 1260 1000	Redding	WILM 1420 100	WPAX 1210 100
Fort Smith	KVCV 1200 100	<b>DISTRICT OF COLUMBIA</b>	Waycross
KFPW 1210 100	Sacramento	Washington	WAYX 1200 100
Hot Springs	KFBK 1490 5000 C	WJSV 1460 10000 C	<b>HAWAII</b>
KTHS 1060 10000 N	KROY 1310 100	WMAL 630 250 B	Hilo
Jonesboro	San Bernardino	WOL 1310 100	KHBC 1400 250
KBTM 1200 100	KFXM 1210 1000	WRC 950 500 R	Honolulu
Little Rock	San Diego	<b>FLORIDA</b>	KGMB 1320 1000 C
KARK 890 250	KFSJ 600 1000 B	Clearwater	KGU 750 2500 N
KGHI 1200 100	KGB 1330 1000 C	WFLA 620 1000 N	<b>IDAHO</b>
KLRA 1390 1000 C	San Francisco	Daytona Beach	Boise
Pine Bluff	KFRC 610 1000 C	WMFJ 1420 100	KIDO 1350 1000
KOTN 1500 100	KGGC 1420 100	Washingon	Idaho Falls
Texarkana	KGO 790 7500 B	WJAX 900 1000 N	KID 1320 500
KCMC 1420 100	KJBS 1070 500	WMBR 1370 1000 C	Lewiston
	KPO 680 50000 R	WDBQ 580 1000 C	KRLC 1420 100
	KSFO 560 1000	WFOY 1210 100	Nampa
	KYA 1230 1000 N	WGOA 1340 500 C	KFXD 1200 100
	San Jose	WTAH 1370 1000 C	Pocatello
	KQW 1010 1000	WTLN 1370 1000 C	KSEI 900 250
	San Luis Obispo	WTVZ 1370 1000 C	Twin Falls
	KVEC 1200 250	WVBC 1380 250	KTFI 1240 1000
	Santa Ana	WVOD 920 500	
	KVOE 1500 100		
	Santa Barbara		
	KDB 1500 100 C		







## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Enid</b> KCRC 1360 250</p> <p><b>Muskogee</b> KBIX 1500 100</p> <p><b>Norman</b> WNAD 1010 1000</p> <p><b>Oklahoma</b> KFXR 1310 100 KGFQ 1370 100 KOMA 1480 5000 C WKY 900 1000 N</p> <p><b>Ponca City</b> WBBZ 1200 100</p> <p><b>Shawnee</b> KGFF 1420 100</p> <p><b>Tulsa</b> KTUL 1400 500 C KVOO 1140 25000 N</p> <hr/> <p style="text-align: center;"><b>OREGON</b></p> <hr/> <p><b>Astoria</b> KAST 1370 100</p> <p><b>Corvallis</b> KOAC 550 1000</p> <p><b>Eugene</b> KORE 1420 100</p> <p><b>Klamath Falls</b> KFJI 1210 100</p> <p><b>Marshfield</b> KOOS 1390 250</p> <p><b>Medford</b> KMED 1310 100</p> <p><b>Portland</b> KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 N KFJR 1300 500 KGW 620 1000 R KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100</p> <p><b>Roseburg</b> KRNR 1500 100</p> <p><b>Salem</b> KSLM 1370 100</p> <hr/> <p style="text-align: center;"><b>PENNSYLVANIA</b></p> <hr/> <p><b>Allentown</b> WCBA 1440 500 WSAN 1440 500</p> <p><b>Altoona</b> WFBG 1310 100</p> <p><b>Easton</b> WEST 1200 100</p> <p><b>Erie</b> WLEU 1420 100</p> <p><b>Glenside</b> WIBG 970 100</p> <p><b>Greensburg</b> WHJB 620 250</p> <p><b>Grove City</b> WSAJ 1310 100</p> <p><b>Harrisburg</b> WHF 1430 500 C WKBO 1200 100</p> <p><b>Hazleton</b> WAZL 1420 100</p> <p><b>Johnstown</b> WJAC 1310 100</p> <p><b>Lancaster</b> WGAL 1500 100</p>	<p><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</p> <p><b>Pittsburgh</b> KDKA 980 50000 B KQV 1380 500 WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100</p> <p><b>Reading</b> WEU 830 1000 WRAW 1310 100</p> <p><b>Scranton</b> WGBI 880 500 WQAN 880 250</p> <p><b>Sunbury</b> WKOK 1210 100</p> <p><b>Wilkes-Barre</b> WBAX 1210 100 WBR 1310 100</p> <p><b>Williamsport</b> WRAC 1370 100</p> <p><b>York</b> WORK 1320 1000</p> <hr/> <p style="text-align: center;"><b>PUERTO RICO</b></p> <hr/> <p><b>Mayaguez</b> WPRA 1370 100</p> <p><b>Ponce</b> WPRF 1420 100</p> <p><b>San Juan</b> WKAQ 1240 1000 WNEL 1290 1000</p> <hr/> <p style="text-align: center;"><b>RHODE ISLAND</b></p> <hr/> <p><b>Newport</b> WNRI 1200 100</p> <p><b>Providence</b> WEAN 780 500 C WJAR 890 1000 R WPRO 630 250</p> <hr/> <p style="text-align: center;"><b>SOUTH CAROLINA</b></p> <hr/> <p><b>Anderson</b> WAIM 1200 100</p> <p><b>Charleston</b> WCSC 1360 500 N</p> <p><b>Columbia</b> WIS 560 1000 N</p> <p><b>Florence</b> WOLS 1200 100</p> <p><b>Greenville</b> WFBC 1300 1000 N</p> <p><b>Spartanburg</b> WSPA 920 1000</p> <hr/> <p style="text-align: center;"><b>SOUTH DAKOTA</b></p> <hr/> <p><b>Aberdeen</b> KABR 1420 100</p> <p><b>Brookings</b> KFDY 780 1000</p>	<p><b>Huron</b> KGDY 1340 250</p> <p><b>Pierre</b> KGFY 630 200</p> <p><b>Rapid City</b> KOBH 1370 100 WCAT 1200 100</p> <p><b>Sioux Falls</b> KSOO 1110 2500</p> <p><b>Vermillion</b> KUSD 890 500</p> <p><b>Watertown</b> KWTN 1210 100</p> <p><b>Yankton</b> WNAX 570 1000 C</p> <hr/> <p style="text-align: center;"><b>TENNESSEE</b></p> <hr/> <p><b>Bristol</b> WOPI 1500 100</p> <p><b>Chattanooga</b> WAPO 1420 100 WDOD 1280 1000 C</p> <p><b>Jackson</b> WTJS 1310 100</p> <p><b>Knoxville</b> WNOX 1010 1000 C WROL 1310 100</p> <p><b>Memphis</b> WHBO 1370 100 WMC 780 1000 N WNBR 1430 500 WREC 600 1000 C</p> <p><b>Nashville</b> WLAC 1470 5000 C WSM 650 50000 N</p> <p><b>Springfield</b> WSIX 1210 100</p> <hr/> <p style="text-align: center;"><b>TEXAS</b></p> <hr/> <p><b>Ablene</b> KRBC 1420 100</p> <p><b>Amarillo</b> KGNC 1410 1000</p> <p><b>Austin</b> KNOW 1500 100 C</p> <p><b>Benumont</b> KFDM 560 500</p> <p><b>Big Spring</b> KBST 1500 100</p> <p><b>Brady</b> KNEL 1500 100</p> <p><b>College Station</b> WTAW 1120 500</p> <p><b>Corpus Christi</b> KGFI 1500 100</p> <p><b>Dallas</b> KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500</p> <p><b>Dublin</b> KFPL 1310 100</p> <p><b>El Paso</b> KTEP 1500 100</p> <p><b>KTSM</b> 1310 100</p> <p><b>WDAH</b> 1310 100</p> <p><b>Fort Worth</b> KFJZ 1370 100 KTAT 1240 1000 WBAP 800 50000 N Galveston KLUF 1370 100</p>	<p><b>Houston</b> KPRC 920 1000 N KTRH 1290 1000 C KXY 1440 1000</p> <p><b>Kilgore</b> KOCA 1210 100</p> <p><b>Longview</b> KFRO 1370 100</p> <p><b>Lubbock</b> KFYO 1310 100</p> <p><b>Midland</b> KRLH 1420 100</p> <p><b>Palestine</b> KNET 1420 100</p> <p><b>Pampa</b> KPDN 1310 100</p> <p><b>Paris</b> KPLT 1500 100</p> <p><b>Pecos</b> KIUN 1420 100</p> <p><b>Port Arthur</b> KPAC 1260 500</p> <p><b>San Angelo</b> KGPL 1370 100</p> <p><b>San Antonio</b> KABC 1420 100 KMAC 1370 100 KONO 1370 100 KTSA 550 1000 C WQAI 1190 50000 N</p> <p><b>Sherman</b> KRRY 1310 100</p> <p><b>Temple</b> KTEM 1370 100</p> <p><b>Tyler</b> KGBK 1500 100</p> <p><b>Waco</b> WACO 1420 100 C</p> <p><b>Weslaco</b> KRGV 1260 500</p> <p><b>Wichita Falls</b> KGKO 570 250 C</p> <hr/> <p style="text-align: center;"><b>UTAH</b></p> <hr/> <p><b>Ogden</b> KLO 1490 500 N</p> <p><b>Price</b> KEUB 1420 100</p> <p><b>Salt Lake City</b> KDYL 1290 1000 N KSL 1130 50000 C KUTA 1500 100</p> <hr/> <p style="text-align: center;"><b>VERMONT</b></p> <hr/> <p><b>Burlington</b> WCAX 1200 100</p> <p><b>Rutland</b> WSYB 1500 100</p> <p><b>St. Albans</b> WQDM 1370 100</p> <p><b>Springfield</b> WNBX 1260 1000</p> <p><b>Waterbury</b> WDEV 550 500</p> <hr/> <p style="text-align: center;"><b>VIRGINIA</b></p> <hr/> <p><b>Arlington</b> NAA 690 1000</p> <p><b>Charlottesville</b> WCHV 1420 100</p>
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## 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> WGHN 1310 100</p> <p><b>Norfolk</b> WTAR 780 500 N</p> <p><b>Petersburg</b> WPHR 880 500</p> <p><b>Richmond</b> WBBL 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> KVOS 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> KPQ 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> WWVA 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> WBVY 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>Poynette</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> KWOY 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 CFGN 1030 10000 CJGJ 690 100 F</p> <p><b>Edmonton</b> CFRN 1260 100 F CJCA 730 1000 F CKUA 580 500</p> <p><b>Lethbridge</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 CKDZ 1010 100 CKFC 1410 50 CKMO 1410 100 F CKWX 1010 100 F CRCV 1100 1000 F</p> <p><b>Victoria</b> CFCT 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 1500 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> GHSJ 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> CFGO 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> CKGO 1010 100 F CRGO 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 CKCL 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>Chicoutimi</b> CRCS 950 100 F</p> <p><b>Hull</b> CKCH 1210 100 F</p> <p><b>Montmagny</b> VE9EK 1185 10</p> <p><b>Montreal</b> CFCF 600 400 N CHLP 1120 100 F CKAK 730 5000 C CRGM 910 5000 F</p> <p><b>New Carlisle</b> CHNC 960 1000 F</p> <p><b>Quebec</b> CHRC 580 100 F CKCV 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> CJGK 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>
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**NORTH AMERICAN B. C. STATIONS BY LOCATIONS**

