

THE SEPTEMBER, 1935

RADIO INDEX

The All-wave DX Log of the World



25^c

30c in
Canada

The Radio Stations of the Whole
World Listed by Frequencies, by
Locations and by Call Letters

No. 91

The "Perfect" Method of Using Head Phones

The Perfect Phone Adapter is a small metal box which may be fastened in the back of or under the console where it will be readily accessible. It contains small jacks for holding the tips of the phones and a toggle switch for silencing the speaker. A short cable has adapters attached which are placed under the power tube or tubes. That is all there is to it. It may be installed in a moment's time—no tools required. For DX work the switch is thrown and the speaker silenced. If the hard-of-hearing desire to use the phones, the speaker may be silenced or not as desired. No phone-plug is necessary. The price of the Perfect Phone Adapter is \$3.95 postpaid. (In Ohio add 12c state tax)

The Perfect Distant Volume Control is a small potentiometer with a cord and phone-tips. When these tips are inserted into the Phone Adapter, it is possible to regulate the volume of the speaker from a distance of five feet. This distance may be increased by placing an extension cord ten feet long, between the Control and the Adapter. With this control you can turn the volume up or down or silence it altogether without leaving your chair. You can cut out the blurbs, turn up the music and turn down the talks. This control will double your enjoyment of your radio. Price of Control \$2.00; 10-foot extension cord and connector, 50c. (In Ohio add 3% for tax)

If desired the phones may be connected direct to the Volume Control. This permits them to be used at a distance of twenty feet from the set and the volume of the phones may be regulated without changing the controls on the set.

THE RADEX PRESS INC.

Conneaut, Ohio

SCOTT

THE YARDSTICK
BY WHICH *All* DX RECEPTION
RECORDS ARE MEASURED

HIGH Usable Sensitivity in the new SCOTT Receiver—means that short wave reception is now yours with volume enough to shake the floor—and with less extraneous noise!

SCOTT continuously variable selectivity—from 2 to 16 K.C.—means that now you cut right through powerful adjacent wave length stations and bring in new stations you have never heard before—from the most romantically remote continents of the globe!

Hardly a week passes but SCOTT DXers add new ports to the astounding unchallenged distance logs they have held for years as SCOTT owners.

SCOTT Full Range Hi-Fidelity reproduction—it means a new pinnacle of tonal brilliance not even approached by other high fidelity receivers! Only part of the overtones of violins, oboe, clarinet and human voice come through other receivers. With the SCOTT Full Range Hi-Fidelity Receiver, every singing overtone, every delicate shade of interpretation actually lives for you.

The SCOTT is custom made to the very highest precision standards. The laboratories are thus able to guarantee its perfect service to you for the unequalled period of five years (tubes excepted). Sold direct from the laboratories on a 30 day trial (in U.S.A. only). Send the coupon now—today—and we will gladly forward you, without obligation, complete details about the most thrilling DX receiver in the world.

HIGH USABLE SENSITIVITY
Lower ratio of noise to signal than any other receiver built today.

CONTINUOUSLY VARIABLE SELECTIVITY
Selectivity continuously variable from 2 to 16 K.C. Highest possible fidelity under all conditions.

TREMENDOUS RESERVE POWER
Six times average amplifier power. 35 watts strictly class "A" up to 50 watts class "A" prime.

SHORT WAVE STATION LOCATOR
Simply press button; when distant station is tuned in locator gives clear whistle. Release button; station comes in and whistle disappears.

FULL AUTOMATIC VOLUME CONTROL
Keeps station at predetermined volume; prevents distant signals from fading in and out. Efficient operation over 13 to 555 meters.

FULL RANGE HI-FIDELITY
Covers full tonal range of human ear; doubles that of any other receiver; 25 to 16,000 cycles.

SCOTT
Full Range Hi-Fidelity
RADIO

MAIL COUPON NOW FOR DETAILS

E. H. Scott Radio Laboratories, Inc.
4424 Ravenswood Ave., Dept. 15P5,
Chicago, Ill.

Send complete details of new SCOTT Receiver.

Name

Address

City

September 1, 1935



RADIO INDEX

Reg. U. S. Patent Office

FRED CLAYTON BUTLER
Editor and Publisher



B. FRANCIS DASHIELL
Technical Editor

PAGE TAYLOR
Short Wave Editor

TWELFTH YEAR

NUMBER 91

CONTENTS

Frontispiece—Edna Odell, "The Hoosier Songbird"
With the "Galaxy of Stars"

	PAGE
What the New Season Promises	3
Weak Links in the Radio Chain	5
Short Wave Gossip and Comment	11
In Spite of Summer's Static	16
What's on the Air Tonight?	25
Classified Index to Chain Programs	32
The Summer's Changes in Station Data	33
Foreign Broadcast Stations by Frequencies	34
" " " by Locations	39
" " " by Calls	43
The Federal Frequency Checks	45
Short Wave Stations by Frequencies	52
" " " by Locations	77
" " " by Calls	81
North American Broadcast Stations by Frequencies	84
" " " " by Locations	92
" " " " by Calls	97
Around the Clock on the Short Waves	110
Best S. W. Stations by Call Letters	111

\$2.00 Per Year

25c Per Copy

Foreign subscriptions 25c extra
excepting Canada and
Newfoundland

See Subscription Blank on Page 112

Published Monthly Excepting July and August

THE RADEX PRESS INC.

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

Editorial and Advertising Office: - - Conneaut, Ohio

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

Printed in the U. S. A.

What the New Season Promises

IT IS rather difficult to realize that another new season is just around the corner. It seems only last week that we were straining our ears during an unusually poor season of Australian reception. Yet the calendar shows that it will soon be time to dust off the headphones, brew some black coffee and start losing some sleep.

Needless to say, every DXer is hoping that the cooler months will bring some good reception. The chaps with modest logs will be trying for their first trans-oceanic catch, while the veteran globe-circlers will attempt to complete their roster of continents.

For many years, scientists have been prognosticating reception during the winter months. Each fall brought the announcement that the sun-spot cycle would favor long-distance reception and that radio would return to the level of the late twenties. Unfortunately, it seemed that all our hopes for real DX were drowned under a surge of static, noise and weak signals.

Therefore, it is interesting to note that *poor reception* is being predicted for the coming winter. According to one well-known astronomer, the current sun-spot cycle will create a new low in long-distance reception which will last for several years.

The "Why" of Sun-Spots

While much has been written about the effect of these cycles, the chances are that few DXers know just why and how the changing cycles affect radio reception. So, in our best McGuffey manner, we will attempt an explanation. It may be decidedly technical, so you can clear out now before the water gets too deep.

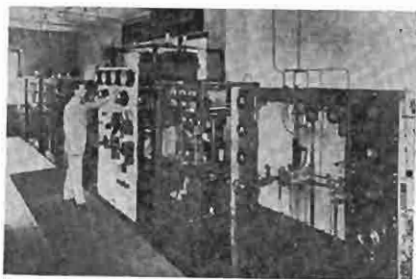
As most of us know, the earth is surrounded by an electrified shell,

an ionized layer of the atmosphere. Above the much-publicized stratosphere, we have the ionosphere. This consists of multitudes of molecules which have been split into positive and negative charges of electricity by radiations from away out in space.

The sun spots, which in reality are tropical hurricanes in the atmosphere of the sun, create an electromagnetic disturbance of tremendous proportions. The larger and more numerous the sun spots, the greater the radiation which hits the ionosphere. The greater the radiation, the more molecules are split up and the layer becomes thicker and lower.

Now, when the waves from a broadcasting station are created, they divide into two parts. The wave which travels along the ground for fifty miles or so is called the ground wave, while the wave which goes up is called the sky wave. When the sky wave hits the ionized layer above us, it reflects downward. If this reflecting ceiling is high, the sky waves come back to earth and the signal can be heard at a distance. If the reflecting ceiling is low, distant reception becomes very difficult to achieve.

Hence, when there are numerous



The 20,000 watt short wave transmitter, VK2ME, is situated at Radio Centre, Pennant Hills, Sydney, Australia. It was designed, manufactured and is operated by Amalgamated Wireless (A/sia) Ltd.

sun-spot disturbances, more molecules in the ionosphere are ionized and the layer settles down to a low ceiling. Such is the forecast for the next few years.

Different on Short Waves

Oddly enough, while the above is true for reception on the broadcast band, just the reverse is the case on short waves. On high-frequency transmissions, a high ceiling calls for poor reception while a low ceiling will result in good DX. Therefore, while the BC DXers are suffering, the short-wavers should be making hay.

Even if we cannot pull in Timbuctoo, there is one thing all DXers should remember in regard to even the local stations—and that is the sending of reports or thank-you cards whenever possible. Too often, a listener will verify a station early in his dialing and then forget about future broadcasts. To him, any additional special programs may be ignored with safety while he roams the air in search of new catches. This, of course, is decidedly unfair to the station and to the DXer who has yet to log the station.

Quite obviously, a station will soon lose interest in DX programs if the response fails to indicate that listeners appreciate the time and money expended on such a program. When a special may cost between fifty and one hundred dollars, a response of a handful of letters is hardly conducive to another program in the future.

Hence, it is largely up to the DXers how many stations will cooperate in the years to come. It takes only a few minutes to send off a card of thanks and the results should be more than justified.

Encouraging Reports

Last year, the National Radio Club sponsored a contest to stimulate reports on programs dedicated to their members. Points were awarded on a basis of verifications

received and thank-you cards mailed. In addition to the favorable reaction received by the stations, the prizes were quite worth-while.

During the coming season, the Newark News Radio Club will award five cash prizes to members verifying the most NNRC specials. In addition, certificates will be awarded to all members verifying 100 programs dedicated to the club.

It is hoped that other clubs and organizations will devise means of stimulating response on programs.

Letters continue to come in, in which the writers want to know why they have been unable to receive European stations. Judging from past reports, it seems certain that any DXer in the Eastern states, given an average receiver and location, should be able to hear a few of the more powerful transmitters. Consequently, it was a bit difficult to understand why so many DXers have drawn blanks in that direction.

Looking over a schedule of European programs the other day, a possible answer to the problem presented itself. With few exceptions, most DXers concentrate on Saturday nights for their dial-twirling. They may be able to drag themselves out of bed during the week for an hour or two of listening, but they generally "go to town" over the week-end.

What? No Europeans?

However, while it may be Saturday night over here, it is Sunday morning in Europe and most of the stations do not come on until an hour or two later than their weekday opening times. When they do come on, it is too late for their signals to reach this side of the Atlantic. Therefore, if we try for Europeans Sunday morning, we are bound to be disappointed.

Later on, when the season for trans-Atlantic reception is at hand, we will publish a schedule of the

(Continued on page 24)

WEAK LINKS in the RADIO CHAIN

● ● ● By the TECHNICAL EDITOR

FOR several years now this department has been attempting to diagnose at long range the radio troubles of its readers. It seems that every possible disorder and problem that can occur in the radio world has been brought to our attention. While there are times when we are literally swamped by inquiries, all are answered through these columns or by mail. Sometimes we are forced to seek definite information in the form of obscure circuits before an answer can be prepared. A reasonable delay, therefore, is likely to be experienced. The Editors of your magazine desire to be of assistance no matter what your problem may be, but sometimes the value of complicated, long-range opinions of radio troubles are questionable. Radio editors everywhere realize this to be a moot problem; some even go so far as to charge a substantial fee for certain answers in order to weed out inquiries from readers who are utterly unable to use any advice given.

Most radio troubles properly go back into the hands of the servicemen. Realizing this, the technical department of RADEX unhesitatingly advises its readers to go to a good serviceman whenever the repairs involved seem beyond the ability and instrumental equipment of the owner. On the other hand, your Editor understands that thousands of readers are thoroughly versed in radio and know their sets very well, and, therefore, the hundreds of intelligent inquiries received are given the careful consideration they deserve. But, if you know you cannot use any advice given, your time can be saved



From this building come the signals of HAL, HAS3 and HAT4. It is located in Szekefehervar, Hungary. The photograph is furnished by J. Muranyi, 27 N. Highland Ave., Akron, Ohio. The programs of these stations are eagerly sought by Americans of Hungarian origin.

and wasted effort on our part prevented, if you seek the services of some good, local radio repair specialist. In any case, however, you are welcome to write and tell us all about your radio troubles. There is no charge for the service. We simply ask that you state the facts clearly and concisely; always give the model number and year of the set in question, and print your name and address plainly. Use a separate sheet from other letters to this magazine.

Thermal Distortion

As we start the Fall season it is noted that an old problem is being experienced by Mr. V. Mararian of Attleboro, Mass. "I have a new model 805 Zenith receiver," complains Mr. Mararian. "When it is turned on it works fine with a clear tone for about five minutes. Then its tone suddenly becomes poor and distorted. I have noticed that the speaker field-coil and adjacent parts of the speaker become hot after a

short while and I wonder if this heating of the speaker coil is to blame."

Well, when this writer speaks of distortion he strikes right into a big subject. Naturally we think of many things that might happen. Distortion that appears shortly after the receiver has warmed up is, without question, caused by a thermal effect. Heat brings about expansion, as we all know. This stretching of a part, some place in the receiver, brings about a change in the value of a resistor or condenser. This changes the electrical potential of a circuit and distortion results. But where can the trouble be?

This is where your serviceman comes in, with his testing meters and practical experience. All the theory in the world cannot point to the exact resistor or condenser causing the trouble. There are many small resistors in this circuit, but it is wise to concentrate first on those that bias the control-grids of amplifying tubes, particularly in the audio circuit. Defective coupling condensers in the audio circuit also cause this trouble. All the resistors and bypass or coupling condensers should be checked or shunted one at a time by a good unit until the trouble is located.

Then there is the matter of tubes. A lack of AVC action or an excessive action may indicate the need of a new AVC tube. Gassy tubes elsewhere in the circuit may be at fault. All tubes must be carefully tested. The heat that causes this thermal distortion is created by the heat of the set itself—radiation from the tubes and transformer. Heating of the speaker field-magnet is not serious unless that heating is excessive. Considerable warmth appears in any metal that is subject to alternating currents and their associated magnetic fields. However, a test for a short-circuit should be made, checking on the resistance of the coil for

breaks. Distortion sometimes appears when the voice coil and diaphragm become uncentered.

Recording Reception

A reader, apparently wishing to provide unquestioned verification, desires to record his reception. "I have a Majestic model 102 receiver," writes Mr. Thomas B. Davis, Jr., of Washington, D. C. "I desire to couple the pickup of this receiver to the output in order to record. Can you tell me the impedance of the pickup and the output transformer? I have tried to secure this information from the manufacturers but have received no replies."

A pickup, in general, is a different device than a recorder. In the pickup the vibration of a magnetic needle, created by the roughness of the record track, sets up tiny, fluctuating electric currents in the pickup coil. These currents are amplified by a high-ratio pickup transformer and sent into the audio system of the set for amplification. Such a pickup, therefore, is unsuited for reverse action as its coils could not handle the powerful currents in the speaker which would be necessary to vibrate mechanically the needle and cut into the blank record. There are some pickups that will vibrate weakly, but whether they can cut into a blank is not known to us. The pickup of your set is of the induction coil type and may work slightly in reverse action. You can determine this by touching its leads to a 45-volt B battery and observing the action of the needle. If you attempt to use it on the output of your transformer shunt it across the voice-coil of the speaker, but with a 50,000-ohm variable resistance in series with the pickup.

Our suggestion is that you procure a regular recorder. Most of these recorders have a feed-screw drive that moves the head across the blank record, cutting the groove and recording at the same time. Such recorders, however, are rather ex-

pensive, listing at approximately forty dollars. The impedance of a recorder is usually about 15 ohms, while that of a pickup may range up to 7,500 ohms.

Light-Socket Speaker

Out in Melrose Park, Ill., Mr. A. F. Gehrke wishes to do a little experimenting. He asks, "I have a Jensen dynamic speaker of the six-volt type which I want to change into a light-socket type. Can you advise me how to make the change?"

Not knowing the use to which you wish to put the revamped speaker we can only advise you briefly. This speaker is designed to handle 6 volts of direct current only; to plug it into a 110-volt light socket as it is would be ruinous, of course. It could be rewired so that its field coil can handle 110 volts. This would require much wire of a very fine variety and lots of patience. At any rate, when alternating current from the light-socket passed through its coil the speaker is going to hum at a 60-cycle rate. Also, not knowing the wattage of the field coil or its resistance we cannot advise accurately, but you might try placing a 15-watt 110-volt light bulb in series with the speaker field coil and then plugging into the light socket. This will allow 15 watts to flow through the circuit. If more or less is required decrease or increase the wattage of the lamp used in the series circuit.

Parallel Power Tubes

"I would like to increase the power of my R.C.A. radio set," states John Patterson, of Ancon, Canal Zone. "Please tell me how to connect a second type 47 power tube to my present power tube. I read somewhere that by adding another tube in parallel the power can be increased."

We do not know where you read that the power can be increased by adding a second power tube in parallel; we feel certain it was not in

RADEX. If water is drained from a tank by one pipe the addition of another pipe will not increase the power or force of the water flowing from the outlet. But it will double the flow or amount of water. The same occurs when tubes are placed in parallel. The power or energy is not increased, but the flow of current, measured in milliamperes, will be doubled. Thus, this increased flow of current, which provides less cramping or resistance to the power output, will tend to reduce distortion and make clearer reception. You will not be able to get greater power or louder reception, but tone quality can be improved.

This effect is very noticeable when smaller tubes are used, such as battery types—30s and 99s, as well as the O1As and 27s. The heavier power tubes, such as 47s, 2A5s, etc., have sufficient current flow, and doubling up by parallel arrangement will have little effect on tone except at full power or volume.

Get a standard 5-contact socket and place it as close to the present 47 socket as possible. Do not detach any of the present connections from the 47 socket but run very short insulated wires from each of the five socket contacts to similar contacts on the new socket.

A Whimsical Set

The tribulations of Thomas J. Butler, Pleasant Plains, Ill., have been experienced by many. Radio sets can become as capricious as the well-known tooth that stops aching when the dentist's office is reached. Now, what can you do about a set that, as Mr. Butler writes, "got weak the second night after I bought it?" The receiver was an Atwater Kent, model 559. Mr. Butler remarks further, "After letting the set rest for a while it was all right. The serviceman could find nothing wrong, then some days later it got weak and went dead, and a second serviceman could find nothing wrong with it. All parts tested

perfect and when the set came home the second time it was excellent in its action. Then it again went dead, got all right the next day, and now it is dead once more."

The problem of intermittent reception of the kind that worries this writer should be well-known to every serviceman. When the set is working there is nothing at all that can be found defective about it. And trouble of this kind does not mean that the set is a poor one. The defect, when located, probably will be found in one little unit or poor contact. The remedy then is simple and quickly applied.

After the set is turned on a short time it naturally warms up. Heat causes expansion and some tiny unit, such as a resistor or bypass condenser, becomes defective under this condition. After the set is turned off and cooled down the defective part returns to normal position and the set starts up as good as ever. And the defect will not show every time the set is turned on because the part causing the trouble does not repeat its cycle of failure at regular intervals.

There is only one real cure by the serviceman when the set is working well and testing devices will not locate the trouble, and that is to replace all small resistors and condensers. When trouble is experienced, the substitution test, that is, connecting a good resistor across each suspected resistor, will reveal the location of the open circuit or short circuit, whichever it may be. This is one of the most stubborn forms of radio-set trouble and it may take a long while to find the actual seat of annoyance.

Space Winding

Among the many readers of RADEX who have built the short-wave converter described in the May and June issues of 1933, is Mr. G. A. Hamilton of DeLand, Fla. He asks, "Your article specifies both No. 26 and No. 28 wire for winding the plug-

in coils. Which size shall I use? Also, are the coils space wound, and if so, how much space between turns?"

We have been answering inquiries for two years advising that No. 26 wire is the size to use, and putting the blame on the poor, long-suffering printer. Space winding is not necessary, but on the short waves, below 80 meters, there is some benefit. Wind on a length of hard linen thread, a little larger than the wire, as the wire is wound on the form. After the wire has been made secure, remove the string and the wire will be found to be evenly spaced. Larger wire may be used, if easier to wind this way. No. 22 or No. 24 can be used on the very short-wave coils. The shorter the wave lengths to be covered, the larger the wire commonly used.

Telephone Resistance

The resistances quoted by different radio headset manufacturers puzzles William B. Brown of Washington, D. C. "Please give the meaning of earphones having resistances like, Brandes—2,000 ohms; Frost—3,000 ohms; Baldwin—4,000 ohms; and also a new one of 24,000 ohms," begs Mr. Brown, who suggests that the 24,000-ohm rating given the new phone set may be in error and mean 2,400 ohms instead.

Resistance measured in ohms does not always indicate a good telephone receiver. A phone magnet could be wound with a very fine wire of special high-resistance qualities so as to get a great resistance in a few turns and thus save wire, time and labor costs. The number of turns wrapped around the magnet core with as little resistance as possible indicates the efficiency of the phone. These turns are known as ampere-turns, and many turns carrying a high current create a stronger magnetic field and more powerful action of the diaphragm.

When a great length of fine wire is measured for resistance it will be

found to oppose the flow of current (amperes) by a great many ohms. Thus, the thousands of turns of fine wire (No. 40 and smaller) wrapped around the two poles of a telephone will soon measure up to 2,000 ohms resistance against the flow of a direct current. But its resistance to the flow of an alternating current, or a rapidly fluctuating and pulsating current, is much higher. This then, no longer is known as resistance due to the size and length of wire, but becomes impedance, due to the number of turns and frequency of the pulsations of current passing through. So, if a telephone having a normal d.c. resistance of 2,000 ohms, is measured for its impedance against an alternating or pulsating plate current of a certain frequency, it may be found to have 20,000 or more ohms. If you investigate further you will likely find that the 24,000-ohm headsets you mention show a 24,000 ohms impedance and not d.c. resistance. High impedance phones are very good for DX work for they respond to very weak currents and cover all the audio frequencies. Direct-current resistance alone is not always a measure of good phones, but from 2,000 to 3,000 ohms has been accepted as a standard.

All-Wave Antenna

The antenna question has been given careful consideration by Mr. L. J. Borstelmann, Greensburg, Pa. Among some things complimentary to RADEX Mr. Borstelmann states, "My 7-tube Airline receiver is located in the corner of the second floor of my home. Apparently the only available location for an antenna is to attach it to the next house. An antenna between the top of that house and my own would be 39 feet in length and 33 feet above the ground. Another antenna, stretched lower down, between houses, could be made 42 feet long but only 23 feet high. Can I bring the leadin around the electric light wires, the cornice of the house to the other



In this picture we have a view of the transmitting building and antenna system of CR6AA. The building is beautiful and the equipment modern.

side? Also, what about a lightning arrester?"

It appears to us that the length between tops of the two houses, 39 feet in all, is satisfactory for an all-wave antenna. It will cut down the total length of wire advocated by some makers, but you should experience little signal loss on that account. While there are a number of excellent all-wave antennas now on the market, and it is difficult for us to recommend any particular make, we believe that the General Electric antenna system perhaps adapts itself to your specific situation because of its dropped "V" center which permits of a longer length of antenna being stretched between two points. The leadin of this or any all-wave antenna can be carried in all directions and the length of wire, or transmission line, does not matter—several hundred feet being permissible. A lightning arrester is always advisable. Simple directions accompany that device which can be procured from any local radio supply house. The G-E "V-Doublet" antenna was described in the May, 1935, issue of RADEX.

Short Waves On DeForest

"I have a very good five-tube DeForest reflex loop set," writes Mr. William Edwards of Chicago, Ill. "There are two plugin, four-prong coils used in the circuit for use on

the broadcast band. Is it possible to substitute coils for these so as to get the short waves as discussed in your article in the June, 1935 issue?"

We wish that all the old, broadcast sets still in use could be rebuilt so short waves can be tuned in. But so many of the old circuits had strange peculiarities that no one can revise them without redesigning and rebuilding. The DeForest happens to be one of these unusual circuits. However, if you wish to experiment, which can do no harm to the set since you will simply make a new set of plugin coils, here is what we suggest. Get a new plugin form with prongs similar to the ones now being used. Also, some wire of the same size and insulation.

We believe, in this set, that one coil on the form is connected between the plate and B90-volts of the first tube, and that the second coil on the same form is connected between the plate of the second, or detector, tube, and the P of the primary of the first audio transformer. This method of tuning is not well adapted to the short waves. However, if you wind a new coil, similar to the one in use, but having only one-half as much wire on it, maintain the present proportions existing between the two coils. It may be necessary to vary the number of turns of wire, making them greater or less, in order to tune in some of the nearby short-wave stations.

Constant Hum

A real grievance is uttered by Mr. Murray Wilson who lives up in Port Arthur, Ont. It deals with annoying, constant hum in his Sonora, model 80 radio set. "A bad hum is present in the set as soon as the switch is turned on," he advises. "Tuning different stations has no effect on it. The tubes have all been tested. A high tension power line passes the front of my home, but when the antenna and ground are disconnected, the hum persists."

Mr. Wilson fails to advise us whether this hum has recently appeared or if it has always been noticed. If the hum is something new and was not noticed when the set first was obtained, although the power wires were there, that fact would eliminate the induction from the wires. We think hum from the power line to be a remote possibility, however, and feel that the trouble should be looked for within the receiver.

Constant hum never seems associated with signals or volume control. It persists all the time. Usually its source will be found in the second



This modern ten-kilowatt transmitter of "Radio Maroc" may be heard on 23.3 and 37.3 meters. It is located at Kabat, Morocco, North Africa.

detector in a superheterodyne, or the audio circuit or power supply. Also, look to faulty tubes, defective plate or grid resistors, faulty coupling condensers, failure of some circuit to furnish proper voltages, such as a defective voltage-divider resistance. In the power unit it is likely that a bad filter condenser or leaking choke coil or old rectifier tube is the cause. First test the parts of the power supply for proper values. The signal circuit may then be tested from the speaker back to the detector by use of headphones touched to the plate output of each stage. When a stage is reached where no hum is heard the rest can be eliminated. Then individual tests of the parts of the stage causing the hum will soon show up the defective part.

SHORT WAVE Gossip and Comment

••• By PAGE TAYLOR

THE increased demand for complete and accurate short-wave station information has made it essential that a revised and more complete listing be offered readers of this magazine. Heretofore the shortwave stations were listed but four times a year in *The DX Log of the World*, but on combining the DX Log with RADEX it is now possible to list these stations completely every other month. Comments and suggestions on the new log were invited from readers and as a result several valuable suggestions and many helpful bits of information were received. Most of this information has been incorporated in the new lists and the Editors respectfully submit the new listings for the approval of s.w. fans everywhere. Our heartiest thanks are extended to everyone who aided in this compilation.

Although the Editors have conscientiously tried to avoid error in the indices, it is possible, due to conflicting sources of information, that errors have crept in. Readers are urged to advise us of any discrepancies noted.

The Passing Season

The summer has not been a very active one, shortwavely speaking. Old stations have continued to come through with fair regularity and just a few new stations have been heard. One of the best of the new stations is COCD, and the most interesting, VPD.

COCD, "La Voz del Aire," Vedado, Havana, Cuba, works somewhat irregularly in the evenings, on 6.130 megs. (48.91 meters). This station relays the programs of CMCD from the Palace Hotel and is heard

most regularly between 2200 and 2400 (10 pm and midnight). Announcements are nearly always in Spanish, English being used only once in a while. Four chimes precede the announcements, as a rule, and Ted Lewis' familiar "Good Night Song" closes the programs at midnight. We understand this station desires and acknowledges reports of reception.

One of the most desirable stations, from a DX point of view, is VPD at Suva in the Fiji Islands. As previously reported in RADEX, VPD works on 13.045 megs. or 22.98 meters from 0030 to 0130 EST daily except Sunday. Programs from Suva consist of news bulletins and phonograph recordings, and the programs close with "God Save the King." This station has been reported by many listeners in this country. Reports should be addressed to Amalgamated Wireless, (A/sia), Ltd., Suva, Fiji.

The 24-Hour Clock

Some readers may not understand our new method of recording time so a few remarks anent the 24-hour clock may not be amiss. Midnight is indicated either by 0000 or 2400; noon is always 1200. Morning hours are written as usual, except the colon is omitted. Thus, the schedule for VPD given in the paragraph above (0030-0130) means 12:30 am to 1:30 am. Afternoon hours do not commence over again at 1 pm, but continue up to 2400 for midnight. Thus, 1 pm is 1300, 2 pm is 1400, etc. Any number less than 1200 (noon) is am and any number greater than 1200 is pm; to convert pm hours to standard hours, subtract

1200. . . 1900 minus 1200 gives 7:00 pm.

Abbreviations, which are oftentimes confusing, have been avoided as much as possible in our indices, but the necessity of conserving space demanded the use of a few. One of these is N. E. I., which means Netherland East Indies (formerly Dutch East Indies). RCA is the Radio Corporation of America; A. T. & T. is the American Telephone and Telegraph Co.; NBC, The National Broadcasting Co.; CBS, The Columbia Broadcasting System, and T. H. stands for the Territory of Hawaii.

Some South Americans

Mr. Wm. H. Reeks advises us that Station HJ1ABE, "La Voz de los Laboratorios Fuentes" at Cartagena, Colombia, is now dedicating special programs to Australia on Sunday mornings at 0400 (4:00 am EST or 0900 GMT), these programs having been inaugurated last July. Reports on these transmissions are invited by the station owner, Sr. Antonio Fuentes L., who can be addressed at Apartado 31, Cartagena. This 100-watt station has a large audience in the Americas and it is hoped Mr. Fuentes will find many new listeners in the Antipodes by means of these special tests.

"This is to inform you that HCJB is now transmitting on a new wavelength of 36.5 meters (8.214 meg.)," writes Mr. Clarence W. Jones, Director of the station. "We are on the air each evening of the week except Mondays from 7 to 11 pm (1900-2300). Sundays we broadcast from 4 until 10:30 pm (1600-2230). Quito time is 14 minutes slower than EST. HCJB gladly sends its verification card to all radio fans who prove reception of our program by a short log and who send an International Reply Coupon." HCJB is known as "La Voz de los Andes" and Mr. Jones can be addressed at Casilla 691, Quito, Ecuador.

In Mexico and Cuba

The only communication that this

magazine (or any magazine, as far as we know) ever received from the Trens News Agency follows: "Mr. Radio operator! Tune in on radiotelephone station XEBT, El Buen Tono, 50 meters (6.000 meg.), Mexico City, and hear every midnight, EST, Mexico's today's sport news today; 500 words press news report, by Trens wire news agency."

"There is another new shortwave station in Cuba which I received a few days ago, testing," postcards Ansel E. Gridley, Box 1294, Sarasota, Fla. "The call letters are CMHB and they work on about 10.3 meg. The address announced was Box 85, Sancti Spiritus. They come in here nicely, QSA5, R8-9 with good quality and modulation." It is believed that future broadcasts from this station will employ the call letters CO9RY.

A Floridan (above) reports on Cuba, and now a Cuban reports on Colombia; shortwaves make the world a pretty small place. Mr. R. Abella, la No. 11-E, La Sierra, Marianao, advises us by postal card of a station HKV operated by the Colombian Army and located in Bogota. "They work on 8795 kcs. and come in very strong here in Cuba," writes Sr. Abella. He adds that the best stations are in the U.S.A. and the Europeans are a long second.

Our list of Javanese and other Asiatic stations was compiled from lists sent in by Mr. J. V. McMinn of New Zealand, Mr. C. H. Mann, Karapiro, Cambridge, N. Zealand, and Mr. Wolff M. Henius of the M. S. "Tosari", whose address is c/o American Express Co., Esplanade Road, Bombay, British India.

"The past few weeks have been rather profitable to yours truly," says Joe Stokes, 7318 Woodlawn Ave., Swissvale, Pa., Broadcast band commentator on the KDKA DX Club. Mr. Stokes says he has become a 20-meter phone addict and submits an imposing list of foreign "hams" heard on 20 meters. He

lists as the most consistent of the lot, F8DR, G5BJ, -5NI, -6XR, LU6AP, HJ5ABE, VK2EP, VK3KX and HP1A.

Verifying Phones

"Some phone stations certainly seem aloof when it comes to verifying but there is at least one phone in the world that appreciates reports, and that is the Marconi Radio Telegraph Co. of Egypt," states Geo. W. Acker, 267 N. Lyman St., Wadsworth, Ohio. "They have promptly replied to every letter I have sent them. I haven't heard Budapest for several weeks now and probably will not until late summer as that is when the 19-meter Europeans really roll in during the morning." Mr. Acker's letter continues for three pages to describe his latest experiments with aeriels. He is, as we have mentioned before, our premier aerial experimenter; if readers are interested we will ask him to describe his antenna arrays in detail in a special story for this magazine.

Mr. J. H. Goldberg, operator and owner of several radio stations in Java, sends the following information on one of his stations, "Our station is still in operation but now on a wavelength of 102.39 meters, or 2.930 meg. and the transmission time is daily exc. Sundays) 8:30-11 am East-Java Time. Our correct call letters are YDO5; we do not use a slogan nor an identifying signal. YDO5 is situated in Sourabaya." The time given by Mr. Goldberg converted into Eastern Standard is: Daily Exc. Saturday from 1930 to 2200. Address reports to YDO5, C/O J. H. Goldberg, Sourabaya, Java, N.E.I.

A Good Report

"The 19-meter band has been marvelous this summer," submits G. H. Millican, 321 E. 24th Ave., Amarillo, Texas. "GSF, PCJ and sometimes HVJ come in swell after sunrise. W2XE and W2XAD have been good, especially the few extra programs transmitted by 2XAD. The

best band on the s.w. was, however, the 25-meter band. Boy! how those Europeans come in after 10:30: GSD, DJD, Pontoise. DJD has had an R7 signal right up until night-fall and sometimes later. HJ4ABA and CJRX have been fair. W1XAL of Boston has been using this band all summer on Tuesdays, Thursdays and Sundays. EAQ, 9.862 meg. has not been up to par all summer, being usually weak and noisy. On 31-meters signal strength varied; between 8 am and 3 pm signals were very poor, but the other sixteen hours of the day offered good variety as well as fair signals. DJN is easily the best station in this band, followed closely by CT1AA, 2RO, HP5J usually R5-6, PRF5. GSB was always a good signal while GSC was just fair. The VK's, 2ME, 3LR and 3ME were good, bad, and otherwise, depending upon the amount of dust in the air. Warm weather and dust storms wrought havoc between 32 and 51 meters. The new Daventry station GSL was heard poorly most of the time due to too much interference from YV2RC. CO9GC, Santiago de Cuba was heard often after midnight. HC2JSB, 7900 kcs. eliminated that terrific howl from his signals, but he plays right in the midst of plenty of amateur code. HJ2ABD, Bucaramanga, chose a poor spot, 5790 kcs. to do his broadcasting; Dominica and Guatemala were not heard."

Other Reports

"For the past month I have been playing the s.w. as well as the BCB and have been quite successful in logging 44 stations," contributes H. H. Searles, 251 Broadway, Rochester, N. Y. "I have already verified three, W2XE, I2RO and HJ3ABD. Others heard include VK3LR, PRF5, HJ2ABC, HJ4ABA, TIGPH, H1H, HCJB, CP5 and YV5RMO. I am using an RCA Victor 6-tube all-wave radio and am thoroughly satisfied with it."

"In a recent RADEX a Mr. Black

of Canon City, Colo. states that his state is not favorably located for reception of European s.w. stations. I have not found this to be the case," differs Henri T. Mershon, Corwin Hospital, Pueblo, Colo. "Listeners around here are hearing about everything that is worth hearing. England, France, Germany, Russia, Japan, Australia, Spain, Portugal, Belgium, Fiji, and many other countries have been logged at my listening post. I am using two receivers, an RCA 281 and an ACR 136 Communications receiver." Mr. Mershon was one of the first to hear VPD, Suva, and says they are still being heard frequently.

Geo. F. Yursik, 511 Old Orchard Road, Baltimore, Md., is one of the first persons to receive a verification from Bermuda. We are told that now reports on ZFD at St. George should be addressed to the Town Clerk, but Mr. Yursik's QSL came directly from the station and reads: "ZFD is located at St. George, Bermuda and operates on 10335 kcs. No regular schedule is in effect. ZFD uses an aerial input power of 2 KW and employs non-directional transmission. The transmitter, of British Marconi manufacture, is owned and operated by Cable and Wireless, Ltd., London. ZFD is controlled from the receiving and control station at Devonshire, 8 miles distant from St. George."

Noise Spoils S.W.

"I really cannot agree with RADEX that the s.w. are the Thrill Bands," complains A. E. Pringle, S. S. Tahchee, San Pedro, Calif. "I have had three radios and they all have the same fault, noise and static which spoils everything. I enjoy hearing good music but up to the present I have not had even one night in the last 8 months which was worth listening in on the s.w. My first set was a 6-tube Philco run from the Ship's dynamo but the noise from the engine was too much so I got an RCA 'Magic Brain' and

an AC-DC motor, but this gave no better results. Now I have a larger 'Magic Brain' and an RCA aerial, but still have noise. It is out of the question for me to hear good music." RADEX has a number of readers on ships and undoubtedly some of these shipboard DX'ers can advise Mr. Pringle how to get away from the usual ship noises. We still believe the s.w. are the Thrill Bands.

That Verification Question

Because of the fact a verification recently received by R. C. Messer, 107 Fillmore Ave., So. Portland, Me., did not contain the magic words "Reception positively verified," Mr. Messer feels that 8 hours' tuning spread over 6 nights, two letters and two coupons were wasted. We believe he does have a verification, however, as the card he has from HC2AT is the standard card always sent out by this station. It shows a picture of five monkeys in coconut trees, one of them holding a radio in his hand; volcanoes make up the background. The card reads: "HC2AT at last! Broadcasting daily on 35.7 meters or 8400 kcs. Box 872, Guayaquil, Ecuador. This station is owned by the American Trading Co., the largest importers of radios in Ecuador. Send us \$10.00 for a first class Panama Hat!"

Recent verifications received by A. C. Lyell, Box 4536, Johannesburg, South Africa, include XEBT, PRF5, PLV, YV3RC, COH, HI1A and HKE. "FZS, 25.02 m., was heard several times at R4 just after 8 pm," he writes. "OXY, 49.4, was also heard several times at R3-4 near midnight. PRA8, Pernambuco, Brazil, 47.6 m., comes in at R3/S/X at midnight."

More S.W. Comment

"I am using a 6-tube RCA Victor model 128. Several people have told me that reception is bad at this time of year but, while I haven't logged a lot of stations, those I have logged have come in well. At present I have a total of 49 with 10 ver-

ified. I have logged one station which must be new as it is not listed: COCD at Vedado, Havana, Cuba. The freq. is 6.130 megs. I would like to hear from any or all s.w. fans and will answer all letters." This letter and request is from J. G. Storms, Jr., 622 El Prado Way, W. Palm Beach, Fla.

"Recently I bought the latest and I'm told, the best thing in Victor radios, standard and shortwaves, Canadian make," explains Wm. Ward Spinks, 1354 Craigdarroch Road, some city in Canada. "The standard wave is splendid and so would be the s.w. but for the static. I have a Victor antenna, put up by an expert; it is fully fifty feet from the ground and our house is on a hill. On s.w. I have had Caracas several times, always clear and without noise. Japan just once. London once, very clear, but only once. Every other time there has been more noise than anything else. Paris is generally better than London, but not much better. Why do I get so much noise?"

The Icelander

Several usually reliable sources of information advise us that the new Icelandic stations at Reykjavik are about ready to commence their initial tests. These stations should be heard before the end of the year. Many reports of "reception" have already been seen but these reports cannot be used until the station has actually commenced operating.

"Here are a few items I hope will be of use to you when compiling your grand total of handy information," kindly submits Samuel A. Meyer, Jr., 83 Canterbury Road, Rochester, N. Y. "Manuel Mantilla O., Barranquilla, Colombia, HJ1ABF, 6.074 megs. Cesear y Mario Arango, Pereira, Colombia, HJ4ABC, 6.090 megs. Universidad de Narino, Popayan, Colombia, HJ5ABF, 8.215 megs." The rest of the information is in the indices.

"Reception here is really good



One of the treats those listeners hear who are able to tune in "Radio Maroc" is the native Arab orchestra. Here we see them in their native costumes.

and all the large English and German stations are to be heard roaring in every day," reports Maxwell Smith, Corner Brook, Bay of Islands, Newfoundland. "GSA, B, C, D, E, F, and at times the 49 meter GSL. DJB and DJD are heard without the slightest interference. I consider EAQ and HJ4ABE about the best of my catches."

Bill Bundlie, 614 N. 6th St., Grand Forks, N. D., reports good reception of the portable station W10XFN, located in the Stratosphere Bowl near Rapid City, S. D. "These summer days I pick up W8XK, CJRO, and all the other N. American stations easily. My set is a 3-tube home-made all-electric receiver."

"I have been DXing for about five months now on my new National FBX-A-7 and would appreciate hearing from other users of this type receiver," requests Thaddeus Grabek, 1921 Welch Ave., Niagara Falls, N. Y.

A Summary of Results

"On the s.w. my verifications number 104," summarizes Carl Forestieri, 2272 Bathgate Ave., New York, N. Y. "These veries represent 27 countries on 5 continents, as follows: Africa, 1; Asia, 3; Australia, 3; Europe, 33; South America, 29; Central America and West Indies,

(Continued on page 24)

In Spite of Summer's Static

● ● ● Reports from Our Readers

WITH the thermometer playing tag in the nineties and ball games from Chicago and Detroit lost in a maze of static, it is rather difficult to think about DX, much less brave a session with the earphones. Maybe in a month or two, but not now!

Yet S. R. Lewis, Rt. No. 3, Box 660, Toledo, Ohio, seems to have jumped the gun on the new season—and gotten away with it. "One night last week," he writes, "I couldn't sleep and went downstairs to twiddle a dial or two. By golly, if I didn't go and get me a couple of new ones—WPAR and KRNT. And then, the other night, doggone if I didn't snag another new one—WMFO, Decatur, Ala.—which I should have saved for next fall.

"With a belated veri from XEE standing out, my total is well over the 950 mark and I see 1000 in the offing. I still have some twenty foreign stations out for verification. Some are very delinquent, but at least ten should verify some day and I still have hopes. My oldest offenders are OAX and KZRM, whom I heard in 1932. Among the South Americans, LS5, LR4 and LR8 are 'on the cuff' for not verifying. One German, one Spaniard and one Italian are overdue in Europe. If the Italian comes through okay, I'll have that country completely verified. Guess that's one for the books.

"No really startling catches are in my batch of veries. I suppose EAJ41 is the best, with TIC and LV1 coming close. There are no Aussies of less than 500 watts power, although some lucky birds report 50-watters. Still and all, I often sit back and marvel at what can be accomplished with a decent radio, good aeriels and

grounds, and the old perseverance at the job."

Eric Butcher, Cokeville, Wyo., ran into difficulties when he moved to a new location. "At the present time," he bemoans, "I am in the shadow of a semi-circular hill some 600 feet high. The hill has a phosphate mine and, while I don't know how the mineral affects reception, something is surely playing tricks. Recently, I brought two sets up for experiment. Before leaving town, we tuned in eight stations; when we got up here, the only one we could hear was KSL, 300 miles away. KSEI, less than 200 miles distant, could not be heard at all. Guess I'll have to move. I would be especially glad to hear from BCB and SW foreign DX hounds in Wyoming, Nebraska, Colorado, Montana and the Dakotas. I have some news which may be of interest to them."

About Interference

"There are tenants in our building," protests William J. Wood, 817½ Lake St., Oak Park, Ill., "who enjoy running battery chargers at night. And, boy, does that spoil DXing! Isn't there some way to minimize this uncanny racket? Whoever runs these noise-makers at night should have his name published on a 'black list'."

However, just to show what can be done under decidedly adverse conditions, let's listen to Charles Hesterman, 2214 Herman Ave., Saskatoon, Sask. He writes: "I personally am cursed with endless interference caused by a high frequency rectifier, a multiple telegraph printer, a telegraph system and a variety of compressors—all located in the CNR yards which are less than five blocks from my home. Un-

fortunately, this noise continues day and night, seven days a week, with absolutely no let-up. Even so, I have managed to verify the following stations since October 1, 1934: JOAK-Q, JOAK-2, JOCK-1, JOCK-2, JOFK, JOGK, JOIK, JOJK, JOLK, JONK, JOOK, JOPK, JOQK, JOAG, JOCG, JODG, JOFG, JQAK, JOXK, 2BL, 2CO, 2FC, 2GB, 2HD, 2KO, 2SM, 2UE, 2UW, 2WL, 3AR, 3DB, 3HA, 3KZ, 3LO, 3TR, 3UZ, 4BC, 4BH, 4QG, 4RK, 4RO, 5CK, 5CL, 7UV, 7ZL, TGW, HHK, LR5, CPX, 1YA, 2YA, 3YA, OKB, OKP, HAL, YLZ, Cologne, Leipzig, Stuttgart, Fecamp, Monte Ceneri, Vienna, Bucharest, Budapest, SBA and Praha. Verifications from all of these stations have been passed by the I.D.A. contest examiners.

"Incidentally, as Praha also transmits on short waves, I asked them if this particular program had been broadcast by their high frequency transmitter as well. They answered very promptly and stated definitely that the program which I reported had been transmitted *only* by their medium-wave station. This point was introduced as one of the rules in the I.D.A. contest and serves as additional proof that a station has been heard only on the broadcast band."

"Down here in South Africa," reports A. C. Lyell, P. O. Box 4536, Johannesburg, "not a single U.S.A. station has been heard, even though the peak season has been at hand for some time past. I suppose this is due in part to the unsettled and stormy weather, not to mention the phenomenal dust storms.

"The Argentine stations continue to come in throughout the early morning hours, although quite a few of the medium-power transmitters have not been heard at all. Even the European BC stations have been erratic and, with the exception of Rome, which has been heard fairly regularly, only the more powerful ones have been picked up—and then only at about R3-4."



Here we have the antenna system of Union Radio, Madrid, Spain, together with a glimpse of the Spanish capital city.

The Moon Again

"Just out of curiosity," recalls A. V. Deterly, 125 East Blvd., Baton Rouge, La., "I have kept a record of reception conditions at different times of the month. After four months of observations, I found that reception was very good during the first and third quarters of the moon, fair during the second quarter and very poor during the fourth quarter."

"Though I have had my 7-tube Stromberg-Carlson table model just three weeks," preambles Evan S. Morrow, 2161 Ashland Ave., Detroit, Mich., "my log now totals 113 stations, ranging from KPO to WEAJ. My best so far is WSAR, Fall River, Mass. The other night, I heard announcements from KSTP, WJSV, WSAR and WSAJ within thirty seconds. An amazing thing is that I have difficulty in getting stations around 1270 to 1290 kcys. due to the volume of WCAM, Camden, N. J., while it is absolutely impossible to get WGN, Chicago, on some evenings."

"DXing in Texas is not as good as some places because of the short season," points out Bireley Ross, 2426 Alco, Dallas Texas. "However, despite the fact that we don't have much cold weather for DX, I have tuned in 1YA, 2BL, 4QG, 3YA, LR5, 5AD, YV1RC, TGW, 7ZL, XGOA, JOAK-1, JOCK-1, JOIK, JOJK, JOBK-2, JOJK, JOXK, 5CK, 2CO,

3LO, HHK and, of course, the Canadians, Cubans and Mexicans. I saw my first RADEX last November and, with its help, increased my log by 350 stations. The total is now 705, all verified. With the help of the DX LOG, I tuned in my first foreign station. I am a shut-in and my pastime is radio, so you can imagine my thrill at hearing my first TP."

More About Veries

"Since the publication of a letter from one of our members in the May, RADEX," precludes Harold J. Clark, Acting Secretary of the Plainfields' DX Club, 431 Watchung Ave., North Plainfield, N. J., "there has been considerable misunderstanding as to just what a verification really is. The dictionary states one single word: proof. In DXing, proof of reception of a radio station's program at a definite hour and day.

"Stations verify in many ways: (a) a positive verification giving the listener's time of reception; (b) a standard form letter which thanks the listener for the report. This last mentioned letter cannot be obtained unless a definite, accurate report has been given. In other words, just try to get this 'thank you' unless your report coincides with the station's log.

"Our club has gone on record as acknowledging this type of 'thank you' letter to be the only exception in verification contests."

Just how such a thank-you letter can constitute *proof* of reception is difficult to understand. And, as for such letters being sent out only when an accurate report has been submitted, Lorenzo Riggins, Jr., Stephenville, Texas, has a very timely reply. "In the spring of 1934," he recalls, "I wrote JOHK, inquiring if and when they announced in English, so that I might verify them. I gave no report whatsoever except to say that I had been hearing what I *thought* was their station in the early morning.

"Later, I received a card which read: 'Dear Sir: We thank you heartily for your earnest report. We are glad to know what part our programs are playing for the mutual friendship. We here wish you every happiness and your profounder investigations than ever. Yours truly, Sendai Broadcasting Station.'

"Last March, I wrote to XEW, requesting addresses of tourist bureaus in Mexico, adding that I often listened to their station and enjoyed their music. In a few days, I received a card as follows: 'We appreciate and thank you for your report dated March 7, 1935, and hope our concerts continue to be interesting to you. Come to Mexico, The Land of Eternal Spring. Cordially yours. XEW, The Voice of Latin America from Mexico.'"

"With reference to the discussion on verifications in the May issue of RADEX," avers William H. Ansell, 168 Wascana St., North, Regina, Sask. "I want to endorse your stand on the card sent out by XEWZ. Under no circumstances can this be termed a verie. The working—'We thank you for your report in which you tell us you heard our transmission'—condemns it as an official confirmation. It is just a thank-you card—no more, no less.

"They mentioned no date, they didn't state whether the report was correct or not and, finally, *the report is not verified*. These are the three things which a contest judge looks for before passing a verie in a DX contest. Even though the station may have intended this as a confirmation, it certainly cannot be classed as such.

"Here is an example of what I call a first-class verie: 'We were delighted to receive your letter of 23/1/25 reporting reception of our transmission of that date. Upon checking our log, we find your report is correct and we have much pleasure in verifying same.'

"There is absolutely no comparison between the two and I think all DXers will agree with me. Of course, not all veries are first-class, but they should state that a report on a transmission of a certain date is correct, verified, or words to that effect."

There seems to be little doubt as to what constitutes a verification. A majority of DXers agree that it affords proof of reception of some station and, as such, it is a welcome addition to any log. There are, naturally, many ways in which such proof may be given. A station may "confirm" or "verify" a report, or it may say that a report is "correct" or "checks with our log."

Unfortunately, many stations do not realize just what a DXer wants and their replies are sometimes most unsatisfactory. In such cases, it might be well to send the station a second report and enclose a return card on which a verification form has been written. This might read: "This will verify your reception of CKMC, Cobalt, Ont., at 2:43 AM, EST, on October 1, 1934. Signed, R. L. MacAdam, Owner," (The space for the signature being left vacant.) As a matter of fact, many DXers use this form or return card exclusively and, while their collection of station letterheads may not be very large, they usually have less grief getting replies of the right type.

Why He Doesn't Verify

Speaking of CKMC, an interesting item about this elusive station appeared in the CDXR bulletin of May 8th. Mahlon Moore, Kirkland Lake, Ont., reported: "In regard to CKMC, under no circumstances will the owner reply to any letter about his station. His reasons for this policy are quite in form under the circumstances. CKMC was a purely amateur station which he built for his own pleasure. However, on the completion of the station, the town of Cobalt requested that he give pro-

grams Sunday afternoons. At the time, short wave receivers were not as common as today and, of course, broadcast band reception during the day was impossible. The owner consented to this request on the condition that the town would help him in covering his operating expenses. With this idea in view, he spent in the neighborhood of \$5000.00 building the 'shack' and transmitter. The town gave him no help. After he had been on the air three times a week for a year, he asked the Town Council for help on his expenses. They 'raised Cain' because he solicited funds for his personal use over his own radio station. He is by no means a wealthy person and \$5000 was very nearly all he had at the time, so he now maintains the station on the condition that he use it only for his personal enjoyment."

"Recently I received a QSL card from JOBK," advises Eric Butcher, Cokeville, Wyo., "with the name of Carl Bryan on it. It is possible that he has mine by mistake and I'd like to swap with him. Anyhow, I'm sure he'd like to have his and I'll send it to him if he lets me know his address.

Steady Reception of Aussies

"Looking back on last season," recapitulates Raymond C. Corbett, 619 Twelfth St., Sacramento, Cal., "I find that I had a few good catches and brought my log up to 477 stations. The year was a very erratic one, with only a few good nights for DX. However, during those nights, I was able to hear WAGF, KQV, KLUF, WBIG, WKBV, WHEC, WJMS and CKBI. During March and the first of April, I enjoyed very steady reception from 1YA, 2YA and 3YA. Many of the Australian stations also were heard with great volume, but no consistency. This was the poorest season I have ever experienced for Japanese stations, as even some of the old stand-bys failed to come in.

A very creditable record is reported by George E. Bott, Hastings, New Zealand, who has just passed the two-hundred mark in verifications. He writes: "Reception has been very bad here for the past two weeks, with heavy static every night. However, I have been able to get reports off to CMQ, XELO, XHHG, XQHA, WOR, KGMB, and 2KO. Recent veries include KFBK, WIBW, CKAC, WCAE, WJR, 4AY, 5DN, 5KA and 2GF."

"I have a Silver Masterpiece III," boasts K. Albrecht, 241 Palm St., Hartford, Conn., "and think it the best on the market. I have had it six months and have logged 450 stations, of which 269 are verified. With the exception of LS2, I haven't had any luck with the foreigners. Next season, I hope to verify at least two Europeans and possibly even one T. P. I am 13 years of age and would like to correspond with any boys of my own age who are interested in foreign broadcast reception."

Henry J. Green, Jr., 3424 W. 67th St., Chicago, Ill., is a new convert to the Loyal Order of Midnight Marauders. DXing only since March, he submits a log which covers most of the better-known short-wave stations in the world. "I don't know if you can call this a good log for a beginner or not," he apologizes, "I haven't done much DX on the broadcast band so far, logging only 190 in four months, but I intend to go after it in a big way next season. I wonder if anyone could give me information on how to get stations in Asia and Africa."

SILENT DX'ER

Donald Weber, Secretary of the Plainfields' DX Club, drowned when a boat capsized during a Sea Scout cruise. To his family, RADEX extends its deepest sympathy.

"There are many queer things about radio," observes Clifford Drain, 617 Camden St., Parkersburg, W. Va. "For instance, while I have heard Frankfurt, Germany, about a dozen times and very well on some occasions, the more powerful stations were much harder to tune. I have heard Radio Normandie, 1456 keys, (now 1113 keys) as late as 3:50 A.M., E.S.T., and I am sure that it is broad daylight in France at that time. Trieste, Italy, (10 KW) has been heard on a few occasions and seemed to be as loud as the 50-KW Milan station. I can't explain it at all."

On Getting Veries

"As I am a lover of classical music," remarks Charles G. Patterson, Russellville, Tenn., "one of my chief thrills in listening to foreign stations is to recognize some favorite musical composition. Merely by mentioning that I heard a famous march at such a time on a certain date, I got my first verification from the old 2YA on 720. This is certainly the most simple way to get a verification, for it is far easier to hear and maybe identify a few bars of music than to attempt to copy down pages of talks, announcements and the like."

In this connection, if memory serves us right, the CDXR started a plan whereby stations would use only easily-recognized selections on DX specials. The members voted on the tunes with which they were familiar and the list was sent to stations DXing for the club. This was a meritorious idea, for just a few bars heard above a high noise level can mean the difference between a satisfactory verification and a wasted night at the dials.

"I am starting off the new season with a new radio," boasts Julian Schaefer, 2036 W. 83rd St., Cleveland, Ohio. "I have logged 620 different active stations on the BCB and have received 260 verifications

since January. My best catches are 2BL, 4QG, 1YA, KGU, KWG, KPJM, KERN, KXO and KGCX. I would like a correspondent in Canada."

"I am considering the purchase of a new receiver this fall," admits Stanley Brus, 1441 Bell Ave., North Braddock, Pa., "and would appreciate letters from DX fans using receivers such as the Skyrider, Patterson or other models in that class."

A Novel Aerial

"The only antenna of its type in this country has just been completed for WRVA," contributes E. H. Morris, 3219 Garland Ave., Richmond, Va. "There is a wooden tower of triangular shape, painted white and orange. Atop this tower is a large telephone pole some 80 feet high, making a total height of 320 feet. On the top of the pole is a large circular aluminum plate, resembling a man-hole cover. On this disk are two electric lights. Now, the strange part of the aerial is this: the current for these bulbs is sent up through an ordinary double wire, strung in the center of the mast. Around this conductor is entwined a mesh of twenty fine copper wires. This mesh is the aerial itself. Germany is the only other country to have an antenna of this design and a German engineer came over to supervise the erection of this one."

"The Cleveland Chapter of the CDXR was formed last winter and now has ten active members," supplies George R. Schneider, Chapter President, 1625 Lee Road, Cleveland Heights, Ohio. "Regular meetings are held every other Saturday evening from September to June. The first meeting in the new DX season will be held at 7:30 P.M. on September 7th."

About the Clubs

"The Universal DX Club had its beginning in September, 1933," recalls Corresponding Secretary Elbert M. Hoppenstedt, 345 Maple Ave., Oradell, N. J. "During our two years

of existence, we have grown steadily and our second year was, if possible, more successful than the first. Our monthly bulletin is divided into definite departments, which are devoted to news about the members, club activities, F. C. C. data. etc. The short wave department, edited last year by Harry Hozey, is now being conducted by Elmer Mercer. The membership feet of a dollar a year includes the regular monthly bulletin as well as a tip sheet issued on the fifteenth of each month."

"The United States Radio DX Club," writes Frank Wheeler, Erie, Pa., was founded as a local organization under the name of the Shrewsbury Radio Club. However, when the club began to spread over the United States, the present and more suitable name was adopted. Membership in the club is entirely free. During the DX season, we publish a six-page paper which contains a short wave page, list of specials, Singleton-Eliminator contest, latest F. C. C. news, letters from members, etc. Subscription to the paper is a dollar a year. Information about the club and a sample copy of the bulletin will be sent to those writing the Secretary-Treasurer, Howard Morse, 7 Water St., Shrewsbury, Mass."

"I have been reading RADEX for



The Crosley Radio Corp. now possesses not only the world's most powerful broadcasting station—WLW with its 500,000 watts power—but the world's tiniest. WEE, with but .004 watts—less current than is used by an automobile tail-light. WEE has a range of 200 feet. Its towers are 24 inches high. WEE is a complete broadcasting station with studios, microphones 'n' everything.

over a year," greets George W. Haylock, 115 Grange Park Road, London E. 10, England, "so I take this opportunity to send my first report. My BCB log consists of 36 stations, all over 2000 miles distant. Of these, twenty-four are verified. The past season has not been so good and, at times, it was quite a task to pull in stations such as WTIC. In a month, I have logged well over 100 amateur on 20 meters. I have heard all of the W districts except 6 and 7, the first three VE's, one VO, two Cubans and one Costa Rican."

"Recently, I verified KLUF, 100 watts, and WMC," announces Allan Ford, Portneuf Station, Quebec. "The latter sent me \$2.50 as a prize to the most distant listener to their DX on March 3rd. I also closed the season with a very fine diploma from LR5. What do you think of that for DX on one tube?"

During the past year or two, many DXers have turned for diversion from multi-tube receivers to the one- and two-tube regenerative circuits so popular in the early days of radio. As pointed out by Mr. Ford, some rather remarkable reception has been possible, although one can well imagine the variety of squeals and howls these "bloopers" create for other DXers. For this reason, this type of DXing has been frowned upon by many listeners.

However, as long as we have reverted to early tube circuits, why not go a step farther and see what can be done with a crystal set? World Radio, official organ of the British Broadcasting Corp., recently published a number of interesting reports on reception with the humble crystal set — some listeners going so far as to claim trans-Atlantic reception.

While we realize protests will follow any remarkable claims, we might inaugurate the "Grain of Salt" or the "Tongue in our Cheek" department and see what can be heard.

If sufficient interest is shown, we might be able to persuade Mr. Dashiell to give us a few circuits using the crystal detector. Anyhow, it might be rather interesting, although Heaven help the chap who logs a 50-watt Aussie and dares to report it.

Concerning Verifications

A COPY of the Midsummer RADEX was sent to London and the article "Verifications in the Shortwave Field" was brought to the attention of the British Broadcasting Corporation. We are pleased to include herewith, in its entirety, their reply.

"With regard to the questions of verifications of reception, we would point out that the reasons why we do not give specific verifications have been set forth a number of times and are mainly as stated in your article in RADEX. We would add, however, that even when technical details or particulars of programs which have not been published are given, it would only be possible to check those items against the programs as transmitted, but to do this would involve an enormous amount of work and would serve no useful purpose as far as the Empire Service is concerned. The information contained in the advance programs which are published, in addition to the call-signs and announcements which are radiated, is, of course, quite sufficient to enable listeners to determine which of the Empire transmissions are being received.

We are nevertheless always glad to receive reports on the reception of our transmissions, as these are of material assistance to us in the development of our shortwave service and are, therefore, to the ultimate benefit of listeners themselves."

The EDITORIAL Microphone

AFTER eleven years in Cleveland, RADEX is this month changing its address to Conneaut, Ohio. Conneaut is a beautiful little city not far from Cleveland where, we are sure, we of the editorial staff will find life much more enjoyable than in a large city. There is no change in this magazine other than that of location. The same staff that has served you so long will continue to do so from the new headquarters. Please remember, therefore,, to address us at Conneaut, Ohio, in future, instead of at Cleveland.

When you write to us, it would help us greatly if you would put matters pertaining to the broadcast band, to the short waves and to technical problems on separate pieces of paper. It will materially hasten replies to your inquiries if you will do this as part of this material goes to Mr. Dashiell and part to Mr. Taylor.

Our New Size

With this issue of RADEX, we merge the *DX Log of the World*. This magazine will now cover the entire radio field—long waves, medium waves and short waves. We are increasing our size by sixteen more pages, making a total of 116 pages as against the 48 of a few years ago! The indices covering the short waves will appear in every other issue, alternating with the data concerning the long waves and the foreign broadcast stations. The usual indices covering the broadcast stations of North America will appear, as in the past, in each issue of RADEX.

The North American Index by Frequencies appears this month again in condensed form. Questionnaires are now going out to the stations in these lists for their time on the air and other information. This material will appear in the October issue. These

three indices give about all the information that is possible regarding each station. We are anxious to make the indices to the short-wave and foreign broadcast stations just as informative. Readers will help both us and themselves by giving us such data as may come to their attention regarding the stations in these lists.

Our Referenda

The vote which was taken some time ago in regard to the desirability of more educational features such as lectures and operas, was unfortunately inconclusive as indicating any major trend. Those voting regarding more operas were. Yes 2051, No 857. Those voting on more lectures were: Yes 1253, No 1358.

The requests for preferences of our readers published in the last two issues of this magazine, indicated a desire for material in the following order:

- Letters about DX
- Articles on Aerials, etc.
- Radio problems
- Stories of new devices
- Photos of Stations, etc.
- Descriptions of New Sets

It is evident that our stories about the radio stars and even their pictures are of minor interest at least to those who were kind enough to return the coupons. This being the case, we will endeavor to stress those matters which pertain to the use and improvement of radio reception, and leave the stars to their fate in the magazines published entirely in their interest.

When is One O'Clock

Just one reader, so far, has objected to our use of the 24-hour clock in giving time on the air. We feel certain that the method we are now using will become almost universal in a few years and we bespeak our readers' patience in learning to use

it. There is neither sense nor reason in splitting the days at noon and numbering anew. One o'clock in the afternoon is the thirteenth hour of the day and we might as well become accustomed to thinking of it as such. The main advantages of the 24-hour system so far as we are concerned are its simplicity, its lack of confusion and its saving of space. How much simpler it is to write 1145-2230 than "11:45 a. m. to 10:30 p. m." When this saving of space is multiplied a thousand times, it gives us *pages* to devote to other matters. We wish radio stations would adopt the former method. When they report a DX program Friday at 12:15 a. m. sometimes they mean Friday morning and sometimes Friday night. There can be no mistaking "Friday 0015."

The New Zealand DX magazine, "Tune In" has resumed publication after a period of incorporation with the N. S. Radio News. This little publication is crammed full of DX news and gossip of the Antipodes. The subscription price is 9d a copy or 8/ a year. Their address is P. O. Box 706, Dunedin, N. Z.

After many years with the NBC, Station WJR of Detroit will become, on September 29, a principal outlet of the CBS, replacing CKLW as the Voice of Columbia in the Detroit area.

After many false reports of a change in frequencies by WIS, Columbia, S. C., and WNOX, Knoxville, Tenn., we are advised that this "swap" will actually take place in September. WNOX will go from 560 to 1010 and WIS from 1010 to 560. We have made this change several times upon what seemed authentic information. We hope that this time it will go through.

A few changes in Mexican stations come to our attention too late to incorporate in this month's indices. They will appear in October.

The New Season

(Continued from page 4)

stations heard most frequently in this country.

Incidentally, our old stand-by Poste Parisien will probably be missing from our logs this winter. Since Doctor Brinkley took over XEAW, on 960 keys, it is likely that his all-night programs will kill all chances of hearing the Frenchman.

The DXers who have braved summer static are reporting reception of many of the new stations licensed by the F.C.C. during the spring and early summer. Most of these stations are now operating on regular schedules. New calls such as WMFF, WLEU, KAST, KRLC, KINY, KHSL, WTMV, KIUL, WMFD, WMFO, WMFN, KPLC, WAIM, WMFJ, WPAY, WNBC, WCMI and others will be heard during the first seven days of each month during frequency checks.

Short Wave Gossip

(Continued from page 15)

13; North America, 22. Many short-wavers say that S. Americans verify only once in a while, but I seem to have fared quite well. So far the Peruvian stations (5) have ignored my reports, and CEC in Chile. But I had good luck in Ecuador, 4 QSL's out of 6 trys. Colombia, 12 out of 18, and the good Venezuelans, 9 out of 9."

"I wish to report on what a 2-tube Doerle can do," says Henry Beisel, J1., 272 Washington Ave., Carteret, N. J. "Among the stations heard during the spring and summer are CT1AA, KKZ, HAT4, HC2RL, HI4D, HI1A, HJ4ABD, ORK, PCJ, VK2ME, DIQ, LSY and HPF. I would like to hear from RADEX'ers who are interested in radio networks."

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: ED Eastern Daylight; E Eastern; C Central; M Mountain
For Pacific Time subtract one hour from Mountain.

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

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

C — Buck Rogers 25th Century
CKLW WAAB WABC WCAU WFBL
WHK WJAS WJSV WKWB WOKO

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

C — Bobby Benson
WAAB WABC WCAU WDRC WEAN
WFBL WGR WHEC WOKO

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

C — Concert Miniatures
CFRB CKLW KFAB KFH KGKO
KLRA KLZ KMBC KRLD KRNT
KSCJ K TSA KTUL KWKH WAA'B
WABC WBBM WBIG WBNS WBRC
WBT WCAO WCCO WCOA WDAE
WDBO WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WICC WISN WJSV WKRC WLAC
WLBZ WMBD WMBG WOKO WORC
WOWO WSJS WSMK WSPD WVVVA

B — Lowell Thomas

CRCT KDKA WFAL WBZ WBZA
WFLA WGAR WHAM WIOD WJAX
WJZ WLW WMAL WRVA WSYR

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

R — Amos 'n' Andy
CRCT KYW WBBN WCAE WCHS
WEAF WEEI WFBR WGY WJAR
WLW WRC WTAG WTIC

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

C — Patti Chapin
CFRB CKLW KFAB KFH KGKO
KLRA KLZ KMBC KRLD KRNT
KSCJ K TSA KTUL KWKH WAA'B
WABC WBBM WBIG WBNS WBRC
WBT WCAO WCCO WCOA WDAE
WDBO WDNC WFBL WFBM WFEA
WGR WGST WHAS WHEC WHK
WHP WICC WISN WJSV WKRC
WLAC WLBZ WMBD WMBG WOKO
WORC WOWO WSJS WSMK WSPD
WVVVA

R — Uncle Ezra

KYW WBBN WCAE WCHS WDAF
WEAF WEEI WFBR WGY WHO
WHIO WJAR WMAQ WOW WRC
WSAI WTAG WTAM

B — Tony and Gus

KDKA WBAL WBZ WBZA WCKY

WENR WFIL WFLA WGAR WHAM

WIOD WIS WJAX WJZ WMAL
WPTF WSOC WSYR WTAR WWNC

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

C — Boake Carter
CKLW KMBC KMOX KOMA KRLD
WABC WBBM WBT WCAO WCAU
WCCO WDRC WEAN WFBL WGR
WHAS WHK WJAS WJSV WKRC
WNAC

B — Dangerous Paradise

KDKA KOIL KSO KTBS KWK
WBAL WHAP WBZ WBZA WENR
WFIL WHAM WJZ WLW WMAL
WREN WSB WSM WSMB WSYR

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

C — Guy Lombardo and Orchestra
KLRA KWKH WABC WBIG WBT
WCAO WCAU WDBJ WDNC WDOD
WDRC WDSU WEAN WESG WFBL
WGR WHP WIBX WICC WJAS
WJSV WLAC WMAS WNAC WNOX
WOKO WORC WPG WREC WSJS
WVVVA

B — Fibber McGee and Molly

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO WBAL
WBZ WBZA WCKY WFLI WGAR
WHAM WJZ WLS WMAL WMT
WREN WSYR

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

C — One Night Stands
CKLW KFAB KMBC WABC WADC
WBBM WBT WCAO WCAU WDRC
WEAN WFBL WGR WHEC WHK
WHP WICC WJAS WJSV WKRC
WLBZ WMAS WMBG WNAC WOKO
WORC WSPD

R — Voice of Firestone

CFCF CRCT KFJR KPRC KSD
KSTP KRBS KTHS KYW WAPI
WAVE WBBN WCAE WCHS WDAF
WDAY WEAF WECB WEEI WFAA
WFRB WFLA WGY WHO WHIO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ
WJZ WWNC

B — Evening in Paris

KDKA KOIL KSO KWK WBAL
WBZ WBZA WCKY WFLI WGAR
WHAM WJZ WLS WMAL WMT
WREN WSYR

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

C — Lux Radio Theatre
CFRB CKAC CKLW KDB KERN
KFAB KFBC KFPY KFRC KGB
KHJ KLRA KLZ KMBC KMJ KMOX
KOIN KOMA KRLD KRNT KSL
KTRH K TSA KTUL KVI KWG
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDRC WDSU WEAN WFBL
WFBM WGST WHAS WHEC WHK
WICC WISN WJAS WJSV WKWB
WKRC WLAC WNAC WNAJ WOKO
WORC WQAM WREC WSPD

R — A. & P. Gypsies

KSD KYW WBBN WCAE WCHS
WDAF WEAF WEEI WGY WHO
WHIO WIRE WJAR WMAQ WOW
WRC WSAI WTAG WTAM WTIC
WVJZ

B — Sinclair Minstrels

KDKA KDYL KFJR KOA KOIL
KPRC KSO KSTP KTBS KVOO KWK
WBAL WBZ WBZA WDAY WECB
WFAA WFLA WGAR WHAM WHIA
WIOD WIS WJAX WJDX WJZ WKY
WLS WLW WMAL WMC WMT
WOAI WPTF WREN WRVA WSB
WSM WSMB WSOC WSYR WTAR
WTMJ WWNC

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

B — Princess Pat Players
KDKA KOIL KSO KWK WBAL
WBZ WBZA WCKY WENR WFLI
WGAR WHAM WJZ WMAL WMT
WREN WSYR

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

C — Wayne King's Orchestra
CKLW KDB KERN KFAB KFBC
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLD KSL
KVI KWG WAAB WABC WADC
WBBM WBNS WCAO WCAU WCCO
WDRC WDSU WEAN WFBL WFBM
WHAS WHK WHW WJAS WJSV
WKWB WKRC WOKO WSPD

MONDAY (Continued)

R — Contented Program

KDYL KFI KGW KHQ KOA KOMO KPO KSD KYW WBen WCAE WChS WDAF WEAf WEEl WFAA WFBW WGY WHO WJAR WMAQ WTW WRC WSAI WTAg WTAM WTIC WWJ

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

CKLW KDB KERN KFAB KFBK KFPY KPRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KRLL KRNT KSL KVI KWG WABC WADW WBBM WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WGST WHAS WHK WJAS WJSV WKBW WKRC WNAO WOKO WSPD

ED-10:45 p.m., E-9:45, C-8:45, M-7:45 C — Tito Guizar, Tenor

CFRB CKAC CKLW KDB KFBK KFH KGB KGKO KHJ KLRA KLZ KMBC KOH KOL KOMA KRLL KSL KTRH KTSa KVI KVOR KWG KWKH WAAB WABC WADc WALA WBBM WBIG WBNS WBRC WBT WCAO WDAE WDBO WDNC WDOd WDRC WFBL WFBM WGR WGST WHAS WHK WHP WIBW WtBX WtSN WJAS WJSV WKBn WKBW WKRC WLAc WLBZ WMBR WNOX WOKO WORC WOWO WPG WQAM WREC WSBT WSFA WSMK WSPD WTOC

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 C — Abe Lyman's Orchestra

CKAC CKLW KDB KFBK KFH KGB KGKO KHJ KLRA KLZ KMBC KOH KOL KRLL KSL KTRH KVI KVOR KWG KWKH WABC WADc WALA WBIG WBNS WBRC WBT WCAO WDAE WDBO WDNC WDOd WDRC WFBM WGST WHAS WHK WHP WtBX WtSN WJAS WJSV WKBn WKBW WNOX WOKO WORC WOWO WPG WQAM WREC WSBT WSFA WSJS WSMK WSPD WTOC

R — Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO KPO KPRC KSD KTHS WDAF WFAA WHIO WKY WMAQ WMC WTAM WOW WSB WSM WSMB WTAM WWJ

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 B — Tony and Gus

KDYL KFI KFSd KFYR KGHL KGIR KGW KHQ KOA KOIL KOMO KPO KSO KSTP KTAR KTBS KTHS KWK WAPI WAVE WDAY WEEB WFAA WtBA WIRE WJDX WMC WMT WOA1 WREN WSB WSM WSBM WTMJ

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C — Little Jack Little

WABC WBRc WBT WCAO WCAU WCOA WDAE WDBJ WDBO WDOd WDRC WEAN WFEA WtCC WJSV WLAc WLBZ WMA5 WMBG WMBR WNAc WNOX WORC WREC WSFA WSJS WTOC

C — One Night Stands

KDB KERN KFAB KFPY KPRC KGB KHJ KMJ KMOX KOIN KOL KRNT KSCJ KSL KVI KWG WCCO WFBM WHAS

R — Voice of Firestone

KDYL KFSd KGHL KGIR KGU KGW KHQ KOA KOMO KPO KTAR

TUESDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00 C — Buck Rogers, See Monday

ED-6:15 p.m., E-5:15, C-4:15, M-3:15 C — Carson Robison

WAAB WABC WCAU WDRC WEAN WFBL WGR WHEC WOKO

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 C — Russian Bear Orchestra

KLRA WABC WALA WBIG WBRc WBT WCOA WDAE WDBJ WDBO WDNC WDOd WDRC WGST WLAc WLBZ WMA5 WMBG WMBR WNOX WORC WQAM WREC WSFA WSJS WTOC

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

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

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 C — Vocals by Verrill

CFRB CKLW KGKO KHJ KLRA KMBC KMOX KOMA KRLL KRNT KSCJ KSL KTRH KTSa KTUL KWKH WABC WACO WADc WALA WBBM WBNS WBRC WCAO WCOA WDAE WDBO WDNC WDOd WDRC WDSU WESG WFBL WHEC WHP WtBX WtSN WJSV WKRc WLAc WMBD WMBR WNOX WOC WOKO WOWO WQAM WSBT WSFA WSJS WSMK WSPD

B — Tony and Gus, See Monday

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

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 C — Frank Munn; Bernice Claire

CKLW KFAB KMBC KMOX KRNT WABC WADc WBBM WCAO WCAU WDRC WEAN WFBL WFBM WGR WHAS WHK WJAS WJSV WKRC WNAc WOKO WSPD

R — Leo Reisman's Orchestra

KSD KYW WBen WCAE WChS WDAF WEAf WEEl WFBW WFLA WGY WHO WtOD WtSN WJAR WJAX WMAQ WOW WtPF WRC WSOc WTAG WTAM WtAR WtIC WJW WtNC

B — EnO Crime Clues

KDKA KOIL KSO WBAL WBZ WBAO WFIL WGAR WHAM WJZ WLS WLW WMAL WMT WREN WSYR

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 R — Wayne King and Orchestra

KFYR KPRC KSD KSTP KTBS KVoo KYW WAVE WBen WCAE WChS WDAF WDAY WEAf WEEl WFAA WGY WHO WtBA WIRE WJAR WJDX WKY WMAQ WMC WOA1 WOW WRC WSAI WSB WSMB WTAG WTAM WtIC WtMJ WJW

B — Edgar Guest in Welcome Valley

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

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 C — Lud Gluskin and Orchestra

CKLW KDB KERN KFAB KFBK KFPY KPRC KGB KGKO KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KRLL KSCJ KSL KTRH KTSa KTUL KVI KWG WABC

WADc WBNS WBRC WBT WCAU WCCO WDBO WDNC WDRC WDSU WEAN WFBL WFBM WHAS WHEC WHK WtBX WtSN WJAS WJSV WKBW WKRC WLAC WNAc WOKO WOWO WREc WSPD

R — Ben Bernie and Orchestra

KSD KYW WBen WCAE WChS WEAf WEEl WFBW WGY WHO WJAR WMAQ WOW WRC WSAI WTAG WTAM WtIC WJW

B — N.T.G. and His Girls

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

ED-9:30 p.m., E-8:30, C-7:30, M-6:30 C — Fred Waring and Orchestra

CFRB CKAC CKLW KDB KERN KFAB KFBK KFH KFPY KPRC KGB KGKO KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN KOL KOMA KRLL KSCJ KSL KTSa KVI KVOR KWG KWKH WABC WACO WADc WALA WBIG WBNS WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDOd WDRC WDSU WEAN WFBL WFBM WGST WHAS WHEC WHK WHP WtBX WtSN WJAS WJSV WKBn WKBW WKRC WLAc WLBZ WMA5 WMBD WMBR WNAc WNAx WNOX WOC WOKO WORC WOWO WPG WQAM WREC WSBT WSFA WSJS WSMK WSPD WTOC

R — Eddie Duchin and Orchestra

KDYL KFI KFSd KFYR KGHL KGIR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KVoo KYW WAVE WBAf WBen WCAE WChS WDAF WDAY WEAf WEEB WEEl WFBW WFLA WGY WHO WHIO WtBA WtOD WtRE WtSN WJAR WJAX WJDX WKY WLW WMAQ WMC WOA1 WOW WtPF WRC WtVA WSB WSM WSMB WSOc WTAG WTAM WtAR WtIC WtMJ WJW WtNC

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

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 C — Carl Hoff's Orchestra

CFRB CKLW KDB KFBK KFH KFPY KPRC KGB KGKO KHJ KLRA KLZ KMBC KMOX KOH KOL KOMA KRLL KSL KTRH KTSa KTUL KVI KVOR KWG KWKH WABC WACO WADc WALA WBIG WBNS WBRC WBT WCAO WDAE WDBJ WDBO WDNC WDOd WDRC WDSU WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WtBX WtSN WJAS WJSV WKBn WKBW WKRC WLAc WLBZ WMA5 WMBG WMBR WNOX WOKO WORC WOWO WPG WQAM WREC WSBT WSFA WSJS WSMK WSPD WTOC

R — Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 B — Tony and Gus, See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 R — Leo Reisman's Orchestra

KDYL KFI KFSd KFYR KGHL KGIR KGW KHQ KOA KOMO KPO KPRC KTAR KTBS WAPI WAVE WBAf WDAY WEEB WtBA WIRE

TUESDAY (Continued)

WJDX WKY WMC WOAI WSB WSM
WSMB

WEDNESDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — Buck Rogers, See Monday

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

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

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

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — Nina Tarasova, Soprano
CKLW KDB KFBK KFH KFPY
KFRK KGB KGKO KHJ KLRA KLZ
KMBC KMOX KOH KOH KRLD
KRNT KSCJ KTRH KTSK KTUL
KTVR KWG KWKH WABC WACO
WADC WALA WBBM WBCB WBT
WCAU WCOA WDAE WDBJ WDBO
WDNC WDRC WEAN WESG WFBL
WFBM WGR WGST WHAS WHK
WIBX WISN WJAS WJSV WKBN
WKRC WMBG WNAC WNOX
WOKO WOWO WQAM WREC WSJS
WSMK WSPD WTOC WVVV

R — Uncle Ezra, See Monday

B — Tony and Gus, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Jan Savitt's Orchestra

WABC WALA WBCB WBT WCAO
WCAU WDAE WDBJ WDBO WDNC
WDRC WEAN WGST WJSV WLAC
WMBG WNAC WNOX WQAM
WREC WSJS WTOC

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

B — Dangerous Paradise, See Monday

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Johnnie and Foursome

CKLW KFAB KMBC KMOX KRNT
WABC WADC WBBM WCAO WCAU
WCCO WDRC WEAN WFBL WFBM
WGR WHAS WHEC WHK WJAS
WJSV WKRC WLZB WNAC WOKO
WSPD

R — One Man's Family

KDYL KFI KFJR KGW KHQ KOA
KOMO KPRC KSD KSTP KTAR
KTBS KTHS KVOO KYW WAPI
WAVE WBEN WCAE WCSH WDAF
WDAY WEAF WEEB WEEI WFRB
WFLA WGY WHO WHIO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSB WSM WSMB WTAG WTAM
WTIC WTMJ WWJ WWNC

ED-8:15 p.m., E-7:15, C-6:15, M-5:15
C — Emery Deutsch's Orchestra

CKLW KDB KFBK KFH KFPY
KFRK KGB KGKO KHJ KLRA KLZ
KMBC KMOX KOH KOH KRLD
KRNT KSCJ KTRH KTSK KTUL
KTVR KWG KWKH WABC WACO
WADC WALA WBBM WBT WCAU
WCOA WDAE WDBJ WDBO WDNC
WDRC WEAN WESG WFBL WFBM
WGR WGST WHAS WHK WIBX
WISN WJAS WJSV WKBN WKRC
WLAC WMAS WMBG WNAC WNOX
WOKO WOWO WQAM WREC WSJS
WSMK WSPD WTOC WVVV

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
B — House of Glass; Drama

KDKA KOIL KSO KWK WBAL
WBZ WBZA WFIL WFLA WGAR
WEAM WIOD WIS WJAX WJZ
WLS WLW WMAL WMT WPTF
WREN WSOC WSYR WTAR WWNC

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

CKLW KFAB KMBC KMOX KRNT
WABC WADC WCAO WCAU WDRC
WEAN WFBL WFBM WGR WHAS
WHK WJAS WJSV WKRC WNAC
WOKO WSPD

R — Wayne King, See Tuesday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — Six Gun Justice

CKAC CKLW KDB KERN KFBK
KFPY KFRK KGKO KHJ KLRA
KLZ KMBC KMJ KOIN KOL KSL
KTUL KVI KWG WAAB WABC
WADC WALA WBBM WBGV WBNB
WBRC WBT WCAO WCOA WDAE
WDBJ WDBO WDNC WDRC WDSU
WFBL WFBM WFEA WGST WHAS
WHEC WHP WICC WJAS WJSV
WKBW WKRC WLAC WLZB WMBG
WMBR WNOX WOKO WORC WOWO
WPG WQAM WREC WSBT WSPD
WTOC

R — Town Hall Tonight

KSD KYW WBEN WCAE WCSH
WDAF WEAF WEEI WFRB WGY
WHO WJAR WLW WMAQ WOW
WGR WTAG WTAM WTIC WWJ

B — John Charles Thomas

KDKA KDYL KFI KGW KHQ
KOA KOIL KOMO KPO KSO KWK
WBAL WBZ WBZA WCKY WENR
WFIL WGAR WHAM WIRE WJZ
WLS WMAL WMT WREN WSYR

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — Presenting Mark Warnow

CFRB CKAC CKLW KDB KERN
KFBK KFPY KFRK KGKO KHJ
KLRA KLZ KMBC KMJ KOIN KOL
KSL KTUL KVI KWG WAAB WABC
WADC WALA WBGV WBNB WBCB
WBT WCAO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRC WDSU
WFBL WFBM WFEA WGST WHAS
WHEC WHP WIBX WICC WJAS
WJSV WKBW WKRC WLAC WLZB
WMAS WMBG WMBR WNOX WOKO
WORC WOWO WPG WQAM WREC
WSBT WSFA WSJS WSPD WTOC

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
C — Burns and Allen

CKLW KDB KERN KFAB KFBK
KFPY KFRK KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSK KVI KWG WABC WADC
WBBM WBGV WBT WCAO WCAU
WCCO WDBJ WDRC WEAN WFBL
WFBM WHEC WHK WJAS WJSV
WKBW WKRC WNAC WOKO WORC
WSPD

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
R — Ray Noble and Orchestra

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTBS KTHS KVOO
KYW WAVE WBEN WCAE WCSH
WDAF WEAF WEEI WFAA WFRB
WGY WHO WHIO WIRE WJAR
WJDX WKY WLW WMAQ WMC
WOAI WOW WRC WSB WSM
WSMB WTAG WTAM WTIC WWJ

C — March of Time, See Monday

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

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
C — Claude Hopkins' Orchestra

CFRB CKAC KDB KFAB KFH
KFPY KFRK KGB KGKO KHJ
KLRA KLZ KMBC KOH KOL
KOMA KRLD KRNT KSCJ KTRH
KTSK KTUL KVI KVOY KWKH
WAAB WABC WACO WADC WALA
WBBM WBGV WBNB WBCB WBT
WCAO WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRC WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHK WHP WIBX WIBX
WICC WISN WJAS WJSV WKRC
WLAC WLZB WMAS WMBD WMBG
WMBR WNOX WOC WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOC

B — Tony and Gus, See Monday

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

B — House of Glass; Drama
KDYL KFI KFJR KGW KHQ
KOA KOMO KPO KPRC KTBS
WAPI WAVE WDAY WFAA WIBA
WIRE WJDX WKY WMC WOAI
WSB WSM WSMB WTMJ

THURSDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — Buck Rogers, See Monday

ED-6:15 p.m., E-5:15, C-4:15, M-3:15
C — Carson Robison, See Tuesday

ED-6:30 p.m., E-5:30, C-4:30, M-3:30
C — Russian Bear Orchestra

KLRA WAAB WABC WALA WBGV
WBRC WCOA WDAE WDBJ WDBO
WDNC WDOD WDRC WGST WLAC
WLZB WMAS WMBG WMBR WORC
WQAM WREC WSFA WSJS WTOC

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

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

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — Buddy Clark, Singer

CFRB CKLW KFAB KFH KGB
KLRA KLZ KMBC KMOX KRLD
KRNT KSCJ KSL KTSK KTUL
KWG KWKH WAAB WABC WACO
WBBM WBGV WBNB WBCB WBT
WCOA WDAE WDBO WDNC WDOD
WDRC WDSU WFBL WFBM WFEA
WGR WGST WHAS WHEC WHP
WIBX WJSV WKRC WLAC WLZB
WMBD WMBG WMBR WOKO
WORC WOWO WQAM WREC WSJS
WSMK WSPD WVVV

B — Tony and Gus, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Frank Dailey and Orchestra

KLRA WAAB WABC WALA WBGV
WCAO WCOA WDAE WDBJ WDBO
WDNC WDOD WDSU WGST WJSV
WLAC WLZB WMBG WMBR
WORC WQAM WREC WSFA WSJS
WTOC

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

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Kate Smith Hour

CFRB CKAC CKLW KDB KFAB
KFBK KFH KFPY KFRK KGB
KGKO KHJ KLRA KLZ KMBC KOH

THURSDAY (Continued)

KOL KRLL KRNT KSCJ* KTRH
KTSB KFOR KWG KWKH WAAB
WABC WACO WADC WALA WBIG
WBNS WBRC WCAO WCOA WDAE
WDBJ WDBO WDNC WDOO WDRC
WDSU WEAN WFBL WFBM WFEA
WGR WGST WHEC WHK WHP
WIBX WICC WJAS WJSV WKBN
WKRC WLAC WLBZ WMAS WMBD
WMBG WMBR WNAC WNOX WOC
WOKO WORC WOWO WPG WQAM
WREC WSBT WSFA WSJS WSMK
WSPD WTCC WTVV

R — Rudy Vallee's Variety Hour
CFCE CRCT KDYL KFI KFYZ
KGW KHQ KOA KOMO KPO KSD
KSTP KTAR KYW WBN WCAE
WCSE WDAF WDAY WEAF WHEC
WHEC WFBM WGY WHO WJAR
WLW WMAQ WOW WRC WTAG
WTAM WTIC WTMJ WWJ

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — Manhattan Choir
CKLW KFAB KFBK KFH KGB
KGKO KHJ KLRA KLZ KMBC
KMOX KOL KOMA KRLL KRNT
KSCJ KTRH KTSB KTUL KVI
KWG KWKH WAAB WABC WACO
WADC WALA WABC WBIG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDOO
WDRC WDSU WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBX WIBC WIC WISN WJAS
WJSV WKBN WKRC WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WOC
WOWO WQAM WREC WSFA WSJS
WSMK WSPD WTCO

R — Maxwell House Show Boat
KDYL KFI KFSB KFYZ KGH
KGR KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAR
KTBS KYW WAPI WAVE WBAP
WBN WCAE WCSE WDAF WDAY
WEAF WHEC WHEI WFBM WFLA
WGY WHO WHIO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WMAQ WMC WOA WOW
WPTF WRC WRVA WSAI WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WWCN

B — Death Valley Days
KDKA KOIL KSO KWK WBAL
WBZ WBZA WFLG WGAR WHAM
WJZ WLS WLW WMAL WMT
WREN WSYR

ED-9:15 p.m., E-8:15, C-7:15, M-6:15
C — Charles Hanson Towne
CFRB CKAC CKLW KDB KERN
KFAB KFBK KFH KFPY KFRC
KGB KGKO KHJ KLRA KMJ
KMOX KOH KOIN KOL KOMA
KRLL KSCJ KSL KTRH KTSB
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOO WDRC WDSU
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJSV WKBN
WKRC WLAC WLBZ WMAS
WMBD WMBR WNAX WNOX
WOC WOKO WORC WOWO WPG
WQAM WREC WSBT WSFA WSJS
WSMK WSPD WTCO

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — Marty May, Comedian
CFRB CKAC CKLW KDB KERN
KFAB KFBK KFH KFPY KFRC
KGB KGKO KHJ KLRA KMJ
KMOX KOH KOIN KOL KOMA
KRLL KSCJ KSL KTRH KTSB
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOO WDRC WDSU
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJSV WKBN
WKRC WLAC WLBZ WMAS
WMBD WMBR WNAX WNOX WOC
WOKO WORC WOWO WPG WQAM
WREC WSBT WSFA WSJS WSMK
WSPD WTCO

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
C — Horace Heidt's Orchestra
CKLW KDB KERN KFAB KFBK
KFH KFPY KFRC KGB KHJ KLRA
KLZ KMBC KMJ KMOX KOIN
KOL KRLL KRNT KSL
KTRH KTSB KTUL KVI KWG
WABC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDBO WDRC
WDSU WFBL WFBM WGST WHAS
WHK WISN WJAS WJSV WKBW
WKRC WLAC WMBG WNAC
WNAX WOC WOKO WQAM WREC

R — Paul Whiteman's Music Hall
CFCE CRCT KDYL KFI KFYZ
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KYW WAPI WAVE WBAP WBN
WCAE WCSE WDAF WDAY WEAF
WHEC WHEI WFBM WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOA WOW WPTF WRC
WTAR WSB WSM WSMB WTAG
WTAM WTIC WTMJ WWJ WWCN

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

ED-10:45 p.m., E-9:45, C-8:45, M-7:45
C — Louis Prima and Orchestra
CFRB CKAC CKLW KDB KERN
KFAB KFBK KFH KFPY KFRC
KGB KGKO KHJ KLRA KMBC
KMJ KMOX KOH KOIN KOL KOMA
KRLL KSCJ KSL KTRH KTSB
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOO WDRC WDSU
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJSV WKBN
WKRC WLAC WLBZ WMAS
WMBD WMBR WNAX WNOX
WOC WOKO WORC WOWO WPG
WQAM WREC WSBT WSFA WSJS
WSMK WSPD WTCO

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
C — Johnny Hamp and Orchestra
CFRB CKAC CKLW KDB KFBK
KFH KFPY KFRC KGB KGKO KHJ
KLRA KLZ KMBC KOH KOIN
KOMA KRLL KSL KTRH KTSB
KTUL KVOR KWG KWKH WAAB
WABC WACO WADC WALA WBIG
WBNS WBRC WBT WCAO WCOA
WDAE WDBJ WDBO WDNC WDOO
WDRC WDSU WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBX WIBC WIC WISN WJAS WJSV

WKBN WKBW WKRC WLAC WLBZ
WMAS WMBG WMBR WNAC
WNOX WOKO WORC WOWO WPG
WQAM WREC WSBT WSFA WSJS
WSMK WSPD WTCO

R — Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
B — Tony and Gus, See Monday

FRIDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — Intercollegiate Council
CKLW KDB KERN KFAB KFH
KFPY KFRC KGB KGKO KHJ
KLRA KLZ KMBC KOH KOL KOMA
KRLL KRNT KSCJ KSL KTRH
KTSB KTUL KVI KVOR KWG
KWKH WAAB WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WCAO WCOA WDAE WDBJ WDBO
WDNC WDOO WDSU WEAN WESG
WFBL WFBM WFEA WGST WHAS
WHEC WHP WIBW WIBX WISN
WJAS WJSV WKBN WKBW WKRC
WLAC WLBZ WMAS WMBD WMBG
WMBR WNOX WOC WOKO WOC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTCO

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

ED-6:30 p.m., E-5:30, C-4:30, M-3:30
C — Allan Leifer's Orchestra
KERA WABC WALA WBAE WBRC
WCOA WDAE WDBJ WDBO WDNC
WDOO WDRC WDSU WGST WLAC
WLBZ WMBR WOC WRC WQAM WREC
WSFA WSJS WTCO

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

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

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — Jerry Cooper, Songs
CFRB CKAC CKLW KDB KERN
KFBK KFH KFPY KFRC KGB
KGKO KHJ KLRA KLZ KMBC KOH
KOIN KOL KOMA KRLL KRNT
KSCJ KSL KTRH KTSB KTUL
KVI KVOR KWG WABC WACO
WADC WALA WBIG WBNS WBRC
WCAO WCCO WCOA WDAE WDBJ
WDBO WDNC WDRC WDSU WEAN
WFBL WFBM WFEA WGR WGST
WHEC WHP WIBW WIBX WICC
WISN WJAS WJSV WLAC WLBZ
WMBD WMBG WMBR WNOX WOC
WOKO WORC WOWO WPG WQAM
WREC WSFA WSJS WSPD WTCO

R — Uncle Ezra, See Monday
B — Tony and Gus, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Bert Block's Orchestra
CFRB CKAC CKLW KDB KERN
KFBK KFH KFPY KFRC KGB
KGKO KHJ KLRA KLZ KMBC
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSB
KTUL KVI KVOR KWG WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WCAO WCCO WCOA
WDAE WDBJ WDBO WDOO WDRC
WDSU WEAN WFBL WFBM WFEA
WGR WGST WHEC WHP WIBW
WIBX WICC WISN WJAS WJSV
WKRC WLAC WLBZ WMBD
WMBG WMBR WNOX WOC WOKO
WORC WOWO WPG WQAM WREC
WSFA WSJS WSPD WTCO

FRIDAY (Continued)

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

B — Dangerous Paradise, See Monday

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Johnny Green and Orchestra
 WABC WCAU WDRC WEAN WFBL
 WGR WHEC WICC WLWB WMAS
 WNAC WOKO WORC

R — Cities Service Concert
 CRCT KDYL KOA KPRC KSD
 KSTP KTBS KTHS KVOO KYW
 WBAP WBEN WCAE WCSH WDAF
 WFAF WEBC WEEI WFAA WFBR
 WGY WHO WHIO WIOD WJAR
 WKY WMAQ WOA1 WOV WRC
 WRVA WSA1 WTAG WTAM WTIC
 WTMJ WWJ

B — Irene Rich; Dramatic Sketch
 KDKA KDYL KFI KGW KHQ
 KOIL KOMO KPO KSO KTAR
 WAVE WBAL WBZ WBZA WGAR
 WHAM WIRE WJZ WLS WMAL
 WMC WMT WREN WSB WSM
 WSYR

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C — True Story Court

CKLW KFAB KMBC KMOX WABC
 WADC WBBM WBT WCAO WCAU
 WCCO WDRC WEAN WFBL WFBM
 WGR WHAS WHK WJAS WJSV
 WNAC WOC WOKO WSPD

B — Ruth Etting; Red Nichols
 KDKA KDYL KFI KFSD KGW
 KHQ KOIL KOMO KPO KSO KTAR
 KWK WBAL WBZ WBZA WFLW
 WGAR WHAM WJZ WLS WLW
 WMAL WMT WREN WSYR

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — Hollywood Hotel

CFRB CKAC CKLW KDB KERN
 KFAB KFBK KFH KFPY KFRC
 KGB KHJ KLRA KLZ KMBC KMJ
 KMOX KOIN KOL KOMA KRLD
 KRNT KSCJ KSL KTRH KTSK
 KTUL KVI KVOR KVG KWKH
 WABC WADC WBBM WBNS WBRC
 WBT WCAO WCAU WCCO WDAE
 WDBJ WDRC WDRC WDSU WEAN
 WFBL WFBM WFEA WGST WHAS
 WHEC WHK WHP WTBW WTBX
 WICC WJAS WJSV WKBW WKRC
 WLAC WLWB WMAS WMBD WMBG
 WMBR WNAC WNAX WNOX
 WOKO WORC WPG WQAM WRFC
 WSPD

R — Frank Munn; Vivienne Segal
 KSD KYW WBEN WCAE WCSH
 WDAF WFAF WEEI WFBR WGY
 WJAR WLW WMAQ WOW WRC
 WTAG WTAM WWJ

B — Palmolive Beauty Box Theatre
 CFRC CRCT KDKA KFYP KOIL
 KPRC KSO KSTP KTBS KWK
 WAPI WAVE WBAL WBZ WBZA
 WCKY WFLA WEBC WENR WFAA
 WFIL WFLA WGAR WHAM WIBA
 WIOD WIRE WIS WJAX WJDX
 WJZ WKY WLS WMAL WMC WMT
 WOA1 WPTF WREN WRVA WSB
 WSM WSMB WSOC WSYR WTAR
 WTMJ WWNC

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
C — Richard Himber and Orchestra
 CKLW KFAB KFH KMBC KMOX
 WAAB WABC WADC WBBM WBNS
 WBT WCAO WCAU WCCO WDRC
 WFBL WFBM WGST WHAS WHK

WJAS WJSV WKBW WKRC WOKO
 WSBT WSPD

R — Compans's First Nighter
 KDYL KFI KGW KHQ KOA KOMO
 KPO KPRC KSD KSTP KYW WBEN
 WCAE WCSH WDAF WFAF WEBC
 WEEI WFAA WFBR WGY WHO
 WJAR WKY WLW WMAQ WMC
 WOA1 WOW WRC WSB WSM WSMB
 WTAG WTAM WTIC WTMJ WWJ

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

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

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
B — Tony and Gus. See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Luigi Romanelli's Orchestra
 CKLW KFAB KFBK KGKO KLZ
 KRLD KRNT KSCJ KTRH WABC
 WACO WBBM WDBJ WDRC WDOB
 WFBM WGST WHP WISN WJAS
 WLAC WMBD WNAC WNOX WOC
 WORC WOW WSMK

B — Palmolive Beauty Box Theatre
 KDYL KFI KFSD KGHL KGRG
 KGW KHQ KOA KOMO KPO KTAR
 WLW

ED-12:30a.m., E-11:30, C-10:30, M-9:30
C — Richard Himber's Orchestra

KDB KERN KFBK KFPY KFRC
 KGB KHJ KLZ KMJ KOIN KOL
 KVI EWG

SATURDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — Tito Guizar, Tenor

CKLW KDB KERN KFAB KFBK
 KFH KFPY KFRC KGB KGKO KHJ
 KLRA KLZ KMBC KOH KOIN KOL
 KOMA KRLD KSCJ KSL KTSK
 KTUL KVI KVOR KVG KWKH
 WAAB WABC WACO WADC WBBM
 WBIG WBRC WBT WCAO WCAU
 WDAE WDBJ WDBO WDNC WDOB
 WDRC WESG WFBL WFBM WGST
 WHAS WHEC WHK WHP WTBW
 WTBX WISN WJSV WKBW WLAC
 WLWB WMBD WMBG WMBR
 WNOX WOC WOKO WORC WOWO
 WQAM WRFC WSBT WSPA WSJS
 WSMK WSPD WTOC WWVA

ED-6:15 p.m., E-5:15, C-4:15, M-3:15
C — Dalton Brothers Trio

CKLW KDB KERN KFAB KFBK
 KFH KFPY KFRC KGB KGKO
 KHJ KLRA KLZ KMBC KOH KOIN
 KOL KOMA KRLD KSCJ KSL
 KTSK KTUL KVI KVOR KVG
 KWKH WAAB WABC WACO WADC
 WBBM WBIG WBRC WBT WCAO
 WCAU WDAE WDBJ WDBO WDNC
 WDOB WDRC WESG WFBL WFBM
 WGST WHAS WHEC WHK WHP
 WTBX WISN WJSV WKBW WLAC
 WLWB WMBD WMBG WMBR
 WNOX WOC WOKO WORC WOWO
 WQAM WRFC WSBT WSPA WSJS
 WSMK WSPD WTOC WWVA

ED-6:30 p.m., E-5:30, C-4:30, M-3:30
C — Allan Leaffer's Orchestra

CFRB CKAC CKLW KDB KERN
 KFAB KFH KFPY KFRC KGB
 KGKO KHJ KLRA KLZ KMBC KOH
 KOIN KOL KOMA KRLD KSCJ
 KSL KTSK KTUL KVI KVOR KVG
 KWKH WAAB WABC WACO WADC
 WBBM WBIG WBNS WBRC WCAO

WCAU WCOA WDAE WDBJ WDBO
 WDNC WDOB WDRC WEAN WESG
 WFLB WFEA WGST WHAS WHEC
 WHK WHP WJBW WIBX WICC
 WISN WJAS WJSV WKBW WKRC
 WLAC WLWB WMAS WMBG WMBR
 WNOX WOC WOKO WORC WOWO
 WQAM WRFC WSBT WSPA WSJS
 WSMK WSPD WTOC WWVA

ED-7:00 p.m., E-6:00, C-5:00, M-4:00
C — Johnny Hamp's Orchestra

CFRB CKAC CKLW KDB KERN
 KFBK KFH KGB KGKO KHJ KLRA
 KLZ KMBC KOH KOL KOMA KRLD
 KSCJ KSL KTSK KVI KVOR KVG
 KWKH WAAB WABC WACO WADC
 WBBM WBIG WBNS WBRC WBT
 WCAU WCOA WDAE WDBJ WDBO
 WDNC WDOB WDRC WEAN WESG
 WFBL WFBM WFEA WGR WGST
 WHAS WHEC WHK WHP WTBW
 WTBX WICC WISN WJAS WJSV
 WKRC WLAC WLWB WMBD WMBG
 WMBR WNOX WOC WOKO WORC
 WOWO WQAM WRFC WSBT WSPA
 WSJS WSMK WSPD WTOC

ED-7:45 p.m., E-6:45, C-5:45, M-4:45
R — Briggs Sport Review

KDYL KFYP KOA KSD KSTP
 KYW WAPI WAVE WBEN WCAE
 WCSH WDAY WFAF WEBC WEEI
 WFBR WFLA WGY WHIO WIBA
 WIOD WIRE WIS WJAR WJAX
 WJDX WMAQ WMC WOW WPTF
 WRC WRVA WSA1 WSB WSM
 WSMB WSOC WTAG WTAM WTAR
 WTIC WWJ WWNC

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
R — Lonnie Hayton and Orchestra

KDYL KFI KFSD KFYP KGHL
 KGRG KGW KHQ KHQ KOA KOMO
 KPO KPRC KSD KSTP KTAR
 KTBS KTHS KVOO KYW WAPI
 WAVE WBAP WBEN WCAE WCSH
 WDAF WDAY WFAF WEBC WEEI
 WFAA WFRB WFLA WGY WHO
 WHIO WIBA WIOD WIRE WIS
 WJAR WJAX WJDX WKY WLW
 WMAQ WMC WOA1 WOW WPTF
 WRC WRVA WSB WSM WSMB
 WSOC WTAG WTAM WTAR WTIC
 WTMJ WWJ WWNC

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — Howard Barlow's Orchestra

CKAC CKLW KDB KERN KFAB
 KFBK KFH KGB KGKO KHJ KLRA
 KLZ KMBC KOH KOL KOMA KRLD
 KSCJ KSL KTSK KVI KVOR KVG
 KWKH WAAB WABC WACO WADC
 WDBI WBNS WBRC WBT WCAU
 WCOA WDAE WDBJ WDBO WDNC
 WDOB WFBL WFBM WFEA WGR
 WGST WHAS WHEC WHK WHP
 WIBW WIBX WICC WISN WJAS
 WJSV WKRC WLAC WLWB WMBD
 WMBG WMBR WNOX WOC WOKO
 WORC WOWO WQAM WRFC WSBT
 WSPA WSJS WSMK WSPD WTOC

R — G-Men; Drama

KDYL KFI KFSD KFYP KGHL
 KGRG KGW KHQ KOA KOMO KPO
 KPRC KSD KSTP KTAR KTBS
 KYW WAPI WAVE WBAP WBAF
 WCAE WCSH WDAF WDAY WFAF
 WEBC WEEI WFRB WFLA WGY
 WHO WHIO WIBA WIOD WIRE
 WIS WJAR WJAX WJDX WKY
 WLW WMAQ WMC WOA1 WOW
 WPTF WRC WRVA WSB WSM
 WSMB WSOC WTAG WTAM WTAR
 WTIC WTMJ WWJ WWNC

SATURDAY (Continued)

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

C — California Melodies
 CFRB CKLW KDB KFAB KFH
 KFRC KGKO KHJ KLRA KLZ
 KOH KOL KOMA KRLD KSCJ KSL
 K TSA KVI KFOR KWG KWKH
 WAAB WABC WACO WADC WBBM
 WBIG WBNS WBRC WCAU WCCO
 WCOA WDBJ WDBO WDNB WDDO
 WFBL WFBM WFEA WGST WHAS
 WHEC WHK WHP WIBX WICC
 WISN WJSV WKRC WLAC WLWB
 WMAS WMBR WNOX WOC WQAM
 WORC WWOV WQAM WREC WSFA
 WSJS WSMK WSPD WTOC

R — Al Jolson; Victor Young

KDYL KFI KFSD KFYR KGHL
 KGIR KGW KHQ KOA KOMO
 KPO KSD KSTP KTKR KYW WBNB
 WCAE WCSH WDAF WDAY WFAF
 WHEC WHEI WFLA WGY WHO
 WHIO WIBA WIOD WIS WJAR
 WJAX WLW WMAQ WOW WPTF
 WRC WRVA WSOC WTAG WTAM
 WTAR WTIC WTMJ WWJ WWNC

B — National Barn Dance

KDKA KOIL KSO KWK WBAL
 WBZ WBZA WFIL WGAR WHAM
 WIRE WJZ WLSZ WMAL WTMT
 WREN WSYR

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

C — Jan Garber's Orchestra
 CFRB CKAC CKLW KDB KFBC
 KFH KFPY KFRC KGB KGKO
 KHJ KLZ KMOX KOH KOIN KOL
 KRLD KSCJ KSL K TSA KTUL
 KVI KFOR KWG KWKH WAAB
 WABC WACO WADC WBBM WBIG
 WBNS WBRC WCAU WCCO WDBJ
 WDBO WDNB WFBL WFBM WGST
 WHAS WHEC WHK WHP WIBX
 WIBX WISN WJAS WJSV WKRC
 WLAC WLWB WMAS WMBD WMBR
 WNOX WOC WORC WPG WREC
 WSFA WSJS WSMK WSPD WTOC
 WWVA

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

C — Abe Lyman and Orchestra
 CKLW KDB KERN KFBC KFH
 KFPY KFRC KGB KGKO KLRA
 KLZ KMBC KMOX KOH KOIN
 KOL KOMA KRLD K TSA KTUL
 KVI KFOR KWG KWKH WABC
 WACO WADC WBBM WBIG WBNS
 WBRC WBT WCAU WCAU WCOA
 WDAE WDBJ WDBO WDNB WDDO
 WDRB WFBL WFBM WFEA WGST
 WHAS WHEC WHK WHP WIBX
 WIBX WICC WJAS WJSV WKWB
 WKRC WLAC WLWB WMAS WMBR
 WNOX WOC WORC WPG WQAM
 WREC WSBT WSFA WSJS WSMK
 WSPD WTOC WWVA

B — National Barn Dance

KDYL KFI KFYE KGW KHQ
 KOA KOMO KPO KPRC KSTP
 KTBS KTHS KVOO WAVE WBAP
 WDAY WHEC WIBA WJDX WKY
 WLW WMC WOAI WSB WSBM

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

C — Claude Hopkins' Orchestra
 CFRB CKAC CKLW KDB KERN
 KFAB KFBC KFH KFPY KFRC
 KGKO KHJ KLRA KOH KOL KOMA
 KRLD KSCJ KSL K TSA KTUL
 KFOR KWKH WABC WACO WADC
 WBBM WBIG WBNS WBRC WBT
 WCAU WCAU WCCO WCOA WDAE

WDBJ WDBO WDNB WDDO WDRB
 WEAN WFBL WFBM WFEA WGST
 WHAS WHEC WHK WHP WIBX
 WIBX WICC WISN WJAS WJSV
 WKWB WKRC WLAC WLWB WMAS
 WMBD WNBAC WNAW WNOX WOKO
 WORC WPG WQAM WREC WSBT
 WSFA WSJS WSMK WSPD WTOC
 WWVA

ED-12:00 p.m., E-11:00, C-10:00, M-9:00

C — Isham Jones and Orchestra
 CKAC CKLW KDB KERN KFBC
 KFH KFPY KGB KGKO KLRA KLZ
 KOH KOIN KOL KOMA KRLD
 KSL K TSA KTUL KVI KFOR KWG
 KWKH WABC WACO WADC WBNS
 WBRC WBT WCAU WCAU WCOA
 WDBJ WDBO WDNB WDDO WEAN
 WFBL WFBM WHAS WHK WHP
 WIBX WICC WKWB WKRC WLAC
 WMAS WNAW WNOX WOC WOKO
 WQAM WREC WSBT WSFA WSJS
 WSMK WSPD WTOC

SUNDAY

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

C — Salt Lake Tabernacle Choir
 CKLW KFAB KFBC KFH KGKO
 KLRA KLZ KOMA KRLD KRNT
 KSCJ KSL KTRH K TSA KTUL
 KWKH WACO WADC WALA WBIG
 WBNS WBRC WBT WCAU WCCO
 WCOA WDAE WDBJ WDBO WDNB
 WDDO WDRB WDSU WESG WFBL
 WFEA WGST WHP WIBX WIBX
 WISN WJAS WJSV WKBN WLAC
 WLWB WMAS WMBD WMBR WNAW
 WNAW WOC WOKO WORC WWOV
 WPG WQAM WREC WSFA WSJS
 WSMK WSPD WTOC

R — Major Bowes' Capitol Family

KDYL KFYR KOA KPRC KSTP
 KTBS KVOO WAPI WCAE WDAF
 WDAY WFAF WHEC WFAA WFRB
 WFLA WGY WHO WHIO WJAR
 WJAX WKY WMAQ WMC WOAI
 WRC WRVA WSAI WSMB WTAG
 WTAM WWNC

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

C — Musical Footnotes
 CFRB CKAC CKLW KDB KERN
 KFAB KFH KFRC KGB KGKO
 KHJ KLRA KLZ KMBC KOH KOIN
 KOMA KRNT KSCJ KTRH K TSA
 KTUL KFOR KWG KWKH WAAB
 WABC WACO WADC WALA WBNS
 WBRC WBT WCAU WCCO WCOA
 WDAE WDBO WDNB WDDO WDSU
 WEAN WESG WFBL WFBM WGR
 WGST WHAS WHP WIBX WIBX
 WICC WISN WJAS WJSV WKBN
 WLAC WLWB WMBD WMBR WNAW
 WOC WOKO WORC WPG WQAM
 WREC WSFA WSPD WTOC

B — Radio City Music Hall

CPFC CRCT KDKA KDYL KFI
 KFYR KGO KGW KHQ KOA KOIL
 KOMO KPRC KSO KVOO WAPI
 WBAL WBZ WBZA WKY WDAY
 WJBC WGAR WHAM WIS WJDX
 WJZ WKY WMAL WOAI WREN
 WSBM WSYR WWNC

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

C — Compinsky Trio
 CFRB CKAC CKLW KDB KFAB
 KFBC KFH KFPY KFRC KGKO
 KHJ KLRA KLZ KOH KOIN KOL
 KOMA KRLD KRNT KSCJ KTRH
 K TSA KVI KFOR KWG KWKH
 WABC WACO WADC WALA WBIG

WBNS WBRC WBT WCAU WCCO
 WCOA WDAE WDBJ WDBO WDNB
 WDDO WDRB WESG WFBL WFBM
 WGR WGST WHAS WHEC WHP
 WIBX WISN WJAS WJSV WKBN
 WKRC WLAC WLWB WMBD WMBR
 WOC WOKO WORC WPG WQAM
 WREC WSBT WSFA WSJS WSMK
 WSPD WTOC WWVA

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

C — Johnny Augustine and Orchestra
 CFRB CKAC CKLW KDB KERN
 KFAB KFBC KFH KFPY KFRC
 KGB KGKO KHJ KLRA KMBC
 KMOX KOH KOL KOMA KRLD
 KRNT KSCJ KTRH K TSA KVI
 KFOR KWG KWKH WABC WADC
 WALA WBIG WBNS WBRC WBT
 WCAU WCAU WCCO WCOA WDAE
 WDBJ WDDO WEAN WESG WFBL
 WFBM WGR WGST WHAS WHEC
 WHK WHP WIBX WIBX WICC
 WJAS WJSV WKBN WKWB WKRC
 WLAC WLWB WMAS WMBD WMBR
 WNAW WOC WOKO WORC WWOV
 WPG WQAM WREC WSBT WSFA
 WSJS WSMK WSPD WTOC WWVA

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

C — Eton Boys, Quartet
 CKLW KERN KFPY KFRC KGB
 KGKO KHJ KLZ KMBC KMJ
 KMOX KOIN KOL KOMA KRLD
 KRNT KSCJ KSL KVI KFOR KWG
 WABC WACO WADC WBBM WBNS
 WBRC WBT WCAU WCAU WCCO
 WDBJ WDBO WDRB WDSU WEAN
 WESG WFBL WFBM WGST WHAS
 WHEC WHK WIBX WIBX WJAS
 WJSV WKBN WKWB WKRC WLAC
 WMBG WNAW WOC WOKO WWOV
 WSPD

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

C — Symphonic Hour, Howard Barlow
 CFRB CKAC CKLW KERN KFBC
 KFH KFPY KFRC KGB KGKO
 KHJ KLRA KLZ KMBC KMOX
 KOIN KOL KOMA KRLD KRNT
 KSCJ KSL KTRH K TSA KFOR
 KWG KWKH WABC WACO WADC
 WALA WBBM WBNS WBRC WBT
 WCAU WCCO WDAE WDBJ WDBO
 WDNB WDDO WDRB WDSU WEAN
 WESG WFBL WFBM WFEA WGR
 WGST WHAS WHEC WHK WHP
 WIBX WIBX WICC WISN WJAS
 WKBN WKWB WKRC WLAC WLWB
 WMAS WMBD WMBG WMBR
 WNOX WOC WOKO WORC WPG
 WQAM WREC WSBT WSFA WSJS
 WSMK WSPD WTOC

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

R — Penthouse Serenade
 KSD KYW WBNB WCAE WCSH
 WDAF WFAF WHEI WFRB WGY
 WHO WHIO WJAR WMAQ WOW
 WRC WSAI WTAG WTAM WTIC
 WWJ

ED-4:00 p.m., E-3:00, C-2:00, M-1:00

C — St. Louis Parade
 CFRB CKAC CKLW KDB KERN
 KFBC KFH KFPY KGB KGKO
 KHJ KLRA KLZ KMBC KMOX
 KOH KOIN KOL KOMA KRLD
 KRNT KSCJ KSL KTRH K TSA
 KFOR KWG KWKH WAAB WABC
 WACO WADC WALA WBBM WBIG
 WBNS WBRC WBT WCAU WCCO
 WDAE WDBJ WDBO WDNB WDDO
 WDRB WDSU WEAN WESG WFBL
 WFBM WFEA WGR WGST WHAS

SUNDAY (Continued)

WHCC WHK WHP WIBW WIBX
WICC WISN WJAS WKBN WKBW
WKRC WLAC WLWB WMAS WMBD
WMBG WMBR WNOX WOC WOKO
WORC WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOC

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

C — Abe Lyman's Orchestra
CFRB CKLW KFAB KMBC KMOX
KRNT WAAB WABC WADC WBBM
WCAO WCAU WCCO WDRS WEAN
WFBL WFBR WGR WHAS WHEC
WHK WJAS WJSV WKBN WOKO
WSPD

R — Rhythm Symphony

KDYL KFI KFSD KFYR KGW
KHQ KOA KOMO KPO KPRC
KSTP KTBS KTHS KVOO KYW
WAPI WAVE WBAP WBEN WCAE
WCBS WDAF WFAF WFBM WEEI
WFBR WFLA WGY WHO WHIO
WIBA WIOD WJAR WJAX WJDX
WKY WMAQ WMC WOA1 WOV
WPTF WRC WRVA WSAI WSB
WSM WSMB WTOC WTAM WTIC
WTMJ WWJ

B — Roses and Drums

KDKA KOIL KSO KWK WBAL
WBZ WBZA WENR WFIL WGAR
WHAM WJZ WLW WMAL WMT
WREN WSYR

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

C — Frank Crummit-Julia Sanderson
CKLW KFH KMBC KMOX KOMA
KTUL WAAB WABC WADC WBNS
WCAO WCAU WDRS WDSU WEAN
WFBL WFBR WGR WHAS WHEC
WHK WICC WJSV WMAS
WOKO WORC WSPD WWVA

R — Dream Drama

KYW WBEN WCAE WCBS WDAF
WEAF WEEI WFBR WGY WJAR
WMAQ WRC WSAI WTAG WTAM
WTIC WWJ

B — Bob Becker's Dog Chats

KDKA KOIL KSO KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WJZ WMAL WMT
WREN WSYR

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

C — National Amateur Night
CFRB CKLW KERN KFAB KFBC
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLL
KSL KVI KWG WAAB WABC
WBBM WBNS WBT WCAO WCAU
WCCO WDRS WDSU WFBL WFBR
WGST WHAS WHEC WHK WJAS
WJSV WKBW WKRC WOKO WOWO
WREC

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

C — Smiling Ed McConnell
CKLW KMOX WAAB WABC WBBM
WCAU WCCO WDRS WEAN WFBL
WHAS WJAS WJSV WKBW WKRC

B — Compans's Grand Hotel

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KSTP KWK
WBAL WBZ WBZA WCKY WBCB
WENR WHAM WJZ WMAL WMT
WREN WSYR

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

C — Vivian Della Chiesa, Soprano
CFRB CKLW KDB KFAB KFBC
KPH KFPY KFRC KGB KGKO
KHJ KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL

KRNT KSCJ KSL KTRH K TSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBZ WBNS WBRB WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRS WDSU
WEAN WESG WFBL WFBR WFEA
WGR WGST WHAS WHEC WHK
WHP WIBW WIBX WICC WISN
WJAS WJSV WKBN WKRC WLAC
WLWB WMAS WMBD WMBR WNAC
WNAX WNOX WOC WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOC
WWVA

B — Lanny Ross' State Fair

KDKA KFYR KOIL KPRC KSO
KSTP KTBS KTHS KVOO KWK
WAPI WAVE WBAL WBAP WBZ
WBZA WCKY WDAY WECB WENR
WFIL WFLA WGAR WHAM WIBA
WIOD WIRE WJAX WJZ WKY
WMAL WMC WMT WOA1 WPTF
WREN WRVA WSB WSM WSMB
WOC WSYR WTAR WTMJ

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

C — Joseph Gallichio's Orchestra
CFRB CKLW KDB KFAB KFBC
KPH KFPY KFRC KGB KGKO
KHJ KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH K TSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBZ WBNS WBRB WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRS WDSU
WEAN WESG WFBL WFBR WFEA
WGR WGST WHAS WHEC WHK
WHP WIBW WIBX WICC WJAS
WJSV WKBN WKRC WLAC WLWB
WMAS WMBD WMBR WNAC
WNAX WNOX WOC WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOC
WWVA

R — Fireside Recitals

KSD KYW WBEN WCAE WCBS
WDAF WEAF WFBR WGY WHIO
WIRE WJAR WMAQ WOW WRC
WSAI WTAG WTAM WTIC WWJ

B — Sidewalk Interviews

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

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

R — Sunset Dreams; Morin Sisters
CFRC KSD KYW WBEN WCAE
WCBS WEAF WFBR WGY WHO
WHIO WIRE WJAR WLW WMAQ
WRC WTAG WTAM WTIC WWJ

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

C — Rhythm at Eight
CKLW KFAB KMBC KMOX KRNT
WABC WADC WBBM WCAO WCAU
WDRS WEAN WFBL WFBR WGR
WHAS WHK WJAS WJSV WKRC
WNAC WOKO WSPD

R — Major Bowes' Amateur Hour

CFRC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTHS KVOO
KYW WAPI WAVE WBEN WBZ
WBZA WCAE WCBS WDAF WDAY
WEAF WECB WFAA WFBF WFLA
WGY WHO WIOD WISV WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOA1 WOW WPTF WRC
WRVA WSB WSM WSMB WTAG

WTAM WTAR WTIC WTMJ WWJ
WWNC

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

C — Gulf Headliners
CKLW KLRA KRLL KTRH K TSA
KWKH WABC WACO WADC WALA
WBZ WBNS WBRB WBT WCAO
WCAU WCOA WDAE WDBJ WDBO
WDNC WDOD WDRS WDSU WEAN
WESG WFBL WFBR WFEA WGR
WGST WHAS WHEC WHK WHP
WICC WJAS WJSV WKBN WKRC
WLAC WLWB WMAS WMBR WNAC
WNOX WOKO WORC WOWO WQAM
WREC WSBT WSFA WSJS WSMK
WSPD WTOC WWVA

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

C — America's Hour, Drama
CFRB CRAC CKLW KDB KERN
KFAB KFBC KFH KFPY KFRC
KGB KGKO KHJ KLRA KLZ KMBC
KMJ KMOX KOH KOIN KOL KOMA
KRLL KRNT KSCJ KSL KTRH
K TSA KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBZ WBNS WBRB WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRS WDSU
WEAN WFBL WFBR WFEA WGR
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJSV WKBN WKRC WLAC WLWB
WMAS WMBD WMBR WNAC
WNAX WNOX WOC WOKO WORC
WOWO WQAM WREC WSBT WSFA
WSJS WSMK WSPD WTOC

R — Manhattan Merry-G-Round

CFRC KDYL KFI KFYR KGW
KHQ KOA KOMO KPO KSD KSTP
KYW WBEN WCAE WCBS WDAF
WDAY WEAF WECB WFBR WGY
WHO WHIO WIBA WJAR WMAQ
WOW WRC WSAI WTAG WTAM
WTIC WTJ WWJ

B — Charles Previn and Orchestra

KDKA KOIL KSO KWK WBAL
WBZ WBZA WENR WFIL WGAR
WHAM WJZ WLW WMAL WMT
WREN WSYR

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

R — Album of Familiar Music
CFRC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KVOO KYW
WAVE WBEN WCAE WCBS WDAF
WDAY WEAF WECB WEEI WFAA
WFBF WFLA WGY WHO WHIO
WIBA WIOD WISV WJAR WJAX
WJDX WKY WMAQ WMC WOA1
WOW WPTF WRC WRVA WSAI
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTMJ WWJ WWNC

B — Cornelia Otis Skinner

KDKA KOIL KSO KWK WBAL
WBZ WBZA WENR WFIL WGAR
WHAM WJZ WLW WMAL WMT
WREN WSYR

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

C — Wayne King's Orchestra
CKLW KDB KERN KFAB KFBC
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLL
KSL KVI KWG WAAB WABC
WADC WBBM WBNS WCAO WCAU
WCCO WDRS WDSU WFBL WFBR
WHAS WHK WIBW WJAS WJSV
WKBW WKRC WSPD

R — Ivory Tent Show

KDYL KFI KFYR KGW KHQ KOA

SUNDAY (Continued)

KOMO KPO KSD KSTP KYW WBen
WCAE WCSH WDAF WDAY WEAF
WPEC WEEL WFBR WGY WHO
WBA WJAR WLW WMAQ WOF
WRC WTAG WTAM WTIC WTMJ
WVJ

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C — Benay Venuta, Songs
CFRB CKAC CKLW KDB KERN
KFH KFPY KFCR KGB KGKO
KHJ KLRA KLZ KMBC KMOX
KOH KOL KOMA KRLD KRNT
KSCJ KTRH K TSA KTUL KVI
KYOR KWG KWKH WAAB WABC
WADC WALA WBIG WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDNC WDOD WFBL
WFEE WGST WHAS WHEC WHK

WHP WIBW WIBX WISN WJAS
WJSV WKBN WKBW WKRC WLAC
WLHZ WMAS WMBD WMBG
WMBR WNOX WOC WORC WQAM
WREC WSBT WSFA WSMK WSPD
WTOC

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
C — Musical Mirror
CKAC CKLW KFAB KFBK KFH
KGKO KHJ KLRA KLZ KMBC
KMOX KOH KOL KOMA KRLD
KRNT KSCJ KSL KTRH K TSA
KTUL KYOR KWG WABC WACO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCCO WCOA
WDAE WDBJ WDBO WDNC WDOD
WDRG WDSU WFBL WGST WHEC
WHEK WHP WIBX WISN WJSV
WKBN WKRC WLAC WMAS WMBD
WMBG WMBR WNAx WOC WOKO

WPG WQAM WREC WSBT WSFA
WSJS WSMK WSPD WTOC
R — Sunset Dreams; Morin Sisters
KDYL KFI KFSD KGW KHQ KOA
KOMO KPO KPFC KTAR KTBS
KTSH WBAP WDAF WKY WOAF

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
B — Cornelia Otis Skinner
KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO KTAR
ED-11:30 p.m., E-10:30, C-9:30, M-8:30
B — Lanny Ross' State Fair
KDYL KFI KFSD KGHL KGIR
KGU KWG KHQ KOA KOMO KPO
KTAR

ED-12:00 p.m., E-11:00, C-10:00, M-9:00
B — Charles Previn and Orchestra
KDYL KFI KGW KHQ KOA KOMO
KPO

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Daylight Saving

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

*These features are correct at the time of going to press,
but changes are being made daily.*

CONCERTS

Howard Barlow, 9:00 p.m. Saturday, C
Concert Miniatures, 6:45 p.m. Monday, C
Radio City Music Hall, 12:30 p.m. Sunday, B
Symphonic Hour, 3:00 p.m. Sunday, C

DANCE BANDS

Victor Arden, 8:30 p.m. Wednesday, C
Johnny Augustine, 2:00 p.m. Sunday, C
Ben Bernie, 9:00 p.m. Tuesday, R
Frank Dalley, 7:30 p.m. Thursday, C
Emery Deutsch, 8:15 p.m. Wednesday, C
Eddie Duchin, 9:30 p.m. Tuesday, R
Jan Garber, 10:30 p.m. Saturday, C
Lud Gluskin, 9:00 p.m. Tuesday, C
Al Goodman, 9:00 and 11:30 p.m. Friday, B
Johnny Green, 8:00 p.m. Friday, C
Johnny Hamp, 7:00 p.m. Saturday, C
Lennie Hayton, 8:00 p.m. Saturday, R
Howard Heidt, 10:00 p.m. Thursday, C
Richard Himber, 10:00 and 12:30 p.m. Friday, C
Wayne King, 10:00 p.m. Sun. and Mon., C; 8:30 p.m. Tues. and Wed., R

Allan Leifer, 6:30 p.m. Friday and Saturday, C
Little Jack Little, 11:30 p.m. Monday, C
Guy Lombardo, 8:00 p.m. Monday, C
Abe Lyman, 5:00 p.m. Sun.; 11:00 p.m. Mon. and Sat., C; 9:00 p.m. Friday, R
Red Nichols, 8:30 p.m. Friday, B
Ray Noble, 10:30 p.m. Wednesday, R
Charles Previn, 9:00 and 12:00 p.m. Sunday, B
Leo Reisman, 8:00 and 11:30 p.m. Tuesday, R
Jan Savitt, 7:30 p.m. Wednesday, C
Rudy Vallee, 8:00 p.m. Thursday, R
Fred Waring, 9:30 p.m. Tuesday, C
Paul Whiteman, 10:00 p.m. Thursday, R
Victor Young, 9:30 p.m. Saturday, R

DIALOG

Amos 'n' Andy, 7:00 and 11:00 p.m. daily except Sat. and Sun., R
Burns and Allen, 10:00 p.m. Wednesday, C
Fibber McGee and Molly, 8:00 p.m. Monday, B
Lou Holtz, 10:00 p.m. Thursday, R
Marty May, 9:30 p.m. Thursday, C
Pick and Pat, 8:30 and 11:30 p.m. Monday, C
Stoopnagle and Budd, 9:30 p.m. Tuesday, C

DRAMA

America's Hour, 9:00 p.m. Sunday, C
Dangerous Paradise, 7:45 p.m. Mon., Wed. and Fri., B
Death Valley Days, 9:00 p.m. Thursday, B

Dream Drama, 5:30 p.m. Sunday, R
Eno Crime Clues, 8:00 p.m. Tuesday, B
First Nighter, 10:00 p.m. Friday, R
G-Men, 9:00 p.m. Saturday, R
Grand Hotel, 6:30 p.m. Sunday, B
House of Glass, 8:30 and 11:30 p.m. Wednesday, B
Lux Theatre, 9:00 p.m. Monday, C
One Man's Family, 8:00 p.m. Wednesday, R
Princess Pat Players, 9:30 p.m. Monday, B
Irene Rich, 8:00 p.m. Friday, B
Buck Rogers, 6:00 p.m. Mon., Tues., Wed., Thurs., C
Roses and Drums, 5:00 p.m. Sunday, B
Six Gun Justice, 9:00 p.m. Wednesday, C
Cornelia Otis Skinner, 9:30 and 11:15 p.m. Sunday, B
Tony and Gus, 7:15 and 11:15 p.m. daily, except Sat. and Sun., B
True Story Court, 8:30 p.m. Friday, C
Welcome Valley, 8:30 p.m. Tuesday, B

POPULAR PROGRAMS

A. and P. Gypsies, 9:00 p.m. Monday, R
Album of Familiar Music, 9:30 p.m. Sunday, R
Major Bowes, 11:30 a.m. and 8:00 p.m. Sunday, R
Broadway Varieties, 8:30 p.m. Wednesday, C
California Melodies, 9:30 p.m. Saturday, C
Cities Service Concert, 8:00 p.m. Friday, R
Contented Program, 10:00 p.m. Monday, R
Evening in Paris, 8:30 p.m. Monday, B
Fireside Recitals, 7:30 p.m. Sunday, R
Fleischmann Variety, 8:00 p.m. Thursday, R
Gulf Headliners, 8:30 p.m. Sunday, C
Hollywood Hotel, 9:00 p.m. Friday, C
Ivory Tent Show, 10:00 p.m. Sunday, R
Manhattan Merry-Go-Round, 9:00 p.m. Sunday, R
March of Time, 10:30 p.m. daily, except Sat. and Sun., C
Maxwell House Show Boat, 9:00 p.m. Thursday, R
Musical Footnotes, 12:30 p.m. Sunday, C
National Amateur Night, 6:00 p.m. Sunday, C
National Barn Dance, 9:30 and 11:00 p.m. Saturday, B
N.T.G. and His Girls, 9:00 p.m. Tuesday, B
Palmyra Beauty Box, 9:00 and 11:30 p.m. Friday, B
Penthouse Serenade, 3:30 p.m. Sunday, R
Rhythm at Eight, 8:00 p.m. Sunday, C
Rhythm Symphony, 5:00 p.m. Sunday, R
St. Louis Parade, 4:00 p.m. Sunday, C
Sinclair Minstrels, 9:00 p.m. Monday, B
Town Hall Tonight, 9:00 p.m. Wednesday, R
Uncle Ezra, 7:15 p.m. Mon., Wed., Fri., R
Voice of Firestone, 8:30 and 11:30 p.m. Monday, R

SINGERS

Lois Bennett, 10:00 p.m. Sunday, R
 Patti Chapin, 7:15 p.m. Monday, C
 Bernice Clair, 5:00 p.m. Sunday; 8:00 p.m. Tuesday, C
 Buddy Clark, 7:15 p.m. Thursday, C
 Jerry Cooper, 7:15 p.m. Friday, C
 Crumit-Sanderson, 5:30 p.m. Sunday, C
 Dalton Brothers Trio, 6:15 p.m. Saturday, C
 Vivian Della Chiesa, 7:00 p.m. Sunday, C
 Jessica Dragonette, 8:00 p.m. Friday, R
 Eton Boys, 2:45 p.m. Sunday, C
 Ruth Etting, 8:30 p.m. Friday, B
 Foursome, 8:00 p.m. Wednesday, C
 Tito Guizar, 10:45 p.m. Monday; 6:00 p.m. Saturday, C
 Helen Jepson, 10:00 p.m. Thursday, R
 Al Jolson, 9:30 p.m. Saturday, R
 Frances Langford, 9:00 p.m. Friday, C
 Elizabeth Lennox, 8:30 p.m. Wednesday, C
 James Melton, 8:30 p.m. Sunday, C
 Morin Sisters, 7:45 and 11:00 p.m. Sunday, R
 Frank Munn, 8:00 p.m. Tuesday, C; 9:30 p.m. Sunday,
 and 9:00 p.m. Friday, R

Dick Powell, 9:00 p.m. Friday, C
 Carson Robison, 6:15 p.m. Tues. and Thurs., C
 Lanny Ross, 7:00 and 11:30 p.m. Sunday, B; 9:00 p.m.
 Thursday, R
 Vivienne Segal, 9:30 p.m. Sunday and 9:00 p.m. Friday,
 R
 Smiling Ed McConnell, 6:30 p.m. Sunday, C
 Kate Smith, 8:00 p.m. Thursday, C
 Nina Tarasova, 7:15 p.m. Wednesday, C
 Conrad Thibault, 10:00 p.m. Sunday; 9:00 p.m. Thurs-
 day, R
 John Charles Thomas, 9:00 p.m. Wednesday, B
 Benay Venuta, 10:30 p.m. Sunday, C
 Virginia Verrill, 7:15 p.m. Tuesday; 8:00 p.m. Friday, C

TALKS

Bob Becker's Dog Chats, 5:30 p.m. Sunday, B
 Boake Carter, 7:45 p.m. daily, except Sat. and Sun., C
 Thornton Fisher, 7:45 p.m. Saturday, R
 Interecollegiate Council, 6:00 p.m. Friday, C
 Sidewalk Interviews, 7:30 p.m. Sunday, B
 Lowell Thomas, 6:45 p.m. daily, except Sat. and Sun., B
 Charles Hanson Towne, 9:15 p.m. Thurs., C

The Summer's Changes in Station Data

POWER

530 CJKL Kirkland Lake, Ont., 100 to 1000
 550 CFPN Fredericton, N. B., 1000 to 500
 600 CMW Havana, Cuba, 100 to 1000
 600 CRCW Windsor, Ont., 1000 to 500
 660 CMCX Havana, Cuba, 250 to 150
 750 CMCW Havana, Cuba, 117 to 125
 750 WJR Detroit, Mich., 10000 to 50000
 770 CMBS Havana, Cuba, 130 to 120
 790 CMOA Havana, Cuba, 72 to 75
 920 CMX Havana, Cuba, 650 to 500
 940 CMBBC Havana, Cuba, 195 to 200
 960 CMCDD Havana, Cuba, 180 to 200
 1000 CMBZ Havana, Cuba, 120 to 150
 1010 WIS Columbia, S. C., 1000 to 500
 1020 WDZ Tuscola, Ill., 100 to 250
 1120 CHSJ St. John, N. B., 100 to 500
 1120 CMKM Manzanillo, Cuba, 100 to 50
 1120 WCGM Mississippi City, Miss., 100 to 500
 1130 CMJI Ciego de Avila, Cuba, 45 to 50
 1140 CMBG Havana, Cuba, 325 to 300
 1170 CMBD Havana, Cuba, 163 to 150
 1200 CRNX Wingham, Ont., 25 to 50
 1200 CMCJ Havana, Cuba, 500 to 350
 1210 CJCS Stratford, Ont., 15 to 50
 1210 WPAX Thomasville, Ga., 100 to 250
 1230 CMCB Havana, Cuba, 112 to 100
 1240 CMHB San Spiritus, Cuba, 30 to 50
 1240 KGKO Wichita Falls, Texas, 500 to 1000
 1255 CMCG Havana, Cuba, 162 to 150
 1290 KTRH Houston, Texas, 500 to 1000
 1310 CKCV Quebec, Que., 50 to 100
 1310 KINY Juneau, Alaska, 250 to 100
 1320 KGMB Honolulu, Hawaii, 250 to 1000
 1340 CMJL Camaguey, Cuba, 50 to 75
 1350 MCMA Havana, Cuba, 435 to 450
 1360 KCRC Enid, Okla., 100 to 250
 1370 CMGE Cardenas, Cuba, 30 to 50
 1380 CMBX Havana, Cuba, 171 to 150
 1410 CHNC New Carlisle, Que., 100 to 500
 1410 CMCR Havana, Cuba, 122 to 150
 1420 CMGI Colon, Cuba, 30 to 50
 1430 CMJP Moron, Cuba, 75 to 100
 1460 CMKF Holquin, Cuba, 30 to 50
 1490 KFBK Sacramento, Calif., 100 to 5000
 1500 CMCN Havana, Cuba, 162 to 150

FREQUENCIES

530 CJKL Kirkland Lake, Ont., from 1310
 630 CFCO Chatham, Ont., from 1050
 780 CMJK Camaguey, Cuba, from 760
 850 KWKH Shreveport, La., from 1100
 890 KFPY Spokane, Wash., from 1340

900 KSEI Pocatello, Idaho, from 890
 980 XEAF Nogales, Sonora, from 1010
 1020 WDF Tuscola, Ill., from 1070
 1120 CMKM Manzanillo, Cuba, from 940
 1120 WCGM Mississippi City, Miss., from 1210
 1150 XEFL Tijuana, B. C., from 1160
 1160 CMHI Cienfuegos, Cuba, from 1180
 1190 VONF St. John's, Nfld., from 950
 1210 CJCS Stratford, Ont., from 1200
 1240 KGKO Wichita Falls, Texas, from 570
 1310 KINY Juneau, Alaska, from 610
 1340 CMJL Camaguey, Cuba, from 960
 1340 KGRB Butte, Mont., from 1360
 1360 KCRC Enid, Okla., from 1370
 1390 CMJC Camaguey, Cuba, from 1380
 1410 CHNC New Carlisle, Que., from 1210
 1420 WCBG Springfield, Ill., from 1210
 1490 KFBK Sacramento, Calif., from 1310

NEW

580 CFPR Prince Rupert, B. C.
 760 CMHX Cienfuegos, Cuba
 880 CMBN Havana, Cuba
 1050 CMKD Santiago, Cuba
 1140 Rockville, Md.
 1190 CMKV Santiago, Cuba
 1200 WMFR High Point, N. C.
 1200 WNRI Newport, R. I.
 1210 KFUF Del Monte, Calif.
 1310 KVOL Lafayette, La.
 1310 WISC Milwaukee, Wis.
 1370 KIUP Durango, Colo.
 1400 CMKR Santiago, Cuba
 1420 KALB Alexandria, La.
 1420 WPAR Parkersburg, W. Va.
 1500 Brady, Texas

CALLS

560 KSFO San Francisco, Calif., from KTAB
 780 KEHE Los Angeles, Calif., from KTM
 1200 CRNX Wingham, Ont., from 10-BP
 1210 CJCS Stratford, Ont., from 10-AK
 1380 WNBC New Britain, Conn., from WMFE
 1410 KGNC Amarillo, Texas, from KGRS

DELETED

850 WWPA Clarion, Pa.
 1410 WDAG Amarillo, Texas
 1420 KGIX Las Vegas, Nev.

LOCATION

550 WSWA Harrisonburg, Va., from Staunton, Va.

CHAINS

750 WJR Detroit, Mich., new CBS
 850 WESG Elmira, N. Y., new CBS
 1430 KECA Los Angeles, Calif., new NBC

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.