<b>CENTRAL AMERICA</b>		
<b>COSTA RICA</b>		
Cartago		
TIFS	1441	7.5
TIGA	1014	30
San Jose		
TIEP	850	500
TIFA	1050	75
TIGH	1000	500
TIGPH	650	1000
TIRH	930	50
TIVCA	1225	.....
TIX	800	.....
<b>GUATEMALA</b>		
Guatemala City		
TGW	1210	10000
TGX	1400	250
<b>HONDURAS</b>		
Tegucigalpa		
IIRN	1340	100
<b>NICARAGUA</b>		
Managua		
YNLF	1275	20
YNOP	1230	100
YNVA	950	30
<b>PANAMA</b>		
Colon		
IIP50	1440	25
<b>EL SALVADOR</b>		
San Salvador		
RDN	680	500
<b>MEXICO</b>		
<b>AGUASCALIENTES</b>		
Aguascalientes		
XFA	1310	5
XFC	810	350
<b>CHIHUAHUA</b>		
Chihuahua		
XEFI	1440	250
Hidalgo		
XEAT	1210	50
Juarez		
XEFV	1210	100
XEF	980	100
XEJ	1020	1000
XEP	1160	500
<b>COAHUILA</b>		
Piedras Negras		
XELO	1110	10000
XEPN	590	50000

<b>Saltito</b>		
XEAS	1160	100
XELA	1240	50
XEOX	640	500
<b>Torreón</b>		
XETB	1310	125
<b>Villa Acuna</b>		
XERA	840	250000
<b>D. F.</b>		
Mexico City		
XEAI	1240	100
XEB	1030	10000
XEGW	1310	10
XEFA	1180	500
XEFO	940	5000
XEFZ	1370	100
XEK	990	100
XEL	1100	250
XEMX	1280	12
XEN	710	1000
XEW	890	50000
XEWZ	1150	100
XEXM	610	.....
XEYZ	780	10000
XFX	610	1000
<b>DURANGO</b>		
Durango		
XEE	1210	50
<b>GUANAJUATO</b>		
Guanajuato		
XEAX	1420	7
Leon		
XEKL	1240	500
<b>JALISCO</b>		
Guadalajara		
XEA	1060	500
XED	1155	2500
<b>LOWER CALIFORNIA</b>		
Agua Caliente		
XEBC	730	5000
Coronado Island		
XEMZ	820	.....
Ensenada		
XEG	1270	200
Mexicali		
XEAA	920	200
XEAO	560	250
Rosarito		
XEAQ	1090	1000
Tijuana		
XEAC	1240	250
XEC	1160	30
XEFL	1150	250
XEMO	860	5000
XEOK	700	250
XESL	1160	.....
<b>MICHOACAN</b>		
Morelia		
XEI	1370	125

<b>NUEVO LEON</b>		
Monterrey		
XEFB	1420	100
XEFJ	1230	100
XEH	1150	250
XET	690	500
XEX	1310	125
<b>PUEBLA</b>		
Puebla		
XETH	1210	100
<b>SAN LUIS POTOSI</b>		
San Luis Potosi		
XEZZ	1370	100
<b>SONORA</b>		
Hermosillo		
XEBH	930	500
Nogales		
XEAF	990	500
<b>TAMAULIPAS</b>		
Matamoros		
XEAM	750	7.5
Nuevo Laredo		
XEBK	1000	100
XEFE	1340	250
XENT	910	150000
Reynosa		
XEAW	960	50000
Tampico		
XEFW	1310	250
XES	990	250
<b>VERACRUZ</b>		
Cordoba		
XEAG	1310	10
Jalapa		
XFB	1270	250
XFD	1340	350
Veracruz		
XETF	1220	12
XEU	1010	250
<b>YUCATAN</b>		
Merida		
XEFC	560	100
XEME	1240	15
XEY	1000	10
XEZ	630	500
<b>WEST INDIES</b>		
<b>CUBA</b>		
Calbarien		
CMHD	1270	250
Camaguey		
CMJA	1010	50
CMJC	1390	150
CMJE	1220	50
CMJF	1150	200
CMJG	780	250
CMJK	1340	100
CMJL	1430	75
CMJX	830	.....

<b>Cardenas</b>		
CMGE	1370	150
Ciego de Avila		
CMJH	1360	100
CMJI	1130	50
CMJO	1180	50
Cienfuegos		
CMHJ	1160	100
CMHW	820	100
CMHX	760	200
Cruces		
CMHK	1330	250
Havana		
CMBC	640	150
CMBD	1170	150
CMBG	1140	200
CMBN	850	150
CMBS	770	150
CMBX	1070	500
CMBY	970	150
CMBZ	1000	150
CMCA	1350	250
CMCB	1230	150
CMCD	950	250
CMCF	810	600
CMCG	680	150
CMCJ	1110	500
CMCO	1200	150
CMCQ	1420	250
CMCR	1380	150
CMCU	1460	150
CMCW	750	150
CMCX	1500	150
CMCY	1030	1000
CMK	730	3000
CMOA	1440	150
CMOK	1470	150
CMOX	1320	200
CMQ	880	500
CMW	600	1400
CMX	920	1000
Holguin		
CMKF	1460	250
Manzanillo		
CMKM	1120	50
Matanzas		
CMGC	1400	100
CMGF	1120	150
CMGH	790	250
Pinar del Rio		
CMAB	1340	.....
Sagua la Grande		
CMHA	1070	50
Sancti Spiritus		
CMIB	1240	50
Santa Clara		
CMHI	1210	150
Santiago		
CMKC	1250	150
CMKD	1050	250
CMKR	1400	100
CMKW	1330	.....
CMKX	1190	75
<b>DOMINICAN REPUBLIC</b>		
San Pedro de Macoris		
IIH	1395	15
Trujillo		
IIJ	1195	15
HIX	800	700
HIZ	1370	10
<b>HAITI</b>		
Port-au-Prince		
IIHK	920	1000

## 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	
<b>CFCN</b> 1030	10000	<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	<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>CMBZ</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	<b>CMCD</b> 950	250
Prince Rupert, B. C.		Regina, Sask.		Havana, Cuba	
<b>CFQC</b> 840	1000	<b>CKCL</b> 580	100	<b>CMCF</b> 810	600
Saskatoon, Sask.		Toronto, Ont.		Havana, Cuba	
<b>CFRB</b> 690	10000	<b>CKCO</b> 1010	100	<b>CMGG</b> 680	150
Toronto, Ont.		Ottawa, Ont.		Havana, Cuba	
<b>CFRC</b> 1510	100	<b>CKCR</b> 1510	100	<b>CMGJ</b> 1110	500
Kingston, Ont.		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	
<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.		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	
<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.	
<b>CJAT</b> 910	1000	<b>CKPR</b> 730	100	<b>CMHB</b> 1240	50
Trail, B. C.		Fort William, Ont.		Sancti Spiritus, Cuba	
<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>CJ CJ</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	
<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 Camaguey, Cuba	50	<b>HIH</b> 1395 San Pedro de M., D. R.	15	<b>KEUB</b> 1420 Price, Utah	100
<b>CMJC</b> 1390 Camaguey, Cuba	150	<b>HIJ</b> 1195 Trujillo, D. R.	15	<b>KEX</b> 1180 Portland, Ore.	5000
<b>CMJE</b> 1220 Camaguey, Cuba	50	<b>HIX</b> 800 Trujillo, D. R.	700	<b>KFAB</b> 770 Lincoln, Neb.	10000
<b>CMJF</b> 1150 Camaguey, Cuba	200	<b>HIZ</b> 1370 Trujillo, D. R.	10	<b>KFAC</b> 1300 Los Angeles, Calif.	1000
<b>CMJH</b> 1360 Ciego de Avila, Cuba	100	<b>HP50</b> 1440 Colon, Panama	25	<b>KFBB</b> 1280 Great Falls, Mont.	1000
<b>CMJI</b> 1130 Ciego de Avila, Cuba		<b>HRN</b> 1340 Tegucigalpa, Hond.	100	<b>KFBI</b> 1050 Abilene, Kans.	5000
<b>CMJK</b> 780 Camaguey, Cuba	250	<b>KABC</b> 1420 San Antonio, Texas	100	<b>KFBK</b> 1490 Sacramento, Calif.	5000
<b>CMJL</b> 1340 Camaguey, Cuba	100	<b>KABR</b> 1420 Aberdeen, S. Dak.	100	<b>KFDM</b> 560 Beaumont, Texas	500
<b>CMJO</b> 1180 Ciego de Avila, Cuba	50	<b>KADA</b> 1200 Ada, Okla.	100	<b>KFDY</b> 780 Brookings, S. D.	1000
<b>CMJP</b> 1430 Camaguey, Cuba	75	<b>KALB</b> 1420 Alexandria, La.	100	<b>KFEL</b> 920 Denver, Colo.	500
<b>CMJX</b> 830 Camaguey, Cuba		<b>KALE</b> 1300 Portland, Ore.	500	<b>KFEQ</b> 680 St. Joseph, Mo.	2500
<b>CMK</b> 730 Havana, Cuba	3000	<b>KANS</b> 1210 Wichita, Kans.	100	<b>KFGQ</b> 1370 Boone, Iowa	100
<b>CMKC</b> 1250 Santiago, Cuba	150	<b>KARK</b> 890 Little Rock, Ark.	250	<b>KFH</b> 1300 Wichita, Kans.	1000
<b>CMKD</b> 1050 Santiago, Cuba	250	<b>KASA</b> 1210 Eik City, Okla.	100	<b>KFI</b> 640 Los Angeles, Calif.	50000
<b>CMKF</b> 1460 Holguin, Cuba	250	<b>KAST</b> 1370 Astoria, Ore.	100	<b>KFIO</b> 1120 Spokane, Wash.	100
<b>CMKM</b> 1120 Manzanillo, Cuba	50	<b>KBIX</b> 1500 Muskogee, Okla.	100	<b>KFIZ</b> 1420 Fond du Lac, Wis.	100
<b>CMKR</b> 1400 Santiago, Cuba	100	<b>KBPS</b> 1420 Portland, Ore.	100	<b>KFJB</b> 1200 Marshalltown, Iowa	100
<b>CMKW</b> 1330 Santiago, Cuba		<b>KBST</b> 1500 Big Spring, Texas	100	<b>KFJI</b> 1210 Klamath Falls, Ore.	100
<b>CMKX</b> 1190 Santiago, Cuba	75	<b>KBTM</b> 1200 Jonesboro, Ark.	100	<b>KFJM</b> 1370 Grand Forks, N. D.	100
<b>CMOA</b> 1440 Havana, Cuba	150	<b>KCMC</b> 1420 Texarkana, Ark.	100	<b>KFJR</b> 1300 Portland, Ore.	500
<b>CMOK</b> 1470 Havana, Cuba	150	<b>KCMO</b> 1370 Kansas City, Mo.	100	<b>KFJZ</b> 1370 Fort Worth, Texas	100
<b>CMOX</b> 1320 Havana, Cuba	200	<b>KCRC</b> 1360 Enid, Okla.	250	<b>KKFA</b> 880 Greeley, Colo.	500
<b>CMQ</b> 880 Havana, Cuba	500	<b>KCRJ</b> 1310 Jerome, Ariz.	100	<b>KFKU</b> 1220 Lawrence, Kans.	1000
<b>CMW</b> 600 Havana, Cuba	1400	<b>KDB</b> 1500 Santa Barbara, Calif.	100	<b>KFN</b> 890 Shenandoah, Iowa	500
<b>CMX</b> 920 Havana, Cuba	1000	<b>KDFN</b> 1440 Casper, Wyo.	500	<b>KFOR</b> 1210 Lincoln, Neb.	100
<b>CRCK</b> 1050 Quebec, Que.	1000	<b>KDKA</b> 980 Pittsburgh, Pa.	50000	<b>KFOX</b> 1250 Long Beach, Calif.	1000
<b>CRCM</b> 910 Montreal, Que.	5000	<b>KDLR</b> 1210 Devils Lake, N. D.	100	<b>KFPL</b> 1310 Dublin, Texas	100
<b>CRCO</b> 880 Ottawa, Ont.	1000	<b>KDNC</b> 1200 Lewistown, Mont.	100	<b>KFPW</b> 1210 Fort Smith, Ark.	100
<b>CRCS</b> 950 Chicoutimi, Que.	100	<b>KDON</b> 1210 Del Monte, Calif.	100	<b>KFPY</b> 890 Spokane, Wash.	1000
<b>CRCT</b> 840 Toronto, Ont.	5000	<b>KDYL</b> 1290 Salt Lake City, Utah	1000	<b>KFQD</b> 780 Anchorage, Alaska	250
<b>CRCV</b> 1100 Vancouver, B. C.	1000	<b>KECA</b> 1430 Los Angeles, Calif.	1000	<b>KFRC</b> 610 San Francisco, Calif.	1000
<b>CRCW</b> 600 Windsor, Ont.	500	<b>KEHE</b> 780 Los Angeles, Calif.	500	<b>KFRD</b> 1370 Longview, Texas	100
<b>FQN</b> 609 St. Pierre, Miq.	250	<b>KELD</b> 1370 El Dorado, Ark.	100	<b>KFRU</b> 630 Columbia, Mo.	500
<b>HHK</b> 920 Port-au-Prince, Haiti	1000	<b>KERN</b> 1370 Bakersfield, Calif.	100	<b>KFSO</b> 600 San Diego, Calif.	1000