<p>520 (576.6) </p> <p>LKH .7 Hamar, Nor. (519) OFH 10. Viipuri, Fin. (527) 1. Innsbruck, Aust. (519) 5. Ljubljana, Yug. (527) 5 Tartu, Est. (517)</p> <p>530 (565.7) </p> <p>11BZ 1. Bolzano, I. (536) 16. Wilno, Pol. (536)</p> <p>540 (555.2) </p> <p>HAL 120. Budapest, Hun. (546) Budapest VIII, Sandor Utea No. 7.</p> <p>550 (545.1) </p> <p>RW34 10. Stalingrad, USR (554) 2CR Central NSW Ausl. 100. Beromunster, Sw. (556). Report to PTT, Berne, Speichergrasse No. 6.</p> <p>560 (535.4) </p> <p>11PA 4. Palermo, I. (565) MTAY 100. Shinkyo, Mch. MTCY 100. Hsinking, Mch. RW41 1.2 Sytkytkar, USR (563) XLHB .06 Shanghai, Chn. ZTG 10. Grahamstown, S. Af. 6WA South West, W. Ausl. 60. Athlone, IFS (565) Radio Atha Luain.</p> <p>570 (526) </p> <p>CX2 Montevideo, Uru. XGOH 1. Changsha, Chn. 2YA 5. Wellington, N. Z. 100. Stuttgart, G. (574) Charlottenplatz No. 1 10. Magnitogorsk, U.S.R. (571)</p> <p>580 (516.9) </p> <p>CE58 1. Santiago, Chl. (585) RW35 10. Astrakhan, USR (589) RW38 1.2 Alexandrovsk, U.S.R. YLZ 15. Riga, Lat. (583) 3WV West Victoria, Ausl. 7ZL Hobart, Ausl. 20. Lisbon, Por. (629) 15. Grenoble, F. (583)</p> <p>590 (508.2) </p> <p>JOAK2 10. Tokyo, Jap. M. Tomabecio, EST. Daily 4 a.m.-7:30 a.m. LS10 5. Buenos Aires, Arg. RW42 10. Gorki, U.S.R. (598) 7ZL Hobart, Ausl. 100. Vienna, Aust. (592) Wein No. 1, Johannesgrasse No. 4B.</p>	<p>600 (499.7) </p> <p>CNR 25. Rabat, Mor. (601) Radio Maroc, Office Cherifien des Postes et Telegraphes. RW82 4. Frounze, U.S.R. (608) SBD 10. Sundsvall, Swe. (601) XMHA 1. Shanghai, Chn. ZTC 10. Cape Town, S. Af. 4QN N. Queensland, Ausl.</p> <p>610 (491.5) </p> <p>CX4 1. Montevideo, Uru. 11FI 20. Florence, I. ETAR Stazione di Firenze. Keijo, Ko. JODK2 10. Manila, P. I. (618.5) KZRM 50. Oufa, U.S.R. (617) RW22 10. Murmansk, U.S.R. RW79 10. Hsing-shih, Chn. XGSS .015 Sydney, Ausl. 2FC 3.5</p> <p>620 (483.6) </p> <p>CE62 1. Santiago, Chl. (625) CTIAA 20. Lisbon, Por. (629) Emissora Nacional. Matsuye, Jap. (625) JOTK .5 Trondelag, Nor. (629) LKT 20. San Juan, Arg. LV1 1.5 Cordoba, Arg. LV3 2. Ivanovo, U.S.R. (625) RW31 10. Taiyan, Chn. (625) XTOY .5 Invercargill, N. Z. 4ZP 15. Brussels, Belg. la No. 1 20. Rue du Bastion 20. Cairo, Egypt. 20. Jerusalem, Pal.</p> <p>630 (475.9) </p> <p>JODG .3 Hamamatsu, Jap. (635) LS3 4.5 Buenos Aires, Arg. OKP 120. Prague, Cz. (633) The Radio Journal, Praha, Cz. RW28 .7 Viadivost'k, U.S.R. (635) RW84 1.2 Oust-Abrakomsk, U.S.R. (635) RW85 2. Igarka, U.S.R. (635) 3AR 4.5 Melbourne, Ausl. 7. Launceston, Ausl.</p> <p>640 (468.5) </p> <p>JOUK .3 Akita, J. (645) RW17 10. Kazan, U.S.R. (644) RW29 10. Petrozavodsk, U.S.R. (648) RW48 1.2 Tomsk, U.S.R. (645) RW56 1.2 Penza, U.S.R. YN 100. Lyons, F. (648). La Doua (testing). ZEK .5 Hong Kong, Chn. GMT Mon., Thurs., Sat., from 12:30. The Secretary, Hong Kong Brdctg. Com., P. O. Box 200.</p>	<p>ZTJ 10. Johannesburg, S. Af. (645)</p> <p>5CK 7.5 Crystal Brook, Ausl.</p> <p>650 (461.3) </p> <p>CX6 10. Montevideo, Uru. JOCG .3 Asahikawa, J. (655) Pres. NBC, Hokkaido Asahikawa Branch, EST Daily 11 p.m.-7:30 a.m. JQAK .5 Dairen, Mnch. (652) RW46 10. Karaganda, USR (653) 1YA 10. Auckland, N. Z. 100. Cologne, G. (658) Dagoberlstrabe No. 38</p> <p>660 (454.3) </p> <p>CE66 1. Santiago, Ch. (665) CMCX .25 Havana, Cuba RW36 10. Archangel, USR. (662) XGOA 75. Nanking, Chn. 7. Grafton, Ausl. 50. Manchester, G. B. (668) North Regional</p> <p>670 (447.5) </p> <p>JFAK 10. Taihoku, For. LS4 6. Buenos Aires, Arg. MOHB 1. Harbin, Mnch. (674) MTFY 1. Harbin, Mnch. (674) RW32 2. Elista, U.S.R. (671) RW23 1.2 Grozny, U.S.R. (676) XGOF 1. Fochow, Chn. (675) 2CO 7.5 Corowa, Ausl. 25. Sottens, Swi. (677) Report to PTT Berne, Speichergrasse No. 6.</p> <p>680 (440.9) </p> <p>HJN .5 Bogota, Col. (681) JOLK .5 Fukuoka, J. JOVK .5 Hakodate, J. RW27 4. Makhatch, USR. (689) RW46 1.2 Karaganda, USR. (686.5) RW71 1.2 Petropavlovsk, USR. (689) RW74 1.2 Tchekobskary, U.S.R. XGOK 1. Canton, Chn. (682) 2.5 Belgrade, Yug. (686) 1.5 Salisbury, S. Af. (681.9)</p> <p>690 (434.5) </p> <p>CX8 1. Montevideo, Uru. XGOY .5 Yuen-nan, Chn. 6WF 3.5 Perth, Ausl. 7. Paris, F. (695) FPTT Ecole Superieure des Postes et Telegraphes</p> <p>700 (428.3) </p> <p>CE70 1. Santiago, Chl. (705) JOKK .5 Okayama, J. SBA 55. Stockholm, Swe. (704) VPB 1.75 Colombo, Cey. (705)</p>
---	---	---

FOREIGN B. C. STATIONS BY FREQUENCIES

XMHC .5 Shanghai, Chn.
ZP15 .. Villarrica, Par.
2NR .. Northern Rivers, Ausl.

710 (422.3)

I1RO 50. Rome, I. (713)
JOJK 3. Kanazawa, J.
LS1 5. Buenos Aires, Arg.
XGML .0075 Kashing, Chn. (714.3)
XGOS 1 Chunching 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 Clara, Brz. (725)
RW9 36. Kiev, USSR (722)
RW28 10. Vlavivos., USR (725)
RW73 10. Simferopol, USR (725)
XLHD .1 Shanghai, Chn.
3YA 2.5 Christchurch, N. Z.
6GF .. Kalgoorlie, Ausl.

730 (410.7)

CE73 1. Vina del Mar, Chl.
CX10 1. Montevideo, Uru.
EAJ2 3. Madrid, Sp. (731) Radio-Espana
EAJ5 1.5 Seville, Sp. (731)
JOSK 1. Kokura, J. (735)
RW65 1. Saransk, USR. (734)
XHGS .05 Huchow, Chn.
5CL 2. Adelaide, Ausl.
 20. Tallin, Est. (731)

740 (405.2)

OFD 1. Pori, Fin. (749)
PRE6 1.5 Uberaba, Brz.
RW51 1.2 Naltchik, USR. (748.1)
XHHB .05 Shanghai, Chn.
2BL 3. Sydney, Ausl.
 100. Munich, G., Funkhaus Rundfunkplatz No. 1
 5. Marseilles, F. (749) PTT
 2. Sortavala, Fin. (749)

750 (399.8)

JOBK1 10. Osaka, J.
LR7 1. Buenos Aires, Arg.
LUHO .02 T'ung Hsien, Chn.
OAX4A 1.5 Lima, Peru. Daily 11 a.m.-1 p.m.; 6-7; 9-11 p.m.
PR2 1.5 Rio de Janeiro, Brz.
PR28 3. Pernambuco, Brz.
RW64 10. Urdjonikidze, USR. (752)
XGOK 1. Canton, Chn.
ZTD 1.5 Durban, S. Af.
2YB .1 New Plymouth, N. Z.
7NT .. N. Tasmania, Ausl.
 12. Katowice, Pol. (758)

760 (394.5)

CE76 10. Valparaiso, Chl. (765)
LT4 .2 Mendoza, Arg.

PRD9 .25 Sorocaba, Brz. (769)
XLHJ .0075 Shanghai, Chn.
XLHJ .1 Shanghai, Chn.
 50. Falkirk, G.B. (767) Scottish Regional

770 (389.4)

CX12 1. Montevideo, Uru.
JOHK 10. Sendai, J.
LKF .7 Frederikstad, N. (776)
RW26 10. Stalino, U.S.R. (776)
VUM .2 Madras, In.
ZP1 .5 Asuncion, Par.
1ZH .04 Hamilton, N. Z.
3LO 3.5 Melbourne, Ausl.
 2. Toulouse, F. (776) PTT

780 (384.4)

CE78 1. Santiago, Chl. (785)
JOPK .5 Shizuoka, J.
KZEG 1. Manila, P. I.
LT1 5. Rosario, Arg.
PRE7 1. Sao Paulo, Brz. (788)
XGOD 1. Hangchow, Chn. (977.5)
XHHC .1 Shanghai, Chn.
 120. Leipsig, G. (785) Temporarily on low power.

790 (379.5)

EAJ1 5. Barcelona, Sp. (795) Union Radio.
JOGK 10. Kumamoto, J.
LR10 8. Buenos Aires, Arg.
ZTB .5 Bloemfontaine, S. Af.
4YA .2 Dunedin, N. Z.
 16. Lwow, Pol. (795) Polskie Radjo SA. Rozglosnia we Lwowie

800 (374.8)

LU2 .5 Bahia Blanca, Arg.
PRB7 .5 Rio de Janeiro, Brz.
XLHL .1 Shanghai, Chn.
4QG 2.5 Brisbane, Ausl.
 50. Cardiff, G.B. (804) West Regional

810 (370.2)

CE81 1. Valparaiso, Chl.
CX14 5. Montevideo, Uru.
I1MI 50. Milan, I. (814)
JOCK1 1. Nagoya, J.
PR6A 1. Sao Paulo, Brz. (815)
VUC 3. Calcutta, In.

820 (365.6)

CE82 1. Santiago, Chl. (825)
LV7 .5 Tucuman, Arg.
RW68 .2 Tcheliabinsk, U.S.R. (824)
RW78 4. Ijevsk, U.S.R. (825)
2ZH .065 Napier, N. Z.
7HO .05 Hobart, Ausl.
 12. Bucharest, Ru. (823)

830 (361.2)

JOIK 10. Sapporo, J. T. Okada, Chf. Engr. EST Daily.

LR5 16. Buenos Aires, Arg. Radio Excelsior, Ave. de Mayo 821.
RW39 100. Moscow, U.S.R. (832) Innan Marr, Est.-Moscow-Stalin Radio Station.

XGWH .03 Wuhu, Chn.
3GI 7. Gippsland, Ausl.

840 (356.9)

F31CD 12. Saigon, Indo.
LT8 .35 Rosario, Arg.
XGTM .015 Chang-sha, Chn.
XHHA .15 Shanghai, Chn.
ZBW 2. Hongkong, C. (845) The Secretary, Hong Kong Brdcstg. Com., P. O. Box 200.
2YC .2 Wellington, N. Z.
 100. Berlin, G. (841) Radio Reichsender, Berlin Brdcstg. House

850 (352.7)

CX16 2.5 Montevideo, Uru.
EAJ3 1.5 Valencia, Sp.
HSPI 2.5 Bangkok, Siam (857)
JOFK 10. Hiroshima, J.
LKA .35 Aalesund, Nor.
LKB 1. Bergen, Nor.
LKD .5 Bodo, Nor.
LKP .7 Porsgrund, Nor.
PR4 .5 Bahia, Brz. (857)
PRB3 .25 Juiz de Fora, Brz. (857)
RWS2 10. Simferopol, U.S.R. (859)
VQ7LO .6 Nairobi, Ken. (858)
VUB 3. Bombay, In. (855)
XOST .5 Tsiman, Chn. (855)
5RM .5 Renmark, Ausl.
 1. Sofia, Bul.
 35. Strasbourg, F. (859) Radio Strasbourg PTT, 30 Rue du 22 Nov.

860 (348.6)

CE86 1. Santiago, Chl. (865)
LV10 .5 Mendoza, Arg.
PR3 2.5 Rio de Janeiro, Brz.
XHHD .05 Shanghai, Chn.
 16. Poznan, Pol. (868)
 6. Agen, F. (868)

870 (344.6)

CE87 .1 Talcahuano, Chl. (875)
JOAK1 10. Tokyo, J. M. Tomabecio, EST Daily 4 a.m.-7:30 a.m.
LR6 16. Buenos Aires, Arg. La Nacion, Florida 347.
XGBL .025 Suchow, Chn.
2GB 1. Sydney, Ausl. "The Nation's Station", Adyar House, 29 Bligh St., Daily EST 2130-830; Sun. 22-730.
 50. London, G.B. (877) London Regional. J 34

FOREIGN B. C. STATIONS BY FREQUENCIES

880 (340.7)

- CE88 .1 Valparaiso, Chl. Osvaldo Barra D., Edificio "El Mercurio", Casilla 57D.
- HS7PJ .. Bangkok, Siam (882)
- LV2 7 Cordoba, Arg.
- PRB2 .25 Curitiba, Brz. (882)
- RW61 1. Iochar-Ola, USR. (888)
- VUL .1 Lahore, In. (882)
- XHHV .1 Shanghai, Chn.
- YV2RC .1 Caracas, Venz. (882)
- 6PR .5 Perth, Ausl.
- 1YX .5 Auckland, N. Z.
- 7. Graz, Aust. (886)

890 (326.9)

- CX18 .05 Montevideo, Uru.
- LR4 12. Buenos Aires, Arg., Radio Splendid, Cal-lao 1526, Daily 11-24.
- MTBY 2. Mukden, Chn.
- OFA 10. Helsinki, Fin. (895)
- PRF3 5. Sao Paulo, Brz. (895)
- XGKA .015 Kashing, Chn. (895)
- ZP9 1.5 Asuncion, Par. (898)
-5 Limoges, F. (895)

900 (333.1)

- CE90 1. Santiago, Chl. (905)
- JODK1 10. Keijo, Ko.
- KZIB 1. Manila, P. I.
- LV9 .5 Salta, Arg.
- ZILY 2. Hoten, Mnch.
- 2ZP .105 Wairoa, N. Z.
- 3MA .05 Mildura, Ausl.
- 4WK .05 Warwick, Ausl.
- 100. Hamburg, G. (904) Radio Reichsender Hamburg

910 (329.6)

- LR2 6. Buenos Aires, Arg. Radio Prieto, Bolivar 1356
- RW30 10. Dnepropetrovsk, USR. (913)
- XENT 60. Neubo Laredo, Tams.
- 4RK 2. Rockhamton, Ausl.
- 60. Toulouse, F. (913) Villa Schmidt, Rue Monie
-5 Limoges, F. (913)

920 (325.9)

- CW1 .1 Rocha, Uru.
- JOQK .5 Niigata, J.
- OKB 32. Brno, Cz. (922)
- PRC3 .25 Pelotas, Brz.
- PRF4 10. R'de Janeiro, Brz. (923)
- XHHX .1 Shanghai, Chn.

930 (322.4)

- CX20 2. Montevideo, Uru.
- JOAG .5 Nagasaki, J.
- PRD2 1 R'de Janeiro, Brz. (932)
- 3UZ .6 Melbourne, Ausl.
- No. 2 15. Brussels, Belg. (932)

940 (319)

- CE94 5. Santiago, Chl. (945)
- JONK .5 Nagano, J. K. Yanada, Dir. EST Daily 4-1930
- PRE4 .25 Sao Paulo, Brz. (941)
- SBB 10. Gotöberg, Swe. (941)
- XHHE 1. Shanghai, Chn.
- 3ZR .4 Greymouth, N. Z.
- 12. Algiers, Alg. (941) Radio PTT du Govt. Gen., Rue Berthezene, Alger, Algeria, N. Af.

950 (315.6)

- LR3 12. Buenos Aires, Arg.
- PP 60. Paris, F. (959) Poste Parisien, 4 Rue du General-Foy.
- RW40 1.2 Gomel, U.S.R. (959)
- RW55 1. Engels, U.S.R. (959)
- XGOP .1 Peiping, Chn.
- XOPP .1 Peiping, Chn. (952.8)
- ZTP .5 Pretoria, S. Af. (952)
- ZUE 1. Sydney, Ausl. Rex Shaw, 296 Pitt St., EST Mon., to Fri., 2230-8; Sat. to 9; Sun., 2230-8.
- 100. Breslau, G. Ereslau No. 18, Funkhaus.

960 (312.3)

- JOOK .3 Kyoto, J.
- RW67 2. Oukhta, USR (968)
- RW69 10. Odessa USR (968)
- XHHF .1 Shanghai, Chn.
- YV1RC 5. Caracas, Venz.
- 2ZF .15 Palmerston, N. Z.
- SDN 3. Adelaide, Ausl.

970 (309)

- CX22 .25 Montevideo, Uru.
- JOBG .5 Maebashi, J.
- 3BO .2 Bendigo, Ausl.
- 1. Belfast, IFS (977)

980 (303.9)

- CE98 5. Santiago, Chl. (985)
- CNO .025 Casa Blanca, Mor. (983)
- 11GE 10. Genoa, I. (986) EIAR Stazione di Genova.
- JOXK .5 Tokushima, J. T. Tsutsumi, Chf. Engr. EST Daily 2205-730; Sun., 2230-730.
- OAX4E .05 Lima, Peru, Juan P. Goicochea, Jiron Ocona No. 158
- PRC6 1. R'de Janeiro, Brz.
- XMBH .5 Shanghai, Chn.
- ZTP .5 Pretoria, S. Af. (985)
- 2ZJ .25 Gisborne, N. Z.
- 4AY .03 Ayr, Ausl. Norman L. Dahl, Airdmillon Rd., "The Voice of the Cane Fields" EST Daily 2-8; Sun. 330-730.
- 6BY .05 Bunbury, Ausl.
- 24. Torun, Pol. (986) (Testing)

990 (302.8)

- JOFG .5 Fukui, J.
- PFBI 20. Hilversum, Hol. (995) Heir Radio Hilversum, Ouden, Engweg, 4.
- XGCK .03 Shanghai, Chn.
- Central NSW, Ausl.

1000(299.8)

- CE100 .5 Santiago, Chl. (1005)
- CW23 .25 Salto, Uru.
- HJ3ABH .05 Bogota, Col. (1005) "La Voz de La Victor", Aptdo 565. Sun., 12-14; 16-21; Week-days 1130-14; 18-23.
- HJ4ABJ .05 Armenia, Col.
- OKR 13.5 Bratislava, Cz. (1004)
- PRB4 1. Santos, Brz.
- PRB8 .05 Sao Paulo, Brz.
- XGOW 5. Hangkow, Chn.
- XKRI 1. Canton, Chn.
- XOTY .05 Shang-si, Chn.
- 4GR 3 Toowoomba, Ausl.

1010(296.9)

- CE101 1. Valparaiso, Chl.
- CX24 10. Montevideo, Uru.
- PRB9 .5 Sao Paulo, Brz. (1017)
- RW86 5. Tchernigov, USR. (1013)
- 3HA .3 Hamilton, Ausl. 37 Gray St., "The Age Brdctsg. Service", EST. Daily 245-730; Sun., 345-8.
- 50. Daventry, G.B. (1013) Midland Regional.

1020(293.9)

- CE102 .1 Santiago, Chl. (1025)
- EAJ15 3. Barcelona, Sp. (1022)
- EAJ19 .7 Oviedo, Sp. (1022)
- XHHG .1 Shanghai, Ch.
- 2KY 1. Sydney, Ausl.
- 2. Cracow, Pol. (1022)

1030(291.1)

- CE103 .1 Valdiva, Chl. (1035)
- CT1GL 5. Parede, Por. (1031) Radio Club Portuguese.
- LR9 5. Buenos Aires, Arg.
- YV1BMO . Maracaibo, Venz. (1034)
- 3DB .6 Melbourne, Ausl.
- 60. Konigsberg, G. (1031)

1040(288.3)

- CE104 .1 Magallanes, Chl.
- CP4 10. La Paz, Bol.
- CW25 .5 Durazno, Uru.
- PRC8 .25 R' de Janeiro, Brz.
- RW70 10. Leningrad, USR.
- XHHH .1 Shanghai, Chn.
- 5PI 2. Port Pirie, Ausl.
- 40. Rennes-Bretagne, F.

1050(285.5)

- CE105 1. Valparaiso, Chl.
- CX26 2. Montevideo, Uru.

FOREIGN B. C. STATIONS BY FREQUENCIES

IIBA 20. Bari, I. (1059) EIAR
Stazione di Bari
RW33 10. Krasnodar, USSR.
XHKA .05 Tien-tsin, Chn.
2CA .5 Ganberra, Ausl.
4ZB .07 Dunedin, N. Z.
4ZM .1 Dunedin, N. Z.
4ZO .025 Dunedin, N. Z.
..... 50. Falkirk, G. B. Scot-
tish National

1060(282.8) []

CE106 1. Santiago, Chl.
LT9 .2 Santa Fe, Arg.
RW57 4. Tiraspol, USSR. (1068)
XHHI 1. Shanghai, Chn.
3YB .025 Melbourne, Ausl.
4MB .05 Maryborough, Ausl.

1070(280.2) []

LRI .5 Buenos Aires, Arg.
XGOE 1. Kwangsti, Chn.
XGOX .2 Honan, Chn.
2KB .. Katoomba, Ausl.
6AM .5 Northam, Ausl.
..... 30. Bordeaux, F. (1077)
Bordeaux - Lafayette
Hotel des PTT

1080(277.6) []

CE108 .1 Concepcion, Chl.
(1085)
CW27 .25 Salto, Uru.
JOBK2 10. Osaka, J. (1085)
LT3 3.5 Rosario, Arg.
SCC 2. Falun, Swe. (1086)
XHHJ .08 Shanghai, Chn.
ZP7 .7 Asuncion, Par. (1083)
3SH .05 Swan Hill, Ausl.
..... 7. Zagreb, Yu. (1086)

1090(275.1) []

CE109 .1 Valparaiso, Chl.
CX28 2. Montevideo, Uru.
EAJ7 7. Madrid, Sp. (1095)
Union Radio Station
EAJ7, Aptdo 745.
PRC2 3. Porto Alegre, Brz.
PRC7 .25 Bello Horizonte, Brz.
RW75 10. Vinnitsa, USSR. (1095)
1ZB .2 Auckland, N. Z.

1100(272.6) []

CE110 1. Santiago, Chl. (1105)
HJ3ABD .05 Bogota, Col.
I1NA 1.5 Naples, I. (1104)
PRA9 1. R' de Janeiro, Brz.
XHHS .15 Shanghai, Chn.
YV4RC .. Sabana Grande,
Venz.
7LA .3 Lancaster, Ausl.
..... 50. Madona, Lat. (1104)

1110(270.1) []

CE111 .1 Osorno, Chl. (1115)
L55 4.5 Buenos Aires, Arg.
OKK 11.2 Moravska, Cz. (1113)
2UW .75 Sydney, Ausl., J. M.
Prencoite, Box 241D,
GPO. "At the Cross
Roads of Sydney".
24 hrs. daily.

..... 10. Normandie, F. (1113)
Fecamp

1120(267.7) []

CW29 .05 Mercedes, Uru.
HAE 6.2 Nyiregyhaza, Hung.
(1122)
LV5 .7 San Juan, Arg.
XLHM .05 Shanghai, Chn.
XLHN .05 Shanghai, Chn.
4BC .85 Brisbane, Ausl., R. F.
Roberts, 43 Adelaide
St., EST. Daily 2130-
830; Sun., 3-7:30.
..... .25 Alexandria, Eg. (1122)
..... 1. Newcastle, G.B. (1122)

1130(265.3) []

CX30 .5 Montevideo, Uru.
SBH 10. Horby, Swe. (1131)
XGOC .5 Nan-chang, Chn.
(1132)
6ML .3 Perth, Ausl.

1140 (263) []

CE114 .1 Santiago, Chl. (1145)
CW30 .. Tucumembo, Uru.
I1T0 7. Turin, I.
XHHL .1 Shanghai, Chn.
2HD .5 Newcastle, Ausl.
4Y0 .2 Dunedin, N. Z.
..... 20. London National,
G.B. (1149)
..... 20. North National, G.B.
(1149)
..... 20. West National, G.B.
(1149)

1150(260.7) []

CE115 .1 Talca, Chl. (1155)
HC2ET .3 Guyaquil, Ec. (1153)
HJ1ABM .05 Cartagena, Cib. (1154)
LR8 5. Buenos Aires, Arg.
PRA7 .05 Ribeirao Preto, Brz.
(1153)
XGGW .05 Tsin-tao, Chn.
YV17BMO .5 Maracaibo, Venz.
(1153)
2WG .05 Wagga, Aus.
2ZM .017 Gisborne, N. Z.
..... 2.6 Kosice, Cz. (1158)

1160(258.5) []

CW31 .25 Salto, Uru.
LT5 .5 Resistencia, Arg.
XHHU .1 Shanghai, Chn.
4MK .1 Mackay, Ausl.
..... 15. Mte. Ceneri, Sw.
(1167)
Report to PTT Berne,
Speighergasse No. 6

1170(256.3) []

CE117 .25 Valparaiso, Chl.
CX32 .5 Montevideo, Uru.
JOCK2 10. Nagoya, J. (1175)
PRB6 .25 Cruzeiro do Sul, Brz
PRC9 .25 Campinas, Brz.
XGZD .01 Changchow, Chn.
XGSM .025 Suchow, Chn.
XLIF .015 Wushih, Chn.
2ZD .008 Masterton, N. Z.
4TO .2 Townsville, Aus.

..... 10. Copghen, Den. (1176)
Strats Radio Foniien
Heibergsgrade No. 7.

1180(254.1) []

CE118 1. Santiago, Chl. (1185)
CW32 .25 Salto, Uru.
LKM .1 Tromso, Nor. (1186)
RW20 10. Kharkov, USSR. (1185)
XHHM .1 Shanghai, Chn.
3KZ .6 Melbourne, Ausl., S.
Morgan, 64 Elizabeth
St., "The Brighton
Brdcstg. Service".

1190(252) []

CE119 .1 Magallanes, Chl.
LS2 25. Buenos Aires, Arg.
Radio Prieto, Bolivar
1356
XHPA .03 Peiping, Chn. (1194)
2CH 1. Sydney, Ausl.
..... 25. Frankfurt, G. (1195)
Eschersheimer Lands-
trahe No. 33.
..... 5. Freiburg, G. (1195)
..... .5 Kaiserslautern (1195)
..... 2. Trier, G. (1195)
..... .5 Cassel, G. (1195)
..... 2. Coblenz, G. (1195)

1200(249.9) []

CE120 .1 Curico, Chl. (1205)
CW33 .075 Florida, Uru.
HJ3ABE 1. Bogota, Cib., Uribe
& Moreno, P. O. Box
317.
PRD3 .25 Taubate, Brz.
XHHN .1 Shanghai, Chn.
YV3RC 3. Caracas, Vnz.
ZP4 .1 Asuncion, Par.
3YL .5 Christchurch, N. Z.
5KA .3 Adelaide, Ausl.
No. 2 5. Prague, Cz. (1204)

1210(247.8) []

CX34 .5 Montevideo, Uru.
OA4AR .025 Lima, Peru
2GF .05 Grafton, Ausl.
6KG .5 Kalgoorlie, Ausl.
..... 5. Lille, F. (1213) Radio
PTT Nord (testing)
..... .. South Queensland,
Ausl.

1220(245.8) []

CE122 .25 Santiago, Chl. (1225)
CW34 .25 Salto, Uru.
I1TR 10. Trieste, I. (1222)
XGOT .5 Poi-ping, Chn.
4ZL .1 Dunedin, N. Z.

1230(243.8) []

HJ4ABK .3 Medellin, Cib.
LS8 20. Buenos Aires, Arg.
XGL5 .1 Suchow, Chn.
.2NC 2. Newcastle, Ausl.
..... 5. Gleiwitz, G. (1231)

1240(241.8) []

CE124 .1 Concepcion, Chl.
(1245)

FOREIGN B. C. STATIONS BY FREQUENCIES

CW35 .25 Paysandu, Uru.
 LV14 .2 La Rioja, Arg.
 XGKT .01 Suchow, Chn.
 XHHY .1 Shanghai, Chn.
 ZLH .05 Hastings, N. Z.
 3TR .25 Sale, Aust. A. Gilchrist, Raymond St., "Gippsland's Radio Station."

6CK 1. Cork, I. F. S.
 2. Juan-les-Pins, F. (1249). Radio Cote d'Azur.
 2. Swedish Relay Stations.

1250(239.9)

CE125 .1 Valparaiso, Chl.
 CX36 .25 Montevideo, Uru.
 EAJ8 3. Sn. Sebastian, Sp. (1258)
 HC21B .03 Guyaquil, Ec.
 XLWU .05 Wusih, Chn.
 No. 3 1. Rome, I. (1258)
 10. Kuldiga, Lat. (1258)

1260(238)

CE126 1. Santiago, Chl. (1265)
 CW36 .03 Salto, Uru.
 XHHP .1 Shanghai, Chn.
 1ZM .05 Manurewa, N. Z.
 3WR .06 Shepparton, Aus.
 2. Nurnberg, G. (1267)

1270(236.1)

LKK .5 Christiansand, Nor. (1276)
 LKS .5 Stavanger, Nor. (1276)
 LS9 .5 Buenos Aires, Arg.
 OHA40H .1 Lima, Peru (1277)
 TUA .5 Tunis, Tun. (1275)
 XDYF .15 Wu-hu, Chn.
 XGUT .01 Suchow, Chn.
 2SM 1. Sydney, Aust. 46 Carrington St., "Double D Eucalyptus" EST Daily 22-8.

1280(234.2)

CE128 .5 Temuco, Chl. (1285)
 CW37 .025 Colonia, Uru.
 LU7 .2 Bahia Blanca, Arg.
 PRF6 10. R' de Janeiro, Brz. (1282)
 XLKB .05 Tien-tsin, Chn.
 3AW .6 Melbourne, Aust.
 4ZC .007 Cromwell, N. Z.
 1. Aberdeen, G. B. (1285)
 25. Dresden, G. (1285)

1290(232.4)

CX38 .5 Montevideo, Uru.
 PRA5 .5 San Paulo, Brz. (1285)
 4BK .3 Brisbane, Aust.
 5. Linz, Aust. (1294)
 5. Dornbirn, Aust. (1294)
 4.2 Klagenfurt, Aust. (1294)
 5. Vorarlberg, Aus. (1294)

1300(230.6)

CPX 5. La Paz, Bol.
 CW38 .03 Salto, Uru.
 LT10 .1 Santa Fe, Arg.
 OAX4C .. Lima, Peru, Estacion Radiodifusora DUSA, Calle de Plumeros.

PRC4 .05 San Paulo, Brz. (1304)
 XQHC 50. Shanghai, Chn.
 2TM .. Tamworth, Aust.
 3ZE .05 Greymouth, N. Z.
 5. Danzig, Dan. (1303)

1310(228.9)

CE131 .1 Santiago, Chl. (1315)
 LS7 3. Buenos Aires, Arg.
 PRE9 .5. Fortaleza, Brz. (1315)
 SBC 1.25 Malmo, Swe. (1312)
 SCK .25 Karlstad, Swe. (1312)
 SCO .25 Norrkoping, Swe. (1312)
 SCQ .25 Trollhattan, Swe. (1312)
 XLIJ .05 Wusi, Chn.
 1ZJ .05 Auckland, N. Z.
 5AD .3 Adelaide, Aus.

1320(227.1)

CW39 1. Paysandu, Uru.
 HAE2 1.25 Magyarovar, Hun. (1321)
 HJ3ABK .05 Bogota, Col.
 XLIA .015 Ningpo, Chn.
 3BA .05 Ballarat, Aust.

1330(225.4)

CE133 .1 Osorno, Chl. (1335)
 CX40 .5 Montevideo, Uru.
 HJ1ABA .1 Barranquilla, Cib., E. J. Pellet B., P.O. Box 751.
 PRE2 .5 R' de Janeiro, Brz.
 XL1K .05 Changchow, Chn.
 XSRC .01 Suchow, Chn.
 4RO .05 Rockhampton, Aust.
 5. 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)

CE134 .15 Santiago, Chl. (1345)
 CW40 .03 Paysandu, Uru.
 LKR .15 Rjukan, Nor. (1348)
 XGED .015 Suchow, Chn.
 XHHR .05 Shanghai, Chn.
 2RN .5 Dublin, I. F. S. (1348)
 2XN .05 Lismore, Aus.
 4ZR .004 Balclutha, N. Z.
 No. 2 4. Milan, I. (1348)
 2. Ille de F., F. (1348)
 5. Salzburg, Aust. (1348)
 2. Konigsberg, G. (1348)
 1. Bordeaux, F. (1348)
 5. Cairo, Eg. (1348)

1350(222.4)

CE135 .1 San Antonio, Chl. (1355)

LKN .15 Notodden, Nor. (1357)
 LS6 3.5 Buenos Aires, Arg.
 OAE6 .03 Arequipa, Peru
 3GL .05 Geelong, Aust.
 No. 2 .2 Turin, I. (1357)

1360(220.4)

CW41 .05 San Jose, Uru.
 OAAK .15 Lima, Peru
 PRC5 .15 Belem, Brz. (1364)
 PRD4 .25 Arraquinara, Brs. (1364)
 XQHD 2. Shanghai, Chn.
 2BH .1 Broken Hill, Aust.
 2ZR .05 Nelson, N. Z.
 4PM .. Port Moresby, Aust.
 7BU .. Burnie, Aust.
 No. 2 .1 Turin, I. (1366)

1370(218.8)

CX42 1. Montevideo, Uru.
 XHHA .05 Hangchow, Chn.
 ZP5 .1 Asuncion, Par. (1376)
 3MS .05 Horsham, Aust.
 5. Basle, Swi. (1375)
 5. Berne, Swi. (1375)

1380(217.3)

CE138 1. Santiago, Chl. (1385)
 CW42 .02 Artigas, Uru.
 LU6 .05 Mar del Plata, Arg.
 PRF7 .5 Campos, Brz.
 XLHE .075 Shanghai, Chn.
 XLHF .05 Shanghai, Chn.
 4BH .6 Brisbane, Aust.
 No. 2 2. Warsaw, Pol. (1384)
 150. Motala, Sw. (1389) (testing)

1390(215.7)

CE139 .1 Rancagua, Chl.
 LR11 1. La Plata, Arg.
 2GN .1 Goulburn, Aust.
 5. Radio-Lyons, F. (1393)

1400(214.2)

CW43 .02 Cerro Largo, Uru.
 OAE6 .15 Arequipa, Peru
 PRD5 .5 R' de Janeiro, Brz.
 XLHO .1 Shanghai, Chn.
 2ZO .1 Palmerston, N. Z.
 6IX .3 Perth, Aust.
 Swedish Common Wave (1402)
 See SC in Index by Calls

1410(212.6)

CE141 .1 Concepcion, Chl.
 CX44 1. Montevideo, Uru.
 PRB5 .05 Franca, Brz. (1415)
 PRE5 .25 Uberaba, Brz.
 2KO .5 Newcastle, Aust.
 Portuguese Common Wave (1411)

1420(211.1)

CE142 .1 Santiago, Chl. (1425)
 CW44 .1 Paysandu, Uru.
 8. Paris, F. (1424)
 Radio LL

FOREIGN B. C. STATIONS BY FREQUENCIES

LS11 1. Buenos Aires, Arg.
 OFE .7 Tampere, Fin.
 12S .05 Auckland, N. Z.
 3XY .. Melbourne, Ausl.
 1.5 Beziars, F. (1429)
5 Alexandria, Eg. (1429)
5 Turku, Fin. (1429)

1450(206.8) []
 CE145 .1 Rancagua, Chl.
 CX46 .1 Montevideo, Uru.
 XLIB .01 Suchow, Chn.
 4ZW .06 Dunedin, N. Z.
 5MU .05 Murray Bridge, Ausl.
 5. Paris, F. (1456) Eiffel Tower

XQHF .2 Shanghai, Chn.
 2AY .05 Albury, Ausl. John Dower, 47 York St., (Sydney)

1490(201.2) []

CX48 1.5 Montevideo, Uru.
 ON4E .1 Chatelineau, Blg. (1492)
 XLKS .02 Kashing, Chn.
 No. 1 .1 Wallonia, Belg. (1492)
 South N.S.W., Ausl.
1 Binche, Blg. (1492)
2 Nimes, F. (1492)
1 Courtrai, Belg.
 Spanish Common Wave (1492)
 See EAJ in Index by Calls

1430(209.7) []

CE143 .1 Magallanes, Chl.
 HAE3 1.25 Miskolc, Hung. (1438)
 LP9 1.5 La Plata, Arg.
 LS11 .7 La Plata, Arg.
 PRD7 .25 Sorocaba, Brz.
 RW10 100. Minsk, U.S.R. (1438)
 2WL .05 Wollongong, Ausl. (1435)
 Russell Yeldon, Wollongong Brdcsty. Co., "Ferranti Products"

1460(205.4) []

CW46 .03 Tucuaembo, Uru.
 HAE4 1.25 Pecs, Hun. (1465)
 ON4EB .1 Antwerp, Belg. (1465)
 4CA .. Cairns, Ausl.
 7UV .3 Ulverstone, Ausl.
 1.5 Dresden, G. (1465)
1 Courtrai, Belg. (1465)
 Bega, Ausl.

1470(204) []

XOMO .25 Pei-ping, Chn.
 3ZM .14 Christchurch, N. Z.
 3 Plymouth, G. B. (1474)
 1. Bourne-mouth, G. B. (1474)

1440(208.2) []

CW45 .03 Durazno, Uru.
 OA6U .05 Arequipa, Peru (1443)
 PRG4 .25 Jaboticabal, Brz. (1442)
 XLHQ .03 Shanghai, Chn.
 2MO .05 Gunnedah, Ausl.
 Spanish Common Wave (1447)

1480(202.6) []

CW47 .1 Canelones, Uru.

1500(199.9) []

XOCL .0075 Tsinan, Chn.
 3AK .05 Melbourne, Ausl. Hobart, Ausl.
25 Pietersaari, Fin.
2 Radio Alcala, Sp.
 Belgium has several 100 watt stations on 1500.

1530(196.0) []

SCJ .2 Karlskrona, Swe.

FOREIGN B. C. STATIONS BY LOCATIONS

SOUTH AMERICA		ARGENTINA		BOLIVIA		BRAZIL		CHILE			
		Mar del Plata				Campoos		Sao Paulo			
	LU2	800	500		LU6	1380	500		PRA5	1295	5000
	LU7	1280	200		Mendoza				PRA6	815	1000
	Buenos Aires				LT4	760	200		PRB8	1000	50
	LR1	1070	500		LV10	860	500		PRB9	1017	5000
	LR2	910	6000		Resistencia				PRC4	1304	50
	LR3	950	12000		LT5	1160	500		PRE4	941	250
	LR4	890	12000		LT5	1160	500		PRE7	788	1000
	LR5	830	16000		LT5	1160	500		PRF3	895	5000
	LR6	870	16000		LT5	1160	500		Sorocaba		
	LR7	750	1000		LT5	1160	500		PRD7	1430	250
	LR8	1150	5000		LT5	1160	500		PRD9	769	250
	LR9	1030	5000		LT5	1160	500		Taubate		
	LR10	790	8000		LT5	1160	500		PRD3	1201	250
	LS1	710	5000		LT5	1160	500		Uberaba		
	LS2	1190	25000		LT5	1160	500		PRE5	1410	250
	LS3	630	4500		LT5	1160	500		PRE6	740	1500
	LS4	670	6000		LT5	1160	500		CHILE		
	LS5	1110	4500		LT5	1160	500		Concepcion		
	LS6	1350	3500		LT5	1160	500		CE108	1085	100
	LS7	1310	3000		LT5	1160	500		CE124	1245	100
	LS8	1230	20000		LT5	1160	500		CE141	1416	100
	LS9	1270	5000		LT5	1160	500		Curico		
	LS10	590	2870		LT5	1160	500		CE120	1205	100
	Cordoba				LT5	1160	500		Magallanes		
	LV2	880	7000		LT5	1160	500		CE104	1040	100
	LV3	620	2000		LT5	1160	500		CE119	1190	100
	La Plata				LT5	1160	500		CE143	1430	100
	LP9	1430	1500		LT5	1160	500		Osorno		
	LR11	1390	1000		LT5	1160	500		CE111	1115	100
	LS11	1430	700		LT5	1160	500		CE133	1335	100
	La Rioja				LT5	1160	500		Rancagua		
	LV14	1240	200		LT5	1160	500		CE139	1390	100
					LT5	1160	500		CE145	1450	100
					LT5	1160	500		San Antonio		
					LT5	1160	500		CE135	1355	100
					LT5	1160	500		Santiago		
					LT5	1160	500		CE58	585	1000

FOREIGN B. C. STATIONS BY LOCATIONS

<table style="width: 100%; border-collapse: collapse;"> <tr><td>CE62</td><td>625</td><td>1000</td></tr> <tr><td>CE66</td><td>665</td><td>1000</td></tr> <tr><td>CE70</td><td>705</td><td>1000</td></tr> <tr><td>CE78</td><td>785</td><td>1000</td></tr> <tr><td>CE82</td><td>825</td><td>1000</td></tr> <tr><td>CE86</td><td>865</td><td>1000</td></tr> <tr><td>CE90</td><td>905</td><td>1000</td></tr> <tr><td>CE94</td><td>945</td><td>5000</td></tr> <tr><td>CE98</td><td>985</td><td>5000</td></tr> <tr><td>CE100</td><td>1005</td><td>500</td></tr> <tr><td>CE102</td><td>1025</td><td>100</td></tr> <tr><td>CE106</td><td>1065</td><td>1000</td></tr> <tr><td>CE110</td><td>1105</td><td>1000</td></tr> <tr><td>CE114</td><td>1145</td><td>100</td></tr> <tr><td>CE118</td><td>1185</td><td>1000</td></tr> <tr><td>CE122</td><td>1225</td><td>250</td></tr> <tr><td>CE126</td><td>1265</td><td>100</td></tr> <tr><td>CE131</td><td>1315</td><td>100</td></tr> <tr><td>CE134</td><td>1345</td><td>150</td></tr> <tr><td>CE138</td><td>1385</td><td>1000</td></tr> <tr><td>CE142</td><td>1425</td><td>100</td></tr> <tr><td colspan="3">Talcahuano</td></tr> <tr><td>CE87</td><td>875</td><td>100</td></tr> <tr><td colspan="3">Talca</td></tr> <tr><td>CE115</td><td>1155</td><td>100</td></tr> <tr><td colspan="3">Temuco</td></tr> <tr><td>CE128</td><td>1285</td><td>500</td></tr> <tr><td colspan="3">Valdivia</td></tr> <tr><td>CE103</td><td>1035</td><td>100</td></tr> <tr><td colspan="3">Valparaiso</td></tr> <tr><td>CE76</td><td>765</td><td>10000</td></tr> <tr><td>CE81</td><td>810</td><td>1000</td></tr> <tr><td>CE88</td><td>885</td><td>1000</td></tr> <tr><td>CE101</td><td>1015</td><td>1000</td></tr> <tr><td>CE105</td><td>1050</td><td>1000</td></tr> <tr><td>CE109</td><td>1090</td><td>105</td></tr> <tr><td>CE117</td><td>1170</td><td>250</td></tr> <tr><td>CE125</td><td>1250</td><td>100</td></tr> <tr><td colspan="3">Vina del Mar</td></tr> <tr><td>CE73</td><td>730</td><td>1000</td></tr> </table>	CE62	625	1000	CE66	665	1000	CE70	705	1000	CE78	785	1000	CE82	825	1000	CE86	865	1000	CE90	905	1000	CE94	945	5000	CE98	985	5000	CE100	1005	500	CE102	1025	100	CE106	1065	1000	CE110	1105	1000	CE114	1145	100	CE118	1185	1000	CE122	1225	250	CE126	1265	100	CE131	1315	100	CE134	1345	150	CE138	1385	1000	CE142	1425	100	Talcahuano			CE87	875	100	Talca			CE115	1155	100	Temuco			CE128	1285	500	Valdivia			CE103	1035	100	Valparaiso			CE76	765	10000	CE81	810	1000	CE88	885	1000	CE101	1015	1000	CE105	1050	1000	CE109	1090	105	CE117	1170	250	CE125	1250	100	Vina del Mar			CE73	730	1000	<table style="width: 100%; border-collapse: collapse;"> <tr><td>OA6E</td><td>1350</td><td>30</td></tr> <tr><td>OA6U</td><td>1443</td><td>50</td></tr> <tr><td colspan="3">Lima</td></tr> <tr><td>OAX4A</td><td>750</td><td>1500</td></tr> <tr><td>OAX4B</td><td>1200</td><td>....</td></tr> <tr><td>OAX4C</td><td>1300</td><td>....</td></tr> <tr><td>OAX4E</td><td>980</td><td>50</td></tr> <tr><td>OA4K</td><td>1360</td><td>150</td></tr> <tr><td>OA4O</td><td>1277</td><td>100</td></tr> <tr><td>OA4D</td><td>1210</td><td>25</td></tr> </table>	OA6E	1350	30	OA6U	1443	50	Lima			OAX4A	750	1500	OAX4B	1200	OAX4C	1300	OAX4E	980	50	OA4K	1360	150	OA4O	1277	100	OA4D	1210	25	<table style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">URUGUAY</td></tr> <tr><td colspan="3">Artigas</td></tr> <tr><td>CW42</td><td>1380</td><td>20</td></tr> <tr><td colspan="3">Canelones</td></tr> <tr><td>CW47</td><td>1480</td><td>100</td></tr> <tr><td colspan="3">Cerro Largo</td></tr> <tr><td>CW43</td><td>1400</td><td>20</td></tr> <tr><td colspan="3">Colonia</td></tr> <tr><td>CW37</td><td>1280</td><td>25</td></tr> <tr><td colspan="3">Durazno</td></tr> <tr><td>CW25</td><td>1040</td><td>500</td></tr> <tr><td>CW45</td><td>1440</td><td>30</td></tr> <tr><td colspan="3">Florida</td></tr> <tr><td>CW33</td><td>1200</td><td>75</td></tr> <tr><td colspan="3">Mercedes</td></tr> <tr><td>CW29</td><td>1120</td><td>50</td></tr> <tr><td colspan="3">Montevideo</td></tr> <tr><td>CX2</td><td>570</td><td>....</td></tr> <tr><td>CX4</td><td>610</td><td>1000</td></tr> <tr><td>CX6</td><td>650</td><td>10000</td></tr> <tr><td>CX8</td><td>690</td><td>1000</td></tr> <tr><td>CX10</td><td>730</td><td>1000</td></tr> <tr><td>CX12</td><td>770</td><td>1000</td></tr> <tr><td>CX14</td><td>810</td><td>5000</td></tr> <tr><td>CX16</td><td>850</td><td>2500</td></tr> <tr><td>CX18</td><td>890</td><td>50</td></tr> <tr><td>CX20</td><td>930</td><td>2000</td></tr> <tr><td>CX22</td><td>970</td><td>250</td></tr> <tr><td>CX24</td><td>1010</td><td>10000</td></tr> <tr><td>CX26</td><td>1050</td><td>2000</td></tr> <tr><td>CX28</td><td>1090</td><td>2000</td></tr> <tr><td>CX30</td><td>1130</td><td>500</td></tr> <tr><td>CX32</td><td>1170</td><td>500</td></tr> <tr><td>CX34</td><td>1210</td><td>500</td></tr> <tr><td>CX36</td><td>1250</td><td>250</td></tr> <tr><td>CX38</td><td>1290</td><td>500</td></tr> <tr><td>CX40</td><td>1330</td><td>500</td></tr> <tr><td>CX42</td><td>1370</td><td>1000</td></tr> <tr><td>CX44</td><td>1410</td><td>1000</td></tr> <tr><td>CX46</td><td>1450</td><td>100</td></tr> <tr><td>CX48</td><td>1490</td><td>1500</td></tr> <tr><td colspan="3">Paysandu</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>CW40</td><td>1340</td><td>30</td></tr> <tr><td>CW44</td><td>1420</td><td>100</td></tr> <tr><td colspan="3">Rocha</td></tr> <tr><td>CW19</td><td>920</td><td>100</td></tr> <tr><td colspan="3">Salto</td></tr> <tr><td>CW23</td><td>1000</td><td>250</td></tr> <tr><td>CW27</td><td>1080</td><td>250</td></tr> <tr><td>CW31</td><td>1160</td><td>250</td></tr> <tr><td>CW32</td><td>1180</td><td>250</td></tr> <tr><td>CW34</td><td>1220</td><td>250</td></tr> <tr><td>CW36</td><td>1260</td><td>30</td></tr> <tr><td>CW38</td><td>1300</td><td>30</td></tr> <tr><td colspan="3">San Jose</td></tr> <tr><td>CW41</td><td>1360</td><td>50</td></tr> <tr><td colspan="3">Tucucarembo</td></tr> <tr><td>CW30</td><td>1140</td><td>....</td></tr> <tr><td>CW46</td><td>1460</td><td>30</td></tr> </table>	URUGUAY			Artigas			CW42	1380	20	Canelones			CW47	1480	100	Cerro Largo			CW43	1400	20	Colonia			CW37	1280	25	Durazno			CW25	1040	500	CW45	1440	30	Florida			CW33	1200	75	Mercedes			CW29	1120	50	Montevideo			CX2	570	CX4	610	1000	CX6	650	10000	CX8	690	1000	CX10	730	1000	CX12	770	1000	CX14	810	5000	CX16	850	2500	CX18	890	50	CX20	930	2000	CX22	970	250	CX24	1010	10000	CX26	1050	2000	CX28	1090	2000	CX30	1130	500	CX32	1170	500	CX34	1210	500	CX36	1250	250	CX38	1290	500	CX40	1330	500	CX42	1370	1000	CX44	1410	1000	CX46	1450	100	CX48	1490	1500	Paysandu			CW35	1240	250	CW39	1320	100	CW40	1340	30	CW44	1420	100	Rocha			CW19	920	100	Salto			CW23	1000	250	CW27	1080	250	CW31	1160	250	CW32	1180	250	CW34	1220	250	CW36	1260	30	CW38	1300	30	San Jose			CW41	1360	50	Tucucarembo			CW30	1140	CW46	1460	30	<table style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">EUROPE</td></tr> <tr><td colspan="3" style="text-align: center;">AUSTRIA</td></tr> <tr><td colspan="3">Dornbirn</td></tr> <tr><td>.....</td><td>1294</td><td>500</td></tr> <tr><td colspan="3">Graz</td></tr> <tr><td>.....</td><td>886</td><td>7000</td></tr> <tr><td colspan="3">Innsbruck</td></tr> <tr><td>.....</td><td>519</td><td>1000</td></tr> <tr><td colspan="3">Klangenfur</td></tr> <tr><td>.....</td><td>1294</td><td>4200</td></tr> <tr><td colspan="3">Linz</td></tr> <tr><td>.....</td><td>1294</td><td>500</td></tr> <tr><td colspan="3">Salzburg</td></tr> <tr><td>.....</td><td>1348</td><td>500</td></tr> <tr><td colspan="3">Vienna</td></tr> <tr><td>.....</td><td>592</td><td>120000</td></tr> <tr><td colspan="3">Vorarlberg</td></tr> <tr><td>.....</td><td>1294</td><td>5000</td></tr> <tr><td colspan="3" style="text-align: center;">BELGIUM</td></tr> <tr><td colspan="3">Antwerp</td></tr> <tr><td>ON4EB</td><td>1465</td><td>100</td></tr> <tr><td colspan="3">Binche</td></tr> <tr><td>.....</td><td>1492</td><td>100</td></tr> <tr><td colspan="3">Brussels</td></tr> <tr><td>No. 1</td><td>620</td><td>15000</td></tr> <tr><td>No. 2</td><td>932</td><td>15000</td></tr> <tr><td colspan="3">Chattelineau</td></tr> <tr><td>ON4CE</td><td>1492</td><td>100</td></tr> <tr><td colspan="3">Courtrai</td></tr> <tr><td>.....</td><td>1465</td><td>100</td></tr> <tr><td colspan="3">Liege</td></tr> <tr><td>ON4RW</td><td>1500</td><td>100</td></tr> <tr><td colspan="3">Radio Comte</td></tr> <tr><td>.....</td><td>1500</td><td>100</td></tr> <tr><td colspan="3">Seraing</td></tr> <tr><td>.....</td><td>1500</td><td>100</td></tr> <tr><td colspan="3">Verriers</td></tr> <tr><td>No. 1</td><td>1500</td><td>100</td></tr> <tr><td>No. 2</td><td>1500</td><td>100</td></tr> <tr><td colspan="3">Wallonia</td></tr> <tr><td>No. 1</td><td>1492</td><td>100</td></tr> <tr><td>No. 2</td><td>1500</td><td>100</td></tr> <tr><td colspan="3" style="text-align: center;">BULGARIA</td></tr> <tr><td colspan="3">Sofia</td></tr> <tr><td>.....</td><td>850</td><td>1000</td></tr> <tr><td colspan="3" style="text-align: center;">CZECHOSLOVAKIA</td></tr> <tr><td colspan="3">Bratislava</td></tr> <tr><td>OKR</td><td>1004</td><td>13500</td></tr> <tr><td colspan="3">Brno</td></tr> <tr><td>OKB</td><td>922</td><td>32000</td></tr> <tr><td colspan="3">Kosice</td></tr> <tr><td>.....</td><td>1158</td><td>2600</td></tr> <tr><td colspan="3">Moravska</td></tr> <tr><td>OKK</td><td>1113</td><td>11200</td></tr> <tr><td colspan="3">Praha</td></tr> <tr><td>OKP</td><td>633</td><td>120000</td></tr> <tr><td>No. 2</td><td>1204</td><td>5000</td></tr> <tr><td colspan="3" style="text-align: center;">DANZIG</td></tr> <tr><td colspan="3">Danzig</td></tr> <tr><td>.....</td><td>1303</td><td>500</td></tr> </table>	EUROPE			AUSTRIA			Dornbirn			1294	500	Graz			886	7000	Innsbruck			519	1000	Klangenfur			1294	4200	Linz			1294	500	Salzburg			1348	500	Vienna			592	120000	Vorarlberg			1294	5000	BELGIUM			Antwerp			ON4EB	1465	100	Binche			1492	100	Brussels			No. 1	620	15000	No. 2	932	15000	Chattelineau			ON4CE	1492	100	Courtrai			1465	100	Liege			ON4RW	1500	100	Radio Comte			1500	100	Seraing			1500	100	Verriers			No. 1	1500	100	No. 2	1500	100	Wallonia			No. 1	1492	100	No. 2	1500	100	BULGARIA			Sofia			850	1000	CZECHOSLOVAKIA			Bratislava			OKR	1004	13500	Brno			OKB	922	32000	Kosice			1158	2600	Moravska			OKK	1113	11200	Praha			OKP	633	120000	No. 2	1204	5000	DANZIG			Danzig			1303	500	<table style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">DENMARK</td></tr> <tr><td colspan="3">Copenhagen</td></tr> <tr><td>.....</td><td>1176</td><td>10000</td></tr> <tr><td colspan="3" style="text-align: center;">ESTONIA</td></tr> <tr><td colspan="3">Tallinn</td></tr> <tr><td>.....</td><td>731</td><td>20000</td></tr> <tr><td colspan="3">Tartu</td></tr> <tr><td>.....</td><td>517</td><td>500</td></tr> <tr><td colspan="3" style="text-align: center;">FINLAND</td></tr> <tr><td colspan="3">Helsinki</td></tr> <tr><td>OFA</td><td>895</td><td>10000</td></tr> <tr><td colspan="3">Pietarsaari</td></tr> <tr><td>.....</td><td>1500</td><td>250</td></tr> <tr><td colspan="3">Pori</td></tr> <tr><td>OFD</td><td>749</td><td>1000</td></tr> <tr><td colspan="3">Sortavala</td></tr> <tr><td>.....</td><td>749</td><td>200</td></tr> <tr><td colspan="3">Tampere</td></tr> <tr><td>OFE</td><td>1420</td><td>700</td></tr> <tr><td colspan="3">Turku</td></tr> <tr><td>.....</td><td>1429</td><td>500</td></tr> <tr><td colspan="3">Vilpurila</td></tr> <tr><td>OFH</td><td>527</td><td>10000</td></tr> <tr><td colspan="3" style="text-align: center;">FRANCE</td></tr> <tr><td colspan="3">Beziers</td></tr> <tr><td>.....</td><td>1429</td><td>1500</td></tr> <tr><td colspan="3">Bordeaux</td></tr> <tr><td>.....</td><td>1077</td><td>30000</td></tr> <tr><td>.....</td><td>1348</td><td>1000</td></tr> <tr><td colspan="3">Grenoble</td></tr> <tr><td>.....</td><td>583</td><td>15000</td></tr> <tr><td colspan="3">Lille</td></tr> <tr><td>.....</td><td>1213</td><td>60000</td></tr> <tr><td colspan="3">Limoges</td></tr> <tr><td>.....</td><td>913</td><td>500</td></tr> <tr><td colspan="3">Lyons</td></tr> <tr><td>YN</td><td>648</td><td>100000</td></tr> <tr><td>RL</td><td>1393</td><td>5000</td></tr> <tr><td colspan="3">Marseilles</td></tr> <tr><td>.....</td><td>749</td><td>5000</td></tr> <tr><td colspan="3">Montpellier</td></tr> <tr><td>.....</td><td>1339</td><td>5000</td></tr> <tr><td colspan="3">Nice</td></tr> <tr><td>.....</td><td>1249</td><td>2000</td></tr> <tr><td colspan="3">Nimes</td></tr> <tr><td>.....</td><td>1492</td><td>200</td></tr> <tr><td colspan="3">Paris</td></tr> <tr><td>AGEN</td><td>868</td><td>600</td></tr> <tr><td>FPTT</td><td>695</td><td>7000</td></tr> <tr><td>ILLE</td><td>1348</td><td>2000</td></tr> <tr><td>LL</td><td>1424</td><td>800</td></tr> <tr><td>PP</td><td>959</td><td>60000</td></tr> <tr><td>Eiffel</td><td>1456</td><td>5000</td></tr> <tr><td colspan="3">Radio-Normandie</td></tr> <tr><td>.....</td><td>1113</td><td>10000</td></tr> <tr><td colspan="3">Rennes</td></tr> <tr><td>.....</td><td>1040</td><td>40000</td></tr> <tr><td colspan="3">Strasbourg</td></tr> <tr><td>SPTT</td><td>859</td><td>40000</td></tr> <tr><td colspan="3">Toulouse</td></tr> <tr><td>.....</td><td>776</td><td>2000</td></tr> <tr><td>.....</td><td>913</td><td>60000</td></tr> <tr><td colspan="3" style="text-align: center;">GERMANY</td></tr> <tr><td colspan="3">Berlin</td></tr> <tr><td>.....</td><td>841</td><td>100000</td></tr> <tr><td colspan="3">Bremen</td></tr> <tr><td>.....</td><td>1330</td><td>1500</td></tr> <tr><td colspan="3">Breslau</td></tr> <tr><td>.....</td><td>950</td><td>100000</td></tr> <tr><td colspan="3">Cassel</td></tr> <tr><td>.....</td><td>1195</td><td>1500</td></tr> </table>	DENMARK			Copenhagen			1176	10000	ESTONIA			Tallinn			731	20000	Tartu			517	500	FINLAND			Helsinki			OFA	895	10000	Pietarsaari			1500	250	Pori			OFD	749	1000	Sortavala			749	200	Tampere			OFE	1420	700	Turku			1429	500	Vilpurila			OFH	527	10000	FRANCE			Beziers			1429	1500	Bordeaux			1077	30000	1348	1000	Grenoble			583	15000	Lille			1213	60000	Limoges			913	500	Lyons			YN	648	100000	RL	1393	5000	Marseilles			749	5000	Montpellier			1339	5000	Nice			1249	2000	Nimes			1492	200	Paris			AGEN	868	600	FPTT	695	7000	ILLE	1348	2000	LL	1424	800	PP	959	60000	Eiffel	1456	5000	Radio-Normandie			1113	10000	Rennes			1040	40000	Strasbourg			SPTT	859	40000	Toulouse			776	2000	913	60000	GERMANY			Berlin			841	100000	Bremen			1330	1500	Breslau			950	100000	Cassel			1195	1500
CE62	625	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE66	665	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE70	705	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE78	785	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE82	825	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE86	865	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE90	905	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE94	945	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE98	985	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE100	1005	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE102	1025	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE106	1065	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE110	1105	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE114	1145	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE118	1185	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE122	1225	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE126	1265	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE131	1315	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE134	1345	150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE138	1385	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE142	1425	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Talcahuano																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CE87	875	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Talca																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CE115	1155	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Temuco																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CE128	1285	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Valdivia																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CE103	1035	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Valparaiso																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CE76	765	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE81	810	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE88	885	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE101	1015	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE105	1050	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE109	1090	105																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE117	1170	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CE125	1250	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Vina del Mar																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CE73	730	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
OA6E	1350	30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
OA6U	1443	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Lima																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OAX4A	750	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
OAX4B	1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
OAX4C	1300																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
OAX4E	980	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
OA4K	1360	150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
OA4O	1277	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
OA4D	1210	25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
URUGUAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Artigas																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW42	1380	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Canelones																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW47	1480	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Cerro Largo																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW43	1400	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Colonia																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW37	1280	25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Durazno																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW25	1040	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW45	1440	30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Florida																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW33	1200	75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Mercedes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW29	1120	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Montevideo																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CX2	570																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX4	610	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX6	650	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX8	690	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX10	730	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX12	770	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX14	810	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX16	850	2500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX18	890	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX20	930	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX22	970	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX24	1010	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX26	1050	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX28	1090	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX30	1130	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX32	1170	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX34	1210	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX36	1250	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX38	1290	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX40	1330	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX42	1370	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX44	1410	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX46	1450	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CX48	1490	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Paysandu																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW35	1240	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW39	1320	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW40	1340	30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW44	1420	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Rocha																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW19	920	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Salto																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW23	1000	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW27	1080	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW31	1160	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW32	1180	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW34	1220	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW36	1260	30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW38	1300	30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
San Jose																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW41	1360	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Tucucarembo																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW30	1140																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CW46	1460	30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
EUROPE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
AUSTRIA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Dornbirn																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1294	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Graz																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	886	7000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Innsbruck																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	519	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Klangenfur																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1294	4200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Linz																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1294	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Salzburg																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1348	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Vienna																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	592	120000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Vorarlberg																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1294	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
BELGIUM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Antwerp																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ON4EB	1465	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Binche																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1492	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Brussels																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
No. 1	620	15000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
No. 2	932	15000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Chattelineau																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ON4CE	1492	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Courtrai																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1465	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Liege																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ON4RW	1500	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Radio Comte																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1500	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Seraing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1500	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Verriers																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
No. 1	1500	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
No. 2	1500	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Wallonia																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
No. 1	1492	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
No. 2	1500	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
BULGARIA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Sofia																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	850	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CZECHOSLOVAKIA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Bratislava																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OKR	1004	13500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Brno																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OKB	922	32000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Kosice																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1158	2600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Moravska																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OKK	1113	11200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Praha																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OKP	633	120000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
No. 2	1204	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
DANZIG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Danzig																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1303	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
DENMARK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Copenhagen																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1176	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ESTONIA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Tallinn																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	731	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Tartu																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	517	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
FINLAND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Helsinki																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OFA	895	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Pietarsaari																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1500	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Pori																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OFD	749	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Sortavala																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	749	200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Tampere																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OFE	1420	700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Turku																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1429	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Vilpurila																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OFH	527	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
FRANCE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Beziers																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1429	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Bordeaux																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1077	30000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
.....	1348	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Grenoble																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	583	15000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Lille																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1213	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Limoges																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	913	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Lyons																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
YN	648	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
RL	1393	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Marseilles																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	749	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Montpellier																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1339	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Nice																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1249	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Nimes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1492	200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Paris																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
AGEN	868	600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
FPTT	695	7000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ILLE	1348	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
LL	1424	800																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
PP	959	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Eiffel	1456	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Radio-Normandie																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1113	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Rennes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1040	40000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Strasbourg																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SPTT	859	40000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Toulouse																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	776	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
.....	913	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
GERMANY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Berlin																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	841	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Bremen																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1330	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Breslau																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	950	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Cassel																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.....	1195	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
<table style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">COLOMBIA</td></tr> <tr><td colspan="3">Armenia</td></tr> <tr><td>HJ4ABJ</td><td>1000</td><td>50</td></tr> <tr><td colspan="3">Barranquilla</td></tr> <tr><td>HJ1ABA</td><td>1330</td><td>100</td></tr> <tr><td colspan="3">Bogota</td></tr> <tr><td>HJN</td><td>681</td><td>500</td></tr> <tr><td>HJ3ABD</td><td>1100</td><td>50</td></tr> <tr><td>HJ3ABE</td><td>1200</td><td>1000</td></tr> <tr><td>HJ3ABH</td><td>1005</td><td>2000</td></tr> <tr><td>HJ3ABK</td><td>1320</td><td>50</td></tr> <tr><td colspan="3">Cartagena</td></tr> <tr><td>HJ1ABM</td><td>1154</td><td>50</td></tr> <tr><td colspan="3">Medellin</td></tr> <tr><td>HJ4ABK</td><td>1230</td><td>300</td></tr> <tr><td colspan="3" style="text-align: center;">ECUADOR</td></tr> <tr><td colspan="3">Guyaquil</td></tr> <tr><td>HC2ET</td><td>1153</td><td>300</td></tr> <tr><td>HC2JB</td><td>1250</td><td>30</td></tr> <tr><td colspan="3" style="text-align: center;">PARAGUAY</td></tr> <tr><td colspan="3">Asuncion</td></tr> <tr><td>ZP1</td><td>770</td><td>500</td></tr> <tr><td>ZP3</td><td>1000</td><td>300</td></tr> <tr><td>ZP4</td><td>1200</td><td>100</td></tr> <tr><td>ZP5</td><td>1376</td><td>100</td></tr> <tr><td>ZP7</td><td>1083</td><td>700</td></tr> <tr><td>ZP9</td><td>898</td><td>1500</td></tr> <tr><td colspan="3">Villarrica</td></tr> <tr><td>ZP15</td><td>700</td><td>....</td></tr> <tr><td colspan="3" style="text-align: center;">PERU</td></tr> <tr><td colspan="3">Arequippa</td></tr> <tr><td>OA6D</td><td>1400</td><td>150</td></tr> </table>	COLOMBIA			Armenia			HJ4ABJ	1000	50	Barranquilla			HJ1ABA	1330	100	Bogota			HJN	681	500	HJ3ABD	1100	50	HJ3ABE	1200	1000	HJ3ABH	1005	2000	HJ3ABK	1320	50	Cartagena			HJ1ABM	1154	50	Medellin			HJ4ABK	1230	300	ECUADOR			Guyaquil			HC2ET	1153	300	HC2JB	1250	30	PARAGUAY			Asuncion			ZP1	770	500	ZP3	1000	300	ZP4	1200	100	ZP5	1376	100	ZP7	1083	700	ZP9	898	1500	Villarrica			ZP15	700	PERU			Arequippa			OA6D	1400	150	<table style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">VENEZUELA</td></tr> <tr><td colspan="3">Caracas</td></tr> <tr><td>YVIRC</td><td>960</td><td>5000</td></tr> <tr><td>YV3RC</td><td>1200</td><td>3000</td></tr> </table>	VENEZUELA			Caracas			YVIRC	960	5000	YV3RC	1200	3000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
COLOMBIA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Armenia																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HJ4ABJ	1000	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Barranquilla																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HJ1ABA	1330	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Bogota																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HJN	681	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
HJ3ABD	1100	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
HJ3ABE	1200	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
HJ3ABH	1005	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
HJ3ABK	1320	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Cartagena																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HJ1ABM	1154	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Medellin																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HJ4ABK	1230	300																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ECUADOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Guyaquil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HC2ET	1153	300																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
HC2JB	1250	30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
PARAGUAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Asuncion																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ZP1	770	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ZP3	1000	300																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ZP4	1200	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ZP5	1376	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ZP7	1083	700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ZP9	898	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Villarrica																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ZP15	700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
PERU																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Arequippa																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OA6D	1400	150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
VENEZUELA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Caracas																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
YVIRC	960	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
YV3RC	1200	3000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