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>KFUD</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	180
San Bernardino, Calif.		Tyler, Texas		Bytheville, 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.		Little Rock, Ark.	
<b>KGA</b> 1470	5000	<b>KGLO</b> 1210	100	<b>KLS</b> 1440	250
Spokane, Wash.		Mason City, Iowa		Oakland, Calif.	
<b>KGAR</b> 1370	100	<b>KGMB</b> 1320	1000	<b>KLUF</b> 1370	100
Tucson, Ariz.		Honolulu, T. H.		Galveston, Texas	
<b>KGB</b> 1330	1000	<b>KGNC</b> 1410	1000	<b>KLX</b> 880	2000
San Diego, Calif.		Amarillo, Texas		Oakland, Calif.	
<b>KGBU</b> 900	500	<b>KGNF</b> 1430	1000	<b>KLZ</b> 560	1000
Ketchikan, Alaska		North Platte, Neb.		Denver, Colo.	
<b>KGBX</b> 1230	500	<b>KGNO</b> 1340	250	<b>KMA</b> 930	1000
Springfield, Mo.		Dodge City, Kans.		Shenandoah, Iowa	
<b>KGCA</b> 1270	100	<b>KGO</b> 790	7500	<b>KMAC</b> 1370	100
Decorah, Iowa		San Francisco, Calif.		San Antonio, Texas	
<b>KGCU</b> 1240	250	<b>KGU</b> 750	2500	<b>KMBC</b> 950	1000
Mandan, N. D.		Honolulu, T. H.		Kansas City, Mo.	
<b>KGCX</b> 1310	100	<b>KGVO</b> 1260	1000	<b>KMED</b> 1310	100
Wolf Point, Mont.		Missoula, Mont.		Medford, Ore.	
<b>KGDE</b> 1200	100	<b>KGW</b> 620	1000	<b>KMJ</b> 580	500
Fergus Falls, Minn.		Portland, Ore.		Fresno, Calif.	
<b>KGDM</b> 1100	1000	<b>KGY</b> 1210	100	<b>KMLB</b> 1200	100
Stockton, Calif.		Olympia, Wash.		Monroe, La.	
<b>KGDY</b> 1340	250	<b>KHBC</b> 1400	250	<b>KMMM</b> 740	1000
Huron, S. D.		Hilo, T. H.		Clay Center, Neb.	
<b>KGEK</b> 1200	100	<b>KHJ</b> 900	1000	<b>KMO</b> 1330	250
Sterling, Colo.		Los Angeles, Calif.		Tacoma, Wash.	
<b>KGER</b> 1360	1000	<b>KHQ</b> 590	1000	<b>KMOX</b> 1090	50000
Long Beach, Calif.		Spokane, Wash.		St. Louis, Mo.	
<b>KGEZ</b> 1310	100	<b>KHSL</b> 950	250	<b>KMPC</b> 710	500
Kalspell, Mont.		Chico, Calif.		Beverly Hills, Calif.	
<b>KGFF</b> 1420	100	<b>KHUB</b> 1310	250	<b>KMTR</b> 570	1000
Shawnee, Okla.		Watsonville, Calif.		Hollywood, Calif.	
<b>KGFG</b> 1370	100	<b>KICA</b> 1370	100	<b>KNEL</b> 1500	100
Oklahoma City, Okla.		Clovis, N. M.		Brady, Texas	
<b>KGFI</b> 1500	100	<b>KID</b> 1320	500	<b>KNET</b> 1420	100
Corpus Christi, Texas		Idaho Falls, Idaho		Palestine, Texas	
<b>KGFJ</b> 1200	100	<b>KIDO</b> 1350	1000	<b>KNOW</b> 1500	100
Los Angeles, Calif.		Boise, Idaho		Austin, Texas	
<b>KGFK</b> 1500	100	<b>KIDW</b> 1420	100	<b>KNX</b> 1050	50000
Moorhead, Minn.		Lamar, Colo.		Hollywood, Calif.	
<b>KGFL</b> 1370	100	<b>KIEM</b> 1450	500	<b>KOA</b> 830	50000
Roswell, N. M.		Eureka, Calif.		Denver, Colo.	
<b>KGFW</b> 1310	100	<b>KIEV</b> 850	250	<b>KOAC</b> 550	1000
Kearney, Neb.		Glendale, Calif.		Corvallis, Ore.	
<b>KGFX</b> 630	200	<b>KINY</b> 1310	100	<b>KOB</b> 1180	10000
Pierre, S. D.		Juneau, Alaska		Albuquerque, N. M.	
<b>KGGC</b> 1420	100	<b>KIRO</b> 710	1000	<b>KOBH</b> 1370	100
San Francisco, Calif.		Seattle, Wash.		Rapid City, S. Dak.	
		<b>KIT</b> 1310	100	<b>KOCA</b> 1210	100
		Yakima, Wash.		Kilgore, Texas	
				<b>KOH</b> 1380	500
				Reno, Nev.	

NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KOIL</b> 1260 Counell Bluffs, Iowa	1000	<b>KROY</b> 1310 Sacramento, Calif.	100	<b>KVI</b> 570 Tacoma, Wash.	1000
<b>KOIN</b> 940 Portland, Ore.	1000	<b>KRRV</b> 1310 Sherman, Texas	100	<b>KVL</b> 1370 Seattle, Wash.	100
<b>KOL</b> 1270 Seattle, Wash.	1000	<b>KRSC</b> 1120 Seattle, Wash.	100	<b>KVOA</b> 1260 Tucson, Ariz.	500
<b>KOMA</b> 1480 Oklahoma City, Okla.	5000	<b>KSAC</b> 580 Manhattan, Kans.	500	<b>KVOD</b> 920 Denver, Colo.	500
<b>KOMO</b> 920 Seattle, Wash.	1000	<b>KSCJ</b> 1330 Sioux City, Iowa	1000	<b>KVOE</b> 1500 Santa Ana, Calif.	100
<b>KONO</b> 1370 San Antonio, Texas	100	<b>KSD</b> 550 St. Louis, Mo.	1000	<b>KVOL</b> 1310 Lafayette, La.	100
<b>KOOS</b> 1390 Marshfield, Ore.	250	<b>KSEI</b> 900 Pocatello, Idaho	250	<b>KVOO</b> 1140 Tulsa, Okla.	25000
<b>KORE</b> 1420 Eugene, Ore.	100	<b>KSFO</b> 560 San Francisco, Calif.	1000	<b>KVOR</b> 1270 Colorado Spgs., Colo.	1000
<b>KOTN</b> 1500 Pine Bluffs, Ark.	100	<b>KSL</b> 1130 Salt Lake City, Utah	50000	<b>KVOS</b> 1200 Bellingham, Wash.	100
<b>KOVC</b> 1500 Valley City, N. Dak.	100	<b>KSLM</b> 1370 Salem, Ore.	100	<b>KVSO</b> 1210 Ardmore, Okla.	100
<b>KOY</b> 1390 Phoenix, Ariz.	500	<b>KSO</b> 1430 Des Moines, Iowa	500	<b>KWBG</b> 1420 Hutchinson, Kans.	100
<b>KPAC</b> 1260 Port Arthur, Texas	500	<b>KSOO</b> 1110 Sioux Falls, S. D.	2500	<b>KWG</b> 1200 Stockton, Calif.	100
<b>KPDN</b> 1310 Pampa, Texas	100	<b>KSTP</b> 1460 St. Paul, Minn.	25000	<b>KWJJ</b> 1040 Portland, Ore.	500
<b>KPLC</b> 1500 Lake Charles, La.	100	<b>KSUN</b> 1200 Lowell, Ariz.	100	<b>KWK</b> 1350 St. Louis, Mo.	1000
<b>KPLT</b> 1500 Paris, Texas	100	<b>KTAR</b> 620 Phoenix, Ariz.	1000	<b>KWKH</b> 1100 Shreveport, La.	10000
<b>KPO</b> 680 San Francisco, Calif.	50000	<b>KTAT</b> 1240 Fort Worth, Texas	1000	<b>KWLC</b> 1270 Decorah, Iowa	100
<b>KPOF</b> 880 Denver, Colo.	500	<b>KTBS</b> 1450 Shreveport, La.	1000	<b>KWSC</b> 1220 Pulman, Wash.	1000
<b>KPPC</b> 1210 Pasadena, Calif.	100	<b>KTEM</b> 1370 Temple, Texas	100	<b>KWTN</b> 1210 Watertown, S. D.	100
<b>KPQ</b> 1500 Wenatchee, Wash.	100	<b>KTEP</b> 1500 El Paso, Texas	100	<b>KWTO</b> 560 Springfield, Mo.	5000
<b>KPRC</b> 920 Houston, Texas	1000	<b>KTFI</b> 1240 Twin Falls, Idaho	1000	<b>KWYO</b> 1370 Sheridan, Wyo.	100
<b>KQV</b> 1380 Pittsburgh, Pa.	500	<b>KTHS</b> 1060 Hot Springs, Ark.	10000	<b>KXA</b> 760 Seattle, Wash.	250
<b>KQW</b> 1010 San Jose, Calif.	1000	<b>KTRB</b> 740 Modesto, Calif.	250	<b>KXL</b> 1420 Portland, Ore.	100
<b>KRBC</b> 1420 Ablene, Texas	100	<b>KTRH</b> 1290 Houston, Texas	1000	<b>KXO</b> 1500 El Centro, Calif.	100
<b>KRE</b> 1370 Berkeley, Calif.	100	<b>KTSA</b> 550 San Antonio, Texas	1000	<b>KXRO</b> 1310 Aberdeen, Wash.	100
<b>KRGV</b> 1260 Weslaco, Texas	500	<b>KTSM</b> 1310 El Paso, Texas	100	<b>KXYZ</b> 1440 Houston, Texas	1000
<b>KRKD</b> 1120 Los Angeles, Calif.	500	<b>KTUL</b> 1400 Tulsa, Okla.	500	<b>KYA</b> 1230 San Francisco, Calif.	1000
<b>KRKO</b> 1370 Everett, Wash.	50	<b>KTW</b> 1220 Seattle, Wash.	1000	<b>KYOS</b> 1040 Merced, Calif.	250
<b>KRLC</b> 1420 Lewiston, Idaho	100	<b>KUJ</b> 1370 Walla Walla, Wash.	100	<b>KYW</b> 1020 Philadelphia, Pa.	10000
<b>KRLD</b> 1040 Dallas, Texas	10000	<b>KUMA</b> 1420 Yuma, Ariz.	100	<b>NAA</b> 690 Arlington, Va.	1000
<b>KRLH</b> 1420 Midland, Texas	100	<b>KUOA</b> 1260 Fayetteville, Ark.	1000	<b>RDN</b> 680 San Salvador, E. S.	500
<b>KRMD</b> 1310 Shreveport, La.	100	<b>KUSD</b> 890 Vermillion, S. D.	500	<b>TGW</b> 1210 Guatemala, Gua.	10000
<b>KRNR</b> 1500 Roseburg, Ore.	100	<b>KUTA</b> 1500 Salt Lake City, Utah	100	<b>TGX</b> 1400 Guatemala City	250
<b>KRNT</b> 1320 Des Moines, Iowa	500	<b>KVCV</b> 1200 Redding, Calif.	100	<b>TIEP</b> 850 San Jose, C. R.	500
<b>KROC</b> 1310 Rochester, Minn.	100	<b>KVEC</b> 1200 San Luis Obispo, Calif.	250		
<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	<b>WAVE</b> 940	1000	<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	<b>WCAU</b> 1170	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	<b>WBAP</b> 800	50000	<b>WCAZ</b> 1070	100
Montmagny, Que.		Fort Worth, Texas		Carthage, Ill.	
<b>VOAC</b> 1065	40	<b>WBAX</b> 1210	100	<b>WCBA</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	<b>WBMM</b> 770	50000	<b>WCBS</b> 1420	100
St. John's, Nfld.		Chicago, Ill.		Springfield, Ill.	
<b>VOWR</b> 681	500	<b>WBBR</b> 1300	1000	<b>WCCO</b> 810	50000
St. John's, Nfld.		Brooklyn, N. Y.		Minneapolis, Minn.	
<b>WAAB</b> 1410	500	<b>WBBZ</b> 1200	100	<b>WCFL</b> 970	5000
Boston, Mass.		Ponca City, Okla.		Chicago, Ill.	
<b>WAAF</b> 920	1000	<b>WBCM</b> 1410	500	<b>WCBS</b> 580	500
Chicago, Ill.		Bay City, Mich.		Charleston, W. Va.	
<b>WAAT</b> 940	500	<b>WBEN</b> 900	1000	<b>WCHV</b> 1420	100
Jersey City, N. J.		Buffalo, N. Y.		Charlottesville, Va.	
<b>WAAW</b> 660	500	<b>WBEO</b> 1310	100	<b>WCKY</b> 1490	5000
Omaha, Neb.		Marquette, Mich.		Covington, Ky.	
<b>WABC</b> 860	50000	<b>WBIG</b> 1440	500	<b>WCLO</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	<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>WCRR</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.	
<b>WAPI</b> 1140	5000	<b>WBT</b> 1080	50000	<b>WCSS</b> 940	1000
Birmingham, Ala.		Charlotte, N. C.		Portland, Me.	
<b>WAPQ</b> 1420	100	<b>WBTV</b> 1370	100	<b>WDAE</b> 1220	1000
Chattanooga, Tenn.		Danville, Va.		Tampa, Fla.	
<b>WARD</b> 1400	500	<b>WBZ</b> 990	50000	<b>WDAF</b> 610	1000
Brooklyn, N. Y.		Boston, Mass.		Kansas City, Mo.	
<b>WASH</b> 1270	500	<b>WBZA</b> 990	1000	<b>WDHJ</b> 1310	100
Grand Rapids, Mich.		Springfield, Mass.		El Paso, Texas	



## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WDAS</b> 1370	100	<b>WEXP</b> 1370	100	<b>WHAS</b> 820	50000
Philadelphia, Pa.		Clarksburg, W. Va.		Louisville, Ky.	
<b>WDAY</b> 940	1000	<b>WFAA</b> 800	50000	<b>WHAT</b> 1310	100
Fargo, N. D.		Dallas, Texas		Philadelphia, Pa.	
<b>WDBJ</b> 930	1000	<b>WFAB</b> 1300	1000	<b>WHAZ</b> 1300	500
Roanoke, Va.		New York, N. Y.		Troy, N. Y.	
<b>WBDO</b> 580	1000	<b>WFAM</b> 1200	100	<b>WHB</b> 860	1000
Orlando, Fla.		South Bend, Ind.		Kansas City, Mo.	
<b>WDEL</b> 1120	250	<b>WFAS</b> 1210	100	<b>WHBB</b> 1500	100
Wilmington, Del.		White Plains, N. Y.		Selma, Alabama	
<b>WDEV</b> 550	500	<b>WFBC</b> 1300	1000	<b>WHBC</b> 1200	100
Waterbury, Vt.		Greenville, S. C.		Canton, Ohio	
<b>WDGY</b> 1180	1000	<b>WFBG</b> 1310	100	<b>WHBF</b> 1210	100
Minneapolis, Minn.		Altoona, Pa.		Rock Island, Ill.	
<b>WDNC</b> 1500	100	<b>WFBL</b> 1360	1000	<b>WHBI</b> 1250	1000
Durham, N. C.		Syracuse, N. Y.		Newark, N. J.	
<b>WDDO</b> 1280	1000	<b>WFBM</b> 1230	1000	<b>WHBL</b> 1300	250
Chattanooga, Tenn.		Indianapolis, Ind.		Sheboygan, Wis.	
<b>WDRC</b> 1330	1000	<b>WFBR</b> 1270	500	<b>WHBQ</b> 1370	100
Hartford, Conn.		Baltimore, Md.		Memphis, Tenn.	
<b>WDSU</b> 1250	1000	<b>WFDF</b> 1310	100	<b>WHBS</b> 1210	100
New Orleans, La.		Flint, Mich.		Anderson, Ind.	
<b>WDVS</b> 1370	100	<b>WFEA</b> 1340	500	<b>WHBY</b> 1200	100
Champaign, Ill.		Manchester, N. H.		Green Bay, Wis.	
<b>WDZ</b> 1020	250	<b>WFIL</b> 560	1000	<b>WHDF</b> 1370	100
Tuscola, Ill.		Philadelphia, Pa.		Calumet, Mich.	
<b>WEAF</b> 660	50000	<b>WFLA</b> 620	1000	<b>WHDH</b> 830	1000
New York, N. Y.		Clearwater, Fla.		Boston, Mass.	
<b>WEAN</b> 780	500	<b>WFMD</b> 900	500	<b>WHDL</b> 1420	100
Providence, R. I.		Frederick, Md.		Olean, N. Y.	
<b>WEBC</b> 1290	1000	<b>WFOR</b> 1370	100	<b>WHEB</b> 740	250
Superior, Wis.		Hattiesburg, Miss.		Portsmouth, N. H.	
<b>WEBQ</b> 1210	100	<b>WFOY</b> 1210	100	<b>WHEC</b> 1430	500
Harrisburg, Ill.		St. Augustine, Fla.		Rochester, N. Y.	
<b>WEBR</b> 1310	100	<b>WGAL</b> 1500	100	<b>WHEF</b> 1500	100
Buffalo, N. Y.		Lancaster, Pa.		Kosciusko, Miss.	
<b>WEDC</b> 1210	100	<b>WGAR</b> 1450	500	<b>WHFC</b> 1420	100
Chicago, Ill.		Cleveland, Ohio		Cicero, Ill.	
<b>WEED</b> 1420	100	<b>WGBB</b> 1210	100	<b>WHIO</b> 1260	1000
Rocky Mount, N. C.		Freeport, N. Y.		Dayton, Ohio	
<b>WEEI</b> 590	1000	<b>WGBF</b> 630	500	<b>WHIS</b> 1410	500
Boston, Mass.		Evansville, Ind.		Bluefield, W. Va.	
<b>WEEU</b> 830	1000	<b>WGBI</b> 880	500	<b>WHJB</b> 620	250
Reading, Pa.		Scranton, Pa.		Greensburg, Pa.	
<b>WEGL</b> 1400	500	<b>WGCM</b> 1210	100	<b>WHK</b> 1390	1000
Brooklyn, N. Y.		Gulfport, Miss.		Cleveland, Ohio	
<b>WEHS</b> 1420	100	<b>WGES</b> 1360	500	<b>WHKC</b> 640	500
Cicero, Ill.		Chicago, Ill.		Columbus, Ohio	
<b>WELI</b> 900	500	<b>WGH</b> 1310	100	<b>WHLB</b> 1370	100
New Haven, Conn.		Newport News, Va.		Virginia, Minn.	
<b>WELL</b> 1420	100	<b>WGL</b> 1370	100	<b>WHN</b> 1010	1000
Battle Creek, Mich.		Fort Wayne, Ind.		New York, N. Y.	
<b>WEMP</b> 1310	100	<b>WGN</b> 720	50000	<b>WHO</b> 1000	50000
Milwaukee, Wis.		Chicago, Ill.		Des Moines, Iowa	
<b>WENR</b> 870	50000	<b>WGNV</b> 1210	100	<b>WHOM</b> 1450	250
Chicago, Ill.		Chester, N. Y.		Jersey City, N. J.	
<b>WEOA</b> 1370	100	<b>WGPC</b> 1420	100	<b>WHP</b> 1430	500
Evansville, Ind.		Albany, Ga.		Harrisburg, Pa.	
<b>WESG</b> 850	1000	<b>WGR</b> 550	1000	<b>WIBA</b> 1280	1000
Elmira, N. Y.		Buffalo, N. Y.		Madison, Wis.	
<b>WEST</b> 1200	100	<b>WGRC</b> 1370	250	<b>WIBG</b> 970	100
Easton, Pa.		New Albany, Ind.		Glenside, Pa.	
<b>WEVD</b> 1300	1000	<b>WGST</b> 890	1000	<b>WIBM</b> 1370	100
New York, N. Y.		Atlanta, Ga.		Jackson, Mich.	
<b>WEW</b> 760	1000	<b>WGY</b> 790	50000	<b>WBU</b> 1210	100
St. Louis, Mo.		Schenectady, N. Y.		Poynette, Wis.	
<b>WEXL</b> 1310	50	<b>WHA</b> 940	2500	<b>WIBW</b> 580	1000
Royal Oak, Mich.		Madison, Wis.		Topeka, Kans.	
		<b>WHAM</b> 1150	50000		
		Rochester, N. Y.			

NORTH AMERICAN B. C. STATIONS BY CALLS

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

## 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>WOAI</b> 1190 50000 San Antonio, Texas	<b>WRAC</b> 1370 100 Williamsport, Pa.	<b>WSPD</b> 1340 1000 Toledo, Ohio
<b>WOC</b> 1370 100 Davenport, Iowa	<b>WRAY</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>WRIN</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>WTAX</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	500	<b>XECW</b> 1310	10	<b>XERA</b> 840	250000
Trenton, N. J.		Mexico City, D. F.		Villa Acuna, Coah.	
<b>WTOC</b> 1260	1000	<b>XED</b> 1155	2500	<b>XES</b> 990	250
Savannah, Ga.		Guadalajara, Jal.		Tampico, Tams.	
<b>WTRC</b> 1310	100	<b>XEE</b> 1210	50	<b>XESL</b> 1160	....
Elkhart, Ind.		Durango, Dgo.		Tijuana, L. C.	
<b>WVFW</b> 1400	500	<b>XEF</b> 980	100	<b>XET</b> 690	500
Brooklyn, N. Y.		Juarez, Chih.		Monterrey, N. L.	
<b>WWAE</b> 1200	100	<b>XEFA</b> 1180	500	<b>XETB</b> 1310	125
Hammond, Ind.		Mexico City, D. F.		Torreon, Coah.	
<b>WWJ</b> 920	1000	<b>XEFB</b> 1420	100	<b>XETF</b> 1220	12
Detroit, Mich.		Monterrey, N. L.		Veracruz, Ver.	
<b>WWL</b> 850	10000	<b>XEFC</b> 560	100	<b>XETH</b> 1210	100
New Orleans, La.		Merida, Yuc.		Puebla, Pue.	
<b>WWNC</b> 570	1000	<b>XEFE</b> 1340	250	<b>XEU</b> 1010	250
Asheville, N. C.		Laredo, Tams.		Veracruz, Ver.	
<b>WWRL</b> 1500	100	<b>XEFI</b> 1440	250	<b>XEW</b> 890	50000
Woodside, N. Y.		Chihuahua, Chih.		Mexico City, D. F.	
<b>WWSW</b> 1500	100	<b>XEFJ</b> 1230	100	<b>XEWZ</b> 1150	100
Pittsburgh, Pa.		Monterrey, N. L.		Mexico City, D. F.	
<b>WWVA</b> 1160	5000	<b>XEFL</b> 1150	250	<b>XEX</b> 1310	125
Wheeling, W. Va.		Tijuana, L. C.		Monterrey, N. L.	
<b>WXYZ</b> 1240	1000	<b>XEFO</b> 940	5000	<b>XEXM</b> 610	....
Detroit, Mich.		Mexico City, D. F.		Mexico City, D. F.	
<b>W1XBS</b> 1530	1000	<b>XEFV</b> 1210	100	<b>XEY</b> 1000	10
Waterbury, Conn.		Juarez, Chih.		Merida, Yuc.	
<b>W2XR</b> 1550	1000	<b>XEFW</b> 1310	250	<b>XEYZ</b> 780	10000
Long Island City, N. Y.		Tampico, Tams.		Mexico City, D. F.	
<b>W6XAI</b> 1550	1000	<b>XEFZ</b> 1370	100	<b>XEZ</b> 630	500
Bakersfield, Calif.		Mexico City, D. F.		Merida, Yuc.	
<b>W9XBY</b> 1530	1000	<b>XEG</b> 1270	200	<b>XEZZ</b> 1370	100
Kansas City, Mo.		Ensenada, B. C.		San Luis Potosi, S. L. P.	
<b>XEA</b> 1060	500	<b>XEH</b> 1150	250	<b>XFA</b> 1310	5
Guadalajara, Jal.		Monterrey, N. L.		Aguascalientes, Ags.	
<b>XEAA</b> 920	200	<b>XEI</b> 1370	125	<b>XFB</b> 1270	250
Mexicali, B. C.		Morelia, Mich.		Jalapa, Ver.	
<b>XEAC</b> 1240	250	<b>XEJ</b> 1020	1000	<b>XFC</b> 810	350
Tijuana, L. C.		Juarez, Chih.		Aguascalientes, Ags.	
<b>XEAF</b> 990	500	<b>XEK</b> 990	100	<b>XFD</b> 1340	350
Nogales, Son.		Mexico City, D. F.		Jalapa, Ver.	
<b>XEAG</b> 1310	10	<b>XEKL</b> 1240	500	<b>XFO</b> 940	5000
Cordoba, Ver.		Leon, Guan.		Mexico City, D. F.	
<b>XEAI</b> 1240	100	<b>XEL</b> 1100	250	<b>XFX</b> 610	1000
Mexico City, D. F.		Mexico City, D. F.		Mexico City, D. F.	
<b>XEAM</b> 750	7.5	<b>XELA</b> 1240	50	<b>YNLF</b> 1275	20
Matamoros, Tams.		Saltillo, Coah.		Managua, Nicaragua	
<b>XEAO</b> 560	250	<b>XELO</b> 1110	10000	<b>YNOP</b> 1230	100
Mexicali, B. C.		Piedras Negras, Coah.		Managua, Nicaragua	
<b>XEAQ</b> 1090	1000	<b>XEME</b> 1240	15	<b>YNVA</b> 950	30
Rosarito, L. C.		Merida, Yuc.		Managua, Nicaragua	
<b>XEAS</b> 1160	100	<b>XEMO</b> 860	5000		
Saltillo, Coah.		Tijuana, L. C.			
<b>XEAT</b> 1210	50	<b>XEMX</b> 1280	12		
Hidalgo, Chih.		Mexico City, D. F.			
<b>XEAW</b> 960	50000	<b>XEMZ</b> 820	....		
Reynosa, Tams.		Coronado Isl., L. C.			
<b>XEAZ</b> 1420	7	<b>XEN</b> 710	1000		
Guajuato, Gto.		Mexico City, D. F.			
<b>XEB</b> 1030	10000	<b>XENT</b> 910	150000		
Mexico City, D. F.		Nuevo Laredo, Tams.			
<b>XEBC</b> 730	5000	<b>XEOK</b> 760	250		
Agua Caliente, L. C.		Tijuana, L. C.			
<b>XEBH</b> 930	500	<b>XEOX</b> 640	500		
Hermosillo, Sonora		Saltillo, Coah.			
<b>XEBK</b> 1000	100	<b>XEP</b> 1160	500		
Nuevo Laredo, Tams.		Juarez, Chih.			
<b>XEC</b> 1160	30	<b>XEPN</b> 590	50000		
Tijuana, L. C.		Piedras Negras, Coah.			