FOREIGN B. C. STATIONS BY LOCATIONS

<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Coblenz</td> <td style="width: 20%;">1195</td> <td style="width: 20%;">2000</td> <td style="width: 30%;"></td> </tr> <tr> <td>Cologne</td> <td>658</td> <td>100000</td> <td></td> </tr> <tr> <td>Dresden</td> <td>1285</td> <td>250</td> <td></td> </tr> <tr> <td>Flensburg</td> <td>1330</td> <td>1500</td> <td></td> </tr> <tr> <td>Frankfurt</td> <td>1195</td> <td>17000</td> <td></td> </tr> <tr> <td>Freiburg</td> <td>1195</td> <td>5000</td> <td></td> </tr> <tr> <td>Gleiwitz</td> <td>1231</td> <td>5000</td> <td></td> </tr> <tr> <td>Hamburg</td> <td>904</td> <td>100000</td> <td></td> </tr> <tr> <td>Hanover</td> <td>1330</td> <td>1500</td> <td></td> </tr> <tr> <td>Kaiserslautern</td> <td>1195</td> <td>1500</td> <td></td> </tr> <tr> <td>Konigsberg</td> <td>1031</td> <td>60000</td> <td></td> </tr> <tr> <td></td> <td>1348</td> <td>1500</td> <td></td> </tr> <tr> <td>Leipsig</td> <td>785</td> <td>120000</td> <td></td> </tr> <tr> <td>Magdeburg</td> <td>1330</td> <td>1500</td> <td></td> </tr> <tr> <td>Munich</td> <td>740</td> <td>100000</td> <td></td> </tr> <tr> <td>Nurnberg</td> <td>1267</td> <td>2000</td> <td></td> </tr> <tr> <td>Stettin</td> <td>1330</td> <td>1500</td> <td></td> </tr> <tr> <td>Stuttgart</td> <td>574</td> <td>100000</td> <td></td> </tr> <tr> <td>Trier</td> <td>1195</td> <td>2000</td> <td></td> </tr> </table>	Coblenz	1195	2000		Cologne	658	100000		Dresden	1285	250		Flensburg	1330	1500		Frankfurt	1195	17000		Freiburg	1195	5000		Gleiwitz	1231	5000		Hamburg	904	100000		Hanover	1330	1500		Kaiserslautern	1195	1500		Konigsberg	1031	60000			1348	1500		Leipsig	785	120000		Magdeburg	1330	1500		Munich	740	100000		Nurnberg	1267	2000		Stettin	1330	1500		Stuttgart	574	100000		Trier	1195	2000		<table border="0" style="width: 100%;"> <tr> <th colspan="4" style="text-align: center;">IRISH FREE STATE</th> </tr> <tr> <td>Athlone</td> <td>565</td> <td>60000</td> <td></td> </tr> <tr> <td>Belfast</td> <td>977</td> <td>1000</td> <td></td> </tr> <tr> <td>Cork</td> <td>1240</td> <td>1000</td> <td></td> </tr> <tr> <td>Dublin</td> <td>1348</td> <td>500</td> <td></td> </tr> <tr> <td>2RN</td> <td></td> <td></td> <td></td> </tr> <tr> <th colspan="4" style="text-align: center;">ITALY</th> </tr> <tr> <td>Bari</td> <td>1059</td> <td>20000</td> <td></td> </tr> <tr> <td>Bolzano</td> <td>536</td> <td>1000</td> <td></td> </tr> <tr> <td>Firenze</td> <td>610</td> <td>20000</td> <td></td> </tr> <tr> <td>Genoa</td> <td>986</td> <td>10000</td> <td></td> </tr> <tr> <td>Milan</td> <td>814</td> <td>50000</td> <td></td> </tr> <tr> <td>No. 2</td> <td>1348</td> <td>4000</td> <td></td> </tr> <tr> <td>Naples</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IINA</td> <td>1104</td> <td>1500</td> <td></td> </tr> <tr> <td>Palermo</td> <td>565</td> <td>4000</td> <td></td> </tr> <tr> <td>Rome</td> <td>713</td> <td>50000</td> <td></td> </tr> <tr> <td>IIRO</td> <td>1258</td> <td>1000</td> <td></td> </tr> <tr> <td>Trieste</td> <td>1222</td> <td>10000</td> <td></td> </tr> <tr> <td>Turin</td> <td>1140</td> <td>7000</td> <td></td> </tr> <tr> <td>No. 2</td> <td>1357</td> <td>200</td> <td></td> </tr> <tr> <th colspan="4" style="text-align: center;">LATVIA</th> </tr> <tr> <td>Kuldiga</td> <td>1258</td> <td>10000</td> <td></td> </tr> <tr> <td>Madonna</td> <td>1104</td> <td>50000</td> <td></td> </tr> <tr> <td>Riga</td> <td>583</td> <td>15000</td> <td></td> </tr> <tr> <td>YLZ</td> <td></td> <td></td> <td></td> </tr> <tr> <th colspan="4" style="text-align: center;">NORWAY</th> </tr> <tr> <td>Aalesund</td> <td>850</td> <td>350</td> <td></td> </tr> <tr> <td>LKA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bergen</td> <td>850</td> <td>1000</td> <td></td> </tr> <tr> <td>LKB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bodo</td> <td>850</td> <td>500</td> <td></td> </tr> <tr> <td>LKD</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fredrikstad</td> <td>776</td> <td>700</td> <td></td> </tr> <tr> <td>LKF</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hamar</td> <td>519</td> <td>700</td> <td></td> </tr> <tr> <td>LKH</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Kristianssand</td> <td>1276</td> <td>500</td> <td></td> </tr> <tr> <td>LKK</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nobodden</td> <td>1357</td> <td>150</td> <td></td> </tr> <tr> <td>LKN</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Porsgrund</td> <td>850</td> <td>700</td> <td></td> </tr> <tr> <td>LKP</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Rjukan</td> <td>1348</td> <td>150</td> <td></td> </tr> <tr> <td>LKR</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stavanger</td> <td>1276</td> <td>500</td> <td></td> </tr> <tr> <td>LKS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tromsøe</td> <td>1186</td> <td>100</td> <td></td> </tr> <tr> <td>LKM</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Trondelag</td> <td>629</td> <td>20000</td> <td></td> </tr> <tr> <td>LKT</td> <td></td> <td></td> <td></td> </tr> <tr> <th colspan="4" style="text-align: center;">POLAND</th> </tr> <tr> <td>Cracow</td> <td>1022</td> <td>2000</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Katowice</td> <td>758</td> <td>12000</td> <td></td> </tr> </table>	IRISH FREE STATE				Athlone	565	60000		Belfast	977	1000		Cork	1240	1000		Dublin	1348	500		2RN				ITALY				Bari	1059	20000		Bolzano	536	1000		Firenze	610	20000		Genoa	986	10000		Milan	814	50000		No. 2	1348	4000		Naples				IINA	1104	1500		Palermo	565	4000		Rome	713	50000		IIRO	1258	1000		Trieste	1222	10000		Turin	1140	7000		No. 2	1357	200		LATVIA				Kuldiga	1258	10000		Madonna	1104	50000		Riga	583	15000		YLZ				NORWAY				Aalesund	850	350		LKA				Bergen	850	1000		LKB				Bodo	850	500		LKD				Fredrikstad	776	700		LKF				Hamar	519	700		LKH				Kristianssand	1276	500		LKK				Nobodden	1357	150		LKN				Porsgrund	850	700		LKP				Rjukan	1348	150		LKR				Stavanger	1276	500		LKS				Tromsøe	1186	100		LKM				Trondelag	629	20000		LKT				POLAND				Cracow	1022	2000						Katowice	758	12000		<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Lodz</td> <td style="width: 20%;">1339</td> <td style="width: 20%;">1700</td> <td style="width: 30%;"></td> </tr> <tr> <td>Lwow</td> <td>795</td> <td>16000</td> <td></td> </tr> <tr> <td>Poznan</td> <td>868</td> <td>16000</td> <td></td> </tr> <tr> <td>Porun</td> <td>986</td> <td>24000</td> <td></td> </tr> <tr> <td>Warsaw</td> <td>1384</td> <td>2000</td> <td></td> </tr> <tr> <td>No. 2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Wilno</td> <td>536</td> <td>16000</td> <td></td> </tr> <tr> <th colspan="4" style="text-align: center;">PORTUGAL</th> </tr> <tr> <td>Lisbon</td> <td>629</td> <td>20000</td> <td></td> </tr> <tr> <td>CTIAA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Parede</td> <td>1031</td> <td>5000</td> <td></td> </tr> <tr> <td>CTIGL</td> <td></td> <td></td> <td></td> </tr> <tr> <th colspan="4" style="text-align: center;">ROUMANIA</th> </tr> <tr> <td>Bucharest</td> <td>823</td> <td>12000</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th colspan="4" style="text-align: center;">SPAIN</th> </tr> <tr> <td>Alcala</td> <td>1500</td> <td>200</td> <td></td> </tr> <tr> <td>Barcelona</td> <td>795</td> <td>7500</td> <td></td> </tr> <tr> <td>EAJ1</td> <td>1022</td> <td>3000</td> <td></td> </tr> <tr> <td>EAJ15</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Madrid</td> <td>731</td> <td>3000</td> <td></td> </tr> <tr> <td>EAJ2</td> <td>1095</td> <td>7000</td> <td></td> </tr> <tr> <td>EAJ7</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Oviedo</td> <td>1022</td> <td>700</td> <td></td> </tr> <tr> <td>EAJ19</td> <td></td> <td></td> <td></td> </tr> <tr> <td>San Sebastian</td> <td>1258</td> <td>3000</td> <td></td> </tr> <tr> <td>EAJ8</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Seville</td> <td>731</td> <td>1500</td> <td></td> </tr> <tr> <td>EAJ5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Valencia</td> <td>850</td> <td>1500</td> <td></td> </tr> <tr> <td>EAJ3</td> <td></td> <td></td> <td></td> </tr> </table> <p style="margin-top: 10px;">Spain has many stations of 100 watts or less on 1492 and 1500 kcs. For complete list see Index by Calls.</p>	Lodz	1339	1700		Lwow	795	16000		Poznan	868	16000		Porun	986	24000		Warsaw	1384	2000		No. 2				Wilno	536	16000		PORTUGAL				Lisbon	629	20000		CTIAA				Parede	1031	5000		CTIGL				ROUMANIA				Bucharest	823	12000						SPAIN				Alcala	1500	200		Barcelona	795	7500		EAJ1	1022	3000		EAJ15				Madrid	731	3000		EAJ2	1095	7000		EAJ7				Oviedo	1022	700		EAJ19				San Sebastian	1258	3000		EAJ8				Seville	731	1500		EAJ5				Valencia	850	1500		EAJ3				<table border="0" style="width: 100%;"> <tr> <th colspan="3" style="text-align: center;">SWITZERLAND</th> </tr> <tr> <td>Basle</td> <td>1375</td> <td>500</td> </tr> <tr> <td>Berne</td> <td>1375</td> <td>500</td> </tr> <tr> <td>Beremunster</td> <td>556</td> <td>100000</td> </tr> <tr> <td>Monte Ceneri</td> <td>1167</td> <td>15000</td> </tr> <tr> <td>Sottens</td> <td>677</td> <td>25000</td> </tr> <tr> <th colspan="3" style="text-align: center;">U. S. S. R.</th> </tr> <tr> <td>Alexandrovsk</td> <td>580</td> <td>1200</td> </tr> <tr> <td>RW38</td> <td></td> <td></td> </tr> <tr> <td>Archangel</td> <td>662</td> <td>10000</td> </tr> <tr> <td>RW36</td> <td></td> <td></td> </tr> <tr> <td>Astrakhan</td> <td>589</td> <td>10000</td> </tr> <tr> <td>RW35</td> <td></td> <td></td> </tr> <tr> <td>Dnepropetrovsk</td> <td>913</td> <td>10000</td> </tr> <tr> <td>RW30</td> <td></td> <td></td> </tr> <tr> <td>Ellsta</td> <td>671</td> <td>2000</td> </tr> <tr> <td>RW32</td> <td></td> <td></td> </tr> <tr> <td>Engels</td> <td>959</td> <td>1000</td> </tr> <tr> <td>RW55</td> <td></td> <td></td> </tr> <tr> <td>Frounze</td> <td>608</td> <td>4000</td> </tr> <tr> <td>RW82</td> <td></td> <td></td> </tr> <tr> <td>Gomel</td> <td>959</td> <td>1200</td> </tr> <tr> <td>RW40</td> <td></td> <td></td> </tr> <tr> <td>Gorki</td> <td>598</td> <td>10000</td> </tr> <tr> <td>RW42</td> <td></td> <td></td> </tr> <tr> <td>Groznyl</td> <td>676</td> <td>1200</td> </tr> <tr> <td>RW23</td> <td></td> <td></td> </tr> <tr> <td>Igarka</td> <td>635</td> <td>2000</td> </tr> <tr> <td>RW85</td> <td></td> <td></td> </tr> <tr> <td>Ijevsk</td> <td>825</td> <td>4000</td> </tr> <tr> <td>RW78</td> <td></td> <td></td> </tr> <tr> <td>Lochar-Ola</td> <td>888</td> <td>1000</td> </tr> <tr> <td>RW61</td> <td></td> <td></td> </tr> <tr> <td>Ivanovo</td> <td>625</td> <td>10000</td> </tr> <tr> <td>RW31</td> <td></td> <td></td> </tr> <tr> <td>Karaganda</td> <td>653</td> <td>10000</td> </tr> <tr> <td>RW46</td> <td></td> <td></td> </tr> <tr> <td>Kazan</td> <td>686.5</td> <td>1200</td> </tr> <tr> <td>RW17</td> <td></td> <td></td> </tr> <tr> <td>Kharkov</td> <td>644</td> <td>10000</td> </tr> <tr> <td>RW20</td> <td></td> <td></td> </tr> <tr> <td>Kiev</td> <td>1185</td> <td>10000</td> </tr> <tr> <td>RW9</td> <td></td> <td></td> </tr> <tr> <td>Krasnodar</td> <td>722</td> <td>36000</td> </tr> <tr> <td>RW33</td> <td></td> <td></td> </tr> <tr> <td>Leningrad</td> <td>1050</td> <td>10000</td> </tr> <tr> <td>RW70</td> <td></td> <td></td> </tr> <tr> <td>Magnitogorsk</td> <td>1040</td> <td>10000</td> </tr> <tr> <td></td> <td>571</td> <td>10000</td> </tr> <tr> <td>Makhatch</td> <td></td> <td></td> </tr> <tr> <td>RW27</td> <td>689</td> <td>4000</td> </tr> <tr> <td>Minsk</td> <td></td> <td></td> </tr> <tr> <td>RW10</td> <td>1438</td> <td>100000</td> </tr> <tr> <td>Moscow</td> <td></td> <td></td> </tr> <tr> <td>RW39</td> <td>832</td> <td>100000</td> </tr> <tr> <td>Mourmansk</td> <td></td> <td></td> </tr> <tr> <td>RW79</td> <td>610</td> <td>10000</td> </tr> <tr> <td>Naltchik</td> <td></td> <td></td> </tr> <tr> <td>RW51</td> <td>748.1</td> <td>1200</td> </tr> <tr> <td>Odessa</td> <td></td> <td></td> </tr> <tr> <td>RW69</td> <td>968</td> <td>3000</td> </tr> <tr> <td>Oufa</td> <td></td> <td></td> </tr> <tr> <td>RW22</td> <td>617</td> <td>10000</td> </tr> <tr> <td>Oukhta</td> <td></td> <td></td> </tr> <tr> <td>RW67</td> <td>968</td> <td>10000</td> </tr> <tr> <td>Oust-Abakansk</td> <td></td> <td></td> </tr> <tr> <td>RW84</td> <td>635</td> <td>1200</td> </tr> <tr> <td>Penza</td> <td></td> <td></td> </tr> <tr> <td>RW56</td> <td>640</td> <td>1200</td> </tr> <tr> <td>Petrovavlovsk</td> <td></td> <td></td> </tr> <tr> <td>RW71</td> <td>689</td> <td>1200</td> </tr> </table>	SWITZERLAND			Basle	1375	500	Berne	1375	500	Beremunster	556	100000	Monte Ceneri	1167	15000	Sottens	677	25000	U. S. S. R.			Alexandrovsk	580	1200	RW38			Archangel	662	10000	RW36			Astrakhan	589	10000	RW35			Dnepropetrovsk	913	10000	RW30			Ellsta	671	2000	RW32			Engels	959	1000	RW55			Frounze	608	4000	RW82			Gomel	959	1200	RW40			Gorki	598	10000	RW42			Groznyl	676	1200	RW23			Igarka	635	2000	RW85			Ijevsk	825	4000	RW78			Lochar-Ola	888	1000	RW61			Ivanovo	625	10000	RW31			Karaganda	653	10000	RW46			Kazan	686.5	1200	RW17			Kharkov	644	10000	RW20			Kiev	1185	10000	RW9			Krasnodar	722	36000	RW33			Leningrad	1050	10000	RW70			Magnitogorsk	1040	10000		571	10000	Makhatch			RW27	689	4000	Minsk			RW10	1438	100000	Moscow			RW39	832	100000	Mourmansk			RW79	610	10000	Naltchik			RW51	748.1	1200	Odessa			RW69	968	3000	Oufa			RW22	617	10000	Oukhta			RW67	968	10000	Oust-Abakansk			RW84	635	1200	Penza			RW56	640	1200	Petrovavlovsk			RW71	689	1200
Coblenz	1195	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Cologne	658	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Dresden	1285	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Flensburg	1330	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Frankfurt	1195	17000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Freiburg	1195	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Gleiwitz	1231	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Hamburg	904	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Hanover	1330	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Kaiserslautern	1195	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Konigsberg	1031	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	1348	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Leipsig	785	120000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Magdeburg	1330	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Munich	740	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Nurnberg	1267	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Stettin	1330	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Stuttgart	574	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Trier	1195	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
IRISH FREE STATE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Athlone	565	60000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Belfast	977	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Cork	1240	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Dublin	1348	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
2RN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
ITALY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Bari	1059	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Bolzano	536	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Firenze	610	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Genoa	986	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Milan	814	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
No. 2	1348	4000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Naples																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
IINA	1104	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Palermo	565	4000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Rome	713	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
IIRO	1258	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Trieste	1222	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Turin	1140	7000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
No. 2	1357	200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LATVIA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Kuldiga	1258	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Madonna	1104	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Riga	583	15000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
YLZ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NORWAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Aalesund	850	350																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Bergen	850	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Bodo	850	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Fredrikstad	776	700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Hamar	519	700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Kristianssand	1276	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Nobodden	1357	150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Porsgrund	850	700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Rjukan	1348	150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Stavanger	1276	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Tromsøe	1186	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Trondelag	629	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LKT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
POLAND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Cracow	1022	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Katowice	758	12000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Lodz	1339	1700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Lwow	795	16000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Poznan	868	16000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Porun	986	24000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Warsaw	1384	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
No. 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Wilno	536	16000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
PORTUGAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Lisbon	629	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CTIAA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Parede	1031	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CTIGL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
ROUMANIA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Bucharest	823	12000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SPAIN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Alcala	1500	200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Barcelona	795	7500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EAJ1	1022	3000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EAJ15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Madrid	731	3000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EAJ2	1095	7000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EAJ7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Oviedo	1022	700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EAJ19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
San Sebastian	1258	3000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EAJ8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Seville	731	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EAJ5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Valencia	850	1500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EAJ3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
SWITZERLAND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Basle	1375	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Berne	1375	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Beremunster	556	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Monte Ceneri	1167	15000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Sottens	677	25000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
U. S. S. R.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Alexandrovsk	580	1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW38																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Archangel	662	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW36																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Astrakhan	589	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW35																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Dnepropetrovsk	913	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Ellsta	671	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW32																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Engels	959	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW55																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Frounze	608	4000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW82																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Gomel	959	1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Gorki	598	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW42																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Groznyl	676	1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW23																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Igarka	635	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW85																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Ijevsk	825	4000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW78																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Lochar-Ola	888	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW61																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Ivanovo	625	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW31																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Karaganda	653	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW46																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Kazan	686.5	1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW17																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Kharkov	644	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Kiev	1185	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Krasnodar	722	36000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW33																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Leningrad	1050	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RW70																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Magnitogorsk	1040	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	571	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Makhatch																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW27	689	4000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Minsk																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW10	1438	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Moscow																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW39	832	100000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Mourmansk																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW79	610	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Naltchik																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW51	748.1	1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Odessa																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW69	968	3000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Oufa																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW22	617	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Oukhta																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW67	968	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Oust-Abakansk																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW84	635	1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Penza																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW56	640	1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Petrovavlovsk																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
RW71	689	1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
<table border="0" style="width: 100%;"> <tr> <th colspan="3" style="text-align: center;">GREAT BRITAIN</th> </tr> <tr> <td>Aberdeen</td> <td>1285</td> <td>1000</td> </tr> <tr> <td>Bournemouth</td> <td>1474</td> <td>1000</td> </tr> <tr> <td>Cardiff</td> <td>804</td> <td>50000</td> </tr> <tr> <td>WN</td> <td>1149</td> <td>20000</td> </tr> <tr> <td>Davenport</td> <td>1013</td> <td>50000</td> </tr> <tr> <td>Falkirk</td> <td>1050</td> <td>50000</td> </tr> <tr> <td>SR</td> <td>767</td> <td>50000</td> </tr> <tr> <td>London</td> <td></td> <td></td> </tr> <tr> <td>LN</td> <td>1149</td> <td>20000</td> </tr> <tr> <td>LR</td> <td>877</td> <td>50000</td> </tr> <tr> <td>Manchester</td> <td>1149</td> <td>20000</td> </tr> <tr> <td>NN</td> <td>668</td> <td>50000</td> </tr> <tr> <td>NR</td> <td></td> <td></td> </tr> <tr> <td>Newcastle</td> <td></td> <td>1000</td> </tr> <tr> <td>Plymouth</td> <td>1474</td> <td>300</td> </tr> <tr> <th colspan="3" style="text-align: center;">HOLLAND</th> </tr> <tr> <td>Hilversum</td> <td>995</td> <td>20000</td> </tr> <tr> <td>PFBI</td> <td></td> <td></td> </tr> <tr> <th colspan="3" style="text-align: center;">HUNGARY</th> </tr> <tr> <td>Budapest</td> <td>546</td> <td>120000</td> </tr> <tr> <td>HAL</td> <td></td> <td></td> </tr> <tr> <td>Magyarovar</td> <td>1321</td> <td>1250</td> </tr> <tr> <td>HAE-2</td> <td></td> <td></td> </tr> <tr> <td>Miskolc</td> <td>1438</td> <td>1250</td> </tr> <tr> <td>HAE-3</td> <td></td> <td></td> </tr> <tr> <td>Nyiregyhaza</td> <td>1122</td> <td>6200</td> </tr> <tr> <td>HAE</td> <td></td> <td></td> </tr> <tr> <td>Pecs</td> <td>1465</td> <td>1250</td> </tr> <tr> <td>HAE-4</td> <td></td> <td></td> </tr> </table>	GREAT BRITAIN			Aberdeen	1285	1000	Bournemouth	1474	1000	Cardiff	804	50000	WN	1149	20000	Davenport	1013	50000	Falkirk	1050	50000	SR	767	50000	London			LN	1149	20000	LR	877	50000	Manchester	1149	20000	NN	668	50000	NR			Newcastle		1000	Plymouth	1474	300	HOLLAND			Hilversum	995	20000	PFBI			HUNGARY			Budapest	546	120000	HAL			Magyarovar	1321	1250	HAE-2			Miskolc	1438	1250	HAE-3			Nyiregyhaza	1122	6200	HAE			Pecs	1465	1250	HAE-4			<table border="0" style="width: 100%;"> <tr> <th colspan="3" style="text-align: center;">SWEDEN</th> </tr> <tr> <td>Falun</td> <td>1086</td> <td>2000</td> </tr> <tr> <td>SCC</td> <td></td> <td></td> </tr> <tr> <td>Goteborg</td> <td>941</td> <td>10000</td> </tr> <tr> <td>SBB</td> <td></td> <td></td> </tr> <tr> <td>Horby</td> <td>1131</td> <td>10000</td> </tr> <tr> <td>SBH</td> <td></td> <td></td> </tr> <tr> <td>Karlskrona</td> <td>1530</td> <td>200</td> </tr> <tr> <td>SCJ</td> <td></td> <td></td> </tr> <tr> <td>Karlstad</td> <td>1312</td> <td>250</td> </tr> <tr> <td>SCK</td> <td></td> <td></td> </tr> <tr> <td>Malmo</td> <td>1312</td> <td>1250</td> </tr> <tr> <td>SBC</td> <td></td> <td></td> </tr> <tr> <td>Motala</td> <td>1389</td> <td>15000</td> </tr> <tr> <td>Norrkoping</td> <td>1312</td> <td>250</td> </tr> <tr> <td>SCO</td> <td></td> <td></td> </tr> <tr> <td>Stockholm</td> <td>704</td> <td>55000</td> </tr> <tr> <td>SBA</td> <td></td> <td></td> </tr> <tr> <td>Sundsvall</td> <td>601</td> <td>10000</td> </tr> <tr> <td>SBD</td> <td></td> <td></td> </tr> <tr> <td>Trollhattan</td> <td>1312</td> <td>250</td> </tr> <tr> <td>SCQ</td> <td></td> <td></td> </tr> <tr> <td>Swedish Common Wave 1402.</td> <td></td> <td></td> </tr> <tr> <td>See Index by Calls.</td> <td></td> <td></td> </tr> </table>	SWEDEN			Falun	1086	2000	SCC			Goteborg	941	10000	SBB			Horby	1131	10000	SBH			Karlskrona	1530	200	SCJ			Karlstad	1312	250	SCK			Malmo	1312	1250	SBC			Motala	1389	15000	Norrkoping	1312	250	SCO			Stockholm	704	55000	SBA			Sundsvall	601	10000	SBD			Trollhattan	1312	250	SCQ			Swedish Common Wave 1402.			See Index by Calls.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
GREAT BRITAIN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Aberdeen	1285	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Bournemouth	1474	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Cardiff	804	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
WN	1149	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Davenport	1013	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Falkirk	1050	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SR	767	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
London																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
LN	1149	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LR	877	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Manchester	1149	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NN	668	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Newcastle		1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Plymouth	1474	300																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HOLLAND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Hilversum	995	20000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
PFBI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
HUNGARY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Budapest	546	120000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Magyarovar	1321	1250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HAE-2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Miskolc	1438	1250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HAE-3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Nyiregyhaza	1122	6200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HAE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Pecs	1465	1250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HAE-4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
SWEDEN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Falun	1086	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SCC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Goteborg	941	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SBB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Horby	1131	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SBH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Karlskrona	1530	200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SCJ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Karlstad	1312	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SCK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Malmo	1312	1250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SBC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Motala	1389	15000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Norrkoping	1312	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SCO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Stockholm	704	55000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SBA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Sundsvall	601	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SBD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Trollhattan	1312	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SCQ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Swedish Common Wave 1402.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
See Index by Calls.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

FOREIGN B. C. STATIONS BY LOCATIONS

Petrozavodsk RW29 648 10000	Kwangsti XGOE 1070 1000	XLIJ 1310 50	Tokyo JOAK-1 870 10000
Saransk RW65 734 1000	Nan-chang XGOC 1132 500	XLWU 1250 50	JOAK-2 590 10000
Simferopol RW52 859 10000	Nanking XGOA 660 75000	Yuen-nan XGOY 698 500	KOREA
RW73 725 10000	Ningpo XLIA 1320 15	FORMOSA	Keijo JODK-1 900 10000
Stalingrad RW34 554 10000	Peiping XGOP 950 100	Taihoku JFAK 670 10000	JODK-2 610 10000
Stalino RW26 776 10000	XGOT 1220 500	Talnan JFBK 720 1000	MANCHUOKUO
Sykytyvkar RW41 563 1200	XHPA 1194 30	INDIA	Dairen JOAK 652 500
Tcheboksary RW74 680 1200	XOMO 1470 250	Bombay VUB 830 3000	Harbin MOHB 674 1000
Tchebabinsk RW68 824 200	XOPP 952.8 100	Calcutta VUC 810 3000	MTFY 674 1000
Tchernigov RW86 1013 10000	Shanghai XHHA 840 150	Lahore VUL 882 100	Hoten ZILY 900 2000
Tiraspol RW57 1068 10000	XHHB 740 50	Madras VUM 770 200	Hsinking MTCY 560 100000
Tomsk RW48 645 1200	XHHC 780 100	INDO-CHINA	Mukden MTBY 897 1000
Vinnetza RW75 1095 10000	XHHD 860 50	Salgon F31CD 840 12000	Shinkyō MTAY 560 100000
Urdjonikidze RW64 752 10000	XHHE 940 1000	JAPAN	PHILIPPINES
Vladivostok RW28 635 700	XHHF 960 100	Akita JOUK 645 300	Manila KZEG 780 1000
RW88 725 10000	XHHG 1020 100	Asahikawa JOCG 655 300	KZIB 900 1000
YUGOSLAVIA	XHHH 1040 100	Fukuo JOFG 990 500	KZRM 618.5 50000
Belgrade 686 2500	XHHI 1060 100	Hakodate JOVK 680 500	SIAM
Ljubijana 527 5000	XHHJ 1080 200	Hamamatsu JODG 635 300	Bangkok HSPJ 857 2500
Zagreb 1086 700	XHHL 1140 100	Hiroshima JOFK 850 10000	HSPJ 882
ASIA	XHHM 1180 100	Kanazawa JOJK 710 3000	AFRICA
CEYLON	XHHN 1200 100	Kochi JORK 720 500	ALGERIA
Colombo 700 1750	XHHP 1260 100	Kokura JOKS 735 1000	Algiers 941 12000
CHINA	XHHR 1340 50	Kumamoto JOCK 790 10000	EGYPT
Canton 750 1000	XHHS 1100 100	Kyeto JOJK 960 300	Alexandria 1122 250
XKRI 1000 100	XHHU 1160 100	Maebashi JOBG 970 500	1429 500
Chang-Chow XGDZ 1174 10	XHHV 880 100	Matsuye JOTK 625 500	Cairo 620 20000
XLJK 1330 50	XHHX 920 100	Nagano JONK 940 500	1348 500
Chang-sha XGOH 570 1000	XHHY 1240 100	Nagasaki JOAG 930 500	KENYA
XGTM 840 15	XLHB 560 45	Nagoya JOCK-1 810 10000	Nairobi VQ7LO 858 600
Che-tsang XGCK 990 7.5	XLHD 720 100	Niigata JOCK-2 1175 10000	MOROCCO
Foo-chow XGOF 675 1000	XLHE 1380 75	Okayama JOKK 920 500	Casabianca CNO 983 25
Hangchow XGOD 977.5 1000	XLHF 1380 50	Osaka JOBK-1 750 10000	Rabat CNR 601 25000
XGOW 1000 5000	XLHI 760 7.5	Sapporo JOIK 830 10000	SOUTH RHODESIA
XHHA 1370 50	XLHJ 800 100	Sendai JOHK 770 10000	Salisbury 681.8 1500
Honan XGOX 1070 200	XLHM 1120 50	Shizuoka JOPK 780 500	TUNISIA
Hongkong ZBW 845 2000	XLHN 1120 200	Tokushima JOJK 980 500	Tunis TUA 1275 500
ZBK 640 500	XLHO 1400 100	UNION S. AFRICA	Bloemfontaine ZTB 790 500
Hsing-shih XGSS 610 15	XLHQ 1440 30		
Huichow XHGS 730 50	XMHA 608 1000		
Kashung XGKA 895 15	XMHB 980 500		
XGML 714.3 7.5	XMHC 700 500		
XLKS 1490 20	XQHC 1300 50000		
	XQHD 1360 200		
	XQHF 1480 200		
	Shang-si XOTY 1000 50		
	Suchow XGBL 870 25		
	XGED 1340 15		
	XGKT 1240 10		
	XGLS 1230 100		
	XGRC 1330 10		
	XGSM 1170 25		
	XGUT 1270 10		
	XLBJ 1450 10		
	Taiyan XTOY 625 500		
	Tientsin XLKB 1280 50		
	XHKA 1050 50		
	Tsinan XOCL 1500 7.5		
	XOST 855 500		
	Tsin-tao XGGW 1150 50		
	T'ung Hsien LUHO 750 20		
	Wu-hu XDYF 1270 15		
	XGWH 830 30		
	Wusih XLIF 1170 15		

FOREIGN B. C. STATIONS BY LOCATIONS

Cape Town ZTC 600 10000	Geelong 3GL 1350 50	2NC 1230 2000	1YX 880 500
Durban ZTD 750 1500	Gippsland 3GI 830 7000	Northam 6AM 1070 500	1ZB 1090 200
Grahamstown ZTG 560 10000	Goulburn 2GN 1390 100	Northern Rivers 2NR 700	1ZJ 1310 65
Johannesburg ZTJ 645 10000	Crafton 2GF 1210 50	Perth 6IX 1400 300	Balclutha 4ZR 1340 5
Pretoria ZTP 952 500	..... 660 7000	6ML 1130 300	Christchurch 3YA 720 2500
OCEANIA		6PR 880 500	3YL 1200 500
AUSTRALIA		6WF 690 3500	3ZM 1470 140
Adelaide 5AD 1310 300	Gunnedah 2MO 1440 50	Port Moresby 4PM 1360	Cromwell 4ZC 1280 7
5CL 730 2000	Hamilton 3HA 1010 300	Renmark 5RM 850 500	Dunedin 4YA 790 500
5DN 960 300	Hobart 7HO 820 50	Rockhampton 4RK 910 2000	4YO 1140 200
5KA 1200 300	..... 590 1000	4RO 1330 50	4ZB 1050 70
Albury 2AY 1480 50	..... 1500	Sale 3TR 1240 250	4ZL 1220 100
Ayr 4AY 980 30	Horsham 3HS 1370 50	Shepparton 3SW 1260 60	4ZM 1050 100
Baillarat 3BA 1320 50	Kalgoorlie 6KF 720	Swan Hill 3SH 1080 50	4ZO 1050 25
Bega 1470	6KG 1210 500	Sydney 2BL 740 3000	4ZW 1450 60
Bendigo 3BO 970 200	Katoomba 2KB 1070	2CH 1180 1000	Gisborne 2ZJ 980 250
Brisbane 4BC 1120 850	..... 630 7000	2FC 610 3500	2ZM 1150 17
4BH 1380 600	Lismore 2XN 1340 50	2GB 870 1000	Greymouth 3ZE 1300 50
4BK 1290 300	Mackay 4MK 1160 100	2KY 1020 1000	3ZR 940 400
4QG 800 2500	Maryborough 4MB 1060 50	2SM 1270 1000	Hamilton 1ZH 770 40
Broken Hill 2BH 1360 100	Melbourne 3AK 1500 50	2UE 950 1000	Hastings 2ZL 1240 50
Bunbury 6BY 980 50	3AR 630 4500	2UV 1110 750	Invercargill 4ZP 620 500
Burnie 7BU 1360	3AW 1280 600	Tamworth 2TM 1300	Manurewa 1ZM 1260 50
Cairns 4CA 1470	3DB 1030 600	Toowoomba 4CR 1000 300	Masterton 2ZD 1170 8
Canberra 2CA 1050 500	3KZ 1180 600	Townsville 4TO 1170 200	Napier 2ZH 820 65
Corowa 2CO 670 7500	3LO 770 3500	Ulverstone 7UV 1460 300	Nelson 2ZR 1360 50
Crystal Brook 5CK 640 7500	3UZ 930 600	Wagga 2WG 1150 50	New Plymouth 2YB 750 100
5P1 1040 2000	3XY 1420	Warwick 4WK 900 50	Palmerston N. 2ZF 960 150
	3YB 1060 25	Wollongong 2WL 1430 50	2ZO 1400 100
	Murray Bridge 5MU 1450 50	NEW ZEALAND	
	Mildura 3MA 900 50	Auckland 1YA 650 10000	Wairoa 2ZP 900 150
	Newcastle 2HD 1140 500		Wellington 2YA 570 5000
	2KO 1410 500		2YC 840 200

FOREIGN B. C. STATIONS BY CALLS

CE58 585	CE111 1115	CPX 1300	CW46 1460	CX48 1490	EAJ27 1492	EAJ55 1492
CE62 625	CE114 1145	CP4 1040	CW47 1480	EAJ1 795	EAJ29 1500	FSGC 810
CE66 665	CE115 1155	CT1AA 629	CX2 570	EAJ2 731	EAJ30 1500	F31CD 840
CE70 705	CE117 1170	CT1GL 1031	CX4 610	EAJ3 850	EAJ31 1492	HAE 1122
CE73 730	CE118 1185	CW19 920	CX6 650	EAJ4 1492	EAJ32 1500	HAE2 1438
CE76 765	CE119 1190	CW23 1000	CX8 690	EAJ5 731	EAJ33 1492	HAE3 1438
CE78 785	CE120 1205	CW25 1040	CX10 730	EAJ6 1492	EAJ34 1492	HAE4 1465
CE81 805	CE122 1220	CW27 1080	CX12 770	EAJ7 1095	EAJ35 1500	HAL 546
CE82 825	CE124 1245	CW29 1120	CX14 810	EAJ8 1258	EAJ36 1500	HAL2 1321
CE86 865	CE125 1255	CW30 1140	CX16 850	EAJ9 1492	EAJ37 1500	HC2ET 1153
CE87 875	CE126 1265	CW31 1160	CX18 890	EAJ10 1492	EAJ38 1500	HC2JB 1250
CE88 885	CE128 1285	CW32 1180	CX20 930	EAJ11 1500	EAJ39 1492	HJN 681
CE90 905	CE131 1315	CW33 1200	CX22 970	EAJ12 1492	EAJ40 1492	HJ1ABA 1330
CE94 945	CE133 1335	CW34 1220	CX24 1010	EAJ13 1492	EAJ41 1492	HJ1ABM 1154
CE98 985	CE134 1345	CW35 1240	CX26 1050	EAJ14 1500	EAJ42 1492	HJ3ABD 1100
CE100 1005	CE135 1355	CW36 1260	CX28 1090	EAJ15 1022	EAJ43 1492	HJ3ABE 1200
CE101 1015	CE138 1380	CW37 1280	CX30 1130	EAJ16 1492	EAJ44 1492	HJ3ABH 1005
CE102 1020	CE139 1390	CW38 1300	CX32 1170	EAJ17 1492	EAJ45 1500	HJ4ABJ 1000
CE103 1035	CE141 1410	CW39 1320	CX34 1210	EAJ19 1022	EAJ46 1492	HJ4ABK 1230
CE104 1040	CE142 1425	CW40 1340	CX36 1250	EAJ20 1492	EAJ47 1492	HSP1 857
CE105 1050	CE143 1430	CW41 1360	CX38 1290	EAJ21 1492	EAJ48 1492	H57PJ 882
CE106 1065	CE145 1450	CW42 1380	CX40 1330	EAJ23 1492	EAJ49 1500	1BA 1059
CE108 1085	CNO 983	CW43 1400	CX42 1370	EAJ24 1492	EAJ51 1492	1BZ 536
CE109 1090	CNR 601	CW44 1420	CX44 1410	EAJ25 1502	EAJ52 1492	1F1 610
CE110 1105	COA 1175	CW45 1440	CX46 1450	EAJ26 1502	EAJ53 1492	1GE 986

FOREIGN B. C. STATIONS BY CALLS

11MI	814	LT4	760	PRE9	1315	SCV	1402	XLKS	1490	3AK	1500
11NA	1104	LT5	1160	PRF2	725	SCW	1402	XLWU	1250	3AR	630
11PA	565	LT8	840	PRF3	895	SPTT	859	XMHA	600	3AW	1280
11RO	713	LT9	1060	PRF4	923	TUA	1275	XMHB	980	3BA	1320
11TO	1140	LT10	1300	PRF6	1282	VPB	700	XMHG	700	3BO	970
11TR	1222	LUHO	750	PRF7	1380	VQ7LO	858	XOCL	1500	3DB	1030
JFAK	670	LU2	800	PRG4	1442	VUB	855	XOMO	1470	3GI	830
JFBK	720	LU6	1380	RW9	722	VUC	810	XOPP	952.8	3GL	1350
JOAG	930	LU7	1280	RW10	722	VUL	1200	XOST	855	3HA	1010
JOAK-1	870	LV1	620	RW17	644	VUM	770	XOTY	1000	3HS	1370
JOAK-2	590	LV2	880	RW20	1185	XDYF	1270	XQHC	1300	3KZ	1180
JOBG	970	LV3	620	RW22	617	XGBL	870	XQHD	1360	3LO	770
JOBK-1	750	LV5	1120	RW23	676	XGCK	990	XQHF	1480	3MA	900
JOBK-2	1085	LV7	820	RW26	776	XGED	1340	XSRC	1330	3SH	1080
JOCG	655	LV9	900	RW27	689	XGKA	1140	XTOY	625	3TR	1240
JOCK-1	810	LV10	860	RW28	635	XGDZ	1470	YLZ	583	3UZ	930
JOCK-2	1175	LV14	1240	RW28	725	XGGW	1150	YN	648	3WR	1260
JODG	635	MOHB	674	RW29	648	XGKA	895	YNCRG	870	3WV	580
JODK-1	900	MTAY	560	RW30	913	XGKT	1240	YNOP	1230	3XY	1420
JODK-2	610	MTBY	890	RW31	625	XGLS	1230	YVIRC	960	3YA	720
JOFG	990	MTCY	560	RW32	671	XGML	714.3	YV3RC	1200	3YB	1060
JOFK	850	MTFY	674	RW33	1050	XGGA	660	YV4RC	1100	3YL	1200
JOJK	790	OAXA	750	RW34	554	XGOC	1132	YV11BM01034		3ZE	1300
JOHK	770	OAX4B	1200	RW35	589	XGOD	977.5	YV17BM01153		3ZM	1470
JOIK	830	OAX4C	1300	RW36	662	XGOE	1070	ZBW	845	3ZR	940
JOJK	710	OAX4E	980	RW38	580	WGOR	675	ZEK	640	4AY	980
JOJK	700	OAX4R	1210	RW39	832	XGOH	570	ZILY	900	4BC	1120
JOLK	680	OAAK	1360	RW40	959	XGOK	750	ZP1	770	4BK	1380
JONK	940	OAAO	1277	RW41	563	XGOP	950	ZP4	1200	4BH	1290
JOOK	960	OAGD	1400	RW42	598	XGOS	711	ZP5	1376	4CA	1470
JOJK	780	OAGE	1350	RW46	653	XGOT	1220	ZP9	898	4GR	1000
JOJK	920	OAGU	1443	RW46	686.5	XGOW	1000	ZTB	790	4MB	1060
JORK	720	OFA	895	RW48	645	XGOX	1070	ZTC	600	4MK	1160
JOSK	735	OFD	749	RW51	748.1	XGOY	698	ZTD	750	4PM	1360
JOTK	625	OFE	1450	RW52	859	XGSM	1170	ZTG	560	4QG	800
JOUK	645	OFH	527	RW55	959	XGSS	610	ZTJ	645	4QN	600
JOVK	680	OKB	922	RW56	640	XGTM	840	ZTP	952	4RK	910
JOXK	980	OKK	1113	RW57	1068	XGUT	1276	1YA	650	4RO	1330
JQAK	650	OKP	633	RW61	888	XGWH	830	1YX	880	4TO	1170
KZEG	780	OKR	1004	RW64	752	XGWT	1330	1ZB	1090	4WK	900
KZIB	900	ONACE	1492	RW65	734	XHGS	730	1ZH	770	4YA	790
KZRM	618.5	ONACE	1500	RW67	968	XHHA	840	1ZJ	1310	4YO	1140
LKA	850	ONAEB	1492	RW68	824	XHHA	1370	1ZM	1260	4ZB	1050
LKB	850	ONARW	1500	RW69	968	XHHB	740	2AY	1480	4ZC	1280
LKD	850	PFB1	995	RW70	1040	XHHC	788	2BH	1360	4ZL	1220
LKF	776	PP	959	RW71	689	XHHD	880	2BL	740	4ZM	1050
LKH	519	PRA2	750	RW73	725	XHHE	940	2CA	1050	4ZO	1050
LKI	845	PRA3	860	RW74	680	XHHF	960	2CH	1190	4ZP	620
LKK	1276	PRA4	857	RW75	1095	XHHG	1020	2CO	670	4ZR	1340
LKN	1186	PRA5	1295	RW78	825	XHHH	1040	2CR	550	4ZW	1450
LKN	1357	PRA6	815	RW79	610	XHHI	900	2FC	610	5AD	1310
LKO	1181	PRA7	1154	RW82	608	XHHJ	1080	2GB	870	5CK	640
LKP	850	PRA8	750	RW84	635	XHHL	1140	2GF	1210	5CL	730
LKR	1348	PRA9	1100	RW85	635	XHHM	1180	2GN	1390	5DN	960
LKS	1276	PRB2	882	RW86	1013	XHHN	1200	2HD	1140	5KA	1200
LKT	629	PRB3	857	SBA	704	XHHP	1260	2KB	1070	5MU	1450
LP9	1430	PRB4	1000	SBB	941	XHHS	1100	2KO	1410	5PI	1040
LR1	1070	PRB5	1415	SBC	1312	XHHU	1160	2KY	1020	5RM	850
LR2	910	PRB6	1170	SBD	601	XHHV	880	2MO	1440	6AM	1070
LR3	950	PRB7	800	SBH	1131	XHHX	920	2NC	1230	6BY	980
LR4	890	PRB8	1000	SCA	1402	XHHY	1240	2NR	700	6CK	1240
LR5	830	PRB9	1017	SCB	1402	XHKA	1050	2RN	1348	6GF	720
LR6	870	PRC2	1090	SCC	1086	XHPA	1194	2SM	1270	6IX	1400
LR7	750	PRC3	920	SCD	1402	XKRI	1071.4	2TM	1308	6KG	1210
LR8	1150	PRC4	1304	SCE	1402	XLHB	560	2UE	950	6ML	1130
LR9	1030	PRC5	1364	SCF	1402	XLHD	720	2UW	1110	6PR	880
LR10	790	PRC6	980	SCG	1402	XLHE	1380	2WG	1150	6WA	560
LR11	1390	PRC7	1090	SCH	1402	XLHF	1380	2WL	1430	6WF	690
LS1	710	PRC8	1040	SCI	1402	XLHI	760	2XN	1340	7BU	1360
LS2	1190	PRC9	1175	SCJ	1530	XLHJ	760	2YA	570	7HO	820
LS3	630	PRD2	932	SCK	1312	XLHL	808	2YB	750	7LA	1100
LS4	670	PRD3	1201	SCL	1402	XLHM	1120	2YC	840	7NT	750
LS5	1110	PRD4	1364	SCM	1402	XLHN	1200	2ZD	1170	7UV	1460
LS6	1350	PRD5	1400	SCN	1402	XLHO	1280	2ZF	860	7ZL	590
LS7	1310	PRD7	1430	SCO	1312	XLHQ	1440	2ZH	920		
LS8	1230	PRD9	769	SCP	1402	XLIA	1320	2ZJ	980		
LS9	1270	PRE2	1330	SCQ	1312	XLIB	1450	2ZL	1240		
LS10	590	PRE4	941	SCR	1402	XLIF	1170	2ZM	1150		
LS11	1430	PRE5	1410	SCS	1402	XLIJ	1310	2ZO	1400		
LT1	780	PRE6	740	SCT	1402	XLIK	1330	2ZP	900		
LT3	1080	PRE7	788	SCU	1240	XLKB	1230	2ZR	1360		

The Frequency Checks

ENGINEERS of the Federal Communications Commission have arranged a schedule of programs for the purpose of checking the frequency of a great number of small-powered stations. Interfering stations are silenced for these tests which continue for twenty minutes with frequent announcements of call and location. These checks provide an excellent opportunity for logging many stations which might otherwise never be heard. These special programs are repeated on the first seven days of each month. The present schedule is given below:

The First Sunday

3:00-3:20	KLCN	1290	100	Blytheville
3:30-3:50	KXYZ	1440	500	Houston
3:50-4:10	KTUL	1400	500	Tulsa
4:00-4:20	KPAC	1260	500	Port Arthur
4:10-4:30	KGDY	1340	250	Huron
4:20-4:40	KRGV	1260	500	Weslaco
4:50-5:10	KARK	890	250	Little Rock
5:00-5:20	KGKO	1240	500	Wichita Falls
5:20-5:40	WNAD	1010	1000	Norman
5:40-6:00	KUOA	1260	1000	Fayetteville

The First Monday

2:00-2:20	WCNW	1500	100	Brooklyn
2:00-2:20	WJAC	1310	100	Johnstown
2:10-2:30	WFAS	1210	100	White Plains
2:10-2:30	WRAK	1370	100	Williamsport
2:20-2:40	WBNF	1500	100	Binghamton
2:20-2:40	WCBS	580	500	Charleston
2:30-2:50	WAGM	1420	100	Presque Isle
2:30-2:50	WBMT	1370	100	Danville
2:40-3:00	WNMF	1310	100	Plattsburg
2:40-3:00	WLVA	1200	100	Lynchburg
2:50-3:10	WHDL	1420	100	Olean
3:00-3:20	WCAX	1200	100	Burlington
3:10-3:30	WSBY	1500	100	Rutland
3:10-3:30	WTEL	1310	100	Philadelphia
3:20-3:40	WIBX	1200	100	Utica
3:20-3:40	WQDM	1370	100	St. Albans
3:30-3:50	WKOK	1210	100	Sunbury
3:40-4:00	WMBO	1310	100	Auburn
3:40-4:00	WLEU	1420	3100	Erie
3:50-4:10	WABY	170	100	Albany
3:50-4:10	WBAX	1210	100	Wilkes-Barre
4:00-4:20	WCAD	1220	500	Canton
4:00-4:20	WHAT	1310	100	Philadelphia
4:00-4:20	KOOS	1200	100	Marshfield
4:10-4:30	WRDO	1370	100	Augusta
4:10-4:30	WBBL	1210	100	Richmond
4:10-4:30	KGBU	900	500	Ketchikan
4:20-4:40	WNBZ	1290	100	Saranac Lake
4:20-4:40	WBRE	1310	100	Wilkes-Barre
4:20-4:40	KGVO	1260	1000	Missoula
4:30-4:50	WMAS	1420	100	Springfield
4:30-4:50	KPQ	1500	100	Wenatchee
4:40-5:00	WRAW	1310	100	Reading
4:40-5:00	KGY	1210	100	Olympia
4:50-5:10	WAAT	940	500	Jersey City
4:50-5:10	KRKO	1370	100	Everett
5:00-5:20	WSYR	570	250	Syracuse
5:00-5:20	KFXD	1200	100	Nampa
5:10-5:30	KVL	1370	100	Seattle
5:20-5:40	KGEZ	1310	100	Kalispell
5:30-5:50	KUJ	1370	100	Walla Walla
5:40-6:00	KGCX	1310	100	Wolf Point

USE HEAD PHONES FOR DISTANCE

Phones cut out the room noises and permit a lower volume thus increasing the signal-to-noise ratio. Then, too, they permit the use of the radio when others in the house are asleep or ill.

We can furnish an excellent set of Head Phones—manufactured by Trimm — for only \$2.75. These are 2000 ohm and are one of the best of the lower priced instruments.

If you desire the finest Phones made, we recommend the Trimm "Featherweight" which weigh but four ounces complete. These were designed especially for the hard-of-hearing, airplane pilots, short-wave work, etc. We believe them to be the very finest made. The price is \$8.05 post-paid.

(In Ohio add 3% for state sales tax)

The Radex Press Inc.
Conneaut, Ohio

3:10-3:30	WPAD	1420	100	Paducah
3:10-3:30	KOTN	1500	100	Pine Bluff
3:20-3:40	WCOL	1210	100	Columbus
3:20-3:40	KFXR	1310	100	Oklahoma City
3:30-3:50	WELL	1420	100	Battle Creek
3:30-3:50	KGEK	1200	100	Sterling
3:40-4:00	WALR	1210	100	Zanesville
3:40-4:00	KFPL	1310	100	Dublin
3:50-4:10	WMBC	1420	100	Detroit
3:50-4:10	WCAT	1200	100	Rapid City
4:00-4:20	WFDF	1310	100	Flint
4:00-4:20	KGCU	1240	250	Mandan
4:10-4:30	WEBE	1200	100	Cincinnati
4:10-4:30	KWYO	1370	100	Sheridan
4:20-4:40	WGAR	1450	500	Cleveland
4:20-4:40	KLPM	1240	250	Minot
4:30-4:50	WCLO	1200	100	Janesville
4:30-4:50	KGFG	1370	100	Oklahoma City
4:40-5:00	WCIS	1310	100	Joliet
4:40-5:00	KABC	1420	100	San Antonio
4:50-5:10	WJBL	1200	100	Decatur
4:50-5:10	KFJZ	1370	100	Fort Worth
5:00-5:20	WJBK	1500	100	Detroit
5:00-5:20	KSO	1430	250	Des Moines
5:10-5:30	WIBU	1210	100	Poynette
5:10-5:30	KGFI	1500	100	Corpus Christi
5:20-5:40	WHDF	1370	100	Calumet
5:20-5:40	WLBK	1420	100	Kansas City
5:30-5:50	WCRW	1210	100	Chicago
5:30-5:50	KGKB	1500	100	Tyler
5:40-6:00	WTAQ	1330	1000	Eau Claire
5:40-6:00	WMBH	1420	100	Joplin

The First Saturday

2:10-2:30	WBRB	1210	100	Red Bank
2:20-2:40	WWRL	1500	100	Woodside
2:30-2:50	WGNV	1210	100	Chester
2:40-3:00	WMBQ	1500	100	Brooklyn
2:50-3:10	WGBB	1210	100	Freeport
3:00-3:20	WOKO	1430	500	Albany
3:00-3:20	WJBC	1200	100	Bloomington
3:00-3:20	KTRH	1330	500	Houston
3:10-3:30	WDEV	550	500	Waterbury
3:10-3:30	WGL	1370	100	Fort Wayne
3:10-3:50	KFPW	1210	100	Fort Smith
3:20-3:40	WNYC	810	1000	New York
3:20-3:40	WVAE	1200	100	Hammond
3:20-3:40	WTAW	1120	500	College Station
3:30-3:50	WOV	1130	1000	New York
3:30-3:50	WLBC	1310	100	Muncie
3:30-3:50	KASA	1210	100	Elk City
3:40-4:00	WINS	1180	1000	New York
3:40-4:00	WFAM	1200	100	South Bend
3:40-4:00	KWLC	1270	100	Decorah
3:50-4:10	WCAP	1280	500	Asbury Park
3:50-4:10	WEXL	1310	100	Royal Oak
4:00-4:20	WNBC	1380	250	New Britain
4:00-4:20	WJAY	610	500	Cleveland
4:00-4:20	KGCA	1270	100	Decorah
4:10-4:30	WTNJ	1280	500	Trenton
4:10-4:30	WBNS	1430	500	Columbus
4:10-4:30	KFVS	1210	100	Cape Girardeau
4:20-4:40	WLNH	1310	100	Laeonia
4:20-4:40	WWJ	920	1000	Detroit
4:20-4:40	KGHL	780	1000	Billings
4:30-4:50	KQV	1380	500	Pittsburgh
4:30-4:50	KDLR	1210	100	Devil's Lake
4:40-5:00	WLAP	1420	100	Lexington
4:40-5:00	WOC	1370	100	Davenport
4:50-5:10	WSMK	1380	200	Dayton
4:50-5:10	KFXJ	1200	100	Grand Junction
5:00-5:20	WAVE	940	1000	Louisville
5:00-5:20	KFDM	560	500	Beaumont
5:10-5:30	WADC	1320	1000	Akron
5:10-5:30	KWTN	1210	100	Watertown
5:20-5:40	WSPD	1340	1000	Toledo
5:20-5:40	WEW	760	1000	St. Louis
5:30-5:50	WHK	1390	1000	Cleveland
5:30-5:50	KWEA	1210	100	Shreveport
5:40-6:00	WCMI	1310	100	Ashland
5:40-6:00	WSUI	880	500	Iowa City
5:50-6:10	KGGM	1230	250	Albuquerque

Now in Book-Form

The Beginner's Story of Radio

by B. Francis Dashiell

Tears the Mystery away from Radio

Written in a surprisingly simple way and yet intriguingly interesting, this book explains just what goes on within the radio receiver when the dials are turned.