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									
W2XAF, San'tuy, 9.530																																																									
W2XE, Wayne, 6.120																																																									
W2XE, Wayne, 11.830																																																									
W2XE, Wayne, 15.270																																																									
W2XE, Wayne, 17.760																																																									
W3XAU, Phila., 6.060																																																									
W3XAU, Phila., 9.590																																																									
W4XB, Miami, 6.040																																																									
W4XB, Miami, 6.040																																																									
W8XAL, Cinch'ti, 6.060																																																									
W8XK, Pittsburgh, 6.140																																																									
W8XK, Pittsburgh, 11.870																																																									
W8XK, Pittsburgh, 15.210																																																									
W9XF, Chicago, 6.100																																																									
XEBT, Mexico Cy., 6.000																																																									
XEGR, Mexico Cy., 7.380																																																									
XEDQ, Guad'la., 9.520																																																									
XEVI, Mexico Cy., 5.980																																																									
YVQ, Maraca'y, 6.672																																																									
YV2RC, Caracas, 5.800																																																									
YV3RC, Caracas, 6.165																																																									
YV4RC, Caracas, 6.375																																																									
YV8RMO, Mar'bo, 5.850																																																									
YV6RV, Valencia, 6.520																																																									
YV10HSG, S. Crsb'l, 5.720																																																									
TPA4, Pontoise, 11.720																																																									
TPA3, Pontoise, 11.880																																																									

### Hints on Tuning the Short Waves

It has been noted that shortwave reception follows certain definite trends. Stations between 5 and 7 megacycles favor darkness between the transmitter and the receiver. Transmitters working between about 8 and 10 megacycles are best when the station is in a night-time area and the receiver in daylight, so tuners should try for Europeans in this band in the early evening and for Australians near dawn. Below 10 megacycles the difficulty in tuning increases; here the path of the transmission should be as nearly as possible completely in daylight.

At night tune for South America between 5 and 10 megs. Europeans are good in the early evening and some of the higher powered Europeans are good all night. In the early morning tune for Australia and Asia between 6 and 10 megs. During the daytime tune for Europe, Africa and South America below 10 megacycles.





	Eastern Time	
	A. M.	
OFCX, Montreal, 6.005		00:00
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		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, Davenport, 9.510		
GSD, Davenport, 11.750		
GSE, Davenport, 15.140		
GSG, Davenport, 17.790		
GSH, Davenport, 21.470		
GSO, Davenport, 15.180		
GSP, Davenport, 15.310		
HASB, Budapest, 15.370		
HVA, Vatican City, 15.120		
JVM, Nizaki, 10.740		
JVN, Nizaki, 10.660		
PHI, Hiltersum, 17.775		
RKI, Moscow, 15.140		
RNE, Moscow, 12.000		
RNE, Moscow, 12.000		
RVL6, Khabarovsk, 4.273		
TPA2, Paris, 15.260		
TPA3, Paris, 11.880		
TPA4, Paris, 11.790		
VK2NE, Sydney, 9.585		
VK3LR, Melbourne, 9.580		
VK3XE, Melbourne, 9.510		
VPD, Suva, 13.075		
W1XR, Mills, 9.570		
W2XAD, Southey, 15.330		
W2XE, Wayne, 21.520		
W8XK, Pittsburgh, 21.540		
W9XF, Chicago, 6.100		
YDA6, Bandung, 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.

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## 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 10:50 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
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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
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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
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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
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# 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, 1935  
 Assorted S. W. Information..May, 1935  
 A Tuned Antenna.....May, 1936  
 The Fading Problem.....May, 1936  
 A Good Pre-Selector.....June, 1936  
 Choosing an Aerial.....September, 1935

### 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:

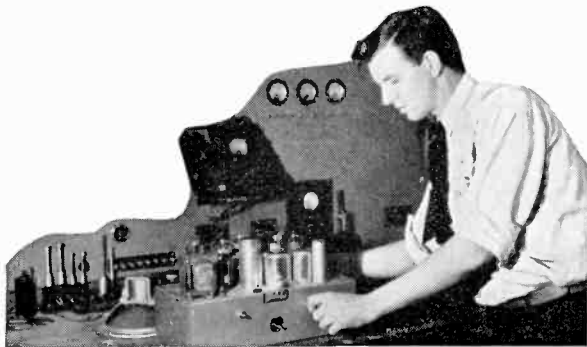
- Program "slates"     1 for 10c     2 for 15c     4 for 25c
- One Radio World Map and Time Converter ..... 25c
- One copy of the next RADEX ..... 25c
- One year's subscription to RADEX, 10 issues.....\$1.75
- Two years.....\$3.25     Three years.....\$4.75
- Beginner's Story of Radio ..... 35
- (If 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 all started. I was hard up because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees to make good money.

One day I picked up a magazine and an ad attracted me because it seemed to fit my case. It said, "I will train you to start a spare time or full time Radio service business of your own **WITHOUT CAPITAL.**"

"They're trying to kid somebody," I thought, "but I'll find out what it's all about."

I wrote in, and within a few days received a 64-page book telling about the opportunities in Radio; how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets. It would have sounded too good to be true if it had not been backed up by nearly 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream. I started to take their course, and soon I was ready to start making money in my neighborhood—as much as \$5 and \$15 a week. It wasn't long until I had saved enough money to start a full time business of my own.

That business in a surprisingly short time grew to the point where I am clearing over \$30 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for jobs in Broadcasting Stations, Radio Factories, Radio Jobbers and Dealers, Aviation Radio, Television, Short Wave Stations, Automobile, Police Radio, Loud Speaker Systems, and other branches of Radio.

### THINK IT OVER

Friend—you may not be as bad off as I was—but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next

ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

### TAKE MY TIP

Write for their book, "Rich Rewards in Radio." It won't cost you anything except a postage stamp. It shows you a lot of things which I don't believe you know now about Radio—a lot of facts and figures on the opportunities in this new, fast-growing field—where the jobs are, what they pay, how to get ready for them. Beginners as well as experienced men are making as much as \$500 to \$1,500 a year more as a result of N. R. I. Training. And at the same time they send the book "Rich Rewards in Radio," they'll send you, **without any cost or obligation, a Free Lesson**, to prove that their training is easy, practical, fascinating. The lesson they send, "Radio Receiver Troubles—Their Cause and Remedy," is valuable. And when you read this lesson, you'll know why so many fellows have mastered N. R. I. Training and are now making good money as Radio Experts.

You are not placing yourself under any obligation by writing for this material as they will gladly send it to anyone who is ambitious and wants to get ahead. Mail the coupon in an envelope or paste it on a 1c postcard. Just address Mr. J. E. Smith, President, National Radio Institute, Dept. 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 .....

14X1



# 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 voltages—as low as 80 volts. In addition, the Elektrik-Saver increases tube life, reduces strain on the set, eliminates repair bills and 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 MIDWEST uses less doubles the excitement. CURRENT THAN AN moment and joy of TODAY ORDINARY LIGHT BULB short wave tuning. 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!

**16 ADVANCED 1937 FEATURES**

This 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... while Automatic Aerial Adaptation triples the number of foreign stations that can be secured and... while you buy, write for the FREE 40-page four color 1937 MIDWEST uses less doubles the excitement. CURRENT THAN AN moment and joy of TODAY ORDINARY LIGHT BULB short wave tuning.



**\$49.95** COMPLETE WITH GIANT THEATRICAL-SOUND SPEAKER

**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.  
*Rubínoff*

Only MIDWEST gives you 16 TUBES 5 WAVE BANDS 9 to 2,200 METERS ELECTRIK-SAVER PUSH BUTTON TUNING AUTOMATIC AERIAL ADAPTION DUAL AUDIO PROGRAM EXPANDER 30 DAYS FREE TRIAL



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!



**MAIL COUPON TODAY for**

Free 30-DAY TRIAL OFFER WITH 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.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Town \_\_\_\_\_ State \_\_\_\_\_

**MIDWEST RADIO CORP.**  
DEPT. D-81 CINCINNATI, OHIO, U.S.A.  
Established 1920 Cable Address MIRACO... All Codes