At last a real understanding of the modern marvel of Radio is possible for the ordinary listener. Don't fail to place this book in the hands of your son—it may decide his life's work.

Printed in large type on "egg-shell" paper with half a hundred simple illustrations, the 96 pages are bound in a beautiful leatherette cover, titled in gold.

A Handsome Gift

Don't be content to operate a radio and yet remain in ignorance of just what it does and how it does it. It is all explained for you in this book so simply anyone can grasp it.

Order a Copy Today.

Price 50 cents

Postpaid

The Radex Press, Inc.

705 Hanna Bldg.
Cleveland, Ohio

Metal Tubes in New 1936 Receivers

• • • by B. FRANCIS DASHIELL

THE radio tube situation has been further complicated by the recent appearance of tubes made entirely of metal. The familiar glass bulb at last has given way to a thin shell of steel. Without doubt metal tubes are the most important and practical development in recent years. New receivers are being designed exclusively for these tubes, and it is quite likely that this radical change initiates a new standardization of circuits, tubes and sockets.

Metal tubes were invented and perfected in the Schenectady laboratories of the General Electric Company, but are now being manufactured by the RCA Manufacturing Company, at Harrison, N. J. All tube makers will eventually offer the metal tubes to the public. The new General Electric radio receivers, made at Bridgeport, Conn., designed around the characteristics of the metal tubes, embrace a line of eight entirely new sets that are completely equipped with these metal tubes. Most of the set manufacturers have accepted metal tubes as essential to many of their new 1936 receivers now in production.

Using Metal Tubes

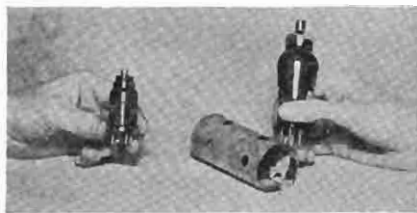
The reader will wish to know whether metal tubes are interchangeable with glass tubes. Actually, these tubes are not directly suitable for substitution in old sets. Although their characteristics are similar to certain of the glass tubes, the base, socket and wiring arrangements do not admit of a ready substitution of metal tubes for glass tubes. However, radio sets using equivalent glass tubes may be changed over to metal tubes. Such alterations demand the replacement of old sockets by the

new "universal" sockets, and several changes in the wiring and voltages of the circuit may be required in some instances.

While metal tubes use the same internal grid, plate, filament and cathode elements as the glass tubes, and are essentially similar, their characteristics are not exactly the same. This is due to changes in the internal capacity caused by the metal envelope. The tubes give the same type of service as equivalent glass tubes, but with improved results. Due to their compact construction metal tubes have very low internal capacities, and will prove highly acceptable for short-wave work. In fact, so phenomenal were the results obtained during the testing of metal tubes that new receivers were designed by the General Electric Company and this example is being followed by other manufacturers. In any case the metal tubes will show much better operating characteristics than any of the equivalent glass tubes.

The Shell That Shields

The metal tubes are considerably smaller and more rugged than the conventional glass tubes. Averaging about one-half the size of an equivalent glass tube, the metal tube provides its own shielding. This fact alone eliminates the necessity for the tincan coverings that have shielded glass tubes for many years. And the annoying crackling noise that so frequently appears in poorly shielded sets and tubes will be silenced forever. The microphonic ring that also comes with the shaking or tapping of a tube or the receiver can never be created in a metal tube. These tubes are unbreakable, and should give



Contrast between the new metal radio tubes developed by the General Electric Company and glass-enclosed tubes is shown by these two triple-grid super-control amplifiers. The external shield required by the glass-bulb tube is eliminated by the new metal tubes.

constant performance during a very long life. Greater stability of operation is possible in the radio-frequency and oscillator circuits of all-wave sets that use the new metal tubes.

The steel shell of the new tube is cylindrical in shape. Radio-frequency amplifiers have the conventional control-grid contacts on the top. The outstanding development that made metal tubes possible is the fact that the lead-in connections between the pins of the base and the internal elements pass through tiny glass beads that are fused into eyelets of a special alloy. These eyelets, in turn, are fused into holes through the base of the shell. The eyelets have the same rate of expansion as glass, and the fusing operation is accomplished in one-twentieth of a second with a current of 75,000 amperes. This provides a lasting and rugged vacuum seal. All other seams and connections are similarly welded.

The Improved Base

The metal shell of the tube acts as its shield. The conventional, loosely fitted shields, at best only make-shifts in most receivers, have been entirely eliminated in the 1936 receivers. And, because closer proximity of the enveloping shell to the internal elements can be realized, the shielding is more effective. Provision

is made for the grounding of the steel shell by means of an additional pin placed in the base of the tube.

All the pins of the base of the new tube have the same diameter and length. But from the center of the ring of pins extends a longer, insulated and keyed pin. By simply fitting this pin in the hole that is centered in the socket, and then rotating the tube until the key slips into its groove, the contact pins of the tube can be quickly and easily inserted in their proper holes. This act can be accomplished in the dark, for it is necessary only to fit the long, center pin in the center hole of the socket. It is absolutely impossible to insert the tube improperly or in the wrong socket.

New "Universal" Socket

The eight pins of the new tubes make possible a new "Universal" socket. Each pin is given an arbitrary number and will automatically slip down into its proper socket contact. Not all of the metal tubes have eight pins. A six-pin tube, such as the new 6D5, which is equivalent to the old type 45, has six pins instead of four. These pins are: Pin 1 grounds the shell and shield of the tube; Pin 2 is one of the heater terminals; Pin 3 is the plate; Pin 4 will be found missing; Pin 5 is the control-grid; Pin 6 also is missing; Pin 7 is the other heater terminal; and Pin 8 is the cathode. The missing pins, 4 and 6, are utilized for screen-grid and suppressor-grid contacts in eight-pin tubes. At present, the only tube of this type is No. 6A8, the counterpart of type 6A7.

Types Of Metal Tubes

In the following list of new metal tubes, ten in all, the reader will observe that the equivalent in glass tubes is indicated in parenthesis. The new tubes are: 5Z4 (80); 6A8 (6A7); 6C5 (76); 6D5 (45); 6F7 (75); 6F6 (42); 6H6 (75); 6J7 (77);

and 6K7 (78). Type 6L7 has no glass equivalent. Types 6F7 and 6H6 are both similar to the 75, but each has slightly different internal triode and diode connections. All metal tubes use six volts on the heater with the exception of the 5Z4 rectifier. The plate, screen and grid voltages are approximately the same as for glass tubes. The superiority of metal tubes over glass tubes is demonstrated when it is pointed out that one tube, the 6C5, has an amplification factor alone of 20 as compared to 14 for the type 76 tube.

There also has just appeared a new series of Arcturus tubes, but having conventional glass bulbs which are identical in electrical characteristics and pin arrangement to the new all-metal tubes. These Arcturus tubes carry the same type numbers as the RCA-GE metal tubes, but the letter "G" is added after each type number. These glass tubes are directly interchangeable with identical types of metal tubes in the new sets which are appearing this Fall.

General Electric Sets For 1936

The development of these metal tubes by the General Electric scientists opened up new possibilities in the short-wave field. It was soon determined that the design of a completely new line of receivers was therefore necessary. Because of the more effective shielding and short leads there is a higher intermediate-frequency gain with greater stability, less audio amplification is required, and little or no harmonic distortion is observed. Tubes of this kind would work best with new circuits built around their characteristics.

This Fall the General Electric Company offers its line of eight superheterodyne all-wave receivers utilizing the metal tubes. Other than the features of these tubes, as already explained, the new G-E sets offer several new ideas. There is the new air-trimmer Permaliner which

insures accurate calibration and alignment settings being maintained indefinitely. Thus the receiver works at its maximum performance at all times. The new tuning scale is read like a ruler and only one wave band is visible at a time. The drive for the tuning or sliding-rule dial is made with two speeds. Also, there is a radio-frequency "Sentry Box" tuning circuit which provides maximum selectivity. The intermediate-frequency transformers operate at a new high efficiency due to the high gain and shielding of the metal tubes. Compensation operation emphasizes the low notes; there is noise control and shadow-band tuning. There is a five-tube table model; a six-tube table and a console model; a seven-tube table and a console model; an eight-tube table and a console model; and a twelve-tube console model. Models A-63 (six tubes) and A-82 (eight tubes), as well as A-125 (12 tubes), are popular receivers.

Don't Remain in Ignorance of Radio

Surely you must want to know something of what happens in your set when you turn the dials. For the first time, we believe, the fundamentals of radio have been set forth in clear and easily-understandable language in Mr. Dashiell's

The Beginner's Story of Radio

In simple words, as nearly non-technical as possible, Mr. Dashiell conducts you through your radio set pointing out each part and explaining its function. This is an excellent book for boys but equally as fascinating for grown-ups.

Bound in leatherette, profusely illustrated, printed in large, clear type, the price is now

Only Fifty Cents
Postpaid

The Radex Press Inc.
Conneaut, Ohio

DX Recording for Verifications

• • • by F. WISEMAN

FOR some time, my principal hobby has been the recording of DX programs, from stations in various parts of the world. As a means of spending money, this phase of DXing has few equals, and yet it has more than justified every penny I have invested.

While there may be questions about some verifications, who is to deny the recorded voice of an announcer giving the call (if any) and location of his station? Then, too, to be able to play back a record of some good catch is a most satisfying incident from every angle.

During the time I have played with DX recording, I have been able to transform signals from many far-distant stations into a permanent form. In my albums are records of programs from stations in every portion of the world.

About the most interesting record I have is that of a program from KVOO, Tulsa, Okla. The station notified me that they would send a message of greeting on December 30, 1933 during a local item. By great good luck, KVOO was coming in extraordinarily well and I was able to record their words of salutation without a miss. As far as I know, this is the first time a medium-wave schedule has been kept and recorded.

Usually, I send at least one record to the station heard as a form of report requesting verification. In most cases, the response is almost immediate. Often, the station plays the record on one of its local programs and, occasionally, there is a newspaper write-up about the event. I have quite a few clippings from different corners of the globe.

As a means of securing verifications, records have no equal. When

a station can hear a recording of part of their own program, perhaps recognizing an announcer's voice or a particular musical item, there is no question about issuing the confirmation.

Furthermore, one great advantage of recording is that it overcomes the language difficulty. While few of us may be able to understand an announcement in Spanish, Italian or German, the station will soon know whether they put on the program recorded.

While most stations make a great deal of a record of one of their programs, there are a few unfortunate exceptions. One New York station in particular got under my skin. I sent them an unusually fine recording of one of their programs and asked for a verification. Although they re-played the record as a special feature, they never verified my reception, much less acknowledged the record. It just happened that a fellow-townsmen of mine, then residing in New York, heard the broadcast of my record. He made a note of my name and address and wrote to me. That was over a year ago and, despite several reminders, I have yet to hear from the station.

In striking contrast, I sent a record of a speech by President Roosevelt to the White House and received a most cordial acknowledgement from the Secretary of State on behalf of the President.

Until I started recording, I had been able to verify only LR3, LR5 and LR6 of the South Americans. Last winter, I sent records to over a dozen Argentine stations and have recently received a verie from LR9, accompanied by a press clipping from Buenos Aires paper ULTIMA

HORA. By means of a constant stream of records, I have hopes of yet breaking down the unwillingness of the other Argentine stations to verify. Anyhow, you can never say that I haven't submitted definite proof of reception.

In addition to being a means of reporting for verification, these records are also of technical value to the stations conducting tests. I have recorded various stations on tests and have received replies that the records were of inestimable value to the engineers. Not so long ago, I sent W8XO a recording of nearly eighty minutes program. There was no need to record at such length, but they were asking for reports and I sent them a good one.

In addition to sending records away to stations, I sent a parcel of records chain-system to a number of I.D.A. members. Thus, they were able to hear stations which they probably have not been able to tune direct.

Some day, I hope to re-record one of my own records. Many stations have played by recordings and, if I should happen to be tuned to them on such an occasion, I would be able to record the playback. In this case, the signal would have crossed the Atlantic twice.

The nearest I ever came to this was recording a Christmas program from Germany which was being relayed by NBC. I don't know how it was sent to America from the German monastery, but the signal did cross the Atlantic twice before I got it recorded. This particular program was heard best from CHNS, Halifax, N. S., although it could be heard from various NBC stations.

As mentioned previously, the expense is usually terrific. The biggest item is the wastage of records. You may be tuned to some station perfectly, getting good volume and quality. Then, just as you start recording, the signal fades to zero and another record is ruined. I hate to

think of the pile of wasted disks I have around the house.

In order to identify the station being received, it is necessary to start recording just before the call is given. Of course, it is necessary to wait until the signal is good. Usually, I start the recording five seconds before the call and take my chances that the signal will hold up.

While chain programs are of no value to the average DXer, they are always best for my purposes. On independent stations, you never know when to expect a call and, when it comes, you usually aren't ready for it. However, chain calls always come at a regular interval and there isn't much difficulty in getting them. Besides, there can be no question about a call recorded on a chain program, even though the other DXers are forced to pass up such a station.

A verification can be obtained for as little as 30 seconds of program if you can get the call. Every DXer knows those weak signals which just won't come in loud enough for you to take down enough details for a decent report. In my case, I have only to wait until I hear a call, which is all that is necessary, for you can wait until the signal picks up and then record part of the program.

As no pre-grooved records are obtainable over here, I use a recording machine with a tracking device. As a matter of fact, this system is much more economical, since blank records can be made of commercial sheet aluminum. Just as long as the wife doesn't know how you use her best scissors, you are in for a lot of interesting DX.

In conclusion, I have found it necessary to warn all DXers against recording a station in the interval between calls. I have often found a station coming in fine at, say, 1:55 AM and started by record, only to have the signal fade out completely by 2:00 when the call should be heard.

2184 - 2728		2732 - 3150		3155 - 3725	
SH	to	AV	2732	Gov AV	3155
2184	(C)	2736		3160	
2188		2740		to	
2192		Gov	2744	Av	3185
Gov SH		AV	2748	EM	3190
2200		T	2752	Gov AV	3195
2208		V	2756	3200	
2212		TV BP	2760	AV	3215
to	(D)	2764		3220	
2248		TV	to	3225	
2252		2784		to	
Gov P.P		TV BP	2788	to	
2256		TV BP Gov	2792	to	
to	(C)	2796		AG	3240
2300		TV	to	3245	
2304		2824		3250	
2308		T	2828	3255	
to	(D)	V	2832	3260	
2332		T	2836	Gov AV	3265
Gov PM		V	2840	3270	
2340		TV Gov	2844	to	
2380		TV	2848	Gov P-P	3295
Gov PM		2852		3300	
2384		AV	to	3315	
P M		2880		3320	
2392		Gov	2884	3325	
E X		Av	to	3330	
2404		2912		3335	
PM		Gov	2916	3340	
2432		2920		3410	
Gov		AV	to	Gov AV	3415
2440		2948		3420	
2480		Gov	2952	AV	to
Gov PM		2960		3440	
PS PM		2968		3450	
2492		2980		3455	
Gov		V	2984	3460	
2500		2996		3470	
2504		3000		3475	
CH		3005		3480	
2544		3010		3485	
2548		3015		3490	
CM		3020		3495	
2572		3025		3497.5	
Gov		3030		3500	
2576		3035		3505	
2580		3040		3510	
CH		3045		3515	
2600		3050		3520	
Gov		3055		3525	
2604		3060		3530	
2608		3065		3535	
AV		3070		3540	
2652		3075		3545	
2656		3080		3550	
to	(C)	3085		3555	
2704		3090		3560	
2708		3095		3565	
AV		3100		3570	
2712		3105		3575	
2716		3110			
AV		3115			
2724		3120			
E M		3125			
2728		3150			

3730 - 4235		4240 - 4775		4780 - 5410	
3730		4240		4780	
to		AG	4245	CTG	4790
3750		4250		4795	
Gov		Gov	4255	E X	4800
3755		P-P	4260	P-P	4805
3760		4265		4810	
to		4270		to	
3780		CTL	4275	to	
Gov		to	4280	to	
3785		4285		to	
3790		Gov	4290	to	
to		4295		to	
3810		4300		to	
Gov		4305		to	
3815		4310		to	
3820		4315		to	
to		4320		to	
3840		4325		to	
Gov		4330		to	
3845		4335		to	
3850		4340		to	
to		4345		to	
3860		4350		to	
Gov		4355		to	
3865		4360		to	
3870		4365		to	
to		4370		to	
3900		4375		to	
Gov		4380		to	
3905		4385		to	
3910		4390		to	
to		4395		to	
3930		4400		to	
Gov		4405		to	
3935		4410		to	
3940		4415		to	
to		4420		to	
3960		4425		to	
Gov		4430		to	
3965		4435		to	
3970		4440		to	
to		4445		to	
3980		4450		to	
Gov		4455		to	
3985		4460		to	
3990		4465		to	
to		4470		to	
4000		4475		to	
Gov		4480		to	
4005		4485		to	
4010		4490		to	
4015		4495		to	
Gov		4500		to	
4020		4505		to	
4025		4510		to	
4030		4515		to	
4035		4520		to	
4040		4525		to	
4045		4530		to	
4050		4535		to	
4055		4540		to	
4060		4545		to	
4065		4550		to	
4070		4555		to	
4075		4560		to	
4080		4565		to	
4085		4570		to	
4090		4575		to	
4095		4580		to	
4100		4585		to	
4105		4590		to	
4110		4595		to	
4115		4600		to	
4120		4605		to	
4125		4610		to	
4130		4615		to	
4135		4620		to	
4140		4625		to	
4145		4630		to	
4150		4635		to	
4155		4640		to	
4160		4645		to	
4165		4650		to	
4170		4655		to	
4175		4660		to	
4180		4665		to	
4185		4670		to	
4190		4675		to	
4195		4680		to	
4200		4685		to	
4205		4690		to	
4210		4695		to	
4215		4700		to	
4220		4705		to	
4225		4710		to	
4230		4715		to	
4235		4720		to	

Short Wave Stations By Frequencies

1.510 megs. 198.56 m.
CJD, Campbell River, B. C. 300 W. Minister of Lands for B. C.
CJK, Knight Inlet, B. C. 100 W. Anglo British Columbia Packing Co., Ltd.
VAC, Cape Lazo, B. C. 50 W. Dominion Gov. Sun., 0610-0640; 1010-1040; 1710-1740. Other days, 0500-1945.
VAF, Alert Bay, B. C. 50 watts. Dominion Gov.
YDA8, Tandjongpriok, N. E. I. 500 W. N. V. Nederlandsch Indische-Radio Omroep Moatschapij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. Daily, 0530-1100; 1745-1845; 2230-0130.

1.530 megs. 195.96 m.
YDB7, Soerabaja, N. E. I. 75 watts. Address, see YDA8 above. Daily, 0530-1100; 1745-1845; 2230-0130.

1.540 megs. 194.69 m.
CJD, Campbell River, B. C. 300 watts. Minister of Lands for B. C.
VBY, Lunenburg, N. S. 100 watts. Lunenburg Sea Products, Ltd. (Station operated by Canadian Marconi)

1.550 megs. 193.43 m.
YDA4, Soekaboemi, N. E. I. 25 watts. For address and schedule see YDA8, 1.510 megs.

1.566 megs. 191.46 m.
WIED, Broadcast pickup. 50 watts. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. City.
WIEX, Broadcast pickup. 50 watts. Address, see WIED above.

1.570 megs. 190.96 m.
WPEQ, Baton Rouge, La. Police.
YDB6, Malang, N. E. I. 100 watts. For address and schedule see YDA8, 1.510 megs.

1.574 megs. 190.48 m.
KGPY, Shreveport, La. Police.

1.580 megs. 189.76 m.
CJM, Borden, P. E. I. 100 watts. Works ships. Canadian National Railway.

1.585 megs. 189.16 m.
YDD3, Batavia (C), Java, N. E. I. 50 watts. N. V. Nederlandsch Indische Radio Omroep Moatschapij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.

1.595 megs. 187.98 m.
YDB5, Solo, N. E. I. 25 watts. For address and schedule see YDD3, 1.585 megs.

1.596 megs. 187.84 m.
CFC, Cub Lake, Sask. 100 watts. Dept. of Natural Resources, Govt. of the Province of Sask.
CGQ, Lac la Ronge, Sask. 100 watts. Address, see CFC above.
CGV, Emma Lake, Sask. 100 watts. Address CFC above.
CZJ, Isle-a-la-Crosse, Sask. 100 watts. Address CFC.
VYP, Prince Albert, Sask. Address, CFC above.
WPGG, Findlay, Ohio. 500 W. State of O., Highway Police.
WPGQ, Columbus, Ohio. 400 W. Municipal Police.
WPHC, Massillon, Ohio. 400 W. State of Ohio, Dept. of Highways.
WPHK, Wilmington, Ohio. Municipal Police.

1.606 megs. 186.69 m.
KIGA, Broadcast pickup. (KSTP, St. Paul, Minn.)
WHER, Broadcast pickup. (KDKA, Hotel Wm. Penn, Pittsburgh)
WIEO, Broadcast pickup. 50 watts. NBC, 30 Rockefeller Plaza, N. Y. City.
WIEW, Broadcast pickup. National Broadcasting Co.
WIEX, Broadcast pickup. National Broadcasting Co.
WJER, Broadcast pickup. WTMJ, The Milwaukee Journal, 333 W. State St., Milwaukee, Wisc.
WMEF, Broadcast pickup. 150 W. National Broadcasting Co.

1.615 megs. 185.65 m.
YDB4, Tjepoe, N.E.I. 25 W. N. V. Nederlandsche Indische Radio Omroep Moatschapij, Koningsplein W. 5, Batavia-Centrum, Java, N.E.I. 0530-1100; 1745-1845; 2230-0130.

1.620 megs. 185.07 m.
CFD, Kenora, Ont. 150 W. Ontario Dept. of Lands and Forests.
CFJ, Red Lake, Ont. Address CFD above.
CFL, Tabouret, P. Q. 100 W. Laurentian Forest Protective Association, Ltd., 126 St. Peter St., Quebec, P. Q.
CFM, Manicouagan River Estuary, P. Q. 100 W. Address CFL above.
CZB, Bellevue, P. Q. 100 W. Address CFL above.
CZY, Riviere du Chef, P. Q. 100 W. Address CFL above.
CZZ, St. Feleccien, P. Q. 100 W. Address CFL above.

1.622 megs. 184.85 m.
KIED, Broadcast pickup. (KFWE, Warner Bros., Hollywood, Calif.)
KIEF, Broadcast pickup. (WIL, Melbourne Hotel, St. Louis, Mo.)
KIEL, Broadcast pickup. (KJR, Fishers Blend Station, Seattle Wash.)
KIFI, Broadcast pickup. (WDGY, Dr. Young, 909 W. Broadway, Minneapolis, Minn.)
KILU, Broadcast pickup. (KARK, N.S.L. Bldg., Little Rock, Ark.)
WIEH, Broadcast pickup. (WMCA, 1697 Broadway, N. Y. City)
WKEM, Broadcast pickup. (WINS, Hearst Radio, 110 E. 58th St., N. Y. City)
WNEI, Broadcast pickup. (WFBM, Indianapolis Power & Light Co., 48 Monument Circle, Ind.)
 Red Bluff, Alaska. 50 W. Richmond Fisheries, Inc.

SHORT WAVE STATIONS BY FREQUENCIES

<p>1.630 megs. 183.94 m. WEY, Boston, Mass. Marine Fire Station. WKDT, Detroit, Mich. Marine Fire Station. YDD2, Bandoeng, Java, N.E.I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Tegallegh O. 23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.</p>	<p>1.668 megs. 179.75 m. CFC, Cub Lake, Sask. Dept. of Natural Resources, Govt. of the Province of Saskatchewan. CGQ, Lac la Ronge, Sask. Address CFC above. CGV, Emma Lake, Sask. Address CFC above. CZJ, Isle-a-la-Crosse, Sask. Address CFC above. VYP, Prince Albert, Sask. Address CFC above.</p>
<p>1.634 megs. 183.48 m. WPHE, Marion County, Ind. 1 kW. Indiana State Police. WPHS, Culver, Ind. 1 kW. Municipal police. WPHU, Jasper, Ind. 1 kW. State of Ind., Dept. of Safety. WQFE, Seymour, Ind. 1 kW. State of Ind., Dept. of Pub. Safety. W9XBU, Portable in Indiana. 50 watts. (Expired ??) , Columbia City, Ind. 1 kW. State police. , Indianapolis, Ind. 100 watts. State police.</p>	<p>1.674 megs. 179.10 m. KGHK, Palo Alto, Calif. 20 watts. Municipal police. KGZT, Santa Cruz, Calif. 100 watts. (Santa Cruz County) KIUK, Jefferson City, Mo. State police. WPSF, Harrisburg, Pa. 1 kW. State police.</p>
<p>1.640 megs. 182.82 m. YDA3, Buitenzorg, N.E.I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N.E.I. 0530-1100; 1745-1845; 2230-0130.</p>	<p>1.682 megs. 178.25 m. KGHO, Des Moines, Ia. State of Iowa, Bureau of Investigation. KNFN, Waterloo, Iowa. 400 watts. Municipal police. KNFO, Storm Lake, Iowa. 400 watts. City of S. L. W8XA, Portable in Ohio. 50 watts. Dept. of Highways, Div. of State Highway Patrol.</p>
<p>1.642 megs. 182.59 m. WRDS, E. Lansing, Mich. 1 kW. night; 5 kW. day. State police.</p>	<p>1.698 megs. 176.57 m. KNGG, Phoenix, Ariz. 1 kW. Arizona State Highway Dept.</p>
<p>1.646 megs. 182.15 m. WIEK, Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., N. Y. City. WIEL, Broadcast pickup. Address WIEK above. WLEB, Broadcast pickup. WOKO Inc., Hotel Ten Eyck, Albany, N. Y.</p>	<p>1.706 megs. 175.74 m. KGPC, St. Louis, Mo. City of S. L. WKDU, Cincinnati, Ohio. City of C. WPET, Lexington, Ky. City of L.</p>
<p>1.650 megs. 181.71 m. VBY, Lunenburg, N. S. Works ships. Lunenburg Sea Products Ltd. Operated by Canadian Marconi.</p>	<p>1.712 megs. 175.13 m. CZG, Prince Rupert, B. C., 150 watts. B. C. Provincial police. KGHY, Whittier, Calif. 30 watts. City of W. KGJX, Pasadena, Calif. 400 watts. City of P. KGPI, Beaumont, Tex. City of B. KGPL, Los Angeles, Calif. City of L. A. KGPO, Honolulu, T. H. 100 watts. City and County of H. KGPR, Fort Worth, Tex. City of F. W. KGZB, Houston, Tex. City of H. KGZL, Shreveport, La. City of S. KGZQ, Waco, Texas. City of W. KGZY, San Bernardino, Calif. 50 watts. City of S. B. KNFJ, Pomona, Calif. 50 watts. City of P. KNGE, Cleburne, Tex. 50 watts. City of C. KNGL, Galveston, Tex. 50 watts. City of G. KVP, Dallas, Tex. 500 watts. City of D. VYR, Montreal, P. Q. 400 watts. Police calls in French and English. City of M. Police Dept. WPDB, Chicago, Ill. City of C. WPDC, Chicago, Ill. City of C. WPDD, Chicago, Ill. City of C. WPDU, Pittsburgh, Pa. City of P. WPED, Arlington, Mass. Town of A. WPEH, Somerville, Mass. City of S. WPEI, E. Providence, R. I. E. Prov. Police Dept. WPEJ, Brookline, Mass. City of B. WPFA, Newton, Mass. City of N. WPFN, Fairhaven, Mass. Address: City of New Bedford Police. WPGV, Boston, Mass. 500 watts. City of B. WPHG, Medford, Mass. 50 watts. City of M.</p>
<p>1.658 megs. 180.83 m. KSW, Berkeley, Calif. Municipal police. WPGC, S. Schenectady, N. Y. 1 kW night; 5 kW day. State police.</p>	<p>1.715 megs to 2.000 megs. 174.82 m. to 149.91 meters Amateur Band. Phones in following countries work between 1.875 and 2.000 megs. (149.91 m to</p>
<p>1.660 megs. 180.62 m. YDB3, Djokja, N.E.I. 100 watts. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N.E.I. 0530-1100; 1745-1845; 2230-0130.</p>	
<p>1.666 megs. 179.96 m. WMP, Framingham, Mass. 1 kW. State police. WPEL, W. Bridgeport, Mass. 1kW. State police. WPEV, Portable in Mass. 50 watts. State police. WPEW, Northampton, Mass. 1 kW. State police. , Nashville, Tenn. Municipal police.</p>	

SHORT WAVE STATIONS BY FREQUENCIES

159.90 meters). Australia, Argentina, Canada, Ecuador, Estonia, Union of South Africa, United States of America.		2.110 megs.	142.09 m.
YDJ4, Cheribon, N.E.I. Batavia Radio Vereeniging		W1XH, Boston, Mass. YD12, Soekaboemi, N.E.I., Batavia Radio Vereeniging.	
1.840 megs.	162.95 m.	2.150 megs.	139.45 m.
YDU5, Bandjermasin, Borneo, N.E.I. Owner: "Eureka."		KIED, Broadcast pickup. KFWB, Warner Bros., Hollywood, Calif. KIEF, Broadcast pickup. WIL, Melbourne Hotel, St. Louis, Mo. KIEL, Broadcast pickup. KJR, Fishers Blend Station, Skinner Bldg., Seattle, Wash. KIEO, Broadcast pickup. KFSD, U. S. Grant Hotel, San Diego, Calif. KIFI, Broadcast pickup. WDGY, Dr. Young, 909 W. Broadway, Minneapolis, Minn. KIFT, Broadcast pickup. KJBS, 1380 Bush St., San Francisco, Calif. KIIQ, Broadcast pickup. KMTR Radio Corp., 915 N. Formosa Ave., Hollywood, Calif. KILB, Broadcast pickup. 50 watts. KWKH, Spring and Fannin Sts., Shreveport, La. KILU, Broadcast pickup. 5 watts. KARK, N.S.L. Bldg., Little Rock, Ark. WIEG, Broadcast pickup. WMCA, 1697 Broadway, N. Y. City. WKEM, Broadcast pickup. Hearst Radio, 110 E. 58th St., N. Y. C. WLEX, Broadcast pickup. WJAG, Norfolk Daily News, Norfolk, Nebr. WNEI, Broadcast pickup. WFBM, I. Power & Light Co., 48 Monument Circle, Indianapolis, Ind.	
1.850 megs.	162.06 m.	2.190 megs.	136.90 m.
YDK6, Semarang, N.E.I. Radio Vereeniging Midden Java.		KIIH, Broadcast pickup. KFAB, Cornhusker Hotel, Lincoln, Nebr. WIEK, Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., New York City. WIEL, Broadcast pickup. Address WIEK above.	
1.860 megs.	161.19 m.	2.212 megs.	135.54 m.
YDO9, Soerabaja, N.E.I. Owner: Holvast.		VYZ, High Falls, P. Q. 50 watts. James McLaren Co., Ltd.	
1.880 megs.	159.47 m.	2.284 megs.	131.22 m.
YDG6, Batavia, N.E.I. Batavia Radio Vereeniging.		CFT, Leamington, Ont. 14 watts. Dept. of Public Works. CFX, Pelee Island, Ont. 22 watts. Dept. of Public Works. CKB, Pictou, N. S. 15 watts. Dept. of Public Works. CKO, Crane Island, P. Q. 15 watts. Dept. of Public Works. CKP, Montmagny, P. Q. 15 watts. Dept. of Public Works. CKU, Pictou Island, N. S. 15 watts. Dept. of Public Works.	
1.900 megs.	157.80 m.	2.290 megs.	130.93 m.
YDH9, Buitenzorg, N.E.I. Batavia Radio Vereeniging.		CFV, Namu, B. C. 100 watts. British Columbia Packers, Ltd. CFW, Bones Bay, B. C. 100 watts. Canadian Fishing Co., Ltd. CJE, Ceepeece, B. C. 10 watts. Canadian Packing Corp. CJX, Margaret Bay, B. C. Canadian Fishing Co., Ltd. CZL, Humpback Bay, B. C. 100 watts. Chatham Sound Fishing & Packing Co., Ltd. VFJ, Homalke, B. C. 100 watts. Homalke Logging Co., Ltd.	
1.920 megs.	156.16 m.	2.350 megs.	127.58 m.
YDN2, Kediri, N.E.I. Owner: Goldberg.		VBQ, Halifax, N. S. 25 watts. Works ships in harbor.	
1.940 megs.	154.55 m.		
YDH8, Bandoeng, N.E.I. Owner: v. d. Heyden.			
1.960 megs.	152.97 m.		
YD08, Soerabaja, N.E.I. Owner: Gazellehuis.			
1.980 megs.	151.42 m.		
WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City. WMEF, Broadcast pickup. 150 watts. Address WIEO above.			
2.020 megs.	148.43 m.		
W9XAK, Manhattan, Kans. Television. Mon., 1945-2030. Wed. 2100-2200.			
2.050 megs.	146.25 m.		
WNER, Broadcast pickup. 100 watts. WAIU, Deshler-Wallick Hotel, Columbus, Ohio.			
2.060 megs.	145.54 m.		
YD07, Soerabaja, N.E.I. Owner: v. Wingen.			
2.070 megs.	144.84 m.		
YDG5, Batavia, Java, N.E.I. Batavia Radio Vereeniging.			
2.090 megs.	143.45 m.		
KIGA, Broadcast pickup. KSTP, St. Paul Hotel, S. P. Minn. KIGW, Broadcast pickup. WHER, Broadcast pickup. KDKA, Hotel Wm. Penn, Pittsburgh, Pa. WIEO, Broadcast pickup. 50 watts. Address WIEO, 2.020 megs. WIEW, Broadcast pickup. Address WIEO, 2.020 megs. WIEX, Broadcast pickup. Address WIEO, 2.020 megs. WJER, Broadcast pickup. WTML, The Journal Co., 333 W. State St., Milwaukee, Wisc. WMEF, Broadcast pickup. 150 watts. Address WIEO, 2.020 megs.			
2.102 megs.	142.64 m.		

SHORT WAVE STATIONS BY FREQUENCIES

2.382 mogs.	125.87 m.	KGHT, Brownsville, Tex. 25 watts. City of B.	KNFF, Leavenworth, Kans. 100 watts. City of L. Police.
		KGHV, Corpus Christi, Texas. 50 watts. City of C. C.	KNGF, Sacramento, Calif. 500 watts.
		KNFE, Duluth, Minn. City of D. Police.	KSW, Berkeley, Calif.
		WPDN, Auburn, N. Y. Police.	WMJ, Buffalo, N. Y. City of B. Police, 757 E. Perry St.
		WPEA, Syracuse, N. Y. City of S. Police.	WNFP, Niagara Falls, N. Y. 135 watts. City of N. F. Police.
		WPFM, Birmingham, Ala. 400 watts. City of B. Police.	WPDR, Rochester, N. Y. City of R. Police.
		WPGW, Mobile, Ala. 400 watts. City of M. Police.	WPDW, Washington, D. C. Municipal Police.
			WPFU, Portland, Me. City of P. Police.
2.385 mogs.	125.71 m.		WPHB, Nashua, N. H. 50 watts. City of N. Police.
		YDA2, Batavia (C), Java, N. E. I. 150 watts. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	....., Salina, Kans. 50 watts.
2.390 mogs.	125.45 m.		2.430 mogs.
		WIED, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.	123.38 m.
		WIEX, Broadcast pickup. 50 watts. Address WIED above.	KGHX, Santa Ana, Calif. 400 watts. Orange county Police.
			KGPB, Minneapolis, Minn. 500 watts. City of M. Police.
2.406 mogs.	124.61 m.		KGZJ, Phoenix, Ariz. Municipal Police.
		KGHW, Little Rock, Ark. City of L. R. Police.	KNGP, Shreveport, La. 100 watts.
		KGPW, Salt Lake City, Utah. City of S. L. C. Police.	WPDI, Columbus, Ohio. Franklin County Police.
			WPDN, Dayton, Ohio. City of D. Police.
			WPDS, St. Paul, Minn. City of S. P. Police.
2.414 mogs.	124.20 m.		WPEK, New Orleans, La. 250 watts. City of N. O. Police.
		KGHW, Centralia, Wash. 15 watts. City of C. Police.	WPFJ, Highland Park, Ill.
		KGPA, Seattle, Wash. Seattle Police Dept.	WPFK, Hackensack, N. J. Bergen County Police Dept.
		KGPF, Santa Fe, N. Mex. 25 watts. Police.	WPGI, Portsmouth, Ohio. 50 watts. City of P. Police.
		KGPS, Bakersfield, Calif. City of B. Police.	WPHO, Zanesville, Ohio. 50 watts.
		KGZA, Fresno, Calif. 500 watts. City of F. Police.	WQFO, Lancaster, Ohio. 50 watts. City of L. Police.
		KGZM, El Paso, Texas. City of E. P. Police.	
		KGZO, Tacoma, Wash. City of T. Police.	2.442 mogs.
		KGZO, Santa Barbara, Calif. City of S. B. Police.	122.77 m.
		KGZO, Aberdeen, Wash. 150 watts. City of A. Police.	KGHU, Austin, Texas. 100 watts. City of A. Police.
		KGZX, Albuquerque, N. Mex. City of A. Police.	KGPP, Portland, Ore. City of P. Police.
		KNFA, Clovis, N. Mex. 50 watts. City of C. Police.	KGPP, Dnover, Colo. City and County of D. Police.
		KNFI, Mt. Vernon, Wash. 50 watts. Skagit County Police.	KGZH, Klamath Falls, Ore. City of K. F. Police.
			KGZP, Salem, Ore. 50 watts. City of S. Police.
			WMDZ, Indianapolis, Ind. Municipal Police.
			WPDE, Louisville, Ky. City of L. Police.
			WPDI, Flint, Mich. City of F. Police.
			WPDI, Richmond, Ind. City of R. Police.
			WPDJ, Lansing, Mich. City of L. Police.
			WPED, Grand Rapids, Mich. 500 watts. City of G. R. Police.
			WPES, Saginaw, Mich. City of S. Police.
			WPFM, Muskegon, Mich. City of M. Police.
			WPFJ, Reading, Pa. City of R. Police.
			WPFK, Jacksonville, Fla. City of J. Police.
			WPFT, Lakeland, Fla. 50 watts. City of L. Police.
			WPFX, Palm Beach, Fla. 50 watts. Town of P. B. Police.
			WPGY, Yonkers, N. Y. 400 watts. City of Y. Police.
			WPFZ, Miami, Fla. 100 watts. City of M. Police.
			WPLG, Binghamton, N. Y. 400 watts. City of B. Police.
			WPGP, Muncie, Ind. 100 watts. City of M. Police.
			WPHM, Orlando, Fla. 50 watts. City of O. Police.
			2.450 mogs.
			122.38 m.
			KGHN, Hutchinson, Kans. 50 watts. City of H. Police.
			KGPH, Oklahoma City, Okla.
			KGPO, Tulsa, Okla. City of Tulsa Police.
			KGZP, Wichita, Kans. 250 watts. City of W. Police.
			KGZF, Chanute, Kans. 25 watts. City of C. Police.
			KGZP, Coffeyville, Kans. City of C. Police.
			KNGK, Duncan, Okla. 50 watts.
			KNGM, Rapid City, S. Dak. 50 watts. City of R. C. Police.
			KNGO, Mobile in Airplane, Oklahoma State Police. 50 watts.
			KNGT, Muskogee, Okla. 50 watts.
			WPKD, Milwaukee, Wisc. City of M. Police.
			WPEE, Brooklyn, N. Y. City of New York Police.
			WPEF, Bronx, N. Y. City of New York Police.
			WPEG, New York, N. Y. City of N. Y. Police.
			WPEP, Kenosha, Wisc. 100 watts. City and County of K. Police.
			WPHF, Richmond, Va. 150 watts. City of R. Police.
2.415 mogs.	124.15 m.		
		YDE4, Soerabaja, N. E. I. 75 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	
2.416 mogs.	124.09 m.		
		CJW, Saint John, N. B. 15 watts. Dept. of Public Safety.	
		CZG, Prince Rupert, B. C. 150 watts. B. C. Provincial Police.	
		VYW, Winnipeg, Man. 60 watts. Board of Police Commissioners.	
2.422 mogs.	123.79 m.		
		KGPE, Kansas City, Mo. City of K. C. Police.	
		KGPG, Vallejo, Calif. City of V. Police.	
		KGZC, Topeka, Kans. City of T. Police.	

SHORT WAVE STATIONS BY FREQUENCIES

<p>YDB2, Semarang, N. E. I. 150 watts. N. V. Nederlandsche Indische Radio Omroep Maatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.</p> <p>....., Lynchburg, Va. 50 watts. City of L. Police.</p> <p>....., Petersburg, Va. 50 watts. City of P. Police.</p> <p>....., Roanoke, Va. 100 watts. City of R. Police.</p>	<p style="text-align: center;">2.490 megs. 120.41 m.</p> <p>KGHA, Snowplow No. A232, 10 watts. State of Wash.</p> <p>KGHB, Snowplow No. A227, 10 watts. State of Wash.</p> <p>KGHC, Portable in Washington, 10 watts. State of W.</p> <p>KGHD, Seattle, Wash. 50 watts. State of Wash.</p> <p>KGHE, Snoqualmie Pass Wash. State of W., Highway & Police Dept.</p> <p>KGHQ, Chinook Pass, Wash. 10 watts. State of W. Highway & Police.</p> <p>KGHR, Portable in Wash. 10 watts. State of Wash.</p> <p>KGZD, San Diego, Calif. City of S. D. Police. Two transmitters, one 50 watts and another 100 watts.</p> <p>KGZU, Lincoln, Nebr. City of L. Police.</p> <p>KNFG, Olympia, Wash. 50 watts. State of W. Police.</p> <p>KNFK, Bellingham, Wash. 50 watts. State of Wash. Police.</p> <p>KNFL, Shuksan Camp, Wash. 10 watts. State of Wash. Highways.</p> <p>KNFM, Compton, Calif. 25 watts.</p> <p>KNFR, Rotary Snow Plow. 10 watts. State of Wash., Highway and Police Dept.</p> <p>KNFS, Rotary Snow Plow. 10 watts. State of Wash., Highway and Police Dept.</p> <p>KNFU, Skykomish, Wash. 10 watts. State of W. Police.</p> <p>KNFX, Ellenburg, Wash. 10 watts. Address 'KNFS above.</p> <p>KNFY, Bear River Camp, Wash.</p> <p>KNFZ, Hells Crossing Camp, Wash. 10 watts.</p> <p>KNGA, Satus Pass Camp, Wash. 10 watts.</p> <p>KNGB, Yakima, Wash. 50 watts.</p> <p>KNGC, Vancouver, Wash. 50 watts.</p> <p>KNGD, Walla Walla, Wash. 10 watts.</p> <p>KNGJ, El Centro, Calif. 50 watts.</p> <p>KNGN, Norfolk, Nebr. 25 watts.</p> <p>WPDT, Kokomo, Ind. City of K. Police.</p> <p>WPDZ, Fort Wayne, Ind. City of F. W. Police.</p> <p>WPFF, Clarksburg, W. Va. City of C. Police.</p> <p>WPGN, South Bend, Ind. 100 watts. City of S. B. Police.</p> <p>WPGO, Huntington, N. Y. 25 watts. Town of H Police.</p> <p>WPGS, Mineola, N. Y. County of Nassau Police.</p> <p>WPHI, Charleston, W. Va. 50 watts. City of C. Police</p> <p>WPHJ, Fairmont, W. Va. 100 watts.</p> <p>WPHQ, Parkersburg, W. Va. 50 watts. City of P. Police.</p> <p>....., Ephrata, Wash. 10 watts. State of Wash., Highway & Police.</p> <p>....., Spokane, Wash. 50 watts.</p> <p>....., Wenatchee, Wash. 50 watts.</p>
<p style="text-align: center;">2.452 megs. 122.27 m.</p> <p>CGZ, Vancouver, B. C. 400 watts. Corp. of the City of V.</p> <p>CJZ, Verdun, P. Q. 20 watts. City of V. Police.</p>	<p style="text-align: center;">2.458 megs. 121.97 m.</p> <p>KGHS, Spokane, Wash. 100 watts. City of S. Police.</p> <p>KGZI, Wichita Falls, Tex. City of W. F. Police.</p> <p>KGZW, Lubbock, Texas. 150 watts. City of L. Police.</p> <p>KNFB, Idaho Falls, Ida. 500 watts.</p> <p>WPDG, Youngstown, Ohio. 250 watts. City of Y. Police.</p> <p>WPDO, Akron, Ohio. 250 watts. City of A. Police.</p> <p>WPDV, Charlotte, N. C. City of C. Police.</p> <p>WPFS, Asheville, N. C. 200 watts. Buncombe County Police.</p> <p>WPGD, Rockford, Ill. City of R. Police.</p> <p>WPHD, Steubenville, Ohio. 100 watts.</p> <p>WRBH, Cleveland, Ohio. City of C. Police.</p> <p>....., Brownwood, Texas. 50 watts.</p>
<p style="text-align: center;">2.466 megs. 121.58 m.</p> <p>KGHP, Lawton, Okla. 50 watts. City of L. Police.</p> <p>KGOZ, Cedar Rapids, Iowa. 50 watts. City of C. R. Police.</p> <p>KGPD, San Francisco, Calif. City and County of S. F. Police.</p> <p>KGPI, Omaha, Nebr. City of O. Police.</p> <p>KGPK, Sioux City, Iowa. City of S. C. Police.</p> <p>KGPN, San Jose, Calif.</p> <p>KGPN, Davenport, Iowa. City of D. Police.</p> <p>KGZC, Des Moines, Iowa. City of D. M. Police.</p> <p>WPEC, Memphis, Tenn. City of M. Police.</p> <p>WPEM, Woonsocket, R. I. City of W. Police.</p> <p>WPFV, Pawtucket, R. I. City of P. Police.</p> <p>WPFV, Bridgeport, Conn. 50 watts. City of B. Police.</p> <p>WPGA, Bay City, Mich. City of B. C. Police.</p> <p>WPCB, Port Huron, Mich. City of P. H. Police.</p> <p>WPGK, Cranston, R. I. 50 watts. City of C. Police.</p> <p>WPGX, Worcester, Mass. 100 watts. City of W. Police.</p> <p>WPHA, Fitchburg, Mass. 50 watts. City of F. Police.</p> <p>WPHN, Tampa, Fla. 100 watts. City of T. Police.</p> <p>WPHJ, Jackson, Mich. 50 watts. City of J. Police.</p> <p>WQFA, New Haven, Conn. 100 watts.</p> <p>....., Clearwater, Fla. 50 watts. City of C. Police.</p> <p>....., Gainesville, Fla. 50 watts.</p>	<p style="text-align: center;">2.506 megs. 119.64 m.</p> <p>KLH, San Rafael, Calif. Pacific Telephone & Telegraph Co.</p> <p>WOU, Marshfield, Mass. Phones fishing vessels.</p>
<p style="text-align: center;">2.474 megs. 121.19 m.</p> <p>KGHG, Las Vegas. 50 watts.</p> <p>KGHM, Reno, Nev. 50 watts. City of R. Police.</p> <p>KNFH, Garden City, Kans. 50 watts. City of G. C. Police.</p> <p>KNGH, Dodge City, Kans. 50 watts.</p> <p>WDPD, Philadelphia, Pa. City of P. Police.</p> <p>WFO, Knoxville, Tenn. City of K. Police.</p> <p>WPFQ, Swarthmore, Pa. Borough of S. Police.</p> <p>WPFS, Asheville, N. C. 200 watts. Buncombe County Police.</p> <p>WPGZ, Johnson City, Tenn. 50 watts. City of J. C. Police.</p> <p>WRDQ, Toledo, Ohio. 400 watts. City of T. Police.</p> <p>....., Elizabethton, Tenn. 100 watts. Carter County Police.</p>	<p style="text-align: center;">2.512 megs. 119.36 m.</p> <p>KIAQ, Rose Inlet, Alaska. 100 watts. Alaska Pacific Salmon Corp.</p> <p>KIJN, Todd, Alaska. Peril Straits Packing Co.</p>
<p style="text-align: center;">2.482 megs. 120.80 m.</p> <p>KGZE, San Antonio, Tex. City of S. A. and State of Texas Police.</p> <p>WPGT, New Castle, Pa. 50 watts. City of N. C. Police.</p> <p>WPHZ, Oil City, Pa. 50 watts. City of O. C. Police.</p> <p>....., Monessen, Pa. 50 watts.</p>	<p style="text-align: center;">2.522 megs. 118.88 m.</p> <p>KOW, Edmonds, Wash. Pacific Telephone & Telegraph Co.</p> <p style="text-align: center;">2.550 megs. 117.58 m.</p> <p>WMES, Lorain, Ohio. 500 watts. Public Coastal Station. Lorain County Radio Corp.</p> <p style="text-align: center;">2.566 megs. 116.84 m.</p> <p>KOU, Wilmington, Calif. Southern Calif. Telephone Co.</p> <p style="text-align: center;">2.590 megs. 115.76 m.</p> <p>WOX, St. George, Staten Island, N. Y. Harbor phone. New York Telephone Co.</p> <p style="text-align: center;">2.604 megs. 115.14 m.</p> <p>WVD, Seattle, Wash. 500 watts. Alaskan Telephone</p>

SHORT WAVE STATIONS BY FREQUENCIES

Co., 517 Federal Office Bldg., Seattle.
WYBF, Napoleon, Mo. 500 watts. United States Army.

2.616 megs. 114.61 m.
 , Tin City, Alaska. 200 watts. American Tin Fields, Inc.

2.632 megs. 113.91 m.
 , Iron Creek (Raspberry Straits) Alaska. 50 watts. Southwestern Herring, Inc.
 , Juan, Alaska. 50 watts. Phones Anchorage and ships. Copper River Packing Co.

2.670 megs. 112.29 m.
NMC, Point Bonita, Calif. 200 watts. United States Coast Guard.

NMD, Cleveland, Ohio. 200 watts.
NMF, Winthrop, Mass. 200 watts. U. S. Coast Guard.
NMG, Mobile, Ala. U. S. Coast Guard.

NMN, Cape Henry, Va. 200 watts. U. S. Coast Guard.
NMP, Wilmette, Ill. 200 watts.

NMV, Fort Lauderdale, Fla. 200 watts. U. S. Coast Guard.

NMW, Grays Harbor, Wash. 200 watts.
NMY, Rockaway Point, N. Y. 200 watts. U. S. Coast Guard.

NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.
NOF, St. Petersburg, Fla. 200 watts. U. S. Coast Guard.

NOG, Gloucester, Mass. 50 watts. U. S. Coast Guard Base 7.

NOJ, San Pedro, Calif. 200 watts. U. S. Coast Guard Base 17.

NOM, Miami, Fla.
NOP, Woods Hole, Mass. 50 watts. U. S. Coast Guard, Section Base 18.

NOR, Sault Ste. Marie, Mich. 200 watts.

NOU, New London, Conn. 200 watts. U. S. Coast Guard.

NOV, Cape May, N. J. 200 watts. U. S. Coast Guard.

NOY, Galveston, Texas. 200 watts.

NOZ, Port Townsend, Wash. 200 watts.

2.698 megs. 111.13 m.
NMD, Cleveland, Ohio. 200 watts.
NMP, Wilmette, Ill. 200 watts.

NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.
NOR, Sault Ste. Marie, Mich. 200 watts.

2.710 megs. 110.63 m.
YDK5, Semarang, N. E. I. Radio Vereniging Midden-Java.

2.726 megs. 109.98 m.
KIIW, San Gabriel Dam No. 2, Calif. 200 watts. Los Angeles County Flood Control District.
KIIX, Tujunga Dam No. 1, Calif. Address KIIW above.

KIYY, Los Angeles, Calif. 400 watts. Address KIIW above.

KINT, Portable, Los Angeles County, Calif. 50 watts. Address above.

2.728 megs. 109.90 m.
KIJY, Hood River, Ore. 100 watts. Special emergency station owned by Crag Rats, Inc., a mountain-climbing organization.
KIJZ, Portable in Oregon. See above.

2.738 megs. 109.50 m.
WIFI, S. S. Cadrew, in Seattle Harbor, Wash. Works ships in harbor. Owner, A. E. Griswold.

2.750 megs. 109.03 m.
YDE5, Djokjakarta, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Maatschappij, Koningsplein W. 5, Batavia-Cent-

rum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.
YDL6, Djokjakarta, N. E. I. Owner: v. Wingen.

2.760 megs. 108.63 m.
WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.
WMEF, Broadcast pickup. 150 watts. Address WIEO above.

2.770 megs. 108.24 m.
YDO6, Soerabaja, N. E. I. Owner: Eureka.

2.790 megs. 107.46 m.
YDN3, Madioen, N. E. I. Owner: v. Wingen.

2.810 megs. 106.70 m.
YDQ6, Malang, N. E. I. Owner: v. Wingen.

2.830 megs. 105.94 m.
YDU4, Medan, Sumatra, N. E. I. Owner: Avromi.

2.850 megs. 105.20 m.
YDG4, Batavia, Java, N. E. I. Owner: Lindeteves Stokvis.

2.870 megs. 104.47 m.
YDA6, Cheribon, N. E. I. 15 watts.
YDJ3, Tegal, N. E. I. Owner: v. Wingen.

2.890 megs. 103.74 m.
YDJ2, Pekalongan, N. E. I. Owner: v. Wingen.

2.910 megs. 103.03 m.
YDE3, Semarang, N. E. I. 15 watts.
YDK3, Semarang, N. E. I. Owner: v. Wingen.

2.912 megs. 102.96 m.
 , Iron Creek (Raspberry Straits) Alaska. 50 watts. Southwestern Herring, Inc.

2.930 megs. 102.33 m.
WMEP, Suffield, Ohio. 200 watts.
WMEU, St. Petersburg, Fla. 400 watts.
WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.

YDO5, Soerabaja, N. E. I. Owner: Goldberg.

2.950 megs. 101.63 m.
YDQ5, Malang, N. E. I. Owner: Vis.

2.980 megs. 100.61 m.
CZA, Drummondville, P. Q. 4 kW. Phones ships-Canadian Marconi Co., Box 1690, Montreal, P. Q.

2.986 megs. 100.41 m.
KIGF, M. S. LeMerced (vessel moored in vicinity of False Pass, Alaska). 50 watts. Alaska Southern Packing Co.

2.994 megs. 100.14 m.
KIEJ, Poorman, Alaska. 50 watts. Owner: W. N. Growden.

KIIK, Circle, Alaska. 50 watts. Phones Fairbanks, Anchorage, etc. Northern Commercial Co.

KIIL, Fort Yukon, Alaska. 50 watts. Phones WXP Fairbanks, and WXE Anchorage. Northern Commercial Co.

KIIM, Hot Springs, Alaska. 50 watts. See KIIL above.

KIIN, Eagle, Alaska. 50 watts. See KIIL above.

KIIO, McGrath, Alaska. 50 watts. See KIIL above.

KIJB, Cape Pole, Alaska. 50 watts. A. R. Brueger.

KILY, Excursion Inlet, Alaska, 50 watts. Astoria & Puget Sound Canning Co.

SHORT WAVE STATIONS BY FREQUENCIES

3.040 megas.	98.62 m.	3.268 megas.	91.74 m.
CFQ, Edmonton, Alta. Edmonton Journal, Ltd.		CGP, Prince Rupert, B. C. North-West Telephone Co., Cor. 2nd Ave. and Wylie St., Vancouver, B. C.	
CGE, Calgary, Alta. 100 watts. Calgary Herald Ltd., Southam Bldg.			
CKS, Portable. 100 watts. Calgary Herald; see above.		3.270 megas.	91.69 m.
YDA, Tandjongpriok, N. E. I. 10 kW. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.		YDA7, Pekalongan, N. E. I. 15 watts.	
		YDK4, Magelang, N. E. I. Owner: v. Wingen.	
3.070 megas.	97.66 m.	3.290 megas.	91.13 m.
CJU, Winnipeg, Man. Canadian Airways, Ltd. (Western Lines), 60 Brock St., Winnipeg.		YDO3, Soerabaja, N. E. I. Owner: Radio Electric.	
3.093 megas.	96.94 m.	3.300 megas.	90.85 m.
KGM, Ketchikan, Alaska. Alaska Pacific Salmon Co.		CZV, Waterloo Mine, B. C. Waterloo Gold Mines, Ltd.	
KIAP, Rose Inlet, Alaska. 100 watts. Address KGM above.		YDG7, Batavia, Java, N. E. I. Owner: Pianohandel Kok.	
KIAX, Ketchikan, Alaska. Address KGM above.		3.310 megas.	90.58 m.
KIAY, Ketchikan, Alaska. Address KGM above.		YDH4, Bandoeng, Java, N. E. I. Owner: Luyks.	
KICI, View Cove, Dall Island, Alaska. 50 watts. Superior Portland Cement Co.		3.320 megas.	90.31 m.
KIIP, Willow Creek Mines, Luckyshot, Alaska. 30 watts. Phones Anchorage. Owner: W. E. Dunkle.		YDM2, Tjepoe, N. E. I. Radio Vereeniging.	
KIKN, Eyak River, Alaska. 50 watts. Pioneer Sea Foods Co.		3.330 megas.	90.04 m.
		YDV2, Bandjermasin, Borneo, N. E. I. Owner: Eureka.	
3.125 megas.	95.94 m.	3.340 megas.	89.77 m.
SHIPS work between 3.125 and 3.147 megas. (95.27 to 95.94 meters). A number of SHIPS are listed on 4.413 megas. and 4.430 megas. We do not know definitely which of these ships work also on 3.125-3.147 megas. Reports of actual reception from listeners are invited.		CGD, Drummondville, P. Q. Private station of Canadian Marconi Co., P. O. Box 1690, Montreal, P. Q.	
		CGM, Drummondville, P. Q. Private CMC station. Address CGD above.	
3.130 megas.	95.79 m.	3.350 megas.	89.50 m.
YDH6, Bandoeng, N. E. I. Owner: Prot. Kerk.		YDQ3, Malang, N. E. I. Owner: Lammeree.	
3.150 megas.	95.18 m.	3.370 megas.	88.97 m.
YDG3, Batavia, Java, N. E. I. Owner: Luyks.		YDU2, Medan, Sumatra, N. E. I. Owner: Avrom.	
3.152 megas.	95.12 m.	3.385 megas.	88.57 m.
CGM, Montreal, P. Q. Canadian Marconi Co., Box 1690, M. Phones CGY.		KIIU, Marshall, Alaska. 50 watts. Territorial Govt. of A.	
CGY, Yamachiche, P. Q. Phones CGM. Address CGM above.		3.387 megas.	88.50 m.
3.170 megas.	94.58 m.	KGYA, Longmire, Wash. Forestry station. Address Mr. R. D. Waterhouse, Mount Rainier National Park, Longmire.	
YDO4, Soerabaja, N. E. I. Owner: Jarico.		KGYB, Longmire, Wash. Address KGYA above.	
3.190 megas.	93.99 m.	KGYC, Paradise, Wash. Address KGYA above.	
KIGP, Egushik, Alaska. 4 watts. Phones ships. Libby, McNeill & Libby.		KGYD, Sunrise, Wash. Address KGYA above.	
KIIK, Circle, Alaska. 50 watts. Phones Fairbanks and Anchorage. Northern Commercial Co.		KGYE, White River, Wash. Address KGYA above.	
KIIL, Fort Yukon, Alaska. 50 watts. See KIIK above.		KGYF, Carbon, Wash. Address KGYA above.	
KIIM, Hot Springs, Alaska. 50 watts. See KIIK above.		KGYG, Portable station of the Forestry Dept. of the State of Washington.	
KIIN, Eagle, Alaska. 50 watts. See KIIK above.		KGYH, same as KGYG above.	
KIIO, McGrath, Alaska. 50 watts. See KIIK above.		KGYI, same as KGYG above.	
KIJN, Todd, Alaska. 50 watts. Peril Straits Packing Co.		3.390 megas.	88.44 m.
YDK2, Semarang, N. E. I. Owner: Wels.		YDQ2, Djember, N. E. I. Owner: v. Wingen.	
3.210 megas.	93.40 m.	3.410 megas.	87.92 m.
YDLS, Djokjakarta, N. E. I. Owner: Helant Muller.		KNIA, Glacier National Park, Montana.	
3.230 megas.	92.82 m.	KNKS, Yosemite National Park, California.	
YDQ4, Malang, N. E. I. Owner: Radinova.		KNKY, Devil's Post Pile National Monument, Calif.	
3.250 megas.	92.25 m.	KNLO, Death Valley National Monument, Calif.	
YDH5, Garoet, Java, N. E. I. Bandoeng Radio Vereeniging.		WRJ, Poe Reef Lighthouse, Mich. Dept. of Commerce, Bureau of Lighthouses.	
3.265 megas.	91.83 m.	WST, Dry Tortugas Lighthouse, Fla. Address WRJ above.	
KIIT, St. Michael, Alaska. 50 watts. Territorial Govt. of A.		WWAJ, Manitou Island Lighthouse, Mich. Address WRJ above.	
		WWAL, Passage Island Lighthouse, Mich. Address WRJ above.	
		WWAM, Rock of Ages Lighthouse, Mich. Address WRJ above.	
		WWAO, Huron Island Lighthouse, Mich. Address WRJ above.	

SHORT WAVE STATIONS BY FREQUENCIES

WWE, Fourteen Foot Shoals Lighthouse, Mich. Address WRJ.		Central Frequency Bureau, 66 Broad St., N. Y. C.
WWG, Cheboygan Range Lighthouse, Mich. Address WRJ above.		4.283 megs. 70.00 m.
WWH, Stannard Rock Lighthouse, Mich. Address WRJ above.		HC2JSB, Guayaquil, Ecuador. Interval sig.: one stroke on gong. Daily exc. Monday, 2015-2315.
WWHJ, Delaware Breakwater Station, Philadelphia, Pa. Address WRJ.		4.295 megs. 69.81 m.
WWM, Marquette Lighthouse, Mich. Address same as WRJ above.		WTDV, St. Thomas, Virgin Islands. 250 watts. Mr. H. M. McKenzie.
WWN, Detroit River Lighthouse, Mich. Address WRJ above.		WTDW, St. Croix, Virgin Islands. 250 watts.
WWR, Detroit, Michigan. Lighthouse station. Address WRJ.		WTDX, St. John, Virgin Islands. 250 watts.
WWZ, Key West, Fla. Lighthouse. Address WRJ above.		4.320 megs. 69.40 m.
YDL4, Djokakarta, N. E. I. Owner: Vadera.		DAF, Norden, Germany. Phones ships. Hauptfunkstelle Norddeich, Norden-Land, Germany.
3.423 megs. 87.59 m.		4.320 megs. 69.40 m.
WOZ, New York, N. Y. American Telephone & Telegraph Co., 32 Sixth Ave., NYC.		GDB (G6RX), Rugby, England. 15 kW. Engineer-in-Chief, GPO (Radio Section), Armour House, St. Martins Le Grand, London EC1, England.
3.430 megs. 87.41 m.		4.348 megs. 68.92 m.
YDO2, Soerabaja, N. E. I. Owner: Soekaradio.		CGA9, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
3.450 megs. 86.90 m.		4.355 megs. 68.84 m.
YDL3, Solo, N. E. I.		IAC, Coltano, Italy. 56 kW. Phones ships. Radiomarittimo Coltano Radio IAC, Piza, Italy.
3.452 megs. 86.85 m.		4.400 megs. 68.14 m.
CJU, Winnipeg, Mann. Canadian Airways Ltd. (Western Lines), 60 Brock St., Winnipeg.		RRZ, Moscow, USSR. 1 kW.
3.470 megs. 86.40 m.		4.413 megs. 67.94 m.
YDG2, Batavia, Java, N. E. I. Owner: Batavia Radio Vereeniging.		DDAS, S. S. Bremen. North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.
3.490 megs. 85.91 m.		DDBR, S. S. Berlin. North German Lloyd, Pier 42, North River. Foot of Morton St., N. Y. City.
YDH3, Bandoeng, Java, N. E. I. Owner: de Kort. AMATEURS WORK BETWEEN 3.500 and 4.000 megs. (74.96 to 85.66 meters). Phones between 3.900 and 4.000 megs.		DDCG, S. S. Resolute.
3.750 megs. 79.95 m.		DDCP, S. S. Cap Polonio.
CT1CT, Lisbon, Portugal. 500 watts. "Radio Eddy-stone". Sr. Oscar G. Lomelino, Rua Gomez Freire 79, 2-D, Lisbon. Daily, 0900-1100.		DDDT, S. S. Deutschland.
3.800 megs. 78.90 m.		DDDX, S. S. Hamburg. Hamburg American Lines, Pier 86, North River, W. 46th St., N. Y. City.
ZP11, Asuncion, Paraguay.		DDEA, S. S. Cap Ancona.
4.000 megs. 74.96 m.		DDED, S. S. New York. Address DDDX above.
CT2AJ, Ponta Delgada, Azores. 50 watts. Mr. H. E. J. Smith, St. Michael, Ponta Delgada. Wed., Sat., 1700-1900.		DDFF, S. S. Reliance.
4.098 megs. 73.16 m.		DDFT, S. S. Oceana.
WND, Hialeah, Fla. 400 watts. Phones ZFS Nassau.		DDNY, S. S. Albert Ballin, Address DDDX above.
4.178 megs. 71.76 m.		DOAI, S. S. Europa, Address DDAS above.
WOO, Ocean Gate, N. J. 20 kW. Phones ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.		DOBX, S. S. Columbus. Address DDAS above.
WOY, Lawrenceville, N. J. 20 kW. Address WOO above.		FNSM, S. S. Paris. French Lines, Pier 57, Hudson River, New York City.
4.253 megs. 70.50 m.		FTNQ, S. S. Ile de France. Address FNSM above.
WKF, Lawrenceville, N. J. A. T. & T. Address WOO above.		GBZW, S. S. Berengaria. International Marine Radio Co., Ltd., Connaught House, 63 Aldwych, London WC2, England.
WOG, Ocean Gate, N. J.		GFWV, S. S. Majestic. Address GBZW above.
4.273 megs. 70.16 m.		GLSQ, S. S. Olympic. Address GBZW above.
RV15, Khabarovsk, USSR (Siberia). 20 kW. "Far East Radio Station." Announcements in Russian, Chinese, English. Never verifies; mailing address unknown. Daily, 0300-0900.		GMBJ, S. S. Empress of Britain.
4.276 megs. 70.11 m.		GMJQ, S. S. Belgenland. Address GBZW above.
WIR, Rocky Point, N. Y. 40 kW. Works Port-au-Prince, Santo Domingo. Address R. C. A.,		4.415 megs. 67.91 m.
		GLRZ, S. S. Aquitania. Address GBZW, 4,413 megs.
		4.430 megs. 67.68 m.
		GBC, Rugby, England. Works ships. Address GDB, 4,320 megs.
		GDLJ, S. S. Homeric. Address GBZW, 4,413 megs.
		VQJM, S. S. Monarch of Bermuda.
		VQJP, S. S. Queen of Bermuda.
		4.465 megs. 67.14 m.
		CFA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
		4.470 megs. 67.07 m.
		YDB, Soerabaja, N. E. I. 1 kW.
		YID, Bagdad, Iraq.

SHORT WAVE STATIONS BY FREQUENCIES

4.505 megs.	66.55 m.	5.025 megs.	59.67 m.
CGO, Ocean Falls, B. C. North-West Telephone Co., Corner 2nd Ave. and Wylie St., Vancouver, B. C.		ZFA, St. George (Hamilton) Bermuda. 1.5 kW-Phones WOB nights.	
CZO, Prince George, B. C. Address CGO above.		5.040 megs.	59.49 m.
CZP, Claydon Bay, B. C. Address CGO above.		RIR, Tiflis, USSR. 4 kW.	
4.512 megs.	66.44 m.	5.140 megs.	58.33 m.
ZFS, Nassau, Bahamas. Works WNC Hialeah. Office of Supt. of Telegraphs, Central Bay St., Nassau N. P., Bahamas.		PMY, Bandoeng, N. E. I. 600 watts. Bandoeng Radio Vereeniging, Nilmy Bldg., Bandoeng. 0040-0240; 0640-0940.	
4.535 megs.	66.11 m.	5.260 megs.	57.00 m.
WDG, Rocky Point, N. Y. 40 kW. R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. C.		YDU3, Medan, Sumatra, N. E. I. Owner: Meyer.	
4.540 megs.	66.04 m.	5.263 megs.	56.96 m.
WIR, Rocky Point, N. Y. 40 kW. Works Port-au-Prince, Santo Domingo. Address WDG, 4.535 megs.		WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.	
4.550 megs.	65.89 m.	5.300 megs.	57.57 m.
WDN (W2XBJ), Rocky Point, N. Y. Address WDG, 4.535 megs.		ZFO, Cat Cay, Bahamas. 50 watts. Address ZFS, 4.512 megs.	
4.580 megs.	65.46 m.	5.375 megs.	55.78 m.
DJG, Zeesen, Germany. Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9, Germany.		RSB, Stalinsk, USSR. 2 kW.	
4.600 megs.	65.18 m.	5.400 megs.	55.52 m.
HC2ET, Guayaquil, Ecuador. Interval sig.: 12 chimes. P. O. Box 249. Fri., Sat., 2130-2300.		HAT, Szekesfehervar, Hungary. 6 kW. "Justice for Hungary!" Announcements French, English, Hungarian by lady. Address: Magyar Kiralyi Postakiserleti Allomas, IX Kerulet Gyali Ut 22, Budapest, Hungary.	
4.753 megs.	63.08 m.	HJA7, Cucuta, Colombia.	
WOO, Ocean Gate, N. J. Phones ships. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.		5.405 megs.	55.47 m.
WOY, Lawrenceville, N. J. 20 kW. Address WOO above.		CGP, Prince Rupert, B. C. Address CGT, 4.865 megs.	
4.755 megs.	63.05 m.	CZQ, Anyox, B. C. Address CGT, 4.865 megs.	
CFU, Rossland, B. C. Consolidated Mining & Smelting Co.		VXX, Sage Creek, B. C. Address CGT, 4.865 megs.	
4.785 megs.	62.66 m.	5.415 megs.	55.37 m.
CZA, Drummondville, P. Q. Phones ships. Canadian Marconi, Box 1690, Montreal.		IAF, Fiumicino, Italy. 5 kW.	
4.810 megs.	62.33 m.	5.440 megs.	55.11 m.
YDE2, Solo, N. E. I. 100 watts.		RSN, Sverdlovsk, USSR. 10 kW.	
YDL2, Solo, N. E. I. Owner: Solosche Radio Vereeniging.		5.490 megs.	54.61 m.
4.820 megs.	62.20 m.	ROI, Sverdlovsk, USSR. 15 kW.	
GDW, Rugby, England. Phones N. Y. Engineer-in-Chief, GPO, (Radio Section), Armour House, St. Martins Le Grand, London EC1.		5.505 megs.	54.46 m.
4.840 megs.	61.95 m.	WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.	
CZV, Waterloo Mines, B. C. Waterloo Gold Mines, Inc.		5.540 megs.	54.11 m.
4.865 megs.	61.63 m.	VXU, Regina, Sask. Dept. of Natural Resources, Govt. of the Province of Sask.	
CGT, Campbell River, B. C. North-West Telephone Co., Corner 2nd and Wylie St., Vancouver, B. C.		VXV, Hudson Bay Junction, Sask. Address VXU above.	
4.875 megs.	61.50 m.	VXW, Portable. Address VXU above.	
RKF, Moscow, USSR. 20 kW.		5.550 megs.	54.02 m.
4.975 megs.	60.27 m.	I2RO, Rome, Italy. Ente Italiano per le Audizioni Radiofoniche, Via Montello 5, Rome.	
GBC, Rugby, England. 5 kW. Phones ships. Address GDW, 4.820 megs.		5.660 megs.	52.97 m.
4.988 megs.	60.11 m.	CFD, Kenora, Ont. 150 watts. Ont. Dept. of Lands and Forests.	
WWAD, S. S. Violet. Works Lighthouses on Great Lakes.		CFJ, Red Lake, Ont. Address CFD above.	
5.015 megs.	59.78 m.	CFU, Rossland, B. C. Consolidated Mining & Smelting Co. of Canada, Ltd.	
IS3, Bolling Field, Va. United States Army airport.		5.710 megs.	52.51 m.
		JDZ, Darien. Works JVU nazaki.	
		5.725 megs.	52.37 m.
		I2RO, Rome, Italy. Address EIAR, 5.550 megs.	
		5.730 megs.	52.32 m.
		JVV, Nazaki, Japan. Works JIA, JIB, JIC at Taiwan. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	

SHORT WAVE STATIONS BY FREQUENCIES

5.765 megs. 52.00 m. KZGF, Manila, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	5.975 megs. 50.18 m. HJ2ABC, Cucuta, Norte de Santander, Colombia. 250 watts. "La Voz de Cucuta." Interval sig.: Chimes C-D-E-F-C. Address: J. Alejandro Sanchez C. Daily exc. Sun. 1800-2100.
5.780 megs. 51.87 m. CMB, Havana, Cuba. Cuba Transatlantic Radio Corp. OAX4D, Lima, Peru. "Radio DUSA." Interval sig.: 2 cuckoos. "The Voice of Peru." Sign off: "A Perfect Day." All America Cables, Box 858. Wed., Sat., 2100-2330.	5.980 megs. 50.14 m. HIX, Santo Domingo, D. R. Mr. J. R. Saladin, Director HIX, Tues., Fri., 2000-2200. HJ2ABD, Bucaramanga, Colombia. 100 watts. Sr. Hector McCormick.
5.790 megs. 51.78 m. JVU, Nazaki, Japan. 10 kW. Works JDX, JDY, JDZ Darien. Address JVV, 5.730 megs.	5.985 megs. 50.01 m. RPT, Tashkent, USSR. 1 kW. WVD, Seattle, Wash. 500 watts. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.
5.795 megs. 51.74 m. KZGH, Iloilo, P. I. (Iloilo Island). Inter-Island phone. Philippine Long Distance Tele. Co.	5.996 megs. 50.00 m., "Radio-Tananarive," Tananarive, Madagascar. Theme song: Ramona. 500 watts. Administration des Postes des Telegraphes et des Telephones. Sun., 0230-0400; daily exc. Sun. and Mon., 0300-0345.
5.820 megs. 51.52 m. CEC, La Granja (Santiago) Chile. Compania Internacional de Radio, Casilla 16-D, Santiago de Chile.	RV59, Moscow, USSR. 20 kW. Kremlin chimes at 4 p.m. EST. sign off: l'Internationale. Add: Trades Union Radio Station, Solianka 12, Moscow. (temporarily discontinued).
TIGPH, San Jose, Costa Rica. "Alma Tica." 1900-2200.	6.000 megs. 49.97 m. XEBT, Mexico City, D. F. 1 kW. Interval sig.: cuckoo, rooster, bugle, auto horn, fire bell. Relays XEB. Add: El Buen Tono S. A., Apartado 79-44. Daily 1000 to 0115.
5.825 megs. 51.47 m. HJA2, Bogota, Colombia.	XGOX, Nanking, China (proposed). Administration of Central Broadcasting Stations, Central Executive Committee of Kuomintang, Nanking.
KZGG, Cebu, Isl. of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	6.005 megs. 49.93 m. VE9DN, Drummondville, P. Q. Canadian Marconi Co., P. O. Box 1690, Montreal.
WQN, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., New York City.	VE9DR, Montreal, P. Q. Address VE9DN above.
5.830 megs. 51.43 m. CWD, Montevideo, (Cerrito), Uruguay. 1.5 kW. JZC, Harbin, Manchukuo. Works JVI, JVO, Nazaki.	6.006 megs. 49.92 m. HJ1ABJ, Santa Marta, Colombia. 50 watts. "La Voz de Santa Marta." Member Cadena Indo-Americana. Sr. Julio A. Sanchez T.
5.845 megs. 51.30 m. KRO, Kahuku, Oahu, T. H. (Off the air?), Kahuku, T. H. To work GMBJ.	6.010 megs. 49.89 m. COC, Havana, Cuba. Add: P. O. Box 98. Daily, 0930-1300; 1600-1900. Saturday, 2330-0030, special program for all s.w. clubs (programa dedicado a los clubs de ondas cortas).
5.850 megs. 51.25 m. WOB, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.	6.012 megs. 49.87 m. HJ3ABH, Bogota, Colombia. 1.2 kW. "La Voz de la Victor." Member, Cadena Indo-Americana. Add: Manuel J. Gaitan, Almacenes Victor, Apartado 565. Sun., 1200-1400; 1600-2100. Other days, 1130-1400; 1800-2300.
YV5RMO, Maracaibo, Venezuela. "Ecos del Caribe." (member Gadena Indo-Americana.) One gong precedes station announcement. Programs close with Blue Danube March. Address: Sr. Santiago M. Vegas, Apartado 214. Daily exc. Sun., 1130-1300; 1730-2130.	6.020 megs. 49.80 m. DJC, Zeessen, Germany. 8 kW. Programs close with 2 Antheims, the Nazi Hymn and Watch on Rhine. Programs preceded by a music box tune, "Ever be True and Honest." Add: Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9.
5.890 megs. 50.90 m. JIC, Taiwan. Works JVG, JVL, JVV Nazaki.	6.030 megs. 49.72 m. VE9CA, Calgary, Alta. 100 watts (input). "The Voice of the Prairie." Add: Voice of P., Ltd.,
5.900 megs. 50.82 m. CMB1, Havana, Cuba. 250 watts. Cuba Transatlantic Radio Corp.	
HJ4ABE, Medellin, Colombia. 1 kW. (relays HJ4ABK) "La Voz de Antioquia." Daily, 1900-2300. Owner: Jose M. Acevedo F.	
5.937 megs. 50.50 m. TGX, Guatemala City, Guatemala. Sr. M. A. Mejicano Novales, Sun., 0100-0300; other days, 2000-2400.	
5.940 megs. 50.47 m. TGW, Guatemala City, Guat.	
5.970 megs. 50.22 m. HJ3ABH, Bogota, Colombia. 1.6 kW. "La Voz de la Victor". Almacenes Victor de Manuel J. Gaitan, Apartado 565; daily, 1900-2200.	
HVJ, Vatican City. 10 kW. Interval sig: clock ticking for 10 minutes preceding transmission; bells of St. Peters at 3 o'clock. Announcement "Laudatur Jesus Christus". Talks as follows: Mon., Italian; Tues., English; Wed., Spanish; Thurs., French; Fri., German; Sat., Dutch; Sun., Latin. Address: Stazione Radio-Vatican, Pontificia Accademia Della	

SHORT WAVE STATIONS BY FREQUENCIES

Calgary, Thurs., 0900-0200; Sun., 1200-2400; other days, 0900-2400.	Daily exc. Sun., 0930-1800; Sun., 1130-2100.
HP5B, Panama City, Panama. 100 watts. "Estacion Miramar". Address: Estacion Radiodifusora Miramar de la Radio Panama S. A., Apartado 910. Daily, 1900-2200.	Mr. Maynard Marquardt, Chicago Federation of Labor, 666 Lake Shore Drive.
6.040 megas. 49.64 m.	ZHJ, Penang, Straits Settlements. 49 watts. Hon. Secy., Penang Wireless Society, 40 Perak Road. Daily exc. Sun., 0640-0840.
W1XAL, Boston, Mass. Address: Educational Director, University Club, Boston. Tues., Thurs., 1930-2130; Sun., 1700-1900.	6.085 megas. 49.27 m.
W4XB, Miami, Fla. (transmitter on Collins Island). 2500 watts. Relays WIOD. (Temporarily discontinued).	I2RO, Rome, Italy. Address EIAR, 5.550 megas.
YDA, Tandjongpriok, N. E. I. 10 kW. Key Station, NIROM Network. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	6.090 megas. 49.23 m.
6.042 megas. 49.62 m.	VE9BJ, St. John, N. B. 50 watts. C. A. Munro, Ltd., Canterbury Street.
HJ1ABG, Barranquilla, Colombia. 150 watts. "Emisora Atlantico." Member, Cadena Indo-Americana. Interval sig: 4-note chime. Address: Sr. Andres Jimeno, Apartado 445.	VE9GW, Bowmanville, Ont. 200 watts. Relays Canadian Radio Commission-CRCT. Address: R. R. No. 4. Sun., 1300-2100; Mon., Tues., Wed., 1500-2400; Thurs., Fri., Sat., 0700-2400.
6.050 megas. 49.56 m.	6.100 megas. 49.15 m.
GSA, Daventry, England. 20 kW. "A for Aerial." Interval sigs: Bow Bells and Big Ben. Sign off: God Save the King. British Broadcasting Corp., Broadcasting House, London W. 1, England.	HJ4ABL, Manizales, Colombia. 150 watts. "L for Lady." "Ecos del Occidente." Chimes at midnight. Apartado 50. Sat., 2300-0100.
6.060 megas. 49.48 m.	W3XAL, Bound Brook, N. J. 20 kW. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. C. Relays NBC-WJZ. Mon., Wed., Sat., 1700-1800; Sun., 0000-0100.
OXY, Skamlohaek, Denmark (Copenhagen). 500 watts. Chimes at 6 p.m. EST. Add: Harold J. Rud, Press Secretary, Statsradiofonien, Heibergsgade 7, Copenhagen. Daily 1300-1830.	W9XF, Chicago (Downers Grove), Ill. 5 kW. Relays NBC-WENR. N. B. C., Merchandise Mart, Chicago. Sat., 0100-0200; Sun., 0100-0230; 2100-2200; other days, 0100-0200; 2100-2200.
VQ7LO, Nairobi, Kenya Colony. Cable & Wireless Ltd. Box 777. Tues., 0300-0400; Mon., Wed., Fri., 0545-0615; Thurs., 0800-0900; Sat., 1100-1530; daily exc. Sat., 1100-1400.	6.110 megas. 49.07 m.
W3XAU, Philadelphia (Newton Square) Pa. Relays WCAU, CBS. WCAU Building, 1622 Chestnut St. 2100-2300.	GSL, Daventry, England. "L for Liberty." Int. sigs: Bow Bells and Big Ben. Sign off: God Save the King. Address GSA, 6.050 megas. Daily, 2200-2300.
W8XAL, Cincinnati (Mason) Ohio. 10 kW. Relays NBC-WLW. Crosley Radio Corp., 1329 Arlington St. Daily exc. Sun., 0630-2000; Sun., 0800-2000; daily exc. Sat., 2300-0200; Sat., 2300-0300.	HJ4ABB, Manizales, Colombia. 300 watts. "Radio Manizales." Sr. Ernesto Villegas.
ZHI, Singapore, Straits Settlements. 180 watts. Technical Director, Radio Service Co. of Malaya, Broadcast House 2 and 4, Orchard Road. Sat., 2300-0130; Mon., Wed., Thurs., 0600-0830.	VE9CG, Calgary, Alta. Calgary Herald, Ltd.
6.070 megas. 49.39 m.	VE9HX, Halifax, N. S. The Maritime Broadcasting Co., Box 998.
IRA, Rome, Italy. Address EIAR, 5.550 megas.	6.112 megas. 49.05 m.
VE9CS, Vancouver, B. C. 2-10 watts. Radio Service Engineers Ltd., 734 Davie St. Daily 2000-2200.	VUC, Calcutta, India. Indian State Broadcasting Service, 1 Garstin Place.
6.072 megas. 49.37 m.	YV2RC, Caracas, Venezuela. 1 kW. "Broadcasting Caracas." "La Habla a la Nacion." Apartado 290. Sun., 1330-2230; Mon., Thurs., Sat., 1700-2200; Tues., Wed., 1700-2130; Fri., 1700-2145; daily, 1100-1330.
OER2, Vienna, Austria. 1.5 kW. Oesterr. Radioverkehrs A. G., Wien I, Johannesgasse 4b. Sat., 0900-1800; Sun., silent; other days, 0900-1700.	6.115 megas. 49.03 m.
CQN, Macau. 500 watts. Ann: Portuguese and English. Mon., Fri., 0300-0500.	HJ1ABE, Cartagena, Colombia. 180 watts. "La Voz de los Laboratorios Fuentes." Address: Laboratorios Fuentes L., Apartado 31. Mon., 2200-2400; Wed., 2000-2200.
6.080 megas. 49.31 m.	6.120 megas. 48.99 m.
CP5, La Paz, Bolivia. "Radio Illimani." Compania Radio Boliviana, Casilla 637. Daily, 2000-2100.	W2XE, New York, N. Y. (Wayne, N. J.) 10 kW. Relays CBS-WABC. Columbia Brdcasting System, 485 Madison Ave. at 52nd St., N. Y. C. Daily, 1800-2300.
DJM, Zeesen, Germany. Address, DJC, 6.020 megas.	YDA5, Bandoeng, Java, N. E. I. 1.5 kW. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Tegallegha 0.23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.
HJN, Bogota, Colombia. Sr. Luis Ramirez Arana, Jefe del Servicio de Inalambricas, Ministerio de Correos y Telegrafos.	6.122 megas. 48.97 m.
VE9EH, Charlottetown, P. E. I. 250 watts. Relays CFCY. Island Radio Broadcasting Co., Ltd., 143 Great George St.	ZTJ, Johannesburg, Union of South Africa. 5 kW. African Broadcasting Co., Joubert St. P. O. Box 4559.
W9XAA, Chicago, Ill. 500 watts. Relays NBC-WCFL.	6.125 megas. 48.95 m.
	ZGE, Kuala Lumpur, Federated Malay States. 180 watts. Hon. Secy., the Malayan Amateur Radio Society, Mercantile Bank Bldg., K. L. Sun., Tues., Fri., 0640-0840.

SHORT WAVE STATIONS BY FREQUENCIES

6.130 megs.	48.91 m.	W09, Mitchell Field, Mineola, Long Island. Army airport.	
COCB , Vedado, Havana, Cuba. Address: La Voz del Aire, S. A., Apartado 2294. Sun., 1100-1400; 1900-2400; other days, 1100-2400.		WTR , Albrook Field, Canal Zone. Army airport.	
LCL , Jeloy, Norway. Director General, Administration des Telegraphes du Royaume de Norvege, Oslo, Norway.		6.425 megs.	46.66 m.
6.140 megs.	48.83 m.	CZG , Prince Rupert, B. C. B. C. Provincial Police.	
W8XK , Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh. Daily, 2100-0100.		VE9AS , Fredericton, N. B. Address, C/o Electrical Engineering Dept., University of New Brunswick.	
6.145 megs.	48.79 m.	VK1 , Selfridge Field, Mt. Clemens, Mich. Army airport.	
..... Durban, Union of S. A. 1 kW. African Broadcasting Co.		W3XL , Bound Brook, N. J. 18 kW. NBC Control station and cue station for nearly all special "stunt" broadcasts. Address NBC, 30 Rockefeller Plaza, N. Y. City.	
..... Villejust, France. 120 kW. (Under constr.)		W9XF , Chicago, (Downers Grove) Ill. Address W9XF, 6.100 megs.	
6.150 megs.	48.75 m.	6.440 megs.	46.56 m.
CJRO , Winnipeg, Man. (Middlechurch). Relays CRC programs. James Richardson & Sons, Ltd., Royal Alexandria Hotel, Winnipeg. Daily, 2000-2400.		RTA , Novosibirsk, USSR. 15 kW.	
C09GC , Santiago de Cuba. Relays CMKB. "Ask for Bacardi." Laboratorio Radio-electrico, Sres. Grau y Caminero, Apartado 137. Daily, 0930-1000; 1245-1330; 1530-1615.		6.445 megs.	46.52 m.
CSL , Lisbon, Portugal.		PD1 , Maxwell Field, Montgomery, Ala. Army airport.	
YV3RC , Caracas, Venezuela. "Radiodifusora Venezuela YV3RC en Caracas." Bajos Pasaje Ramella. 1700-2200.		PE2 , Wright Field, Dayton, Ohio. Army airport.	
6.170 megs.	48.60 m.	6.447 megs.	46.50 m.
HJ2ABA , Tunja, Colombia. 50 watts. "Ecos de Boyaca." Member: Cadena Indo-Americana. Sr. Pompelio Sanchez.		HJ1ABB , Barranquilla, Colombia. 300 watts. "La Voz de Barranquilla." Relays HJ1ABA. Address: Elias J. Pellet B., Apartado 715. Daily, 1700-2200.	
CT1GO , Parede, Portugal. Sun., 1130-1300; Sun., Tues., Wed., Thurs., Fri., 1920-2030.		6.450 megs.	46.48 m.
6.200 megs.	48.36 m.	YN1GG , Managua, Nicaragua. "La Voz de los Lagos." Raul Gutierrez U. & Cie., Ltd. Daily, 1245-1430; 1900-2145.	
HJ3ABF , Bogota, Colombia. 50 watts. "La Voz de Bogota." Interval sig.: 6 chimes. Daily 1900-2300.		6.490 megs.	46.20 m.
6.230 megs.	48.13 m.	HJ5ABD , Cali, Colombia. "La Voz del Valle." Apartado 270. Thurs., Sat., Sun., 1900-2100.	
HJ4ABC , Pereira, Colombia. 50 watts. "La Voz de Pereira." 0930-1100; 1900-2000.		6.500 megs.	46.13 m.
OAX4B , Lima, Peru. Relays OAX4C. R. Grellaud y Cie. Daily, 1900-2100.		HI4D , Santo Domingo, D. R. "La Voz de Quisqueya." 1300-1340; 1640-1940; daily exc. Sun.	
6.240 megs.	48.05 m.	6.518 megs.	46.00 m.
HI1A , Santiago de los Caballeros, D. R. "La Voz del Yaque." Daily 1930-2130; Sun., 0100.		H1L , Santo Domingo, D. R. Mr. J. C. Pellicer, Box 623.	
6.300 megs.	47.59 m.	6.520 megs.	45.98 m.
HJ1ABH , Cienega, Colombia. 48 watts. Sergio Martinez Aparicio, Jr. Tues., Fri., 1945-2200.		YV6RV , Valencia, Carabobo, Venezuela. "La Voz de Carabobo." Sres. Hermann y Williams Degwitz.	
6.315 megs.	47.48 m.	6.550 megs.	45.76 m.
H1Z , Santo Domingo, D. R. 100 watts. Operator, Frank Hatton, Calle Duarte No. 68. Sat., 2300-0100; daily exc. Sun., 1700-1800.		T1PG , San Jose, Costa Rica. 500 watts. "La Voz de la Victor". Perry Girton, Costa Rica Broadcasting Station, Apartado 225.	
6.330 megs.	47.36 m.	T1RCC , San Jose, Costa Rica. 500 watts. "Radioemisora Catolica Costaricense". Box 1064.	
JZG , Nazaki, Japan. 10 kW. Works ships. Kokusaidenwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.		6.590 megs.	45.50 m.
6.375 megs.	47.03 m.	ZEA , Salisbury, Southern Rhodesia. 500 watts. Works ZEB.	
YV4RC , Caracas, Venezuela. "La Florida." "Estacion S.A.R." Member: Cadena Indo-Americana. Address: Estacion SAR, Este 10, Bis No. 71, Caracas. Daily, 1630-2230.		ZEB , Bulawayo, Southern Rhodesia. 500 watts. Works ZEA.	
6.385 megs.	46.94 m.	6.600 megs.	45.43 m.
BC1 , Chanute Field, Rantoul, Ill. Army airport.		PE2 , Wright Field, Dayton, Ohio. Army airport.	
IS3 , Bolling Field, Va. (Washington, D. C.) Army airport.		6.610 megs.	45.36 m.
		CWE , Cerrito (Montevideo) Uruguay. 1.5 kW.	
		6.615 megs.	45.32 m.
		K1KL , Los Angeles, Calif.	
		WMEP , Suffield, Ohio. 400 watts. Airways.	
		WMEQ , Wheeling, Ill. Airways.	
		WMEU , St. Petersburg, Fla. 400 watts. Airways.	
		WMEV , Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.	
		6.618 megs.	45.31 m.
		WVD , Seattle, Wash. Phones Alaska. Alaskan Tele-	

SHORT WAVE STATIONS BY FREQUENCIES

phone Co., 517 Federal Office Bldg.	Dept., 32 Sixth Ave., N. Y. City.
6.620 megs. 45.29 m. PRADO , Riobamba, Ecuador. "Estacion El Prado." Member: Cadena Indo-Americana. Apartado 98. Thurs., 2100-2330 and other nights irregularly.	6.760 megs. 44.35 m. CJA6 , Drummondville, P. Q. Address VE9DN, 6.005 megs.
6.645 megs. 45.12 m. BF4 , Kelly Field, San Antonio, Tex. Army airport. FG7 , Langley Field, Va. Army airport. IS3 , Bolling Field, Va. (Washington, D. C.) Army airport.	6.790 megs. 44.16 m. GDB , Rugby, England. Address GDW, 4,820 megs.
6.650 megs. 45.09 m. IAC , Coltano, Italy. 14 kW. Works ships. Address IAC, 4,355 megs. This frequency has been assigned to certain SHIPS but it is not known whether or not voice is used. Reports from readers of actual VOICE reception are requested.	6.800 megs. 44.09 m. HIH , San Pedro de Macoris, D. R. "La Voz del Higuamo." 75 watts. Sr. Domingo Dominguez. Daily 1600-2030. Sunday, 0300-0400.
6.659 megs. 45.02 m. HC2RL , Guayaquil, Ecuador. "Quinta Piedad." Address: Dr. Roberto Levi, Apartado 759. Tues., 2114-2314; Sun. 1745-1945.	6.860 megs. 43.71 m. KEL , Bolinas, Calif. RCA Communications, Inc. Pacific Division, 28 Geary St., San Francisco, Calif.
6.662 megs. 45.00 m. WXH , Ketchikan, Alaska. Phones Seattle.	6.870 megs. 43.64 m. RKF , Moscow, USSR. 20 kW.
6.666 megs. 44.98 m. ZP10 , Asuncion, Paraguay.	6.880 megs. 43.58 m. CGA7 , Drummondville, P. Q. Address VE9DN, 6.005 megs. RKF , Moscow, USSR. 20 kW.
6.672 megs. 44.94 m. YVQ , Maracay, (Santa Rita), Venezuela. Address: Estados Unidos de Venez., Servicio Radio-telegrafico.	6.900 megs. 43.45 m. RKF , Moscow, USSR. 20 kW.
6.675 megs. 44.91 m. DGK , Nauen, Germany. Address: Reichspostzentramt, Telegraphentechnisches Reichsamt, Schoneberger Strasse 11-15, Berlin-Tempelhof.	6.905 megs. 43.42 m. GDS , Rugby, England. 15 kW. Phones N. Y. nights. Address GDW, 4,820 megs.
6.690 megs. 44.82 m. CGA6 , Drummondville, P. Q. Address VE9DN, 6.005 megs.	6.928 megs. 43.27 m. WEZ , Rocky Point, N. Y. Address WDB, 6,718 megs.
6.710 megs. 44.68 m. TIEP , San Jose, Costa Rica. "La Voz del Tropico." Sr. Eduardo Pinto Hernandez, Apartado 257. Member: Cadena Indo-Americana. Daily, 1900-2200.	6.935 megs. 43.23 m. WEB , Rocky Point, N. Y. Works Paris. Address WDB, 6,718 megs.
6.718 megs. 44.62 m. KBK , Manila, P. I. 50 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila. WDB , Rocky Point, N. Y. Works Havana. Radio Corp. of A., Central Frequency Bureau, 66 Broad St., N. Y. City.	6.950 megs. 43.13 m. WKP , Rocky Point, N. Y. Address WDB, 6,718 megs. YNLF , Managua, Nicaragua. Cadena Indo-Americana. 2100-2200.
6.720 megs. 44.62 m. CFU , Rossland, B. C. Consolidated Mining & Smelting Co.	6.990 megs. 42.89 m. JVS , Nazaki, Japan. Works Shanghai. Address JZG, 6,330 megs.
6.725 megs. 44.57 m. WQO , Rocky Point, N. Y. Address WDB, 6,718 megs.	7.000 megs. to 7.300 megs. 41.07 meters to 42.83 meters. Amateur Band. Foreign amateurs use phone in this band. USA, code only.
6.735 megs. 44.53 m. KEQ , Kahuku, Oahu, Hawaii. Works California.	7.090 megs. 42.29 m. HKE , Bogota, Colombia. 138 watts. Observatorio Nacional de San Bartolome.
6.750 megs. 44.42 m. JVT , Nazaki, Japan. 20 kW. Works Dixon and broadcasts. Address JZG, 6,330 megs. ZBW , Hong Kong. 250 watts. Address: Betty Billings, Secy., Hong Kong Broadcasting Committee, P. O. Box 200.	7.175 megs. 41.78 m. CR6AA , Lobito, Portuguese West Africa. "Radio Eddystone." The Manica Trading Co., Ltd., Caixa Postal 118, Lobito.
6.755 megs. 44.38 m. WOA , Lawrenceville, N. J. A. T. & T., Long Lines	7.200 megs. 41.61 m. HJ4ABB , Manizales, Colombia. "E for Baby." "Radio Manizales." Sr. Roberto Baena V., Apartado 175.
	7.220 megs. 41.53 m. HAT2 , Szekesferhervar, Hungary. 6 kW. "Justice for Hungary!" Announcements Hungarian, French, English by lady. Address: Magyar Kiralyi Postakiserletl Allomas, IX Kerulet Gyali Ut 22, Budapest.
	7.225 megs. 41.50 m. RPK , Moscow, USSR. 20 kW.

SHORT WAVE STATIONS BY FREQUENCIES

7.260 mags. 41.30 m. RFF, Kharkov, USSR. 1 kW.	grafica Internacional de C. R., San Jose.
7.275 mags. 41.23 m. RTZ, Irkutsk, USSR. 15 kW.	7.715 mags. 38.86 m. KEE, Bolinas, Calif. Address KEL, 6.860 mags.
7.280 mags. 41.18 m. HJ1ABD, Cartagena, Colombia. 50 watts. "Ondas de la Heroica." Jzd. Villarreal, Director, Apartado 252. Daily, 1945-2115.	7.740 mags. 38.74 m. CEC, La Granja (Santiago) Chile. Address CEC, 5.820 mags.
7.370 mags. 40.68 m. WJN, Rocky Point, N. Y. Address WDB, 6.718 mags.	7.770 mags. 38.59 m. HC2JSB, Guayaquil, Ecuador. Int. Sig.: one gong.
7.380 mags. 40.63 m. XECR, Mexico City, D. F. Announcements: Spanish, English. Address: Departamento de Publicidad de la Secretario de Relaciones Exteriores. Sunday, 1800-1900.	7.797 mags. 38.47 m. HBP, Prangins (Geneva) Switzerland. 20 kW. "Radio Nations." Works USA and broadcasts. Programs consist of talks in English, French, Spanish. Address: M. G. Gallarati, Information Section, League of Nations, Geneva. Sat., 1730-1815.
7.390 mags. 40.57 m. HJ3ABD, Bogota, Colombia. 50 watts. "Colombia Broadcasting." Apartado 509. Daily, 1930-2300.	7.820 mags. 38.34 m. OCO, Lima (Valverde) Peru.
JVR, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 mags.	7.880 mags. 38.05 m. JYR, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW. Experimental.
ZLR, Wellington, N. Z. 1 kW. Works VLJ. Address: Supt. of Post and Telegraphs, G. P. O.	7.920 mags. 37.86 m. GCP, Rugby, England. Address GDW, 4.820 mags.
7.400 mags. 40.51 m. WEM, Recky Point, N. Y. Works London, Honolulu. Address WDB, 6.718 mags.	7.960 mags. 37.67 m. VLZ (VK2ME), Pennant Hills (Sydney), N. S. W., Australia. 3.5 kW. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney.
7.465 mags. 40.16 m. HJP, Bogota, Colombia. Works Hialeah nights.	XGL, Shanghai, China. Address XGO, 7.575 mags.
7.470 mags. 40.14 m. JVQ, Nazaki, Japan. 10 kW. Works PLE, PLV. Address JZG, 6.330 mag.	7.968 mags. 37.63 m. HSP, Bangkok, Siam. 20 kW. Address Post and Telegraph Dept.
7.510 mags. 39.92 m. JVP, Nazaki, Japan. 20 kW. Works Europe. Address JZG, 6.330 mags.	7.980 mags. 37.57 m. VLZ (VK2ME), Pennant Hills (Sydney) Australia. Address VLZ, 7.960 mags.
7.520 mags. 39.87 m. KDK, Kahuku, Oahu, Hawaii. Works Doxon. (?) KKH, Kahuku, Oahu, Hawaii. Works Dixon. RKI, Moscow, USSR. 20 kW., Kahuku, Oahu, Hawaii. Works GMBJ.	8.020 mags. 37.38 m. HSJ, Bangkok, Siam. 20 kW. Address HSP, 7.968 mags.
7.550 mags. 39.71 m. CFQ, Edmonton, Alta. The E. Journal, Ltd. CGE, Calgary, Alta. The Calgary Herald, Southam Bldg. CKS, Portable. Address CGE above.	8.035 mags. 37.31 m. CNR, Rabat, Morocco. 12 kW. Phones Paris. Direction de l'Office des Postes, des Telegraphes et des Telephones du Maroc, Rabat., "Radio-Maroc", 25 kW. Address CNR above. Sun., 1100-1200; 1400-1900.
7.565 mags. 39.63 m. KWY (W6XN), Dixon, Calif. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco.	8.070 mags. 37.15 m. IRF, Rome, Italy. Works N. Y. Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125, Italy.
7.575 mags. 39.58 m. XGO, Shanghai, China. Chinese Govt. Radio Administration, Sassoon House, Jinkee Road.	8.095 mags. 37.04 m. VLK, Pennant Hills (Sydney) Australia. Address VLZ, 7.960 mags.
7.610 mags. 39.40 m. KWX (W6XN), Dixon, Calif. Address KWY, 7.565 mags.	8.120 mags. 36.92 m. KTP, Manila, P. I. Phones Dixon near 1000. Address KBK, 6.718 mags.
7.626 mags. 39.32 m. RIM, Tashkent, USSR. Works RKI. 20 kW.	8.180 mags. 36.65 m. PSK, Rio de Janeiro (Marapicu) Brazil. Phones N. Y. and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709, Rio de Janeiro.
7.680 mags. 39.04 m. YBZ, Menado, Celebes, N. E. I. Works PNI, Macassar. Address: Mr. H. Van der Veen, Engineer-in-charge, Post-Telegraafen Telefoondienst, Bedrijf der Radiostations op Java, Bandoeng.	8.214 mags. 36.50 m. HCJB, Quito, Ecuador. 150 watts. "La Voz de los Andes." Interval sig.: 4 strokes on gong. Address Clarence W. Jones, Casilla 691, Quito. Sun., 1615-2245; Mon., silent; other days, 1915-2315.
7.685 mags. 39.01 m. HJA3, Barranquilla, Colombia. TIR, Cartago, Costa Rica. Address: Compania Radio-	

SHORT WAVE STATIONS BY FREQUENCIES

8.220 mags.	36.47 m.		
ZSV, Walvis Bay, Union of South Africa.	1 kW.		
8.225 mags.	36.45 m.		
RRD, Moscow, USSR.	20 kW.		
8.396 mags.	35.71 m.		
HSP, Bangkok, Siam.	20 kW.	Address HSP, 7.968 mags.	
8.400 mags.	35.69 m.		
HC2AT, Guayaquil, Ecuador.	15 watts.	American Trading Co., Mr. E. F. Gahan, Gerente, Casilla 872. Daily exc. Sun., 2000-2200.	
8.455 mags.	35.46 m.		
CWF, Montevideo (Cerrito) Uruguay.	1.5 kW.		
8.464 mags.	35.42 m.		
DAF, Norden, Germany.	Works ships.	Address Hauptfunkstelle Norddeich, Norden-Land.	
8.500 mags.	35.27 m.		
JZF, Nazaki, Japan.	10 kW.	Works ships. Address JZG, 6.330 mags.	
8.560 mags.	35.03 m.		
WOO, Ocean Gate, N. J.	20 kW.	Works ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.	
WOY, Lawrenceville, N. J.	20 kW.	Address WOO above.	
8.565 mags.	35.00 m.		
HAT3, Szekesfeharvar, Hungary.	20 kW.	"Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7.220 mags.	
8.575 mags.	34.96 m.		
YCP, Balikpapan, N. E. I.	3 kW.	Address YBZ, 7.680 mags.	
8.680 mags.	34.54 m.		
GBC, Rugby, England.	Works ships.	Address GDW, 4.820 mags.	
8.690 mags.	34.50 m.		
VWZ, Kirkee, Poona, India.	10 kW.	Works also on freqs. 8.691, 8.693, 8.700 mags. Phones London.	
8.708 mags.	34.43 m.		
VWZ, Kirkee, Poona, India.	10 kW.	Phones London.	
8.710 mags.	34.42 m.		
CEC, La Granja, (Santiago) Chile.	800 watts.	Address CEC, 5.820 mags.	
8.770 mags.	34.19 m.		
RSZ, Irkutsk, USSR.	15 kW.	Tests with RNE.	
8.775 mags.	34.16 m.		
PNI, Macassar, Celebes, N. E. I.	3 kW.	Phones Bandoeng. Address YBZ, 7.680 mags.	
8.790 mags.	34.11 m.		
HJA3, Barranquilla, Colombia.			
8.830 mags.	33.95 m.		
SHIPS.	For address of these ships refer to 4.413 mags., 4.415 mags. and 4.430 mags. All these ships work with WOO. The German ships work also DAF; British ships with GBC and CZA; Furness-Bermuda ships with ZFA-B.		
DDAS, S. S. Bremen.			
DDBR, S. S. Berlin.			
DDCP, S. S. Cap Polonia.			
DDDX, S. S. Hamburg.			
DDEA, S. S. Cap Ancona.			
DDED, S. S. New York.			
DDFF, S. S. Reliance.			
DDFT, S. S. Oceana.			
DDNY, S. S. Albert Ballin.			
DHEY, S. S. Deutschland.			
DHTY, S. S. Resolute.			
DOAI, S. S. Europa.			
DOBX, S. S. Columbus.			
GBZW, S. S. Berengaria.			
GFWV, S. S. Majestic.			
GLSQ, S. S. Olympic.			
GMBJ, S. S. Empress of Britain.			
GMJQ, S. S. Belgenland.			
VQJM, S. S. Monarch of Bermuda.			
VQJP, S. S. Queen of Bermuda.			
8.900 mags.	33.69 m.		
ZLS, Wellington, N. Z.	Address Supt. of Post and Telegraphs, GPO.		
8.930 mags.	33.57 m.		
WAD, Rocky Point, N. Y.	R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. City.		
WEC, Rocky Point, N. Y.	Address WAD above.		
8.940 mags.	33.54 m.		
KZGG, Cebu, Island of Cebu, P. I.	Inter-Island phone. Philippine Long Distance Telephone Co.		
WKL, Rocky Point, N. Y.	Address WAD, 8.930 mags.		
8.950 mags.	33.50 m.		
WEL, Rocky Point, N. Y.	Address WAD, 8.930 mags.		
8.975 mags.	33.41 m.		
VWY, Kirkee, Poona, India.	Phones London.		
9.010 mags.	33.28 m.		
KEJ, Bolinas, Calif.	20-40 kW. Address KEL, 6.860 mags.		
9.020 mags.	33.24 m.		
GCS, Rugby, England.	15 kW. Phones N. Y. night.		
9.050 mags.	33.13 m.		
TFK, Reykjavik, Iceland.	8.5 kW. (under construction).		
9.120 mags.	32.88 m.		
CP6, La Paz, Bolivia.	"Illimani Radio." Compania Radio Boliviana, Casilla 637.		
9.125 mags.	32.86 m.		
HAT4, Szekesfeharvar, Hungary.	20 kW. "Justice for Hungary!" Announce in Hungarian, French, England by lady. Address HAT2, 7.220 mags.		
9.168 mags.	32.70 m.		
YVR, Santa Rita, Maracay, Venezuela.	Address YVQ, 6.672 mags.		
9.170 mags.	32.70 m.		
KZGF, Manila, P. I.	Inter-Island phone.		
WNA, Lawrenceville, N. J.	Works London. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.		
9.280 mags.	32.31 m.		
GCB, Rugby, England.	15 kW. Phones Canada. Address Engineer-in-Chief, G.P.O. (Radio Section), Armour House, St. Martins le Grand, London EC1.		
9.332 mags.	32.13 m.		
CGA4, Drummondville, P. Q.	Phones London. Address VE9DN, 6.005 mags.		

SHORT WAVE STATIONS BY FREQUENCIES

9.415 megs.	31.84 m.	PLV, Bandoeng, Java, N. E. I. 80 kW. Works Dixon and JVB, JVE, JVQ. Address Mr. H. Van der Veen, Post-Telegraafen Telefoondienst, Bedrijf der Radiostations op Java, Bandoeng.
9.428 megs.	31.80 m.	COH, Vedado, Havana, Cuba. Slogan: "Cuba, the Evergreen Land." Address: No. 2, B. Street. Daily 1000-1200; 1600-1800; 2100-2200; Relays CMCY Sunday, 1000-1100.
9.448 megs.	31.74 m.	WES, Rocky Point, N. Y. Address WAD, 8.930 megs.
9.460 megs.	31.69 m.	WKJ, New Brunswick, N. J. Address WNA, 9.170 megs.
9.470 megs.	31.66 m.	WET, Rocky Point, N. Y. Works Buenos Aires, Caracas. Address WAD, 8.930 megs.
9.490 megs.	31.59 m.	KZGH, Iloilo, P. I. Inter-Island phone. Philippine Long Distance Telephone Co. OXY, Copenhagen, Denmark. Not used at present. SRI, Poznan, Poland. 1 kW. Tues., 1300-1500; Wed., 0800-0900. Radio Pozanski, Plac Wolnosce 11, Rozglosnia, Poznan. (This station is probably off the air).
9.500 megs.	31.56 m.	XGOX, Nanking, China. See 6.000 megs.
9.503 megs.	31.55 m.	VK3ME, Melbourne, Victoria, Australia (Braybank). 5 kW. Amalgamated Wireless (A/sia) Ltd., Box No. 1272L, Elizabeth St. P. O., Melbourne. Wed., Thurs., Fri., Sat., 0500-0700.
9.505 megs.	31.54 m.	PRF5, Rio de Janeiro, Brazil. "Radio Journal." Program consists of talks in Portuguese, Spanish, English and sometimes French, German. Address: Director of the Imprensa Nacional. Daily, 1730-1815.
9.510 megs.	31.53 m.	GSB, Daventry, England. 20 kW. "B for Broadcasting." Interval sig.: Bow Bells and Big Ben. Sign off: God Save the King. Address GSA, 6.050 megs. Daily, 0115-0315; 1215-1500; 1515-1645.
9.530 megs.	31.46 m.	W2XAF, Schenectady, N. Y. 40 kW. Relays NBC-WGY. The General Electric Co., Schenectady. "The Voice of Electricity". Programs commence with electrical discharge of 10,000,000 Volts (man-made lightning). Sun., 1615-2400; Thurs., 1700-2300; other days, 1730-2300.
9.540 megs.	31.43 m.	DJN, Zeesen, Germany. 8 kW. Programs close with Nazi Hymn and Watch on the Rhine. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 megs.
LKJ1, Jeloy, Norway. 500 watts. Address LCL, 6.130 megs. Daily, 0500-0800.		
9.555 megs.	31.38 m.	VE9DN, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
9.560 megs.	31.36 m.	DJA, Zeesen, Germany. For details see DJN, 9.540 megs.
9.565 megs.	31.35 m.	VUB, Bombay, India. Indian State Broadcasting Service, Irwin House, Spotts Road, Ballard Estate, Bombay. Sun., 0700-0900 approximately.
9.570 megs.	31.33 m.	W1XK, Millis (Boston), Mass. 10 kW. Relays WBZ-WBZA, NBC programs. "These are the New England Westinghouse stations WBZ, WBZA, W1XK." Address: Westinghouse Radio Stations of New England, Hotel Bradford, Boston. Sunday, 0800-0100; other days, 0700-0100.
W8XK, Pittsburgh (Saxonburg), Pa. This frequency loaned to W1XK.		
9.575 megs.	31.31 m.	VUC, Calcutta, India. Refer to VUC, 6.112 megs.
9.580 megs.	31.30 m.	GSC, Daventry, England. 20 kW. "C for Corporation." For other details see GSB, 9.510 megs. Daily, 1800-2000; 2200-2300. VE9DR, Montreal, P. Q. Address VE9DN, 9.555 megs. VK3LR, Melbourne, Australia. Research Section, P. M. G. Dept., 61 Little Collins St., C1, Melbourne. Daily, 0400-0800. XGBD, Shanghai, China. 18.5 kW. (Existence doubtful).
9.585 megs.	31.28 m.	VK2ME, Sydney (Pennant Hills), Australia. 12 kW. "The Voice of Australia." Laughing notes of the kookaburra, the Laughing Jackass, various times during program. Sign off: God Save the King. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney. Sundays, 0100-0300; 0500-1100., Villejust, France. 120 kW. (Under construction).
9.590 megs.	31.26 m.	HP5J, Panama City, Panama. 4 kW. "La Voz de Panama." Manuel Diaz Doce, Apartado 867. Daily, 1145-1300; 1930-2200.
W3XAU, Philadelphia (Newton Square), Pa. Relays CBS-WCAU. 750 watts. Address W3XAU, 6.060 megs. Daily, 1200-2000.		
9.595 megs.	31.25 m.	HBL, Prangins (Geneva), Switzerland. 18 kW. "Radio Nations." Works USA and broadcasts. Programs consist of talks in English, French, Spanish. Address HBP, 7.797 megs. Sat., 1730-1815.
9.600 megs.	31.23 m.	CT1AA, Lisbon, Portugal. 2 kW. "Radio Colonial." Interval sig.: 3 cuckoos. Address: Senhor Abilio Nunes dos Santos, Jr., Av. Antonio d'Aguiar 144. Tues., Thurs., Sat., 1630-1900.
LQA, Buenos Aires, Argentina. Compania Internacional de Radio, Defensa 143, B. A.		
9.609 megs.	31.20 m.	DGU, Nauen, Germany. Phones Egypt irreg. Address DGK, 6.675 megs.
9.630 megs.	31.13 m.	I2RO, Rome, Italy. Address Ente Italiano Audizioni Radiofoniche, Via Montello 5, Rome. American Hour broadcast Mon., Wed., Fri., 1800-1930.
9.710 megs.	30.88 m.	GCA, Rugby, England. 15 kW. Phones N. Y. and Buenos Aires. Address GCB, 9.280 megs.
9.750 megs.	30.75 m.	RKF, Moscow, USSR. 20 kW.

SHORT WAVE STATIONS BY FREQUENCIES

VLJ , Sydney (Pennant Hills), Australia. 3.5 kW. Phones Bandoeng. Address VK2ME, 9.585 megs.	Works Buenos Aires. Cia. Radiotelegraphica Brasileira, Caixa Postal 500.
WOF , Lawrenceville, N. J. Address WNA, 9.170 megs.	10.250 megs. 29.25 m.
9.790 megs. 30.63 m.	LSK3 , Buenos Aires (Hurlingham), Argentina. 5 kW
GCW , Rugby, England. 15 kW. Phones N. Y. evenings. Address GCB, 9.280 megs.	10.260 megs. 29.22 m.
9.840 megs. 30.47 m.	PMN , Bandoeng, N. E. I. 3 kW. Works Sydney. Address PLV, 9.415.
JYS , Kemikawa-Cho, Chiba-Ken, Japan. Experimental. 10 kW.	10.285 megs. 29.15 m.
9.862 megs. 30.40 m.	DIQ , Koenigswusterhausen, Germany. Address DGK, 6.675 megs.
EAQ , Madrid (Aranjuez), Spain. 20 kW. "La Voz de Espana." Transradio Espanola, S. A., Departamento de Radiodifusion Ibero-Americana, Apartado 951. Programs close with National Hymn, "Himno de Riego." Daily, 1730-1900; Sat., 1200-1400.	10.290 megs. 29.14 m.
9.870 megs. 30.38 m.	HPC , Panama City, Panama.
WON , Lawrenceville, N. J. 20 kW. Works London. Add.: WNA, 9.170.	10.330 megs. 29.02 m.
9.890 megs. 30.32 m.	ORK , Brussels (Ruyssselede), Belgium. 11 kW. Works OPM irregularly; broadcasts daily. Ann.: Radio I.N.R. Sign off: La Brabaconne. Address: Regie des Telegraphes et des Telephones, Direction des Radiocommunications, Bruxelles.
LSM2 , Buenos Aires (Hurlingham), Argentina. Address LQA, 9.600 megs.	10.335 megs. 29.01 m.
9.895 megs. 30.30 m.	ZFD , St. George, Bermuda. 1.5 kW. Address reports on special transmissions to Town Clerk, St. George.
LSN , Buenos Aires (Hurlingham), Argentina. Works N. Y. Address LQA, 9.600 megs.	10.350 megs. 28.97 m.
9.920 megs. 30.22 m.	LSX , Buenos Aires (Monte Grande), Argentina. 20 kW. Transradio Internacional, Compania Radiotelegrafica Argentina S. A. San Martin 329.
JDY , Darien. Works JVU, Nazaki.	10.370 megs. 28.91 m.
9.930 megs. 30.19 m.	WCG (W2XBJ), Tuckerton, N. J.
HJY , Bogota, Colombia. Phones CEC, OCI evenings.	10.375 megs. 28.89 m.
9.950 megs. 30.13 m.	JVO , Nazaki, Japan. 10 kW. Works JZA, JZB, JZC. Harbin. Address JZG, 6.330 megs.
GCU , Rugby, England. 15 kW. Works N. Y. nights. Address GCB, 9.280 megs.	10.400 megs. 28.83 m.
9.990 megs. 30.61 m.	KEZ , Bolinas, Calif. 40 kW. RCA Communications, Inc., Pacific Division, 28 Geary St., San Francisco, Calif.
KAZ , Manila, P. I. 40 kW. Works Dixon. Radio Corp. of the Philippines, Plaza Moraga.	10.410 megs. 28.80 m.
LSL , Buenos Aires, Argentina. Address LQA, 9.600 megs.	KES , Bolinas, Calif. 40 kW. Address KEZ, 10.400 megs.
10.000 megs. 29.98 m.	10.410 megs. 28.80 m.
WWV , Beltsville, Md. 20 kW. Standard Frequency Station. Dept. of Commerce, National Bureau of Standards, Washington, D. C. Tues., Fri., 1315-1415.	PKD , Kootwijk, Netherlands. 60 kW. Address Radiolaboratory, Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.
10.040 megs. 29.86 m.	10.415 megs. 28.79 m.
HII , Santo Domingo, D. R.	PKD , Kootwijk, Netherlands. 60 kW. Address PDK, 10.410 megs.
10.055 megs. 29.82 m.	10.420 megs. 28.77 m.
SUV , Cairo (Abu Zabal), Egypt. 10 kW. Marconi Radio Telegraph Co. of Egypt, S. A., Box 795, Cairo.	PKD , Kootwijk, Netherlands. 60 kW. Address PDK, 10.410 megs.
ZFB , Hamilton (St. George) Bermuda. 1.5 kW. Phones N. Y. days.	XGW , Shanghai, China. 20 kW. Address XGO, 7.575 megs.
10.070 megs. 29.77 m.	10.430 megs. 28.75 m.
EHY , Madrid (Pozuelo del Rey), Spain. Phones YVR afternoons. Compania Telefonica Nacional de Espana, S. A., Margall 2, Madrid.	YBG , Medan, Sumatra, N. E. I. 3 kW. Works Bandoeng. Director of Govt. Radio Service, Telegraaf en Telefoonendienst, Serdangweg 2, Medan. Daily, 0430-0530; 2030-2300.
10.135 megs. 29.58 m.	10.465 megs. 28.64 m.
OPM , Leopoldville, Belgian Congo. 12 kW. Works ORK. Address Leopoldville Radio Station.	WKC , Rocky Point, N. Y. 100 kw. Address WAD, 8.930 megs.
10.200 megs. 29.39 m.	10.520 megs. 28.50 m.
CMHB , Sancti-Spiritus, Cuba. Sr. Vicente Weiss Arias, Apartado 85.	VLK , Pennant Hills (Sydney), Australia. 16 kW. Address VK2ME, 9.585 megs.
10.200 megs. 29.34 m.	
PSH , Rio de Janeiro (Marapicu), Brazil. 12 kW.	

SHORT WAVE STATIONS BY FREQUENCIES

10.530 megs. GBX, Rugby, England. 8 kW. Address GCB, 9.280 megs. JIB, Taiwan. Works JVG, JVL, JVV, Nazaki.	28.47 m.	HJ4ABA, Medellin, Colombia. "Ecos de la Montana," "Radio Coloniale," Pontoise, France. 15 kW. Address: Ministere des Postes, Telegraphes et Telephones, Direction de la Radiodiffusion, 98 bis, Blvd. Haussmann, Paris. Daily, 1900-2200; 2300-0100.
10.550 megs. WOK, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 megs.	28.42 m.	11.725 megs. PHI, Hilversum, Netherlands. 23.6 kW. (Winter frequency). Philips' Omroep Holland-Indie, Emmasingel 29, Eindhoven. Announces in Dutch, Malay, German, French, English, Spanish, Portuguese. Close: Dutch National Anthem.
10.600 megs. WQW, Rocky Point, N. Y. Works Berlin. Address WAD, 8.930 megs.	28.28 m.	11.750 megs. GSD, Daventry, England. 20 kW. "D for Daventry." Interval sig.: Bow Bells and Big Ben. Sign off: God Save the King. Address, see GSA, 6.050 megs. Daily, 0115-0315; 1215-1600; 1800-2000; 2200-2300.
10.610 megs. WEA, Rocky Point, N. Y. 40 kW. Address WAD, 8.930 megs.	28.25 m.	11.770 megs. DJD, Zeesen, Germany. 8 kW. Programs close with Nazi Hymn and Watch on the Rhine. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 megs.
10.660 megs. JVN, Nazaki, Ibaraki-Ken, Japan. 20 kW. Works Europe and broadcasts to America. Sign off: Japanese National Anthem. Address, see JZG, 6.330 megs. Mon., Thurs., 1600-1780; daily, 0000-0100.	28.13 m.	11.790 megs. DJO, Zeesen, Germany. Address DJC, 6.020 megs. W1XAL, Boston, Mass. 5 kW.
10.670 megs. CEC, La Granja, (Santiago) Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago. Broadcasting irregularly.	28.10 m.	11.810 megs. DJO, Zeesen, Germany. Address DJC, 6.020 megs. W1XAL, Boston, Mass. 5 kW.
10.675 megs. WNB, Lawrenceville, N. J. 500 watts. Phones Bermuda. Address, WNA, 9.170 megs.	28.09 m.	11.810 megs. VE9GW, Toronto (Bowmanville), Ont.
10.740 megs. JVM, Nazaki, Ibaraki-Ken, Japan. 20 kW. Other details identical JVN, 10.660.	27.92 m.	11.811 megs. IRE, Rome, Italy. Address I2RO, 9.630 megs. Daily, 0815-0900; 0915-1015; 1200-1300; 1345-1430.
10.770 megs. GBP, Rugby, England. 15 kW. Address GCB, 9.280 megs.	27.84 m.	11.830 megs. W2XE, New York, N. Y. (Wayne, N. J.). Relays CBS, WABC. 10 kW. Address W2XE, 6.120 megs. Daily, 1500-1700. W9XAA, Chicago, Ill.
10.840 megs. KVV (W6XN), Dixon, Calif. 20 kW. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco, Calif.	27.66 m.	11.845 megs., Villejust, France. 120 kW. Under construction.
10.960 megs. JZB, Harbin, Manchukuo. Works JVI, JVO, Nazaki.	27.36 m.	11.860 megs. GSE, Daventry, England. 20 kW. "E for Empire." Interval sig.: Westminster Chimes and Big Ben. Sign off: God Save the King. Address: see GSA, 6.050 megs. Daily, 1100-1200.
10.990 megs. ZLT, Wellington, N. Z. Works VLZ. Supt. Posts and Telegraphs.	27.28 m.	11.870 megs. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh, Pa. Daily, 1700-2100.
11.140 megs. XGB, Shanghai China. 15 kW. (Existence doubtful).	26.91 m.	11.880 megs., "Radio Coloniale," Pontoise, France. 15 kW. Address, see 11.720 megs. Daily, 1115-1415; 1500-1800.
11.370 megs. CWG, Carrito (Montevideo), Uruguay. 1.5 kW.	26.38 m.	11.940 megs. FTA, Ste. Assise, France. Works Saigon. Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris VIII.
11.495 megs. VIZ3, Rockbank (Melbourne), Australia. Tests with Canada. Address VK3ME, 9.503 megs.	26.08 m.	11.950 megs. KKQ, Bolinas, Calif. Address KEZ, 10.400 megs.
11.660 megs. JVL, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address JZG, 6.330 megs.	25.71 m.	11.990 megs. FZS2, Saigon, French Indo-China. 15 kW. Phones
11.670 megs. PPQ, Rio de Janeiro (Sepetiba), Brazil. 5 kW. Address, see PSH, 10.220 megs.	25.69 m.	
11.680 megs. KIO, Kahuku, Oahu, Hawaii. Works Bolinas., Kahuku, Oahu, T. H. Works GMBJ.	25.67 m.	
11.720 megs. CJRX, Winnipeg, Man. (Middlechurch). James Richardson & Sons, Royal Alexandra Hotel. Daily, 2000-2400.	25.58 m.	

SHORT WAVE STATIONS BY FREQUENCIES

Paris. Cie. Generale de Telegraphie Sans Fil, Boite Postale 238.	12.830 megs.	23.36 m.
RNE, Moscow, U. S. S. R. 20 kW. Kremlin Chimes at 1600 EST. Programs in English, Russian, German, French, Czech, Hungarian, Dutch, Spanish, Swedish. Address: Mme. Inna Marr, Trade Union Radio Station, Palace of Labor, Solianka 12, Moscow. Daily, 1500-1800; Sunday, 0700-1100; Wed., 0600-0700.	12.840 megs.	23.35 m.
JVK, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 megs.	12.930 megs.	23.18 m.
HBO, Prangins, (Geneva) Switzerland. 20 kW. "Radio Nations." Address: see HBP, 7.797 megs.	12.955 megs.	23.14 m.
DJK, Nauen, Germany. 7.2 kW. Address DGK, 6.675 megs.	13.020 megs.	23.03 m.
PDV, Kootwijk, Netherlands. 60 kW. Address: PDK, 10.410 megs.	13.020 megs.	23.03 m.
GBS, Rugby, England. 15 kW. Phones N. Y. Afternoons. Address: GCB, 9.280 megs.	13.045 megs.	22.98 m.
VIY, Ballan, Victoria, Australia. Address VK2ME, 9.585 megs.	13.050 megs.	22.97 m.
TYA, Paris, France. Phones Algeria. Address: FTA, 11.940 megs.	13.140 megs.	22.82 m.
TFK, Reykjavik, Iceland. 8.5 kW. Under construction.	13.185 megs.	22.74 m.
GBU, Rugby, England. Phones N. Y. Address: GCB, 9.280 megs.	13.200 megs.	22.71 m.
FTN, Ste. Assise, France. Address: FTA, 11.940 megs.	13.237 megs.	22.65 m.
JVJ, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megs.	13.320 megs.	22.51 m.
RKK, Moscow, USSR. 20 kW.	13.337 megs.	22.48 m.
DAF, Norden, Germany. 5 kW. Phones ships, mornings. For address see DAF, 8.464 megs.		
RKF, Moscow, USSR. 20 kW.		
ZSV, Walvis Bay, Union of South Africa. 1 kW.		
DAF, Norden, Germany. 5 kW. Works ships. Address DAF, 8.464 megs.		
GBC, Rugby, England. 5 kW. Works ships. Address GCB, 9.280 megs.		
IAC, Coltano, Italy. 14 kW. Works ships. Address IAC, 4.355 megs.		
CNR, Rabat, Morocco. Works Paris. Address, CNR, 8.035 megs.		
HJA3, Barranquilla, Colombia.		
....., "Radio-Maroc," Rabat, Morocco. 25 kW. Address CNR, 8.035 megs. Broadcasts Sun., 0700-0900.		
WOO, Ocean Gate, N. J. 20 kW. Works ships. Address WNA, 9.170 megs.		
WOY, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 megs.		
WAW, Hialeah, Fla.		
GMBJ, S. S. Empress of Britain. Works WOO, IAC, DAF, GBC, CZA, etc.		
JZE, Nazaki, Japan. 10 kW. Works ships. Address, JZG, 6.330 megs.		
VPD, Suva, Fiji Islands. "Radio Suva." Amalgamated Wireless, (A/sia) Ltd., Suva, Fiji. Daily exc. Sun., 0030-0130.		
ICEJ, S. S. Rex. Address Italian Line, No. 1 State St., N. Y. C.		
CWH, Montevideo (Cerrito), Uruguay. 1.5 kW.		
SHIPS. For addresses of these ships refer to 4.413 megs., 4.415 megs. and 4.430 megs. All these ships work with WOO. The German ships also work DAF; the Italian ships work IAC; British ships with GBC and CZA.		
DDAS, S. S. Bremen.		
DDBR, S. S. Berlin.		
DDCP, S. S. Cap Polonio.		
DDDX, S. S. Hamburg.		
DDEA, S. S. Cap Ancona.		
DDED, S. S. New York.		
DDFF, S. S. Relianca.		
DDFT, S. S. Oceana.		
DDNY, S. S. Albert Ballin.		
DHEY, S. S. Deutschland.		
DHTY, S. S. Resolute.		
DOAL, S. S. Europa.		
DOBX, S. S. Columbus.		
FNSM, S. S. Paris.		
FTNQ, S. S. Ile de France.		
GBZW, S. S. Berengaria.		
GFVV, S. S. Majestic.		
GLRZ, S. S. Aquitania.		
GLSQ, S. S. Olympic.		
GMJQ, S. S. Belgenland.		
IBEJ, S. S. Conte Rosso. Italian Line, One State St., N. Y. C.		
IBGI, S. S. Conte Verde. Idem.		
IBLI, S. S. Conte di Savoia. Idem.		
CFU, Rossland, B. C. Consolidated Mining & Smelting Co.		
FNSK, S. S. Normandie.		
GDLJ, S. S. Homeric. Address GBZW, 4.413 megs.		
YVQ, Maracay (Santa Rita), Venezuela. Phones Hialeah days.		

SHORT WAVE STATIONS BY FREQUENCIES

13.390 megs.	22.39 m.	14.470 megs.	20.72 m.
WMA, Lawrenceville, N. J. Works London. Address WNA, 9.170 megs.		WMF, Lawrenceville, N. J. A. T. & T. Long Lines Dept., 32 Sixth Ave., N. Y. City.	
13.415 megs.	22.35 m.	14.480 megs.	20.70 m.
GCJ, Rugby, England. Works J VH, Nazaki. Address GCB 9.280 megs., 0300-0800.		LSN, Buenos Aires (Hurlingham), Argentina. Phones N. Y. Address: Compania Internacional de Radio, Defensa 143.	
TIEP, San Jose, Costa Rica. "La Voz del Tropico". Sr. Eduardo Pinto Hernandez, Apartado 257. Sunday at 1300.		YNA, Managua, Nicaragua. Phones Hialeah days.	
13.435 megs.	22.31 m.	14.500 megs.	20.68 m.
WEL, Rocky Point, N. Y. Phones London. Address WAD 8.930 megs.		HRM, Tela, Honduras. Works Hialeah days.	
13.465 megs.	22.26 m.	14.535 megs.	20.63 m.
WKC, Rocky Point, N. Y. Address: WAD, 8.930 megs.		HBJ, Prangins (Geneva), Switzerland. 20 kW. "Radio Nations." Address: M. Gallarati, Information Section, League of Nations, Geneva.	
13.500 megs.	22.21 m.	14.545 megs.	20.69 m.
GBB, Rugby, England. Phones Canada and Egypt days. Address: GCB, 9.280 megs.		HPF, Panama City, Panama. Phones Hialeah days. TGF, Guatemala City, Guat. Phones Hialeah days. TIN, Cartago, Costa Rica. Phones Hialeah days. Compania Radiografica Internacional de C. R., San Jose.	
13.560 megs.	22.11 m.	TIU, Cartago, Costa Rica, See TIN above.	
JVI, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC Harbin. Address: Kokusai-Denwa Kaisha, Ltd., Osaka-Bldg., Kojimachiku, Tokyo.		14.590 megs.	20.55 m.
13.600 megs.	22.05 m.	WMN, Lawrenceville, N. J. 20 kW. Address WMF, 14.470 megs.	
JYK, Kemikawa-Cho, Chiba-Ken, Japan. Experimental.		14.640 megs.	20.42 m.
13.690 megs.	21.90 m.	JVH, Nazaki, Japan. 20 kW. Address JVI, 13.560 megs. Works GCJ, 0200-0600.	
KKZ, Bolinas, Calif. Works Honolulu, Hsinking, New York. Address: KEZ, 10,400 megs.		14.690 megs.	20.41 m.
13.745 megs.	21.81 m.	PSF, Rio de Janeiro, Brazil. Phones Madrid and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709.	
CGAZ, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.		14.800 megs.	20.26 m.
13.780 megs.	21.75 m.	WQV, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.	
KKW, Bolinas, Calif. Address: KEZ, 10,400 megs.		14.815 megs.	20.23 m.
13.810 megs.	21.71 m.	WQL, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.	
HRM, Tela, Honduras. Tela Railroad Co. SUZ, Cario (Abu Zabal), Egypt. 10 kW. Uses any freq. between 13.810 and 13.830 megs. Address: SUV, 10,055 megs.		14.830 megs.	20.21 m.
13.840 megs.	21.66 m.	WKU, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.	
WPE, Rocky Point, N. Y. Radio Corp. of America. Central Freq. Bureau, 66 Broad St., New York City.		14.910 megs.	20.11 m.
13.855 megs.	21.63 m.	JVG, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address: JVI, 13.560 megs.	
WQU, Rocky Point, N. Y. Address: WPE, 13.840 megs.		14.930 megs.	20.08 m.
13.870 megs.	21.61 m.	HJB, Bogota, Colombia. Phones Hialeah, days.	
WIY, Rocky Point, N. Y. Address: WPE, 13.840 megs.		14.935 megs.	20.07 m.
13.900 megs.	21.57 m.	PSA, Rio de Janeiro, Brazil. Phones Buenos Aires and Madrid. Address: PSF, 14.690 megs.	
WQP (W2XBJ), Rocky Point, N. Y. Address: WPE, 13.840 megs.		14.980 megs.	20.01 m.
13.915 megs.	21.54 m.	KAY, Manila, P. I. 40 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.	
WQS, Rocky Point, N. Y. Address: WPE, 13.840 megs.		15.040 megs.	19.93 m.
13.980 megs.	21.45 m.	RKI, Moscow, USSR. 20 kW. Works RIM Tashkent. WQG, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.	
LCO, Jeloy, Norway. 1 kW. Address LCL, 6.130 megs.		15.055 megs.	19.91 m.
13.984 megs.	21.44 m.	WNC, Hialeah, Fla. 400 watts. Works HJB, HJP, HPF, HRM, TGF, TIN, TIU, YNA, YVQ and ZFS daily; other S. Americans irregularly.	
GBA, Rugby, England. Address GCB, 9.280 megs.		15.070 megs.	19.89 m.
14.000 to 14.400 megs.		PSD, Rio de Janeiro (Marapicu), Brazil. 12 kW.	
20.82 to 21.42 meters. AMATEURS. Phones work between 14.150 and 14.250 megs.			
14.440 megs.	20.76 m.		
GBW, Rugby, England. 15 kW. Address GCB, 9.280 megs.			

SHORT WAVE STATIONS BY FREQUENCIES

Works Madrid and Buenos Aires mornings. Address: PSF, 14.690 megs.		man-made lightning. other days, 1400-1500.	Sunday, 1030-1600;
15.090 megs.	19.87 m.	15.340 megs.	19.55 m.
RKI, Moscow, USSR. 20 kW.	Works Rocky Point.	DJR, Zeesen, Germany.	
15.104 megs.	19.85 m.	15.350 megs.	19.53 m.
RAU, Tashkent, USSR.	Phones Moscow mornings.	CT1AA, Lisbon, Portugal. 2 kW. Int. Sig.: 3 cuckoos. Address CT1AA, 9.600 megs.	
15.120 megs.	19.83 m.	15.355 megs.	19.52 m.
HVJ, Vatican City. 10 kW. Interval sig.: clock ticking for 10 minutes preceding transmission; bells of St. Peter's at 3 o'clock. Announcement: Laudatur Jesus Christus. Talks as follows: Mon., Italian; Tues., English; Wed., Spanish; Thurs., French; Fri., German; Sat., Dutch; Sun., Latin. Address: Stazione Radio-Vaticano, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: 1000-1045.		KWU (W6XN), Dixon, Calif. 20 kW. Address KWV, 10.840 megs.	
15.140 megs.	19.80 m.	15.370 megs.	19.51 m.
GSF, Daventry, England. 15 kW. "F for Fortune." Interval sig.: Westminster chimes and Big Ben. Sign off: God Save the King. Address, British Broadcasting Corp., Broadcasting House, London W.1. Daily, 0900-1200; daily exc. Sun., 0600-0845; Sun., 0630-0845.		HAS3, Szekesferhervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address, see HAT2, 7.220 megs.	
15.200 megs.	19.73 m.	15.415 megs.	19.45 m.
DJB, Zeesen, Germany. 8 kW. Programs close with Nazi Hymn and Watch on the Rhine. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC 6.020 megs.		KWO (W6XN), Dixon, Calif. 20 kW. Address KWV, 10.840 megs.	
15.210 megs.	19.71 m.	15.440 megs.	19.42 m.
W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg. Daily 0900-1900.		PRADO, Riobamba, Ecuador. "Estacion El Prado." Apartado 98. This freq. used in summer only, Sundays, 1700-1800.	
15.220 megs.	19.70 m.	15.445 megs.	19.41 m.
PCJ, Hilversum, Netherlands. Philips' Omroep Holland-Indie, Emmasingel 29, Eindhoven. Announcements in Dutch, English, French, German, Malay, Portuguese, Spanish. Sign off: Dutch National Anthem. Irregular in operation.		WKW, Rocky Point, N. Y. Address WPE, 13.840.	
15.250 megs.	19.66 m.	15.454 megs.	19.40 m.
"Radio Coloniale," Pontoise, France. 12 kW. Address, see 11.720 megs. Daily, 0700-1100.		....., Pontoise, France. (Proposed).	
W1XAL, Boston, Mass. 5 kW.		15.475 megs.	19.37 m.
15.260 megs.	19.65 m.	KKL, Bolinas, Calif. Address KEZ, 10.400 megs.	
GSI, Daventry, England. "I for Island." For other details see GSF, 15.140 megs.		15.510 megs.	19.33 m.
15.270 megs.	19.64 m.	JDX, Darien. Works JVU Nazaki.	
W2XE, New York, N. Y. (Wayne, N. J.). 10 kW. Relays WABC-CBS. For address see 6.120 megs. Daily 1100-1300.		15.620 megs.	19.19 m.
15.280 megs.	19.62 m.	JVF, Nazaki, Japan. 20 kW. Works Dixon. nights. Address JVI, 13.560 megs.	
DJQ, Zeesen, Germany.		15.660 megs.	19.15 m.
15.295 megs.	19.60 m.	JVE, Nazaki, Japan. 10 kW. Works Bandoeng nights. Address JVI, 13.560 megs.	
....., Villejust, France. 120 kW. Under construction.		15.680 megs.	19.12 m.
15.300 megs.	19.60 m.	JZA, Harbin, Manchukuo. Works JVI, JVO Nazaki.	
CP7, La Paz, Bolivia. Compania Radio Boliviana, Casilla 637.		15.750 megs.	19.04 m.
OXY, Copenhagen, Denmark.		JIA, Taiwan. Works JVG, JVL, JVV Nazaki.	
15.330 megs.	19.56 m.	15.760 megs.	19.02 m.
W2XAD, Schenectady, N. Y. 20 kW. The General Electric Co. Relays NBC-WGY. "The Voice of Electricity." Program commences with electrical discharge of 10,000,000 volts of		JYT, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW.	
		15.860 megs.	18.90 m.
		CEC, La Granja (Santiago), Chile. 800 watts. Phones Peru, afternoons. Address CEC, 10.670 megs.	
		JVD, Nazaki, Japan. Works Shanghai. Address JVI, 13.560 megs.	
		15.863 megs.	18.90 m.
		FTK, Ste. Assise, France. Phones Saigon. Address FTA, 11.940 megs.	
		15.970 megs.	18.77 m.
		WKO, Rocky Point, N. Y. Address WPE, 13.840 megs.	
		16.015 megs.	18.72 m.
		WQR, Rocky Point, N. Y. Address WPE, 13.840 megs.	
		16.030 megs.	18.71 m.
		KKP, Kahuku, Oahu, Hawaii.	
		....., Kahuku, Oahu, T. H. Phones GMBJ.	
		16.050 megs.	18.68 m.
		JVC, Nazaki, Japan. Works Hongkong. Address JVI, 13.560 megs.	

SHORT WAVE STATIONS BY FREQUENCIES

16.150 megs.	18.56 m.		
GBX, Rugby, England. Phones Sydney. Address Engineer-in-chief, G.P.O. (Radio Section), Armour House, St. Martins le Grand, London EC1.			
16.200 megs.	18.51 m.		
FZR, Saigon, French Indo-China. Phones Paris. Address FZ52, 11,990 megs.			
16.240 megs.	18.49 m.		
KTO, Manila, P. I. Phones Dixon. Radio Corp. of the Philippines, Plaza Moraga, Manila.			
16.270 megs.	18.48 m.		
WLK, Lawrenceville, N. J. Works London. Address WMF, 14,470 megs.			
16.380 megs.	18.30 m.		
XGN, Shanghai, China. Address XGO, 7,575 megs.			
16.460 megs.	18.22 m.		
DOAI, S. S. Europa. Phones WOO, DAF. Address DDAS, 4,413 megs.			
16.600 megs.	18.06 m.		
DHEY, S. S. Deutschland. Works WOO, DAF. Address DDAS, 4,413 megs.			
16.765 megs.	17.88 m.		
DHTY, S. S. Resolute. Works WOO, DAF.			
16.910 megs.	17.73 m.		
JZD, Nazaki, Japan. 20 kW. Works ships. Address JVI, 13,560 megs.			
17.080 megs.	17.55 m.		
GBC, Rugby, England. 5 kW. Works ships. Address GBX, 16,150 megs.			
17.120 megs.	17.51 m.		
WOO, Ocean Gate, N. J. 20 kW. Works ships. Address WMF, 14,470 megs.			
WOY, Lawrenceville, N. J. 20 kW. Address WMF, 14,470 megs.			
17.260 megs.	17.37 m.		
DAF, Norden, Germany, 5 kW. Works ships. Address DAF, 8,464 megs.			
17.310 megs.	17.32 m.		
CZA, Drummondville, P. Q. Works ships. Address CGA2, 13,745 megs.			
W3XL, Bound Brook, N. J. 20 kW. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. C.			
17.480 megs.	17.15 m.		
VWY, Kirkee, Poona, India. Phones London.			
17.520 megs.	17.11 m.		
DFB, Nauen, Germany. Works S. America mornings. Address DGK, 6,675 megs.			
17.710 megs.	16.93 m.		
CJA3, Drummondville, P. Q. Works London. Address CGA2, 13,745 megs.			
17.740 megs.	16.90 m.		
HSP, Bangkok, Siam. 20 kW. Post & Telegraph Dept.			
17.760 megs.	16.88 m.		
DJE, Zeesen, Germany. 5 kW.			
17.765 megs.	16.88 m.		
, Villejust, France. 120 kW. Under construction.			
17.770 megs.	16.87 m.		
IAC, Coltano, Italy. Works ships. Radiomartimo Coltano Radio IAC, Piza, Italy.			
17.775 megs.	16.87 m.		
PHI, Hilversum, Netherlands. 23.6 kW. For details see PCJ, 15,220 megs. Mon., Thurs., Fri., 0730-0930; Sat., Sun., 0730-1030.			
17.780 megs.	16.86 m.		
W3XAL, Bound Brook, N. J. 14 kW. Relays WJZ-NBC programs. Address W3XL, 17,310 megs. Daily exc. Sun., 0900-1000; Tues., Thurs., Fri., 1500-1600.			
W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Not used at present.			
W9XAA, Chicago, Ill. Not used at pres.			
17.790 megs.	16.85 m.		
GSG, Daventry, England. 15 kW. "G for Greeting." For other details see GSF, 15,140. Daily, 0900-1045; daily exc. Sun., 0600-0845; Sun., 0630-0845.			
17.830 megs.	16.82 m.		
PCV, Kootwijk, Netherlands. Works Java, mornings. Radiolaboratory Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.			
17.860 megs.	16.78 m.		
WQC, Rocky Point, N. Y. 40 kW. Address WPE, 13,840 megs.			
17.880 megs.	16.76 m.		
WQI, Rocky Point, N. Y. 1 kW. Address WPE, 13,840 megs.			
17.900 megs.	16.75 m.		
WLL, Rocky Point, N. Y. 20 kW. Address WPE, 13,840 megs.			
17.920 megs.	16.73 m.		
WQF, Rocky Point, N. Y. 40 kW. Address WPE, 13,840 megs.			
17.940 megs.	16.71 m.		
WQB (W2XBJ), Rocky Point, N. Y. 40 kW. Address WPE, 13,840 megs.			
18.020 megs.	16.64 m.		
KQJ, Bolinas, Calif. 40 kW. Address KEZ, 10,400 megs.			
18.115 megs.	16.55 m.		
LSY3, Buenos Aires (Monte Grande), Argentina. Transradio Internacional, San Martin 329, B. A.			
18.135 megs.	16.53 m.		
PMC, Bandoeng, Java, N. E. I. 40 kW. Works Neth., 0330-0900. Address: Mr. H. Van der Veen. Engineer in Charge, Post-Telegraaf-en Telefoon dienst, Bedrijf der Radiostations op Java, Bandoeng.			
18.180 megs.	16.49 m.		
CGA, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.			
18.190 megs.	16.48 m.		
JVB, Nazaki, Japan. 10 kW. Works PLE, PLV. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.			
18.200 megs.	16.47 m.		
GAW, Rugby, England. 15 kW. Works N. Y. Address: GBX, 16,150 megs.			
18.296 megs.	16.39 m.		
YVR, Maracay (Santa Rita), Venezuela. Works Berlin. Estados Unidos de Venezuela. Servicio Radiotelegrafico.			
18.304 megs.	16.38 m.		
GAS, Rugby, England. Works N. Y. mornings.			

SHORT WAVE STATIONS BY FREQUENCIES

Address: GBX, 16.150 megs.		19.120 megs.	15.68 m.
18.330 megs. 16.36 m.		LSM, Buenos Aires, Argentina. Works Europe.	
FTE, Ste. Assise, France. Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris VIII.		19.200 megs.	15.62 m.
18.342 megs. 16.35 m.		ORG, Brussels (Ruyssede), Belgium. 8 kW. Works Leopoldville. Address ORK, 10.330 megs.	
FZS, Saigon, French Indo-China. Works Paris. Address: FZS2, 11.990 megs.		19.220 megs.	15.60 m.
18.350 megs. 16.34 m.		WKF, Lawrenceville, N. J. 20 kW. Address WLA, 18.350 megs.	
WLA, Lawrenceville, N. J. A. T. & T. Long Lines Dept., 32 Sixth Ave., N. Y. City.		19.270 megs.	15.57 m.
18.400 megs. 16.29 m.		PPU, Rio de Janeiro, Brazil. Works Paris. 13.5 kW. Address: Cia Radiotelegraphica Brasileira, Caixa Postal 500, Rio de Janeiro.	
PCK, Kootwijk, Netherlands. Works Java. Address: PCV, 17.830 megs.		19.345 megs.	15.50 m.
18.444 megs. 16.25 m.		PMA, Bandoeng, Java, N. E. I. 40 kW. Address: PMC, 18.135 megs.	
HJY, Bogota, Colombia. Works CEC, LSR, OCI days.		19.355 megs.	15.46 m.
18.450 megs. 16.25 m.		FTM, Ste. Assise, France. Address: FTE, 18.330 megs.	
HBH, Prangins, Switzerland. 20 kW. Address: HBJ, 14.535 megs.		19.520 megs.	15.36 m.
18.600 megs. 16.12 m.		IRW, Rome, Italy. Works Argentina. 20 kW. Address: Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125.	
PCM, Kootwijk, Netherlands. Address: PCV, 17.830 megs.		19.600 megs.	15.30 m.
18.620 megs. 16.10 m.		LSF, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.	
GAU, Rugby, England. 15 kW. Address: GBX, 16.150 megs.		19.680 megs.	15.24 m.
18.670 megs. 16.06 m.		CEC, La Granja (Santiago), Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago.	
OCI, Lima (Valverde), Peru. Works HJY, CEC, LSR, WNC days. Compania Peruana de Telefonos, Apartado 986, Lima.		19.820 megs.	15.13 m.
18.830 megs. 15.92 m.		WKN, Lawrenceville, N. J. Address: WLA, 18.350.	
PLE, Bandoeng, Java, N. E. I. 40 kW. Works Dixon nights, Tokyo mornings. Address: PMC, 18.135 megs.		19.900 megs.	15.06 m.
18.860 megs. 15.89 m.		LSG, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.	
WKM, Rocky Point, N. Y. 40 kW. Address: R.C.A., 66 Broad St., N. Y. City.		19.980 megs.	15.01 m.
18.880 megs. 15.88 m.		KAX, Manila, P. I. Radio Corp. of the Philippines, Plaza Moraga, Manila.	
WQH, Rocky Point, N. Y. Address WKM, 18.860 megs.		20.020 megs.	14.98 m.
18.890 megs. 15.87 m.		DHO, Nauen, Germany. 7.2 kW. Works S. America. Reichspost-zentralamt, Telegraphentechnisches Reichsamt, Schoneberger Strasse 11-15, Berlin-Tempelhof.	
ZSS, Capetown (Klipheuevel), Union of South Africa. 5 kW. Works London. Overseas Communication Co., Kodak House, Shortmarket St., Capetown.		20.040 megs.	14.97 m.
18.900 megs. 15.86 m.		OPL, Leopoldville, Belgian Congo. 9 kW. Works ORG.	
WDS, Rocky Point, N. Y. Address WKM, 18.860 megs.		20.100 megs.	14.91 m.
18.910 megs. 15.86 m.		WQY, Rocky Point, N. Y. 40 kW. Address: WKM, 18.860 megs.	
JVA, Nazaki, Japan. 20 kW. Works Europe. Address JVB, 18.190.		20.368 megs.	14.72 m.
18.920 megs. 15.84 m.		GAA, Rugby, England. 15 kW. Address: GBX, 16.150 megs.	
WQE, Rocky Point, N. Y. Address WKM, 18.860 megs.		20.606 megs.	14.55 m.
18.940 megs. 15.83 m.		PMB, Bandoeng, Java, N. E. I. Works PCK. Address: PMC, 18.135 megs.	
WTT, Rocky Point, N. Y. Address WKM, 18.860 megs.		21.020 megs.	14.27 m.
18.950 megs. 15.82 m.		LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address: LSN, 14.480 megs.	
HBF, Prangins (Geneva), Switzerland. 20 kW. Address HBJ, 14.535 megs.		21.060 megs.	14.24 m.
18.958 megs. 15.82 m.		KWN (W6XN), Dixon, Calif. 20 kW. Address: KWW, 10.840 megs.	
LSR, Buenos Aires, Argentina. Works CEC, HJY, OCI.		WKA, Lawrenceville, N. J. 20 kW. Address: WLA, 18.350 megs.	
18.970 megs. 15.80 m.		21.070 megs.	14.23 m.
GAQ, Rugby, England. Works Capetown 0800. Address GBX, 16.150 megs.		PSA, Rio de Janeiro (Marapicu), Brazil. 10 kW.	

SHORT WAVE STATIONS BY FREQUENCIES

<p>Works N. Y. Address: PSF, 14,690 megs.</p> <hr/> <p>21.128 megs. 14.19 m. LSM, Buenos Aires (Monte Grande), Argentina. Address: LSY3, 18,115 megs.</p> <hr/> <p>21.410 megs. 14.00 m. WKK, Lawrenceville, N. J. Address: WLA, 18,250 megs.</p> <hr/> <p>21.460 megs. 13.97 m. W1XAL, Boston, Mass. 5 kW.</p> <hr/> <p>21.470 megs. 13.96 m. GSH, Daventry, England. "H for Home." Interval sig: Westminster Chimes and Big Ben. Sign off: God Save the King. Address: British Broadcasting Corp., Brdcsting. House, London W.1.</p> <hr/> <p>21.490 megs. 13.95 m. , Villejust, France. 120 kW. Under construction.</p>	<p>21.530 megs. 13.93 m. GSJ, Daventry, England. "J for Justice." See GSH, 21,470 megs.</p> <hr/> <p>21.540 megs. 13.92 m. W8XK, Pittsburgh (Saxenburg), Pa. 40 kW. Relays NBC-KDKA. Grant Building. 0700-0900.</p> <hr/> <p>22.290 megs. 13.45 m. GBU, Rugby, England. Works N. Y. Address: GBX, 16,150 megs.</p> <hr/> <p>24.380 megs. 12.29 m. VE9GW, Bowmanville, Ont. Not used at present.</p> <hr/> <p>26.100 megs. 11.49 m. GSK, Daventry, England. "K for King." See GSH, 21,470 megs.</p> <hr/> <p>29.820 megs. 10.05 m. IAF, Fiumicino, Italy. 5 kW. 30,604 megs. 9.80 m. IAG, Golfo Aranci, Sardinia. 5 kW.</p>
--	---

SHORT WAVE STATIONS BY LOCATIONS

<p>ALASKA (K)</p> <p>Cape Pole KIJB 2.994</p> <p>Circle KIKK 2.994 KIKK 3.190</p> <p>Eagle KIIN 2.994 KIIN 3.190</p> <p>Egushik KIGP 3.190 Excursion Inlet KILY 2.994</p> <p>Eyak River KIKN 3.093</p> <p>Fort Yukon KIIL 2.994 KIIL 3.190</p> <p>Hot Springs KIIM 2.994 KIIM 3.190</p> <p>Iron Creek 2.632 2.912</p> <p>Juan 2.632</p> <p>Ketchikan KGM 3.093 KIAX 3.093 KIAY 3.093 WXH 6.662</p> <p>Le Merced KIGF 2.986</p> <p>Marshall KIUI 3.385</p> <p>McGrath KIIO 2.994 KIIO 3.190</p> <p>Poorman KIEJ 2.994</p> <p>Red Bluff 1.622</p> <p>Rose Inlet KIAP 3.093 KIAQ 2.512</p> <p>St. Michael KIIT 3.265</p> <p>Tin City 2.616</p>	<p>TODD</p> <p>KIJN 2.512 KIJN 3.190</p> <p>View Cove KICI 3.093</p> <p>Willow Creek Mines KIIP 3.093</p> <p>ARGENTINA (LOA-LVZ)</p> <p>Buenos Aires LQA 9.600 LSA 14.530 LSF 19.600 LSG 19.900 LSI 9.830 LSK3 10.250 LSL 9.990 LSL 15.810 LSL2 10.300 LSM 19.120 LSM 21.128 LSN 9.895 LSN 14.480 LSN 21.020 LSN2 9.890 LSR 18.958 LSX 10.350 LSY3 18.115</p> <p>AUSTRALIA (VHA-VMZ)</p> <p>Ballan VIY 12.210</p> <p>Melbourne VK3LR 5.678 VK3LR 9.580 VK3ME 9.503</p> <p>Rockbank VIZ3 11.495</p> <p>Sydney VK2ME 9.585 VLJ 9.750 VLK 8.095 VLK 10.520 VLZ 7.960 VLZ 7.980</p>	<p>AUSTRIA (OAE-OEZ)</p> <p>Vienna OER2 6.072</p> <p>AZORES (CT2-)</p> <p>Ponta Delgada CT2AJ 4.000</p> <p>BAHAMAS (ZF-)</p> <p>Cat Cay ZFO 5.300</p> <p>Nassau ZFS 4.512</p> <p>BELGIAN CONGO (OP-)</p> <p>Leopoldville OPL 20.040 OPM 10.135</p> <p>BELGIUM (ONA-OTZ)</p> <p>Brussels ORG 19.200 ORK 10.330</p> <p>BERMUDA (ZF-)</p> <p>Hamilton ZFA 5.025 ZFB 10.055</p> <p>St. George ZFD 10.335</p> <p>BOLIVIA (CPA-CPZ)</p> <p>La Paz CP5 6.080 CP6 9.120 CP7 15.300</p>	<p>BRAZIL (PPA-PYZ)</p> <p>Rio de Janeiro PPM 10.310 PPQ 11.670 PPU 19.270 PRF5 9.505 PSA 14.935 PSA 21.070 PSD 15.070 PSF 14.690 PSH 10.220 PSK 8.180</p> <p>CANADA (CFA-CKZ; CYA-CZZ; VAA-VGZ; VXA-VYZ)</p> <p>ALBERTA</p> <p>Calgary CGE 3.040 CGE 7.550 CKS 3.040 CKS 7.550 VE9CA 6.030 VE9CA 11.860</p> <p>Edmonton CFQ 3.040 CFQ 7.550</p> <p>BRITISH COLUMBIA</p> <p>Alert Bay VAF 1.510</p> <p>Anyon CZQ 5.405</p> <p>Bones Bay CFW 2.290</p> <p>Campbell River CGT 4.865 CJD 1.510 CJD 1.540</p> <p>Cape Lazo VAC 1.510</p> <p>Ceepeecee CJE 2.290</p>	<p>Claydon Bay CZP 4.505</p> <p>Homalko VFJ 2.290</p> <p>Humpback Bay CZL 2.290</p> <p>Knight Inlet CJK 1.510</p> <p>Margaret Bay CJX 2.290</p> <p>Namu CFV 2.290</p> <p>Ocean Falls CGO 4.505</p> <p>Prince George CZO 4.505</p> <p>Prince Rupert CGP 3.268 CGP 5.405 CZG 1.712 CZG 2.416 CZG 6.425</p> <p>Rossland CFU 4.755 CFU 5.660 CFU 6.720 CFU 13.200</p> <p>Sage Creek VXX 5.405</p> <p>Vancouver CGZ 2.452 VE9CS 6.070</p> <p>Waterloo Mine CZV 3.300 CZV 4.840</p> <p>MANITOBA</p> <p>Winnipeg CJRO 6.150 CJRX 11.720 CJU 3.070 CJU 3.452 VYW 2.416</p> <p>NEW BRUNSWICK</p> <p>Fredericton VE9AS 6.425</p>	<p>St. John CJW 2.416 VE9BJ 6.090</p> <p>NOVA SCOTIA</p> <p>Halifax VBQ 2.350 VE9HX 6.110</p> <p>Lunenburg VBY 1.540 VBY 1.650</p> <p>Pictou CKB 2.284 Pictou Island CKU 2.284</p> <p>ONTARIO</p> <p>Bowmanville VE9GW 6.090 VE9GW 11.810 VE9GW 24.380</p> <p>Kenora CFD 1.620 CFD 5.660</p> <p>Leamington CFT 2.284</p> <p>Pelee Island CFX 2.284</p> <p>Red Lake CFJ 1.620 CFJ 5.660</p> <p>PRINCE EDWARD ISLAND</p> <p>Borden CJM 1.580</p> <p>Charlottetown VE9EH 6.080</p> <p>QUEBEC</p> <p>Bellevue CZB 1.620</p> <p>Crane Island CKO 2.284</p> <p>Drummondville CFA2 4.465</p>
--	--	---	---	--	---

SHORT WAVE STATIONS BY LOCATIONS

CFA4 10.520	CHILE (CAA-CEZ)	San Jose	FEDERATED MALAY STATES (ZG-)	DJP 11.850	IAC 12.795
CGA 18.180		TIEP 6.710	Kuala Lumpur	DJQ 15.280	IAC 17.770
CGA2 13.745		TIEP 13.415	ZGE 6.125	DJR 15.340	Flumicino
CGA3 13.285	Santiago	TIGPH 5.820		S. S. Albert	IAF 5.415
CGA4 9.332	CEC 5.820	TIPG 6.650		Ballin	IAF 29.820
CGA6 6.690	CEC 7.740	TIRCC 6.550		DDNY 4.413	Golfo Aranci
CGA7 6.880	CEC 8.710			DDAS 4.413	IAG 30.604
CGA9 4.348	CEC 10.670			S. S. Columbus	Rome
CGD 3.340	CEC 15.860			DOBX 4.413	IRA 6.070
CGM 3.340	CEC 19.680			S. S. Europa	IRE 11.810
CJA 12.100				DOAI 4.413	IRF 8.070
CJA3 17.710	CHINA (XGA-XUZ)	CUBA (CLA-CMZ; COA-COZ)	FIJI (VPA-VSZ)		IRM 9.823
CJA6 6.760		Havana	Suva		IRO 9.780
CZA 2.980	Nanking	CMB 5.780	VPD 13.045		IRW 19.520
CZA 4.785	XGOX 6.000	CMB1 5.900		GUATEMALA (TGA-TGZ)	I2RO 5.550
CZA 6.285	XGOX 9.500	COC 6.010		Guatemala City	I2RO 5.725
CZA 8.515	XGOX 11.900	COCD 6.130		TGF 14.545	I2RO 6.085
CZA 12.660	XGOX 17.800	COH 9.428		TGW 5.940	I2RO 6.980
CZA 17.310	XGOX 17.800	Sancti Spiritus		TGX 5.937	I2RO 9.630
VE9DN 6.005	Shanghai	CMHB 10.200			S. S. Rex
VE9DN 9.555	XGB 11.140	Santiago			ICEJ 13.050
VE9DN 11.780	XGBD 9.580	CO9CG 6.150		HAWAII (K)	
VE9DN 15.130	XGK 18.690			Honolulu	JAPAN (J)
	XGL 7.960			KGPQ 1.712	Kemikawa-Cho
	XGN 16.380	DARIEN (J)		Kahuku	JYK 13.600
	XGO 7.575	Darien		KDK 7.520	JYR 7.880
	XGW 10.420	JDX 15.510		KEQ 6.733	JYS 9.840
		JDY 9.920		KIO 11.680	JYT 15.760
		JDZ 5.710		KKH 7.520	Nazaki
				KKP 16.030	JVA 18.910
				KQH 14.920	JVB 18.190
				KRO 5.845	JVC 16.050
				..... 5.845	JVD 15.860
				..... 7.520	JVE 15.660
				..... 11.680	JVF 15.620
				..... 16.030	JVG 14.910
					JVH 14.640
					JVI 13.560
					JVJ 12.270
					JVK 12.020
					JVL 11.660
					JVM 10.740
					JVN 10.660
					JVO 10.375
					JVP 7.510
					JVQ 7.470
					JVR 7.390
					JVS 6.990
					JVT 6.750
					JVU 5.790
					JVV 5.730
					JZD 16.910
					JZE 13.020
					JZF 8.500
					JZG 6.330
					KENYA (VQ7-)
					Nairobi
					VQ7LO 0.660
					MACAU
					Macau
					CQN 6.073
					MADAGASCAR (F)
					Tananarive
					5.996
					MANCHUKUO (J)
					Harbin
					JZA 15.680
					JZB 10.960
					JZC 5.830

SHORT WAVE STATIONS BY LOCATIONS

MEXICO (XAA-XFZ)	Cheribon YDA6 2.870 YDJ4 1.840	NICARAGUA (YNA-YNZ)	Parede CTIGO 6.132	RRZ 4.400 RV59 5.996 Novosibirsk RTA 6.440 Stalinsk RSB 5.375 Sverdlovsk ROI 5.490 RSN 5.440 Tashkent RAU 15.104 RIM 7.626 RPT 5.995 Tiflis RIR 5.040	GMBJ 12.955 S. S. Homeric GDJL 4.420 GDJL 13.320
Mexico City XDA 14.525 XEBT 6.000 XECR 7.380 XECW 5.980	Djember YDQ2 3.390 Djocjaccarta YDB3 1.660 YDE5 2.750 YDL4 3.410 YDL5 3.210 YDL6 2.750	Managua YNA 14.480 YNFL 6.714 YNI6G 6.450	SIAM (HSA-HSZ)	UNITED STATES (K; N; W)	
MOROCO (CNA-CNZ)	Garoet YDH5 3.250 Kediri YDN2 1.940 Madioen YDN3 2.790 Magelang YDK4 3.270	NORWAY (LAA-LNZ)	Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.740	ALABAMA	
Rabat CNR 8.035 CNR 12.820	Jeloy LCL 6.130 LCO 13.980 LKJ1 9.540	PARANAMA (HPA-HPZ)	SOUTHERN RHODESIA (ZE-)	Birmingham WPFM 2.382 Maxwell Field PD1 6.445	
NETHERLANDS (PAA-PIZ)	Panama City HPC 10.290 HPF 14.545 HP5B 6.030 HP5J 9.590	PERU (OAA-OCZ)	Salisbury ZEA 6.590 Bulawayo ZEB 6.590	Mobile NMG 2.670 WPGW 2.382	
Hilversum PCJ 15.220 PHI 11.725 PHI 17.775	PARAGUAY (ZPA-ZPZ)	Asuncion ZP10 6.666 ZP11 3.800	SPAIN (EAA-EHZ) Madrid EAQ 9.862	ARIZONA	
Kootwijk PCK 18.400 PCM 18.600 PCV 17.830 PDK 10.410 PDV 12.050	Soekaboemi YDA4 1.550 YDI2 2.110	Geneva HBV 18.950 HBH 18.450 HBJ 14.535 HBL 9.595 HBO 12.030 HBP 7.797	SWITZERLAND (HBA-HBZ)	Phoenix KNGG 1.698 KNZJ 2.430	
NETHERLAND EAST INDIES (PKA-POZ; YBA-YHZ)	Solo YDB5 1.595 YDE2 4.810 YDL2 4.810 YDL3 3.450	TAIWAN (J)	STRAITS SETTLEMENTS (ZH-)	ARKANSAS	
Borneo Bandjermasin YDU5 1.850 YDV2 3.330	Sourabaya YDB 4.480 YDB7 1.530 YDE4 2.415 YDQ2 3.430 YDQ3 3.290 YDQ4 3.170 YDQ5 2.930 YDQ6 2.770 YDQ7 2.070 YDQ8 1.980 YDQ9 1.880	Penang ZJH 6.080 Singapore ZHI 6.060	TAIPEI JIA 15.750 JIB 10.530 JIC 5.890	Little Rock KGHZ 2.406	
Celebes Macassar PNI 8.775 Menado YBZ 7.680	Tandjongpriok YDA 3.040 YDA 6.040 YDA8 1.510	SWITZERLAND (HBA-HBZ)	Geneva HBV 18.950 HBH 18.450 HBJ 14.535 HBL 9.595 HBO 12.030 HBP 7.797	California	
Java Balikpapan YCP 8.575	Tegal YDJ3 2.870	TAIWAN (J)	TAIPEI JIA 15.750 JIB 10.530 JIC 5.890	Bakersfield KGPS 2.414 Berkeley KSW 1.658 KSW 2.422	
Bandoeng PLE 18.830 PLF 17.850 PLG 15.950 PLK 14.480 PLM 12.290 PLP 11.000 PLQ 10.670 PLV 9.415 PMA 19.345 PMB 20.606 PMC 18.135 PMN 10.260 PMY 5.140 YDA5 6.120 YDD2 1.630 YDH3 3.490 YDH4 3.310 YDH6 3.130 YDH8 1.960	Tjepoe YDB4 1.615 YDM2 3.320	SWITZERLAND (HBA-HBZ)	Geneva HBV 18.950 HBH 18.450 HBJ 14.535 HBL 9.595 HBO 12.030 HBP 7.797	Bolinas KEB 7.370 KEE 7.715 KEI 9.490 KEJ 9.010 KEL 8.660 KES 10.410 KEZ 10.400 KKL 15.475 KKQ 11.950 KKW 13.780 KKZ 13.690 KQJ 18.020	
Batavia YDA2 2.385 YDD3 1.585 YDG2 3.470 YDG3 3.150 YDG4 2.850 YDG5 2.090 YDG6 1.900 YDG7 3.300	Sumatra Medan YBG 10.430 YDU2 3.370 YDU3 5.260 YDU4 2.830	PHILIPPINE ISLANDS (K)	Geneva HBV 18.950 HBH 18.450 HBJ 14.535 HBL 9.595 HBO 12.030 HBP 7.797	Compton KNFM 2.490 Death Valley KNLO 3.410 Devil's Post Pile KNKY 3.410 Dixon KWN 21.060 KWO 15.415 KWU 15.355 KWV 10.840 KWX 7.610 KWY 7.565 El Centro KNGJ 2.490 Fresno KGZA 2.414 Lodi 2.414 Los Angeles KGPL 1.712 KIUY 2.726 KIKL 6.615 Palo Alto KGHK 1.674 Pasadena KGJX 1.712 Point Bonita NMC 2.670 Pomona KNFJ 1.712	
Buitenzorg YDA3 1.640 YDH9 1.920	NEW ZEALAND (ZKA-ZMZ)	PHILIPPINE ISLANDS (K)	Geneva HBV 18.950 HBH 18.450 HBJ 14.535 HBL 9.595 HBO 12.030 HBP 7.797		
	Wellington ZLR 7.390 ZLS 8.900 ZLT 10.990	PORTUGAL (CSA-CUZ)	Geneva HBV 18.950 HBH 18.450 HBJ 14.535 HBL 9.595 HBO 12.030 HBP 7.797		
		Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223	Geneva HBV 18.950 HBH 18.450 HBJ 14.535 HBL 9.595 HBO 12.030 HBP 7.797		

SHORT WAVE STATIONS BY LOCATIONS

Sacramento KNGF 2.422 San Bernardino KGZY 1.712 San Diego KGZD 2.490 San Francisco KGPD 2.466 San Gabriel Dam KIIW 2.726 San Jose KGPB 2.466 San Pedro NOJ 2.670 San Rafael KLH 2.506 Santa Ana KGGH 2.430 Santa Barbara KGZO 2.414 Santa Cruz KGZT 1.673 Tujunga Dam KIIK 2.726 Tulare WPDA 2.414 Vallejo KGGG 2.422 Whittier KGGH 1.712 Wilmington KOU 2.566 Yosemite KNKS 3.410	W4XB 6.040 Opa Locka WMEV 2.930 WMEV 6.615 Orlando WPHM 2.442 Palm Beach WPFX 2.442 St. Petersburg NOF 2.670 WMEU 2.930 WMEU 6.615 Tampa WPHN 2.466	IOWA Cedar Rapids KGOZ 2.466 Davenport KGPB 2.466 Des Moines KGGH 1.682 KGZG 2.466 Sioux City KGPB 2.466 Storm Lake KNFO 1.682 Waterloo KNFN 1.682	Brookline WPEJ 1.712 Fairhaven WPFN 1.712 Fitchburg WPHA 2.466 Frammingham WMP 1.666 Gloucester NOG 2.670 Marshfield WOU 2.506 Medford WPHG 1.712 Millis W1XK 9.570 Newton WPPA 1.712 Northampton WPEW 1.666 Somerville WPEH 1.712 W. Bridgewater WPEL 1.666 Winthrop NMF 2.670 Woods Hole NOP 2.670 Worcester WPGX 2.466	Sault Ste. Marie NOR 2.670 NOR 2.698 Selfridge Field VKI 6.425 Stannard Rock WWH 3.410	MINNESOTA Duluth KNFE 2.382 Minneapolis KGPB 2.430 St. Paul WPDS 2.430	WNA 9.170 WNB 10.675 WOA 6.755 WOB 5.850 WOF 9.750 WOK 10.550 WON 9.870 WOY 4.178 WOY 4.753 WOY 8.560 WOY 12.840 WOY 17.120 New Brunswick WKJ 9.460 Ocean Gate WOG 4.253 WOO 4.178 WOO 4.753 WOO 8.560 WOO 12.840 WOO 17.120 Passaic WPDJ 2.414 Tuckerton WCG 10.370 Wayne W2XE 6.120 W2XE 11.830 W2XE 15.270
COLORADO Denver KGPX 2.442	GEORGIA Atlanta WPDY 2.414 Columbus WPF1 2.414 La Grange WPGM 2.414 Macon WQFB 2.414	KANSAS Chanute KGZF 2.450 Coffeyville KGZP 2.450 Dodge City KNGH 2.474 Garden City KNFH 2.474 Hutchinson KGGH 2.450 Leavenworth KNFF 2.422 Manhattan W9XAK 2.050 Salina 2.422 Topeka KGZC 2.422 Wichita KGPZ 2.450	MICHIGAN Bay City WPGA 2.466 Cheboygan Range WWG 3.410 Detroit WCK 2.414 WKDT 1.630 WPDX 2.414 WWN 3.410 WWR 3.410 E. Lansing WRDS 1.642 Flint WPDF 2.442 Fourteen Foot Shoals WWE 3.410 Grand Rapids WPEB 2.442 Grosse Pointe WRDR 2.414 Highland Park WMO 2.414 Huron Island WWAO 3.410 Jackson WPHP 2.466 Lansing WPDL 2.442 Manitou Island WVAJ 3.410 Marquette WMM 3.410 Muskegon WPFC 2.442 Passage Island WWAL 3.410 Poe Reef WRJ 3.410 Port Huron WPGB 2.466 Rock of Ages WWAM 3.410 Saginaw WPES 2.442	MISSOURI Jefferson City KIUK 1.674 Kansas City KGPB 2.422 Napoleon WYBF 2.604 St. Louis KGPC 1.706	MONTANA Glacier Nat'l Park KNIA 3.410	NEW MEXICO Albuquerque KGZX 2.414 Clovis KNFA 2.414 Santa Fe KGPB 2.414
CONNECTICUT Bridgeport WPFW 2.466 New Haven WQFA 2.466 New London NOU 2.670	IDAHO Idaho Falls KNFB 2.458	KENTUCKY Lexington WPET 1.706 Louisville WPDE 2.442	NEBRASKA Lincoln KGZU 2.490 Norfolk KNGN 2.490 Omaha KGPB 2.466	NEBRASKA Lincoln KGZU 2.490 Norfolk KNGN 2.490 Omaha KGPB 2.466	NEBRASKA Lincoln KGZU 2.490 Norfolk KNGN 2.490 Omaha KGPB 2.466	NEW YORK Albany WPGH 2.414 Auburn WPDN 2.382 Binghamton WPLF 2.442 Bronx WPEF 2.450 Brooklyn WPEE 2.450 Buffalo NOB 2.670 NOB 2.698 WMJ 2.422 Huntington WPGO 2.490 Mineola WPGS 2.490 Mitchell Field WOS 6.385 New York WOZ 3.423 WPEG 2.450 Niagara Falls WNFP 2.422 Oneonta 2.414 Rochester WPCR 2.422 Rockaway Point NMY 2.670 Rocky Point WAD 8.930 WAJ 13.480 WBU 21.260 WDA 9.840 WDB 6.718 WDG 4.535 WDN 4.550
FLORIDA Clearwater 2.466 Dry Tortugas WST 3.410 Ft. Lauderdale NMV 2.670 Gainsville 2.466 Hialeah WND 4.098 WAW 12.930 WNC 15.055 Jacksonville WPFJ 2.442 Key West WWZ 3.410 Lakeland WFFT 2.442 Miami NOM 2.670 WPFZ 2.442	ILLINOIS Chicago WPDB 1.712 WPDC 1.712 WPDD 1.712 W9XAA 6.080 W9XAA 11.830 W9XAA 17.780 W9XF 6.400 W9XF 6.425 Highland Park WPDF 2.430 Rockford WPGD 2.458 Wilmette NMP 2.670 NMP 2.698 Wheeling WMEQ 6.615	LOUISIANA Baton Rouge WPEQ 1.570 New Orleans WPEK 2.430 Shreveport KGPY 1.574 KGZL 1.712 KNGP 2.430	NEVADA Reno KGGH 2.474	NEVADA Reno KGGH 2.474	NEVADA Reno KGGH 2.474	NEW HAMPSHIRE Nashua WPHB 2.422
INDIANA Columbia City 1.634 Culver WPHS 1.634 Fort Wayne WPDZ 2.490 Indianapolis WMDZ 2.442 1.634 Jasper WPHU 1.634 Kokomo WPDY 2.490 Marion County WPHE 1.634 Muncie WPGP 2.442 Richmond WPDH 2.442 Seymour WQFE 1.634 South Bend WPGN 2.490	MAINE Portland WPFU 2.422	MARYLAND Baltimore WPFH 2.414	NEW JERSEY Bound Brook W3XAL 6.100 W3XAL 17.780 W3XL 6.425 W3XL 17.310 Cape May NOV 2.670 Hackensack WPFK 2.430 Lawrenceville WKA 21.060 WKF 4.253 WKF 19.220 WKK 21.410 WKN 19.820 WLA 18.350 WLK 16.270 WMA 13.390 WMF 14.470 WMM 14.590	NEW JERSEY Bound Brook W3XAL 6.100 W3XAL 17.780 W3XL 6.425 W3XL 17.310 Cape May NOV 2.670 Hackensack WPFK 2.430 Lawrenceville WKA 21.060 WKF 4.253 WKF 19.220 WKK 21.410 WKN 19.820 WLA 18.350 WLK 16.270 WMA 13.390 WMF 14.470 WMM 14.590	NEW JERSEY Bound Brook W3XAL 6.100 W3XAL 17.780 W3XL 6.425 W3XL 17.310 Cape May NOV 2.670 Hackensack WPFK 2.430 Lawrenceville WKA 21.060 WKF 4.253 WKF 19.220 WKK 21.410 WKN 19.820 WLA 18.350 WLK 16.270 WMA 13.390 WMF 14.470 WMM 14.590	NEW HAMPSHIRE Nashua WPHB 2.422
MASSACHUSETTS Arlington WPED 1.712 Boston WEY 1.630 WPGV 1.712 W1XAL 6.040 W1XAL 11.790 W1XAL 15.250 W1XAL 21.460 W1XH 2.110	MASSACHUSETTS Arlington WPED 1.712 Boston WEY 1.630 WPGV 1.712 W1XAL 6.040 W1XAL 11.790 W1XAL 15.250 W1XAL 21.460 W1XH 2.110	MASSACHUSETTS Arlington WPED 1.712 Boston WEY 1.630 WPGV 1.712 W1XAL 6.040 W1XAL 11.790 W1XAL 15.250 W1XAL 21.460 W1XH 2.110	NEW HAMPSHIRE Nashua WPHB 2.422	NEW HAMPSHIRE Nashua WPHB 2.422	NEW HAMPSHIRE Nashua WPHB 2.422	NEW HAMPSHIRE Nashua WPHB 2.422

SHORT WAVE STATIONS BY LOCATIONS

WDS 18.900	Utica	OREGON				Memphis	Bellingham	WEST VIRGINIA	
WEA 10.610	WPGJ 2.414	Hood River	WPEC 2.466	Nashville	2.466	KNFK 2.490	S. S. Cadrew	Charleston	
WEB 6.935	Yonkers	KIJY 2.728	.....	1.666		WIFI 2.738	Carbon	WPHI 2.490	
WEC 8.930	WPFY 2.442	Klamath Falls	TEXAS				KG YF 3.387	Centralia	Clarkburg
WED 10.630		KGZH 2.442	Portland	Austin	2.442	KGHW 2.414	Chinook Pass	WPFP 2.490	Fairmont
WEF 10.620		KGPP 2.442	Salem	Beaumont	2.442	KGHQ 2.490	Edmonds	WPHJ 2.490	Parkersburg
WEG 7.415		KGZR 2.442	PENN-SYLVANIA				KOW 2.522	WPHQ 2.490	
WEJ 6.740	Asheville		Harrisburg	Brownsville	2.382	KGHT 2.382	Ellenburg	WISCONSIN	
WEL 13.435	WPF5 2.458		WPSJ 1.674	Brownwood	2.458	KNFX 2.490	Ephrata	Kenosha	
WEM 7.400	WPF6 2.474		Monessen	.....	2.482	.....	2.490	WPEP 2.450	
WEO 6.958	Charlotte		New Castle	.....	2.482	.....	2.490	Milwaukee	
WES 9.448	WPDV 2.458		WPGT 2.482	.....	2.482	.....	2.490	WPKD 2.450	
WET 9.470			Oil City	.....	2.482	.....	2.490	URUGUAY	
WEX 13.450			WPHZ 2.482	.....	2.482	.....	2.490	(CVA-CXA)	
WEZ 6.928			Philadelphia	.....	2.474	.....	2.490	Montevideo	
WFX 18.980	Akron		WPPD 2.474	.....	2.474	.....	2.490	CWD 5.830	
WHR 13.420	WPD0 2.458		WPHJ 3.410	.....	2.474	.....	2.490	CWE 6.630	
WIR 4.276	Cincinnati		W3XAU 6.060	.....	2.474	.....	2.490	CWF 8.455	
WIR 4.540	WKDU 1.706		W3XAU 9.590	.....	2.474	.....	2.490	CWG 11.370	
WY 13.870	W8XAL 6.060		Pittsburgh	.....	2.474	.....	2.490	CWH 13.140	
WJN 7.370	Cleveland		WPDU 1.712	.....	2.474	.....	2.490	VATICAN STATE	
WKC 10.465	NMD 2.670		W8XK 6.140	.....	2.474	.....	2.490	(HVA-HVZ)	
WKC 13.465	NMD 2.698		W8XK 9.570	.....	2.474	.....	2.490	Vatican City	
WKL 8.940	WRBH 2.458		W8XK 11.870	.....	2.474	.....	2.490	HVJ 5.970	
WKM 18.860	Columbus		W8XK 15.210	.....	2.474	.....	2.490	HVJ 15.120	
WKO 15.970	WPD1 2.430		W8XK 17.780	.....	2.474	.....	2.490	VENEZUELA	
WKP 6.950	WPGQ 1.596		W8XK 21.540	.....	2.474	.....	2.490	(YVA-YWZ)	
WKU 14.830	Dayton		Reading	.....	2.442	.....	2.490	Caracas	
WKW 15.445	WPDm 2.430		WPF6 2.442	.....	2.442	.....	2.490	YV2RC 6.112	
WLL 17.900	Findlay		WPFQ 2.474	.....	2.474	.....	2.490	YV3RC 6.150	
WPE 13.840	WPGG 1.596		RHODE ISLAND	.....	2.474	.....	2.490	YV4RC 6.375	
WQA 21.220	Lancaster		Cranston	.....	2.466	.....	2.490	Maracaibo	
WQB 17.940	WQFO 2.430		WPGK 2.466	.....	2.466	.....	2.490	Maracay	
WQC 17.860	Lorain		E. Providence	.....	1.712	.....	2.490	YVQ 6.672	
WQD 18.960	WME5 2.550		WPEI 1.712	.....	1.712	.....	2.490	YVQ 13.337	
WQE 18.920	Massillon		Pawtucket	.....	2.466	.....	2.490	YVR 9.168	
WQF 17.920	WPHC 1.596		WPFV 2.466	.....	2.466	.....	2.490	YVR 18.296	
WQG 15.040	Portsmouth		Woonsocket	.....	2.466	.....	2.490	Valencia	
WQH 18.880	WPGI 2.430		WPEM 2.466	.....	2.466	.....	2.490	YV6RV 6.520	
WQI 17.880	Steubenville		SOUTH DAKOTA				Richmond	2.414	VIRGIN ISLANDS
WQJ 21.240	WPHD 2.458		Rapid City	2.450		WPHF 2.450	Roanoke	(W)	
WQL 14.815	Suffield		KNGM 2.450			.....	2.450	St. Thomas	
WQN 5.263	WMEP 2.930		TENNESSEE				WPHF 2.450	WTDV 4.295	
WQN 5.505	WMEP 6.615		Elizabethton	2.474		.....	2.450	St. Croix	
WQN 5.825	Toledo		.....	2.474		.....	2.450	WTDW 4.295	
WQD 6.725	WRDQ 2.474		Johnson City	2.474		.....	2.450	St. John	
WQP 13.900	Wilmington		WPGZ 2.474			.....	2.450	WTDX 4.295	
WQQ 20.260	WPHK 1.596		Knoxville	2.474		.....	2.450		
WQR 16.015	Wright Field		WPF0 2.474			.....	2.450		
WQS 13.915	PEZ 6.445					.....	2.450		
WQU 13.855	Youngstown					.....	2.450		
WQV 14.800	WPDG 2.458					.....	2.450		
WQW 10.600	Zanesville					.....	2.450		
WQX 20.180	WPHO 2.430					.....	2.450		
WQY 20.100						.....	2.450		
WTT 18.940						.....	2.450		
Schenectady						.....	2.450		
W2XAD 15.330	Duncan					.....	2.450		
W2XAF 9.530	KNGK 2.450					.....	2.450		
S. Schenectady	Lawton					.....	2.450		
WPGC 1.658	KGHP 2.466					.....	2.450		
St. George	Muskogee					.....	2.450		
WQW 2.590	KNGT 2.450					.....	2.450		
Syracuse	Oklahoma City					.....	2.450		
WPEA 2.382	KGPH 2.450					.....	2.450		
	Tulsa					.....	2.450		
	KGPO 2.450					.....	2.450		

SHORT WAVE STATIONS BY CALLS

CEC 5.820	CFC 1.596	CFQ 3.040	CFW 2.290	CGA9 4.348	CGP 5.405	CJA 12.100
CEC 7.740	CFC 1.668	CFQ 7.550	CFX 2.284	CGD 3.340	CGQ 1.596	CJA3 17.710
CEC 8.710	CFD 1.620	CFT 2.284	CGA 18.180	CGE 3.040	CGG 1.668	CJA6 6.760
CEC 10.670	CFD 5.660	CFU 4.755	CGA2 13.745	CGE 7.550	CGT 4.865	CJD 1.510
CEC 15.860	CFJ 1.620	CFU 5.660	CGA3 13.285	CGM 3.152	CGV 1.596	CJD 1.540
CEC 19.680	CFJ 5.660	CFU 6.720	CGA4 9.332	CGM 3.340	CGV 1.668	CJE 2.290
CFA2 4.465	CFL 1.620	CFU 13.200	CGA6 6.690	CGO 4.506	CGY 3.152	CJK 1.510
CFA4 10.520	CFM 1.620	CFV 2.290	CGA7 6.880	CGP 3.268	CGZ 2.452	CJM 1.580

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

530 kilocycles (565.7)

CJKL z 1000 Kirkland Lake, Ont.

540 kilocycles (555.2)

CJRM ak 1000 F Moose Jaw, Sask.

550 kilocycles (545.1)

CFNB ak 500 F (1) Fredericton, N. B.
 KFUF ae 500 2 (1) St. Louis, Mo.
 KFVR ae 1000 N (5) Bismarck, N. D.
 KOAC ak 1000 Corvallis, Ore.
 KSD ak 1000 2R (5) St. Louis, Mo.
 K TSA ak 1000 C (5) San Antonio, Texas
 WDEV ae 500 D Waterbury, Vt.
 WGR ae 1000 C Buffalo, N. Y.
 WKRC ak 1000 C (2.5) Cincinnati, Ohio
 W SVA z 500 D Harrisonburg, Va.

560 kilocycles (535.4)

KFDM ak 500 (1) Beaumont, Texas
 KLZ ae 1000 C (5) Denver, Colo.
 KSFO ak 1000 San Francisco, Calif.
 KWTO ak 5000 D Springfield, Mo.
 TGW ak 10000 56 Guatemala City
 WFIL ae 1000 B Philadelphia, Pa.
 WIND ak 1000 (2.5) Gary, Ind.
 WNOX ak 1000 C (2) Knoxville, Tenn.
 WOAM ae 1000 C Miami, Fla.
 XEAO ak 250 (.15) Mexicali, B. C.

570 kilocycles (526.0)

KMTR ak 500 Hollywood, Calif.
 KVI ak 1000 Tacoma, Wash.
 WKBN ae 500 1C Youngstown, Ohio
 WMCA ak 500 New York, N. Y.
 WNAX ak 1000 C (5) Yankton, S. D.
 WOSU ak 750 1 (1) Columbus, Ohio
 WS YR ak 250 B Syracuse, N. Y.
 WWNC ae 1000 N Asheville, N. C.

580 kilocycles (516.9)

CFPR z 50 Prince Rupert, B. C.
 CHRC ak 100 F Quebec, Que.
 CKCL ae 100 F Toronto, Ont.
 CKUA ak 500 Edmonton, Alta.
 KMJ ak 1000 C Fresno, Calif.
 KSAC ak 500 2 (1) Manhattan, Kans.
 WCHS ak 500 (1) Charleston, W. Va.
 WDBO ae 1000 C Orlando, Fla.
 WBW ak 1000 C2 (5) Topeka, Kans.
 WTAG ae 500 R (1) Worcester, Mass.

590 kilocycles (508.2)

KHQ ak 1000 N (2.5) Spokane, Wash.
 WEI ak 1000 R Boston, Mass.
 WKZO ae 1000 D Kalamazoo, Mich.
 WOW ae 1000 R (5) Omaha, Neb.
 XEPN ak 5000 PiedrasNegras, Coah.

600 kilocycles (499.7)

CFCF ae 400 Montreal, Que.
 CJOR ak 500 Vancouver, B. C.
 CMW ak 1000 Havana, Cuba
 CRCW z 500 F (1) Windsor, Ont.
 FON z 250 609 St. Pierre, Miquelon
 KFSD ae 1000 N San Diego, Calif.
 WCAC ak 500 2 Storrs, Conn.
 WCAO ae 500 C (1) Baltimore, Md.

WICC ae 500 2 C (1) Bridgeport, Conn.
 WMT af 1000 B (2.5) Cedar Rapids, Iowa
 WREC ak 1000 C (2.5) Memphis, Tenn.

610 kilocycles (491.5)

KFRG ak 1000 C (5) San Francisco, Calif.
 WDAF ak 1000 R (5) Kansas City, Mo.
 WIP ae 500 (1) Philadelphia, Pa.
 WJAY ae 500 Cleveland, Ohio
 XFX ak 500 Mexico City, D. F.

620 kilocycles (483.6)

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

630 kilocycles (475.9)

CFCO ak 100 F Chatham, Ont.
 CFCY ae 1000 F Char't'w'n, P.E.I.
 CJGX ak 500 F Yorkton, Sask.
 CKOV ak 100 F Kelowna, B. C.
 KF RU ak 500 1 (1) Columbia, Mo.
 KGFX ak 200 D Pierre, S. D.
 WGBF ae 500 I Evansville, Ind.
 WMAL ak 250 B (.5) Washington, D. C.
 WOS ak 500 1D Jefferson City, Mo.
 WPRO ak 250 Providence, R. I.
 XEZ z 500 Merida, Yuc.

640 kilocycles (468.5)

CMBY z 125 Havana, Cuba
 KFI ak 50000 N Los Angeles, Calif.
 WAIU ae 500 Columbus, Ohio
 WOI ae 5000 D Ames, Iowa
 XEOX ak 250 Saltillo, Coah.

650 kilocycles (461.3)

WSM ae 50000 N Nashville, Tenn.

660 kilocycles (454.3)

CMCX z 150 Havana, Cuba
 WAAW ak 500 D Omaha, Neb.
 W EAF ak 50000 R New York, N. Y.

670 kilocycles (447.5)

WMAQ ck 50000 N Chicago, Ill.

680 kilocycles (440.9)

CMCQ z 250 Havana, Cuba
 KFEQ ae 2500 D St. Joseph, Mo.
 KPO ak 50000 N San Francisco, Calif.
 VAS akn 2000 685 Glace Bay, N. S.
 VOWR ck 500 681 St. John's, Nfld.
 WPTF ae 1000 DnN (5) Raleigh, N. C.

690 kilocycles (434.5)

CFRB ae 10000 C Toronto, Ont.
 CJCJ ak 100 F Calgary, Alta.
 NAA akn 1000 Arlington, Va.
 XET ck 500 Monterrey, N. L.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

700 kilocycles (428.3)

RDN	z	500	706	San Salvador, E. S.
WLW	ak	500000	N	Cincinnati, Ohio

710 kilocycles (422.3)

KMPC	ae	500	....	Beverly Hills, Calif.
KPCB	ae	250	....	Seattle, Wash.
WOR	ak	50000	....	Newark, N. J.
XEN	ak	1000	711	Mexico City, D. F.

720 kilocycles (416.4)

WGN	ck	50000	Chicago, Ill.
-----	----	-------	------	---------------

730 kilocycles (410.7)

CFPL	ak	100	F	London, Ont.
CJCA	ah	1000	F	Edmonton, Alta.
CKAC	ak	5000	C	Montreal, Que.
CMAF	ak	250	....	Havana, Cuba
XEBC	ak	5000	....	Agua Caliente, L. C.

740 kilocycles (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.
XELC	z	100	....	Mexico City, D. F.

750 kilocycles (399.8)

CMCW	dk	125	....	Havana, Cuba
KGU	aj	2500	N	Honolulu, T. H.
WJR	ak	50000	C	Detroit, Mich.

760 kilocycles (394.5)

CMHX	z	150	....	Cienfuegos, Cuba
KXA	ae	250	(.5)	Seattle, Wash.
WBAL	ae	10000	BSy	Baltimore, Md.
WEW	ae	1000	D	St. Louis, Mo.
WJZ	ck	50000	BSy	New York, N. Y.
XEOK	z	2500	765	Tijuana, L. C.

770 kilocycles (389.4)

CMBS	ak	120	....	Havana, Cuba
KFAB	ae	10000	CSy	Lincoln, Neb.
WBBM	ae	50000	CSy	Chicago, Ill.

780 kilocycles (384.4)

CHWK	ak	100	F	Chilliwack, B. C.
CKSO	z	1000	F	Sudbury, Ont.
CMJK	ak	150	....	Camaguey, Cuba
KEHE	ak	500	2 (1)	Los Angeles, Calif.
KELW	ae	500	2	Burbank, Calif.
KFDY	ae	1000	D	Brookings, S. D.
KFOD	ck	250	....	Anchorage, Alaska
KGHL	ak	1000	N (2.5)	Billings, Mont.
WEAN	ae	500	C	Providence, R. I.
WMC	aj	1000	N (2.5)	Memphis, Tenn.
WTRAR	ae	500	N (1)	Norfolk, Va.
XEYZ	z	10000	....	Mexico City, D. F.

790 kilocycles (379.5)

CMOA	z	75	....	Havana, Cuba
KGO	ak	7500	N	San Francisco, Calif.
WGY	ak	50000	R	Schenectady, N. Y.

800 kilocycles (374.8)

WBAP	ak	50000	Na	Fort Worth, Tex.
WFAA	ak	50000	Na	Dallas, Tex.
WTBO	ae	250	D	Cumberland, Md.

810 kilocycles (370.2)

CMCF	ak	250	815	Havana, Cuba
CMHW	z	100	....	Cienfuegos, Cuba
WCCO	ae	50000	C	Minneapolis, Minn.
WNYC	ak	1000	N	New York, N. Y.
XFC	z	350	....	Aguascalientes, Ags.

820 kilocycles (365.6)

WHAS	aj	50000	C	Louisville, Ky.
XETW	dk	500	....	Mexico City, D. F.

830 kilocycles (361.2)

CMC	ae	500	835	Havana, Cuba
KOA	ak	50000	N	Denver, Colo.
WEEU	ak	1000	D	Reading, Pa.
WHDH	ae	1000	Dn	Boston, Mass.
WRUF	ae	5000	Dn	Gainesville, Fla.

840 kilocycles (356.9)

CFQC	ak	1000	F	Saskatoon, Sask.
CMQ	z	500	....	Havana, Cuba
CRCT	ak	5000	F	Toronto, Ont.
VOGY	ak	400	....	St. John's, Nfld.
XEP	z	500	....	Mexico City, D. F.
XEXX	z	500	845	Mexico City, D. F.

850 kilocycles (352.7)

KIEV	aj	250	D	Glendale, Calif.
KWKH	ae	10000	C	Shreveport, La.
TIEP	z	500	....	San Jose, C. R.
WESG	ak	1000	C	Elmira, N. Y.
WWL	ae	10000	....	New Orleans, La.

860 kilocycles (348.6)

WABC	ae	50000	C	New York, N. Y.
WHB	ae	1000	D	Kansas City, Mo.
XEMO	ak	2500	865	Tijuana, B. C.

870 kilocycles (344.6)

WENR	ak	50000	Na	Chicago, Ill.
WLS	ae	50000	Na	Chicago, Ill.

880 kilocycles (340.7)

CFJC	ak	100	F	Kamloops, B. C.
CMBN	z	150	....	Havana, Cuba
CRCO	ak	1000	F	Ottawa, Ont.
KFKA	ak	500	2 (1)	Greeley, Colo.
KLX	ae	1000	....	Oakland, Calif.
KPOF	ak	500	2	Denver, Colo.
WCOC	ae	500	(1)	Meridian, Miss.
WGBI	ae	500	1	Scranton, Pa.
WPHR	z	500	D	Petersburg, Va.
WQAN	ae	250	1	Scranton, Pa.
WSUI	ae	500	(1)	Iowa City, Iowa

890 kilocycles (336.9)

CJIC	z	100	D	S. Ste. Marie, Ont.
KARK	ak	250	(.5)	Little Rock, Ark.
KFNE	ak	500	2 (1)	Shenandoah, Iowa
KFPY	ak	1000	C	Spokane, Wash.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KUSD ae 500 2 Vermillion, S. D.
WBAA ak 1000 D W. Lafayette, Ind.
WILL ak 1000 2 Urbana, Ill.
WGST aeh 250 C (1) Atlanta, Ga.
WJAR ae 500 R Providence, R. I.
WMMN ae 500 (1) Fairmont, W. Va.
XEW ak 50000 Mexico City, D. F.

900 kilocycles (333.1)

KGBU ak 500 Ketchikan, Alaska
KHJ ae 1000 C (5) Los Angeles, Calif.
KSEI ck 250 (.5) Pocatello, Idaho
WBEN ae 1000 R Buffalo, N. Y.
WFMD z 500 DP Frederick, Md.
WJAX aeh 1000 N (5) Jacksonville, Fla.
WKY ae 1000 N Oklahoma City, Ok.
WLBL ak 2500 D Stevens Point, Wis.
WRFI z 500 DP New Haven, Conn.
WTAD ak 500 D Quincy, Ill.

910 kilocycles (329.6)

CJAT ak 250 F Trail, B. C.
CRCM ak 5000 F Montreal, Que.
XENT ck 60000 Nuevo Laredo, Tams

920 kilocycles (325.9)

CMX ae 500 Havana, Cuba
HHK ae 1000 Port-au-Prince, Haiti
KFEL ak 500 2 Denver, Colo.
KOMO ak 1000 N (5) Seattle, Wash.
KPRC ae 1000 N (5) Houston, Texas
KVOD ak 500 2 Denver, Colo.
WAAF ae 500 D Chicago, Ill.
WBOS ae 500 D Babson Park, Mass.
WPEN ak 250 (.5) 1 Philadelphia, Pa.
WRAX ak 250 (.5) 1 Philadelphia, Pa.
WSPA ae 1000 D Spartanburg, S. C.
WWJ ak 1000 R Detroit, Mich.
XEAA z 200 Mexicali, B. C.
XEFE z 250 Nuevo Laredo, Tams.

930 kilocycles (322.4)

CFAC ak 100 F Calgary, Alta.
CFCH ak 100 F North Bay, Ont.
CFLC ae 100 Prescott, Ont.
CHNS ae 1000 F Halifax, N. S.
CKPC ak 100 F Brantford, Ont.
CKPR ak 100 F Fort William, Ont.
KGBZ ak 1000 2 (2.5) York, Neb.
KMA ak 1000 2 (2.5) Shenandoah, Iowa
KROW ak 500 (1) Oakland, Calif.
TRH z 50 San Jose, C. R.
WBRC ak 1000 C Birmingham, Ala.
WDBJ ae 1000 C Roanoke, Va.

940 kilocycles (319.0)

CMBC de 200 Havana, Cuba
KOIN ak 1000 C (5) Portland, Ore.
VOAS ak 100 St. John's, Nfld.
WAAT ae 500 D Jersey City, N. J.
WAVE ae 1000 N Louisville, Ky.
WCSH ae 1000 R (2.5) Portland, Maine
WDAY ae 1000 N (5) Fargo, N. D.
WHA ak 2500 D Madison, Wis.
XEFO ak 5000 Mexico City, D. F.

950 kilocycles (315.6)

CRCS ak 100 F Chicoutimi, Que.
KFWB ak 1000 (2.5) Hollywood, Calif.
KHSL z 250 D (5) Chico, Calif.

KMBC ae 1000 C Kansas City, Mo.
WRC ae 500 R (1) Washington, D. C.

960 kilocycles (312.3)

CKY ak 15000 F Winnipeg, Man.
CMCD ah 200 Havana, Cuba
XEAM z 50 Nuevo Laredo, Tams.
XEAW ak 10000 Reynosa, Tams.

970 kilocycles (309.1)

KJR z 5000 N Seattle, Wash.
WCFL ae 1500 B Chicago, Ill.
WIBG ak 100 D Glenside, Pa.

980 kilocycles (303.9)

KDKA bk 50000 B Pittsburgh, Pa.
XEAF z 250 Nogales, Sonora

990 kilocycles (302.8)

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

1000 kilocycles (299.8)

CMBZ ak 150 Havana, Cuba
KFVD ak 250 Dn Los Angeles, Calif.
TIGH z 500 San Jose, C. R.
WHO ak 50000 R Des Moines, Iowa

1010 kilocycles (296.9)

CHML aei 50 F Hamilton, Ont.
CHWC ak 500 3F Regina, Sask.
CKCD ak 100 Vancouver, B. C.
CKCK ak 500 3F Regina, Sask.
CKCO z 100 Ottawa, Ont.
CKIK ak 50 Wolfville, N. S.
CKWX ak 100 F Vancouver, B. C.
CMJG z 50 Camaguey, Cuba
KGGF ak 1000 2 Coffeyville, Kans.
KQW ae 1000 San Jose, Calif.
TIGA z 30 1014 Cartago, C. R.
WHN ae 1000 (5) New York, N. Y.
WIS ae 500 N (1) Columbia, S. C.
WNAD ae 1000 2 (1) Norman, Okla.
XEU ak 250 Veracruz, Ver.

1020 kilocycles (293.9)

KYW ak 10000 R Philadelphia, Pa.
WDZ ak 250 D Tuscola, Ill.
XEJ ak 1250 Juarez, Chih.

1030 kilocycles (291.1)

CFCN ak 10000 F Calgary, Alta.
CKLV ae 5000 Windsor, Ont.
CMCY ak 1000 Havana, Cuba
XEB ak 10000 Mexico City, D. F.

1040 kilocycles (288.3)

CMGH ak 15 Matanzas, Cuba
KRLD ae 10000 C Dallas, Texas
KWJJ ak 500 Portland, Ore.
WKAR ak 1000 D East Lansing, Mich.
WTIC ak 50000 R Hartford, Conn.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1050 kilocycles (285.5)

CMKD	z	250	....	Santiago, Cuba
CRCK	z	1000	F	Quebec, Que.
KFBI	ak	5000	Dn	Abilene, Kans.
KNX	ak	50000	....	Hollywood, Calif.
TIFA	z	75	....	San Jose, C. R.

1060 kilocycles (282.8)

CMK	ae	1500	....	Havana, Cuba
KTHS	ae	10000	N	Hot Springs, Ark.
VOAC	z	40	1065	St. John's, Nfld.
WBAL	ae	10000	B	Baltimore, Md.
WJAG	ak	1000	D	Norfolk, Neb.
XEA	ak	125	....	Guadalajara, Jal.

1070 kilocycles (280.2)

CMHA	z	50	....	Sagua la Grande, C.
KJBS	ak	500	Dn	San Francisco, Calif.
WCAZ	dk	100	D	Carthage, Ill.
WTAM	ck	50000	R	Cleveland, Ohio

1080 kilocycles (277.6)

WBT	ae	50000	C	Charlotte, N. C.
WCBD	ak	5000	1Dny	Waukegan, Ill.
WMBI	ae	5000	1Dn	Chicago, Ill.
XEMA	z	50	....	Tampico, Tams.

1090 kilocycles (275.1)

KMOX	ak	50000	C	St. Louis, Mo.
------	----	-------	---	----------------

1100 kilocycles (272.6)

CRCV	ak	1000	F	Vancouver, B. C.
KGDM	ak	1000	D	Stockton, Calif.
TIRC	ak	75	....	San Jose, C. R.
WLWL	ae	5000	i	New York, N. Y.
WPG	ak	5000	1C	Atlantic City, N. J.
XEFG	ak	250	1105	Mexico City, D. F.

1110 kilocycles (270.1)

CMCO	z	150	....	Havana, Cuba
KSOO	ak	2500	Dn	Sioux Falls, S. D.
WRVA	ae	5000	N	Richmond, Va.
XELO	z	10000	....	Piedras Negras, Co.

1120 kilocycles (267.7)

CHLP	z	100	....	Montreal, Que.
CHSJ	ae	500	F (1)	St. John, N. B.
CKOC	ae	500	F (1)	Hamilton, Ont.
CKX	ak	100	F	Brandon, Man.
CMGF	ak	100	....	Matanzas, Cuba
CMKM	z	50	....	Manzanillo, Cuba
KFIO	ak	100	D	Spokane, Wash.
KFSG	ag	1000	a	Los Angeles, Calif.
KRKD	ae	1000	a (2.5)	Los Angeles, Calif.
KRSC	ck	100	D	Seattle, Wash.
WDEL	ak	250	(.5)	Wilmington, Del.
WGCN	ae	500	....	Mississippi City
WISN	ak	250	(1)	Milwaukee, Wis.
WMFH	z	500	DP	Boston, Mass.
WTAW	ae	500	....	College Station, Tex.

1130 kilocycles (265.3)

CMJI	ak	50	....	Ciego de Avila, Cuba
KSL	ae	50000	C	Salt Lake City, Utah
WJJD	ak	20000	Dn	Chicago, Ill.
WOV	ag	1000	D	New York, N. Y.

1140 kilocycles (263.0)

CMBG	z	300	....	Havana, Cuba
KVOO	ak	25000	1N	Tulsa, Okla.
WAPI	ae	5000	1N	Birmingham, Ala.
....	z	250	PD	Rockville, Md.

1150 kilocycles (260.7)

CMJF	z	200	....	Camaguey, Cuba
WHAM	ae	50000	B	Rochester, N. Y.
XEFL	z	5000	P	Tijuana, B. C.
XEH	ak	250	....	Monterrey, N. L.
XEWZ	z	100	....	Mexico City, D. F.

1160 kilocycles (258.5)

CMHJ	z	100	....	Cienfuegos, Cuba
WOWO	ae	10000	1C	Fort Wayne, Ind.
WWVA	ak	5000	1C	Wheeling, W. Va.
XED	ck	500	....	Guadalajara, Jal.

1170 kilocycles (256.3)

CMBD	z	150	....	Havana, Cuba
WCAU	ae	50000	C	Philadelphia, Pa.

1180 kilocycles (254.1)

CMJO	ak	50	....	Ciego de Avila, Cuba
KEX	ak	5000	2N	Portland, Ore.
KOB	ae	10000	2	Albuquerque, N. M.
VEPEK	ak	10	1185	Montmagny, Que.
WDGY	ak	1000	D (5)	Minneapolis, Minn.
WINS	ae	1000	....	New York, N. Y.
WMAZ	ak	1000	....	Macon, Ga.
XEFA	z	500	....	Mexico City, D. F.

1190 kilocycles (252.0)

CMKV	z	50	....	Santiago, Cuba
HLJ	z	15	1195	Santo Domingo, D.R.
VONF	ak	5000	....	St. John's, Nfld.
WATR	ak	100	D	Waterbury, Conn.
WOAI	ak	50000	N	San Antonio, Texas
WSAZ	ak	1000	....	Huntington, W. Va.

1200 kilocycles (249.9)

CHAB	ak	100	F	Moose Jaw, Sask.
CKNX	ak	50	....	Wingham, Ont.
CKTB	ak	100	F	St. Catharines, Ont.
CMCJ	ak	350	....	Havana, Cuba
KADA	ak	100	D	Ada, Okla.
KBTM	ak	100	D	Jonesboro, Ark.
KFBJ	ak	100	(.25)	Marshalltown, Iowa
KFXD	ae	100	(.25)	Nampa, Idaho
KFXJ	ak	100	(.25)	Grand Junction, Col.
KGDE	ak	100	(.25)	Fergus Falls, Minn.
KGEK	ak	100	....	Sterling, Colo.
KGEJ	ae	100	....	Los Angeles, Calif.
KGHI	ak	100	(.25)	Little Rock, Ark.
KMLB	ak	100	....	Monroe, La.
KOOS	ae	250	D	Marshfield, Ore.
KSUN	ck	100	D	Lowell, Ariz.
KVOS	ak	100	....	Bellingham, Wash.
KWG	ak	100	C	Stockton, Calif.
WABI	ak	100	....	Bangor, Maine
WAIM	z	100	....	Anderson, S. C.
WBBZ	ak	100	....	Ponca City, Okla.
WBNO	ck	100	1	New Orleans, La.
WCAT	ak	100	D	Rapid City, S. D.
WCAX	ak	100	....	Burlington, Vt.
WCLO	ak	100	....	Janesville, Wis.
WFAM	ak	100	8	South Bend, Ind.
WFBE	ak	100	(.25)	Cincinnati, Ohio
WHBC	ak	100	2	Canton, Ohio

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WHBY	ak	100	(.25)	Green Bay, Wis.
WIBX	ak	100	(.3) C	Utica, N. Y.
WIL	ak	100	(.25)	St. Louis, Mo.
WJBC	ak	100	6	Bloomington, Ill.
WJBL	ae	100	6	Decatur, Ill.
WJBW	ak	100	1	New Orleans, La.
WKBO	ak	100	3 (.25)	Harrisburg, Pa.
WKJC	ak	100	3 (.25)	Lancaster, Pa.
WLVA	ak	100	(.25)	Lynchburg, Va.
WMFR	z	100	PD	High Point, N. C.
WMPC	ak	100	(.25)	Lapeer, Mich.
WNRI	z	100	(.25) P	Newport, R. I.
WRBL	ak	100	....	Columbus, Ga.
WWAE	ae	100	8	Hammond, Ind.

1210 kilocycles (247.8)

CJCS	z	50	....	Stratford, Ont.
CJCU	z	50	....	Aklavik, N. W. T.
CKBI	ak	100	F	Prince Albert, Sask.
CKCH	ak	100	F	Hull, Que.
CKMC	ak	50	....	Cobalt, Ont.
CMHI	ak	150	....	Santa Clara, Cuba
KASA	ck	100	....	Elk City, Okla.
KDLR	ak	100	....	Devils Lake, N. D.
KFJI	ak	100	....	Klamath Falls, Ore.
KFOR	ak	100	(.25)C	Lincoln, Neb.
KFPW	ak	100	....	Fort Smith, Ark.
KFUH	z	100	P	Del Monte, Calif.
KFVS	ae	100	6 (.25)	Cape Girardeau, Mo.
KFXM	ak	100	9	San Bernardino, Cal.
KGY	ak	100	....	Olympia, Wash.
KIEM	ak	100	....	Eureka, Calif.
KIUL	z	100	....	Garden City, Kans.
KPPC	ak	50	9	Pasadena, Calif.
KVSO	z	100	DP	Ardmore, Okla.
KWEA	z	100	....	Shreveport, La.
KWTN	ak	100	....	Watertown, S. D.
WALR	ak	100	....	Zanesville, Ohio
WBAX	ae	100	1	Wilkes Barre, Pa.
WBBL	ak	100	S	Richmond, Va.
WBRB	ak	100	3	Red Bank, N. J.
WCOL	ak	100	....	Columbus, Ohio
WCWR	ae	100	4	Chicago, Ill.
WEBQ	ae	100	6 (.25)	Harrisburg, Ill.
WEDC	ae	100	4	Chicago, Ill.
WFAS	ak	100	3	White Plains, N. Y.
WGBB	ae	100	3	Freeport, N. Y.
WGNV	ak	100	3	Chester, N. Y.
WHBF	ak	100	(.25)	Rock Island, Ill.
WHBU	ak	100	(.25)	Anderson, Ind.
WIBU	ak	100	(.25)	Poynette, Wis.
WJBY	ak	100	....	Gadsden, Ala.
WJEJ	ah	100	D	Hagerstown, Md.
WJMJ	z	100	(.25)	Lansing, Mich.
WJW	ak	100	....	Akron, Ohio
WKOK	ak	100	1	Sunbury, Pa.
WMBG	ak	100	C (.25)	Richmond, Va.
WMFG	z	100	P	Hibbing, Minn.
WMFN	z	100	....	Clarksdale, Miss.
WOCL	ak	50	....	Jamestown, N. Y.
WOMT	ae	100	....	Manitowoc, Wis.
WPAX	ae	250	D	Thomasville, Ga.
WSBC	ae	100	4	Chicago, Ill.
WSIX	ak	100	....	Springfield, Tenn.
WSOC	ak	100	N (.25)	Charlotte, N. C.
WTAX	ak	100	....	Springfield, Ill.
XEE	z	50	....	Durango, Dgo.
XEFV	ak	100	....	Juarez, Chih.
XETH	ak	100	....	Puebla, Pue.

1220 kilocycles (245.8)

CMJE	z	50	....	Camaguey, Cuba
KFKU	ae	1000	a	Lawrence, Kas.
KTW	ak	1000	S2	Seattle, Wash.
KWSC	ak	1000	2 (5)	Pullman, Wash.
WCAD	ak	500	D	Canton, N. Y.
WCAE	ak	1000	R (5)	Pittsburgh, Pa.
WDAE	ae	1000	C (2.5)	Tampa, Fla.

WREN	ak	1000	Ba(5)	Lawrence, Kas.
XETF	z	12	....	Veracruz, Ver.

1230 kilocycles (243.8)

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

1240 kilocycles (241.8)

CJCB	ak	1000	F	Sydney, N. S.
CMHB	z	50	....	San Spiritus, Cuba
KGCU	ak	250	1	Mandan, N. D.
KGKO	ak	1000	C	Wichita Falls, Texas
KLFM	ak	250	1	Minot, N. D.
KTAT	ak	1000	C	Fort Worth, Texas
KTFI	ae	1000	....	Twin Falls, Idaho
WKAQ	ae	1000	....	San Juan, P. R.
WXYZ	ak	1000	....	Detroit, Mich.
XEAI	z	100	....	Mexico City, D. F.
XEKL	z	500	....	Leon, Guan.
XELA	z	50	....	Saltillo, Coah.

1250 kilocycles (239.9)

CMCG	z	150	1255	Havana, Cuba
CMCK	z	150	....	Santiago, Cuba
KFOX	ae	1000	....	Long Beach, Calif.
WCAL	ah	1000	2 (2.5)	Northfield, Minn.
WDSU	ak	1000	C	New Orleans, La.
WHBI	ak	1000	a (2.5)	Newark, N. J.
WLB	ak	1000	2	Minneapolis, Minn.
WNEW	ae	1000	a (2.5)	Newark, N. J.
WTCN	ak	1000	2 (5)	Minneapolis, Minn.

1260 kilocycles (238.0)

CFRN	ak	100	....	Edmonton, Alta.
KGVO	ak	1000	....	Missoula, Mont.
KOIL	ak	1000	B (2.5)	Council Bluffs, Iowa
KPAC	ak	500	D	Port Arthur, Texas
KRGV	ak	500	....	Weslaco, Texas
KUOA	ak	1000	D	Fayetteville, Ark.
KVOA	ak	500	....	Tucson, Ariz.
WHIO	ae	1000	R	Dayton, Ohio
WNBX	ak	1000	D	Springfield, Vt.
WTCN	ae	1000	C	Savannah, Ga.

1270 kilocycles (236.1)

CMCP	z	150	....	Havana, Cuba
CMHD	dk	250	....	Caibarien, Cuba
HIX	ak	1000	....	Santo Domingo, D.R.
KGCA	ak	100	2D	Decorah, Iowa
KOL	ae	1000	C (2.5)	Seattle, Wash.
KVOR	ae	1000	C	Colorado Spgs., Colo.
KWLC	ak	100	2D	Decorah, Iowa
WASH	ak	500	a	Grand Rapids, Mich.
WFBR	ae	500	R	Baltimore, Md.
WJDX	ae	1000	N (2.5)	Jackson, Miss.
WOOD	ak	500	a	Grand Rapids, Mich.
XEG	z	500	....	Ensenada, B. C.
XFB	ak	1000	....	Jalapa, Ver.

1280 kilocycles (234.2)

CMCU	z	150	....	Havana, Cuba
KFBB	ae	1000	(2.5)	Great Falls, Mont.
WCAM	ae	500	1	Camden, N. J.
WCAP	ae	500	1	Asbury Park, N. J.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WDOD	ae	1000	C (5)	Chattanooga, Tenn.
WIBA	ae	1000	N	Madison, Wis.
WORC	ak	500	C	Worcester, Mass.
WRR	ak	500	....	Dallas, Texas
WTNJ	ak	500	1	Trenton, N. J.
XEMX	z	12	....	Mexico City, D. F.

1290 kilocycles (232.4)

KDYL	ak	1000	N	Salt Lake City, Utah
KLRN	z	100	D	Blytheville, Ark.
KLCH	z	1000	C (5)	Houston, Texas
WEBC	ae	1000	N (5)	Superior, Wis.
WJAS	ak	1000	C (2.5)	Pittsburgh, Pa.
WNBZ	z	100	D	Saranac Lake, N. Y.
WNEL	ak	500	....	San Juan, P. R.

1300 kilocycles (230.6)

CMKJ	z	20	....	Guantanamo, Cuba
HIZ	z	10	....	Santo Domingo, D. R.
KALE	ak	500	3C	Portland, Ore.
KFAC	ak	1000	....	Los Angeles, Calif.
KFH	ak	1000	C	Wichita, Kans.
KFJR	ag	500	3	Portland, Ore.
WBBR	ae	1000	1	Brooklyn, N. Y.
WEVD	ak	1000	1	New York, N. Y.
WFAB	ae	1000	1	New York, N. Y.
WFBC	ak	1000	(5)	Greenville, S. C.
WHAZ	ae	500	1	Troy, N. Y.
WIOD	ae	1000	N	Miami, Fla.

1310 kilocycles (228.9)

CHCK	ak	50	....	Charlottetown, P.E.I.
CJLS	z	100	....	Yarmouth, N. S.
CKCV	ak	100	F	Quebec, Que.
KCRJ	ak	100	D	Jerome, Ariz.
KFPL	dkh	100	(25)	Dublin, Texas
KFXR	ak	100	(25)	Oklahoma City, Ok.
KFYO	ak	100	(25)	Lubbock, Texas
KGCX	ak	100	(25)	Wolf Point, Mont.
KGEZ	aj	100	....	Kalispell, Mont.
KGFV	ak	100	....	Kearney, Neb.
KINY	z	100	....	Juneau, Alaska
KIT	ak	100	(25)	Yakima, Wash.
KIUJ	z	100	....	Santa Fe, N. Mex.
KMED	ck	100	(25)	Medford, Ore.
KRMD	ak	100	....	Shreveport, La.
KROC	z	100	P	Rochester, Minn.
KTSM	ak	100	....	El Paso, Texas
KVOL	z	100	P	Lafayette, La.
KXRO	ak	100	....	Aberdeen, Wash.
WAML	ak	100	....	Laurel, Miss.
WBEO	ae	100	....	Marquette, Mich.
WBOW	ak	100	(25)	Terre Haute, Ind.
WBRE	ak	100	....	Wilkes Barre, Pa.
WCLS	ae	100	....	Joliet, Ill.
WCMI	z	100	D	Ashland, Ky.
WDHA	ak	100	S	El Paso, Texas
WEBR	ae	100	(25)	Buffalo, N. Y.
WEXL	ak	50	....	Royal Oak, Mich.
WFBG	ae	100	3	Altoona, Pa.
WFDL	am	100	....	Flint, Mich.
WGH	ae	100	(25)	Newport News, Va.
WHAT	ak	100	4	Philadelphia, Pa.
WISC	z	100	PD	Milwaukee, Wis.
WJAC	ae	100	3	Johnstown, Pa.
WLBC	ak	50	6 (1)	Muncie, Ind.
WLNH	ak	100	....	Laconia, N. H.
WMBO	ak	100	....	Auburn, N. Y.
WMFF	z	100	D	Plattsburg, N. Y.
WNBH	ae	100	(25) C	New Bedford, Mass.
WOL	ae	100	....	Washington, D. C.
WRAW	ak	100	....	Reading, Pa.
WROL	ak	100	(25)	Knoxville, Tenn.
WSAJ	ae	100	....	Grove City, Pa.
WSGN	ak	100	(25)	Birmingham, Ala.
WSJS	ak	100	C	Winston-Salem, N. C.

WTAL	z	100	P	Tallahassee, Fla.
WTFL	ah	100	4	Philadelphia, Pa.
WTJS	ak	100	(25)	Jackson, Tenn.
WTRC	ak	50	6 (1)	Elkhart, Ind.
XEJA	z	15	....	Oaxaca, Oax.
XEC	z	50	....	Tijuana, B. C.
XECW	z	10	....	Mexico City, D. F.
XEFC	ak	100	....	Merida, Yuc.
XEFW	ak	250	....	Tampico, Tams.
XELM	z	15	....	Mineral del Monte
XETB	z	125	....	Torreon, Coah.
XEX	ak	125	....	Monterrey, N. L.

1320 kilocycles (227.1)

CMCK	z	100	P	Havana, Cuba
CMOX	z	250	....	Havana, Cuba
KGHF	ak	500	....	Pueblo, Colo.
KGMB	ak	1000	C	Honolulu, T. H.
KID	ae	250	(5)	Idaho Falls, Idaho
KRNT	ak	500	C (1)	Des Moines, Iowa
WADC	ae	1000	C (2.5)	Akron, Ohio
WORK	ak	1000	....	York, Pa.
WSMB	ak	1000	N	New Orleans, La.

1330 kilocycles (225.4)

CMHK	z	250	....	Cruces, Cuba
KGB	ag	1000	C (2.5)	San Diego, Calif.
KMO	ak	250	....	Tacoma, Wash.
KSCJ	aj	1000	1C (2.5)	Sioux City, Iowa
WDRC	ae	1000	C (2.5)	Hartford, Conn.
WSAI	ak	1000	R (2.5)	Cincinnati, Ohio
WTAQ	ae	1000	1	Eau Claire, Wis.

1340 kilocycles (223.7)

CMJL	z	75	....	Camaguey, Cuba
KGDY	ak	250	D	Huron, S. D.
KGR	ak	1000	N (2.5)	Butte, Mont.
KGNO	ak	250	....	Dodge City, Kans.
WCOA	ak	500	C	Pensacola, Fla.
WFEA	ae	500	C (1)	Manchester, N. H.
WSPD	ae	1000	C (2.5)	Toledo, Ohio
XFD	z	250	....	Orizaba, Ver.

1350 kilocycles (222.1)

CMCA	z	450	....	Havana, Cuba
KIDO	ak	1000	(2.5)	Boise, Idaho
KWK	ak	1000	B (5)	St. Louis, Mo.
WAWZ	ae	500	1 (1)	Zarephath, N. J.
WBNX	ae	250	1	New York, N. Y.

1360 kilocycles (220.4)

CMJH	ak	50	....	Ciego de Avila, Cuba
KCRC	ak	250	....	Enid, Okla.
KGER	ak	1000	....	Long Beach, Calif.
WCSC	ae	500	(1)	Charleston, S. C.
WFBL	ak	1000	C (5)	Syracuse, N. Y.
WGES	ae	500	1	Chicago, Ill.
WQBC	ak	1000	D	Vicksburg, Miss.
WSBT	ak	500	1	South Bend, Ind.

1370 kilocycles (218.8)

CKCW	z	100	F	Moncton, N. B.
CMGE	z	50	....	Cardenas, Cuba
KAST	z	100	D	Astoria, Ore.
KELD	z	100	P	El Dorado, Ark.
KERN	ak	100	....	Bakersfield, Calif.
KFGO	ak	100	....	Boone, Iowa
KFJM	ak	100	(25)	Grand Forks, N. D.
KFJZ	ae	100	....	Fort Worth, Texas
KFRO	z	100	D	Longview, Texas
KGAR	ae	100	(25)	Tucson, Ariz.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KGFG	bk	100	....	Oklahoma City, Ok.
KGFL	ak	100	4	Roswell, N. M.
KGKL	ak	100	(.25)	San Angelo, Texas
KICA	ak	100	4	Clovis, N. M.
KIUP	z	100	P	Durango, Colo.
KLUF	z	100	(.25)	Galveston, Texas
KMAC	ak	100	5	San Antonio, Texas
KONO	ak	100	5	San Antonio, Texas
KRE	ak	100	(.25)	Berkeley, Calif.
KRKO	ak	50	1	Everett, Wash.
KSLM	z	100	....	Salem, Ore.
KUJ	ak	100	....	Walla Walla, Wash.
KVL	ak	100	1	Seattle, Wash.
KWKC	z	100	....	Kansas City, Mo.
KWYO	ak	100	....	Sheridan, Wyo.
WABY	ak	100	....	Albany, N. Y.
WAGF	ak	100	(.25)	Dothan, Ala.
WBTM	ak	100	(.25)	Danville, Va.
WCBM	ak	100	(.25)	Baltimore, Md.
WDAS	ae	100	(.25)	Philadelphia, Pa.
WGL	ak	100	C	Fort Wayne, Ind.
WHBQ	ak	100	....	Memphis, Tenn.
WHDF	ak	100	(.25)	Calumet, Mich.
WIBM	ak	100	(.25)	Jackson, Mich.
WJTL	ak	100	....	Atlanta, Ga.
WLLH	ak	100	(.25)	Lowell, Mass.
WMBR	ak	100	C	Jacksonville, Fla.
WMFD	z	100	D	Wilmington, N. C.
WMFO	z	100	DP	Decatur, Ala.
WOC	z	100	C (.25)	Davenport, Iowa
WPAY	ak	100	....	Portsmouth, Ohio
WPFB	ak	100	....	Hattiesburg, Miss.
WQDM	ae	100	D	St. Albans, Vt.
WRAK	ak	100	(.25)	Williamsport, Pa.
WRDO	ak	100	....	Augusta, Maine
WRJN	ak	100	....	Racine, Wis.
WSVS	ak	50	D	Buffalo, N. Y.
XEFZ	ae	100	....	Mexico City, D. F.
XEI	ak	125	....	Morelia, Mch.
XEZZ	z	100	....	San Luis Potosi, SLP

1380 kilocycles (217.3)

CMBX	ak	150	....	Havana, Cuba
KOH	ak	500	C	Reno, Nev.
KOV	ak	500	2	Pittsburgh, Pa.
WALA	ae	500	C (1)	Mobile, Ala.
WKBB	ae	1000	D	LaCrosse, Wis.
WNBC	z	250	D	New Britain, Conn.
WSMK	ak	200	C	Dayton, Ohio

1390 kilocycles (215.7)

CJRC	ck	100	F	Winnipeg, Man.
CMJC	z	150	....	Camaguey, Cuba
HHH	ak	15	1395	San Ped. de Macoris, DR
KLRA	ae	1000	C (2.5)	Little Rock, Ark.
KOY	ae	500	(1)	Phoenix, Ariz.
WHK	ae	1000	C (2.5)	Cleveland, Ohio

1400 kilocycles (214.2)

CMGC	z	100	....	Matanzas, Cuba
CMKR	z	200	....	Santiago, Cuba
KLO	ae	500	C	Ogden, Utah
KTUL	ak	500	C (1)	Tulsa, Okla.
TGX	ak	150	....	Guatemala City, Gt.
WARD	ak	500	2	Brooklyn, N. Y.
WBBC	ae	500	2 (1)	Brooklyn, N. Y.
WIRE	ak	500	R (1)	Indianapolis, Ind.
WLTH	ak	500	2	Brooklyn, N. Y.
WVFW	ak	500	2	Brooklyn, N. Y.

1410 kilocycles (212.6)

CHNC	ak	500	F (1)	New Carlisle, Que.
CKFC	ak	50	5	Vancouver, B. C.

CKMO	ag	100	5F	Vancouver, B. C.
CMCR	z	150	....	Havana, Cuba
KGNC	ae	1000	(.25)	Amarillo, Texas
WAAB	ak	500	C	Boston, Mass.
WBCM	ae	500	....	Bay City, Mich.
WHBL	ae	500	4	Sheboygan, Wis.
WHIS	ak	250	2 (.5)	Bluefield, W. Va.
WRBX	ae	250	2 (.5)	Roanoke, Va.
WROK	ak	500	4	Rockford, Ill.
WROFA	ak	500	C (1)	Montgomery, Ala.

1420 kilocycles (211.1)

CKGB	ak	100	....	Timmins, Ont.
CKNC	ak	100	F	Toronto, Ont.
CMGI	z	50	....	Colon, Cuba
KABC	ak	100	(.25)	San Antonio, Texas
KABR	z	100	D	Aberdeen, S. Dak.
KALB	z	100	PD	Alexandria, La.
KBPS	aj	100	4	Portland, Ore.
KCMC	ak	100	....	Texarkana, Ark.
KFTZ	ak	100	....	Fond du Lac, Wis.
KGFF	ak	100	....	Shawnee, Okla.
KGGC	ak	100	....	San Francisco, Cal.
KGIW	ak	100	1	Alamosa, Colo.
KIDW	z	100	1	Lamar, Colo.
KIUN	z	100	P	Pecos, Texas
KORE	ae	100	....	Eugene, Ore.
KRLC	z	100	....	Lewiston, Idaho
KUMA	ak	100	....	Yuma, Ariz.
KWBG	z	100	....	Hutchinson, Kans.
KXL	ae	100	C (.25)	Portland, Ore.
WACO	ak	100	C	Waco, Texas
WAGM	ae	100	....	Presque Isle, Maine
WAZL	ak	100	2	Hazleton, Pa.
WCBS	ak	100	....	Springfield, Ill.
WEED	ak	100	3	Rocky Mount, N. C.
WEHC	ae	100	3 (.25)	Charlottesville, Va.
WEHS	ak	100	a	Cicero, Ill.
WELL	ak	100	....	Battle Creek, Mich.
WGPC	ak	100	....	Albany, Ga.
WHDL	ak	100	D	Olean, N. Y.
WHFC	ae	100	a	Cicero, Ill.
WILM	aj	100	2	Wilmington, Del.
WJBO	z	100	....	Baton Rouge, La.
WJMS	ak	100	....	Ironwood, Mich.
WKBI	ak	100	a	Cicero, Ill.
WLAF	ak	100	(.25)	Lexington, Ky.
WLBK	ak	100	....	Kansas City, Kans.
WLEU	z	100	(.25)	Erie, Pa.
WMAS	z	100	C (.25)	Springfield, Mass.
WMBC	ae	100	(.25)	Detroit, Mich.
WMBH	ak	100	(.25)	Joplin, Mo.
WMFJ	z	100	....	Daytona Beach, Fla.
WNRA	ak	100	....	Muscle Shoals, Ala.
WPAD	ak	100	(.25)	Paducah, Ky.
WPAR	z	100	P	Parkersburg, W. Va.
WPRP	z	100	P (.25)	Ponce, P. R.
WWC	z	1000	P	Spartanburg, S. C.
XEAZ	z	7	....	Guanajuato, Gto.
XEFB	ak	100	....	Monterrey, N. L.
.....	z	100	....	Hilo, T. H.

1430 kilocycles (209.7)

CMJP	ak	100	....	Moron, Cuba
KECA	ak	1000	(5) N	Los Angeles, Calif.
EGNF	ak	1000	D	North Platte, Neb.
KSO	ak	250	B (.5)	Des Moines, Iowa
WBNS	ae	500	C (1)	Columbus, Ohio
WHEC	ae	500	C (1)	Rochester, N. Y.
WHP	ak	500	C (1)	Harrisburg, Pa.
WNBR	ae	500	(1)	Memphis, Tenn.
WOKO	ae	500	C (1)	Albany, N. Y.

1440 kilocycles (208.2)

KDFN	ak	500	....	Casper, Wyo.
KLS	ae	250	D	Oakland, Calif.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KXYZ	ak	1000	....	Houston, Texas
TIFS	z	7.5	(1441)	Cartago, C. R.
WBIG	ae	500	C	Greensboro, N. C.
WCBA	aj	500	a	Allentown, Pa.
WBMD	ae	500	C	Peoria, Ill.
WSAN	aj	500	a	Allentown, Pa.
XEFI	ae	250	....	Chihuahua, Chih.

1450 kilocycles (206.8)

CFCT	ae	75	....	Victoria, B. C.
CHGS	ae	50	F	Summerside, P.E.I.
KTBS	ck	1000	N	Shreveport, La.
WGAR	ak	500	B (1)	Cleveland, Ohio
WHOM	ae	250	....	Jersey City, N. J.
WSAR	ae	250	....	Fall River, Mass.
WTFI	ak	500	....	Athens, Ga.

1460 kilocycles (205.4)

CMKF	z	50	....	Holquin, Cuba
KSTP	ak	10000	N (25)	St. Paul, Minn.
WJSV	ak	10000	C	Washington, D. C.

1470 kilocycles (204.0)

CMOK	z	200	....	Havana, Cuba
KGA	ak	5000	N (2.5)	Spokane, Wash.
WLAC	ak	5000	C	Nashville, Tenn.

1480 kilocycles (202.6)

KOMA	ak	5000	C	Oklahoma City, Ok.
WKBW	ae	5000	C	Buffalo, N. Y.

1490 kilocycles (201.2)

KFBK	ak	5000	C	Sacramento, Calif.
WCKY	ae	5000	B	Covington, Ky.

1500 kilocycles (199.9)

CMCN	z	150	....	Havana, Cuba
KDB	ak	100	C	Santa Barbara, Calif.

KGFI	ak	100	(.25)	Corpus Christi, Tex.
KGFK	ak	100	Y	Moorhead, Minn.
KGKB	ak	100	....	Tyler, Texas
KGKY	ak	100	(.25)	Scottsbluff, Neb.
KNOW	ck	100	....	Austin, Texas
KOTN	ak	100	D	Pine Bluff, Ark.
KPJM	ak	100	....	Prescott, Ariz.
KPLC	z	100	....	Lake Charles, La.
KPO	ak	100	(.25)	Wenatchee, Wash.
KREG	ak	100	....	Santa Ana, Calif.
KXO	ae	100	....	El Centro, Calif.
WCNW	ak	100	I (.25)	Brooklyn, N. Y.
WDNC	ak	100	C	Durham, N. C.
WGAL	ae	100	(.25)	Lancaster, Pa.
WHFF	z	100	(.25)	Kosciusko, Miss.
WJBK	ae	100	(.25)	Detroit, Mich.
WKBV	ae	100	(.25)	E. Dubuque, Ill.
WKBW	ak	100	....	Richmond, Ind.
WKBZ	ak	100	(.25)	Muskegon, Mich.
WKBU	ak	100	....	Griffin, Ga.
WMBO	ae	100	I	Brooklyn, N. Y.
WMBX	ak	100	(.25)	Boston, Mass.
WNEF	ae	100	C	Binghamton, N. Y.
WOPI	ae	100	....	Bristol, Tenn.
WRDW	ak	100	....	Augusta, Ga.
WRGA	ak	100	(.25)	Rome, Ga.
WSYB	ak	100	....	Rutland, Vt.
WTMY	z	100	....	East St. Louis, Ill.
WWRL	ak	100	I (.25)	Woodsie, N. Y.
WWSW	ae	100	(.25)	Pittsburgh, Pa.
.....	z	100	P	St. Louis, Mo.
.....	z	100	DP	Brady, Texas

1510 kilocycles (198.6)

CFRC	ak	100	....	Kingston, Ont.
CKCR	ak	100	....	Waterloo, Ont.

1530 kilocycles (196.0)

W1XBS	z	1000	....	Waterbury, Conn.
W9XBY	z	1000	....	Kansas City, Mo.

1550 kilocycles (193.4)

W2XR	z	1000	....	Long Isl. City, N. Y.
W6XA1	z	1000	....	Bakersfield, Calif.

KEY TO SYMBOLS

As Shown in the index by
Frequencies and Dial Numbers

Frequency is given in kilocycles; wavelength in meters. Night power is shown in watts in third column. Daytime power is shown in parenthesis in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

Second Column Symbols

- a Verifies reception for return postage.
- b Verifies only occasionally.
- c Does not verify.
- d Verification 10c: letter 25c.
- e Sends Ekko stamp for 10c.
- f Sends Ekko stamp for 5c.
- g Sends Ekko stamp for postage.
- h Sends own station stamp for 10c.
- i Sends own station stamp for 5c.
- j Sends own station stamp for postage.
- k Has no stamps.
- m Verifies for 5c.
- u Weather or time only.
- z No information available.

Fourth Column Symbols

- B National "Blue" network.
- C Columbia network.
- D Day time only.
- Dn Day time with occasional evening hours.
- F Canadian Radio Brd'g, Commis'n.
- N National "Red" and "Blue" networks.
- P Has construction permit only.
- R National "Red" network.
- S Sunday only.
- Sy Synchronized.
- X Has permit to increase power.
- Y Has permit to change location.
- Z Has permit to change frequency.
- a-b-c. Small letters show stations using same transmitter.
- 1-2-3. Figures denote stations sharing time.
- No information.

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Frequency in kilocycles in second column. Night power in watts in third column. Net work affiliations in fourth column: C Columbia, R National Red, B National Blue, N National Red and Blue, F Canadian.

<p style="text-align: center;">ALABAMA</p> <p>Birmingham</p> <p>WAPI 1140 5000 N WBRC 930 1000 C WSGN 1310 100</p> <p>Decatur</p> <p>WMFO 1370 100</p> <p>Dothan</p> <p>WAGF 1370 100</p> <p>Gadsden</p> <p>WJBY 1210 100</p> <p>Mobile</p> <p>WALA 1380 500 C</p> <p>Montgomery</p> <p>WSFA 1410 500 C</p> <p>Muscle Shoals</p> <p>WNRA 1420 100</p> <hr/> <p style="text-align: center;">ALASKA</p> <p>Anchorage</p> <p>KFOD 780 250</p> <p>Juneau</p> <p>KINY 1310 100</p> <p>Ketchikan</p> <p>KGBU 900 500</p> <hr/> <p style="text-align: center;">ARIZONA</p> <p>Jorome</p> <p>KCRJ 1310 100</p> <p>Lowell</p> <p>KSUN 1200 100</p> <p>Phoenix</p> <p>KOY 1390 500 KTAR 620 1000 N</p> <p>Prescott</p> <p>KPJM 1500 100</p> <p>Tucson</p> <p>KGAR 1370 100 KVOA 1260 500</p> <p>Yuma</p> <p>KUMA 1420 100</p> <hr/> <p style="text-align: center;">ARKANSAS</p> <p>Blytheville</p> <p>KLGN 1290 100</p> <p>El Dorado</p> <p>KELD 1370 100</p> <p>Fayetteville</p> <p>KUOA 1260 1000</p> <p>Fort Smith</p> <p>KFPW 1210 100</p> <p>Hot Springs</p> <p>KTHS 1050 10000 N</p> <p>Jonesboro</p> <p>KBTM 1200 100</p> <p>Little Rock</p> <p>KARK 890 250 KGGH 1200 100 KCLR 1390 1000 C</p> <p>Pine Bluff</p> <p>KOTN 1500 100</p> <p>Texarkana</p> <p>KCMC 1420 100</p> <hr/> <p style="text-align: center;">CALIFORNIA</p> <p>Bakersfield</p> <p>KERN 1370 100 C W6XAI 1550 1000</p> <p>Berkeley</p> <p>KRE 1370 100</p> <p>Beverly Hills</p> <p>KMPC 710 500</p>	<p>Burbank</p> <p>KELW 780 500</p> <p>Chico</p> <p>KHSL 950 250</p> <p>Del Monte</p> <p>KFUH 1210 100</p> <p>El Centro</p> <p>KXO 1500 100</p> <p>Eureka</p> <p>KIEM 1210 100</p> <p>Fresno</p> <p>KMJ 580 1000 C</p> <p>Glendale</p> <p>KIEV 850 250</p> <p>Hollywood</p> <p>KFWB 950 1000 KMTR 570 1000 KNX 1050 50000</p> <p>Long Beach</p> <p>KFOX 1250 1000 KGER 1360 1000</p> <p>Los Angeles</p> <p>KBCA 1430 1000 N KEHE 780 500 KFAC 1300 1000 KFB 640 50000 N KFSG 1120 1000 KFVD 1000 250 KGFJ 1200 100 KHJ 900 1000 C KRRD 1120 1000</p> <p>Modesto</p> <p>KTRB 740 250</p> <p>Oakland</p> <p>KLS 1440 250 KLX 880 1000 KROW 930 1000</p> <p>Pasadena</p> <p>KPPC 1210 50</p> <p>Sacramento</p> <p>KPBK 1490 5000 C</p> <p>San Bernardino</p> <p>KFXM 1210 100</p> <p>San Diego</p> <p>KPSD 600 1000 N KGB 1330 1000 C</p> <p>San Francisco</p> <p>KFRG 610 1000 C KGGC 1420 100 KGO 790 7500 N KJBS 1070 500 KPO 680 50000 N KSFO 560 1000 KYA 1230 1000 N</p> <p>San Jose</p> <p>KQW 1010 1000</p> <p>Santa Ana</p> <p>KREG 1500 100</p> <p>Santa Barbara</p> <p>KDB 1500 100 C</p> <p>Stockton</p> <p>KGDM 1100 1000 KWG 1200 100 C</p> <hr/> <p style="text-align: center;">COLORADO</p> <p>Alamosa</p> <p>KGIW 1420 100</p> <p>Colorado Springs</p> <p>KVOR 1270 1000 C</p> <p>Denver</p> <p>KFEL 920 500 KLZ 560 1000 C KOA 830 50000 N KPOF 880 500 KVOD 920 500</p>	<p>Durango</p> <p>KIUP 1370 100</p> <p>Grand Junction</p> <p>KFXJ 1200 100</p> <p>Greely</p> <p>KFKA 880 500</p> <p>Lamar</p> <p>KIDW 1420 100</p> <p>Pueblo</p> <p>KGHF 1320 500</p> <p>Sterling</p> <p>KGEK 1200 100</p> <hr/> <p style="text-align: center;">CONNECTICUT</p> <p>Bridgeport</p> <p>WICC 600 500 C</p> <p>Hartford</p> <p>WDRG 1330 1000 C WITC 1040 50000 R</p> <p>New Britain</p> <p>WNBC 1380 250</p> <p>New Haven</p> <p>WMFI 900 500</p> <p>Storrs</p> <p>WCAC 600 500</p> <p>Waterbury</p> <p>WATR 1190 100 WIXBS 1530 1000</p> <hr/> <p style="text-align: center;">DELAWARE</p> <p>Wilmington</p> <p>WDEL 1120 250 WILM 1420 100</p> <hr/> <p style="text-align: center;">DISTRICT OF COLUMBIA</p> <p>Washington</p> <p>WJSV 1460 10000 C WMAL 630 250 B WOL 1310 100 WRC 950 500 R</p> <hr/> <p style="text-align: center;">FLORIDA</p> <p>Clearwater</p> <p>WFLA 620 1000 N</p> <p>Daytona Beach</p> <p>WMFJ 1420 100</p> <p>Gainesville</p> <p>WRUF 830 5000</p> <p>Jacksonville</p> <p>WJAX 900 1000 N WM3R 1370 100 C</p> <p>Miami</p> <p>WIOD 1300 1000 N WQAM 560 1000 C</p> <p>Orlando</p> <p>WDBO 580 1000 C</p> <p>Pensacola</p> <p>WCOA 1340 500 C</p> <p>St. Petersburg</p> <p>WSUN 620 1000 N</p> <p>Tallahassee</p> <p>WTAL 1310 100</p> <p>Tampa</p> <p>WDAE 1220 1000 C</p> <hr/> <p style="text-align: center;">GEORGIA</p> <p>Albany</p> <p>WGPC 1420 100</p> <p>Athens</p> <p>WTFI 1450 500</p>	<p>Atlanta</p> <p>WGST 890 500 C WJTL 1370 100 WWSB 740 50000 N</p> <p>Augusta</p> <p>WRDW 1500 100</p> <p>Columbus</p> <p>WRBI 1200 100</p> <p>Griffin</p> <p>WKEU 1500 100</p> <p>Macon</p> <p>WMAZ 1180 1000</p> <p>Rome</p> <p>WRGA 1500 100</p> <p>Savannah</p> <p>WTCC 1260 1000 C WThomasville WPAX 1210 250</p> <hr/> <p style="text-align: center;">HAWAII</p> <p>Hilo</p> <p>..... 1420 100</p> <p>Honolulu</p> <p>KGMB 1320 1000 C KGU 750 2500 N</p> <hr/> <p style="text-align: center;">IDAHO</p> <p>Boise</p> <p>KIDO 1350 1000</p> <p>Idaho Falls</p> <p>KID 1320 250</p> <p>Lowiston</p> <p>KRLC 1420 100</p> <p>Nampa</p> <p>KFXD 1200 100</p> <p>Pocatello</p> <p>KSEI 900 250</p> <p>Twin Falls</p> <p>KTPI 1240 1000</p> <hr/> <p style="text-align: center;">ILLINOIS</p> <p>Bloomington</p> <p>WJBC 1200 100</p> <p>Carthage</p> <p>WCAZ 1070 100</p> <p>Chicago</p> <p>WAAF 920 500 WBBM 770 50000 C WCFL 970 1500 B WCRW 1210 100 WEDC 1210 100 WENR 870 50000 N WGES 1360 500 WGN 720 50000 WJJD 1130 20000 WLS 870 50000 N WMAQ 670 50000 N WMBI 1080 5000 WSBC 1210 100</p> <p>Cicero</p> <p>WEHS 1420 100 WHFC 1420 100 WKBI 1420 100</p> <p>Decatur</p> <p>WJBL 1200 100</p> <p>East Dubuque</p> <p>WKBB 1500 100</p> <p>East St. Louis</p> <p>WMTV 1500 100</p> <p>Harrisburg</p> <p>WEBQ 1210 100</p> <p>Joliet</p> <p>WCLS 1310 100</p>
---	---	--	---

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Peoria †WMPD 1440 500 C Quincy WTAD 900 500 Rockford WROK 1410 500 Rock Island WHBF 1210 100 Springfield WCBS 1420 100 WTAX 1210 100 Tuscola WDZ 1026 250 Urbana WILL 890 1000 Waukegan WCB2 1080 5000</p> <hr/> <p style="text-align: center;">INDIANA</p> <p>Anderson WHBU 1210 100 Elkhart WTRC 1310 50 Evansville WGBF 630 500 Fort Wayne WGL 1370 100 C WOWO 1160 10000 C Gary WIND 560 1000 Hammond WWA E 1200 100 Indianapolis †WFBM 1230 1000 C WIRE 1400 500 R Muncie WLBC 1310 50 Richmond WKBV 1500 100 South Bend WFAM 1200 100 WSBT 1360 500 C Terre Haute WBOW 1310 100 West Lafayette WBAA 890 1000</p> <hr/> <p style="text-align: center;">IOWA</p> <p>Ames WOI 640 5000 Boone KFGQ 1370 100 Cedar Rapids †WMT 600 1000 B Council Bluffs †KOIL 1260 1000 B Davenport WOC 1370 100 C Decorah KGCA 1270 100 KWLC 1270 100 Des Moines †KRNT 1320 500 C KSO 1430 250 B †WHO 1000 50000 R Iowa City WSUI 880 500 Marshalltown KFJB 1200 100 Shenandoah †KFNF 890 500 †KMA 930 1000 Sioux City †KSCJ 1330 1000 C</p> <hr/> <p style="text-align: center;">KANSAS</p> <p>Abilene †KFBI 1050 5000</p>	<p>Coffeyville †KGGF 1010 1000 Dodge City †KGN0 1340 250 Garden City †KIUL 1210 100 Hutchinson †KWBG 1420 100 Kansas City †WLB F 1420 100 Lawrence KFKU 1220 1000 †WREN 1220 1000 B Manhattan KSAC 580 500 Topeka †WIBW 580 1000 C Wichita †KHFH 1300 1000 C</p> <hr/> <p style="text-align: center;">KENTUCKY</p> <p>Ashland WCM1 1310 100 Covington †WKCY 1490 5000 B Lexington WLAP 1420 100 Louisville †WAVE 940 1000 N †WHAS 820 50000 C Paducah WPAD 1420 100</p> <hr/> <p style="text-align: center;">LOUISIANA</p> <p>Alexandria KALB 1420 100 Baton Rouge WJBO 1420 100 Lafayette KVOL 1310 100 Lake Charles KPLC 1500 100 Monroe KMLB 1200 100 New Orleans WBNO 1200 100 WDSU 1250 1000 C WJBW 1200 100 †WSMB 1320 1000 N †WWL 850 10000 Shreveport KRMD 1310 100 †KTBS 1450 1000 N KWEA 1210 100 †KWKH 820 19000 C</p> <hr/> <p style="text-align: center;">MAINE</p> <p>Augusta WRDO 1370 100 Bangor WABI 1200 100 WLBZ 620 500 C Portland WCSH 940 1000 R Presque Isle WAGM 1420 100</p> <hr/> <p style="text-align: center;">MARYLAND</p> <p>Baltimore †WBAL 1060 10000 B WCAO 600 500 C WCBM 1370 100 WFBR 1270 500 R Cumberland WTBO 800 250</p>	<p>Frederick WFMD 900 500 Hagerstown WJ E J 1210 100 Rockville 1140 250</p> <hr/> <p style="text-align: center;">MASSACHUSETTS</p> <p>Babson Park WBSO 920 500 Boston WAAB 1410 500 C †WBZ 990 50000 B WEEL 590 1000 R WHDH 830 1000 WMEX 1500 100 WMFH 1120 500 WNAC 1230 1000 C Fall River WSR 1450 250 Lowell WLLH 1370 100 New Bedford WNBH 1310 100 C Springfield †WBZA 990 1000 B WMA S 1420 100 C Worcester WORC 1280 500 C WTAG 580 500 R</p> <hr/> <p style="text-align: center;">MICHIGAN</p> <p>Battle Creek WELL 1420 100 Bay City WBCM 1410 500 Calumet WHDF 1370 100 Detroit †WJBK 1500 100 †WJR 750 50000 C WMBC 1420 100 WWJ 920 1000 R WXYZ 1240 1000 East Lansing WKAR 1040 1000 Flint WFDF 1310 100 Grand Rapids WASH 1270 500 WOOD 1270 500 Ironwood WJMS 1420 100 Jackson WIBM 1370 100 Kalamazoo WKZO 590 1000 Lansing WJIM 1210 100 Lapeer WMPC 1200 100 Marquette WBE0 1310 100 Muskegon WKBZ 1500 100 Royal Oak WEXL 1310 50</p> <hr/> <p style="text-align: center;">MINNESOTA</p> <p>Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Minneapolis †WCCO 810 50000 C W D G Y 1180 1000 WLB 1250 1000</p>	<p>WTCN 1250 1000 Moorhead KGFK 1500 100 Northfield WCAL 1250 1000 Rochester KROC 1310 100 St. Paul †KSTP 1460 10000 N</p> <hr/> <p style="text-align: center;">MISSISSIPPI</p> <p>Clarksdale WMFN 1210 100 Hattiesburg WPFB 1370 100 Jackson WJDX 1270 1000 N Kosciusko WHEF 1500 100 Laurel WAML 1310 100 Meridian WCO C 880 500 Mississippi City WGC M 1120 500 Vicksburg WQBC 1360 1000</p> <hr/> <p style="text-align: center;">MISSOURI</p> <p>Cape Girardeau KFVS 1210 100 Columbia †KFRU 630 500 Jefferson City WOS 630 500 Joplin WMBH 1420 100 Kansas City †KMBC 950 1000 C †KWKC 1370 100 WDAF 610 1000 R †WHB 860 1000 W9XBY 1530 1000 St. Joseph †KFEO 680 2500 St. Louis †KFUO 550 500 †KMOX 1090 50000 C KSD 550 1000 R †KWK 1350 1000 B WEW 760 1000 WL 1200 100 1500 100 Springfield †KGBX 1230 500 †KWTO 560 5000</p> <hr/> <p style="text-align: center;">MONTANA</p> <p>Billings KGH L 780 1000 N Butte KGR 1340 1000 N Great Falls KFBB 1280 1000 Kalispell KGEZ 1310 100 Missoula KGVO 1260 1000 Wolf Point KG C X 1310 100</p> <hr/> <p style="text-align: center;">NEBRASKA</p> <p>Clay Center KMMJ 740 1000 Kearney KGF W 1310 100</p>
--	--	--	---

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Lincoln †KFAB 770 10000 C KFOR 1210 100 C</p> <p>Norfolk †WJAG 1060 1000</p> <p>North Platte KGNF 1430 1000</p> <p>Omaha †WAAW 660 500 †WOW 590 1000 R</p> <p>Scottsbluff KGKY 1500 100</p> <p>York †KGBZ 930 1000</p> <hr/> <p style="text-align: center;">NEVADA</p> <hr/> <p>Reno KOH 1380 500 C</p> <hr/> <p style="text-align: center;">NEW HAMPSHIRE</p> <hr/> <p>Laconia WLNH 1310 100</p> <p>Manchester WFEA 1340 500 C</p> <p>Portsmouth WHEB 740 250</p> <hr/> <p style="text-align: center;">NEW JERSEY</p> <hr/> <p>Asbury Park WCAP 1280 500</p> <p>Atlantic City WPG 1100 5000 C</p> <p>Camden WCAM 1280 500</p> <p>Jersey City WAAT 940 500 WHOM 1450 250</p> <p>Newark WHBI 1250 1000 WNEW 1250 1000 †WOR 710 50000</p> <p>Red Bank WBRB 1210 100</p> <p>Trenton WTNJ 1280 500</p> <p>Zarephath WAWZ 1350 500</p> <hr/> <p style="text-align: center;">NEW MEXICO</p> <hr/> <p>Albuquerque KGGM 1230 250 †KOB 1180 10000</p> <p>Clovis KICA 1370 100</p> <p>Roswell KGFL 1370 100</p> <p>Santa Fe KIUJ 1310 100</p> <hr/> <p style="text-align: center;">NEW YORK</p> <hr/> <p>Albany WABY 1370 100</p> <p>WOKO 1430 500 C</p> <p>Auburn WMBO 1310 100</p> <p>Binghamton WBNF 1500 100 C</p> <p>Brooklyn WARD 1400 500 WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WLTH 1400 500 WMBQ 1500 100 WVPW 1400 500</p>	<p>Buffalo WBEN 900 1000 R WEBR 1310 100 WGR 550 1000 C WKBW 1480 5000 C WWSV 1370 50</p> <p>Canton WCAD 1220 500</p> <p>Chester WGNV 1210 100</p> <p>Elmira WESG 850 1000 C</p> <p>Freeport WGBB 1210 100</p> <p>Jamestown WOCL 1210 50</p> <p>Long Island City W2XR 1550 1000</p> <p>New York †WABC 860 50000 C WBNX 1350 250 WBOQ 860 50000 †WVEA 660 50000 R WVEB 1300 1000 WFBF 1300 1000 WHN 1010 1000 WINS 1180 1000 †WJZ 760 50000 B WLWL 1100 5000 WMCA 570 500 WNYC 810 1000 WOV 1130 1000</p> <p>Olean WHDL 1420 100</p> <p>Plattsburg WMFF 1310 100</p> <p>Rochester †WHAM 1150 50000 B WHCC 1430 500 C</p> <p>Saranac Lake WNBZ 1290 100</p> <p>Schenectady WGY 790 50000 R</p> <p>Syracuse WFBL 1360 1000 C WSYR 570 250 B</p> <p>Troy WHAZ 1300 500</p> <p>Utica WIBX 1200 100 C</p> <p>White Plains WFAS 1210 100</p> <p>Woodside WWRL 1500 100</p> <hr/> <p style="text-align: center;">NORTH CAROLINA</p> <hr/> <p>Asheville WWNC 570 1000 N</p> <p>Charlotte WBT 1080 50000 C WSOC 1210 100 N</p> <p>Durham WDNC 1500 100 C</p> <p>Greensboro WBIG 1440 500 C</p> <p>High Point WMFR 1200 100</p> <p>Raleigh WPTF 680 1000 N</p> <p>Rocky Mount WEED 1420 100</p> <p>Wilmington WMFD 1370 100</p> <p>Winston-Salem WSJS 1310 100 C</p> <hr/> <p style="text-align: center;">NORTH DAKOTA</p> <hr/> <p>Bismarck KFJR 550 1000 N</p>	<p>Devils Lake KDLR 1210 100</p> <p>Fargo WDAY 940 1000 N</p> <p>Grand Forks KFJM 1370 100</p> <p>Mandan KGGU 1240 250</p> <p>Minot KLFM 1240 250</p> <hr/> <p style="text-align: center;">OHIO</p> <hr/> <p>Akron WADC 1320 1000 C WJV 1210 100</p> <p>Canton WHBC 1200 100</p> <p>Cincinnati WFBE 1200 100 WKRC 550 1000 C †WLW 700 50000 N WSAI 1330 1000 R</p> <p>Cleveland WGAR 1450 500 B WHK 1390 1000 C WJAY 610 500 WTAM 1070 50000 R</p> <p>Columbus WAU 640 500 WBNS 1430 500 C WCOL 1210 100 WOSU 570 750</p> <p>Dayton WHIO 1260 1000 R †WSMK 1380 200 C</p> <p>Portsmouth WPA Y 1370 100</p> <p>Toledo WSPD 1340 1000 C</p> <p>Youngstown WKBN 570 500 C</p> <p>Zanesville WALR 1210 100</p> <hr/> <p style="text-align: center;">OKLAHOMA</p> <hr/> <p>Ada KADA 1200 100</p> <p>Ardmore KVSQ 1200 100</p> <p>Elk City KASA 1210 100</p> <p>Enid †KCRC 1360 250</p> <p>Norman WNAD 1010 1000</p> <p>Oklahoma City KFJR 1310 100 KGGG 1370 100 †KOMA 1480 5000 C †WKY 900 1000 N</p> <p>Ponca City WBBZ 1200 100</p> <p>Shawnee KGF 1420 100</p> <p>Tulsa †KTUL 1400 500 C KVOO 1140 25000 N</p> <hr/> <p style="text-align: center;">OREGON</p> <hr/> <p>Astoria KAST 1370 100</p> <p>Corvallis KOAC 550 1000</p> <p>Eugene KORE 1420 100</p> <p>Klamath Falls KFJI 1210 100</p>	<p>Marshfield KOOS 1200 250</p> <p>Medford KMED 1310 100</p> <p>Portland KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 N KFJR 1300 500 KGW 620 1000 N KOIN 940 1000 C KWIJ 1040 500 KXL 1420 100</p> <p>Salem KSLM 1370 100</p> <hr/> <p style="text-align: center;">PENNSYLVANIA</p> <hr/> <p>Allentown WCBA 1440 500 WSAN 1440 500</p> <p>Altoona WFBG 1310 100</p> <p>Erie WLEU 1420 100</p> <p>Glenside WIBG 970 100</p> <p>Greensburg WHJB 620 250</p> <p>Grove City WSAJ 1310 100</p> <p>Harrisburg WHP 1430 500 C WKBO 1200 100</p> <p>Hazleton WAZL 1420 100</p> <p>Johnstown WJAC 1310 100</p> <p>Lancaster WGAL 1500 100 WKJC 1200 100</p> <p>Philadelphia KYW 1020 10000 R †WCAU 1170 50000 C WDAS 1370 100 WFIL 560 1000 B WHAT 1310 100 WIP 610 500 WPEN 920 250 WRAX 920 250 WTEL 1310 100</p> <p>Pittsburgh †KDKA 980 50000 B KOV 1380 500 WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100</p> <p>Reading WEEU 830 1000 WRAW 1310 100</p> <p>Scranton WGBI 880 500 WQAN 880 250</p> <p>Sunbury WKOK 1210 100</p> <p>Wilkes-Barre WBAX 1210 100 WBRE 1310 100</p> <p>Williamsport WRAK 1370 100</p> <p>York WORK 1320 1000</p> <hr/> <p style="text-align: center;">PUERTO RICO</p> <hr/> <p>Ponce WPRP 1420 100</p> <p>San Juan WKAQ 1240 1000 WNEL 1290 500</p>
--	--	--	---

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p style="text-align: center;">NOVA SCOTIA</p> <p>Glace Bay VAS 685 2000</p> <p>Halifax CHNS 930 1000 F</p> <p>Sydney CJCB 1240 1000 F</p> <p>Wolfville CKIC 1010 50</p> <p>Yarmouth CJLS 1310 100</p>	<p>Montreal CFCP 600 400 N CHLP 1120 100 CKAC 730 5000 C CRCM 910 5000 F</p> <p>New Carlisle CHNC 1410 500 F</p> <p>Quebec CHRC 580 100 F CKCV 1310 100 F CRCK 1050 1000 F</p>	<p>Ensenada XEG 1270 500</p> <p>Mexicali XEAA 920 200 XEAO 560 250</p> <p>Tijuana XEC 1270 50 XEFL 1150 5000 XEMO 865 2500 XEOK 765 2500</p>	<p style="text-align: center;">NUEVO LEON</p> <p>Monterrey XERB 1420 100 XERI 1230 100 XEH 1150 250 XET 690 500 XEX 1310 125</p>
<p style="text-align: center;">ONTARIO</p> <p>Brantford CKPC 930 100 F</p> <p>Chatham CFCO 630 100 F</p> <p>Cobalt CKMC 1210 50</p> <p>Fort William CKPR 930 100 F</p> <p>Hamilton CHML 1010 50 F CKOC 1120 500 F</p> <p>Kingston CFRC 1510 100</p> <p>Kirkland Lake CJKL 530 1000</p> <p>London CFPL 730 100 F</p> <p>North Bay CFCH 930 100 F</p> <p>Ottawa CKCO 1010 100 CRCO 880 1000 F</p> <p>Prescott CFCL 930 100</p> <p>St. Catharines CKTB 1200 100 F</p> <p>Sault Ste. Marie CJJC 890 100</p> <p>Stratford CJCS 1210 50</p> <p>Sudbury CKSO 780 1000</p> <p>Timmins CKGB 1420 100</p> <p>Toronto CFRB 690 10000 C CKCL 580 100 F CKNC 1420 100 F CRCT 840 5000 N</p> <p>Waterloo CKCR 1510 100</p> <p>Windsor CKLW 1030 5000 CRCW 600 500 F</p> <p>Wingham CKNX 1200 50</p>	<p style="text-align: center;">SASKATCHEWAN</p> <p>Moose Jaw CHAB 1200 100 F CJRM 540 1000 F</p> <p>Prince Albert CKBI 1210 100 F</p> <p>Regina CHWC 1010 500 F CKCK 1010 500 F</p> <p>Saskatoon CFQC 840 1000 F</p> <p>Yorkton CJGX 630 500 F</p>	<p style="text-align: center;">CHIHUAHUA</p> <p>Chihuahua XEPI 1440 250</p> <p>Juarez XEFV 1210 100 XEJ 1020 1250</p>	<p style="text-align: center;">OAXACA</p> <p>Oaxaca XEAJ 1310 15</p>
<p style="text-align: center;">PRINCE EDWARD ISLAND</p> <p>Charlottetown CFCY 630 1000 F CHCK 1310 50 F</p> <p>Summerside CHGS 1450 50 F</p>	<p style="text-align: center;">NEWFOUNDLAND</p> <p>St. John's VOAC 1065 40 VOAS 940 100 VOGY 840 400 VONF 1190 5000 VOWR 681 500</p>	<p style="text-align: center;">COAHUILA</p> <p>Piedras Negras XELO 1110 10000 XEPN 590 50000</p> <p>Saltillo XELA 1240 50 XEOX 640 250</p> <p>Torreón XETB 1310 125</p>	<p style="text-align: center;">PUEBLA</p> <p>Puebla XETH 1210 100</p>
<p style="text-align: center;">QUEBEC</p> <p>Chicoutimi CRCS 950 100 F</p> <p>Hull CKCH 1210 100 F</p> <p>Montmagny VE9EK 1185 10</p>	<p style="text-align: center;">MIQUELON</p> <p>St. Pierre FQN 609 250</p>	<p style="text-align: center;">D. F.</p> <p>Mexico City XEAI 1240 100 XEB 1030 10000 XECW 1310 10 XEFA 1180 500 XEFG 1100 250 XEFO 940 5000 XEFZ 1370 100 XEK 990 100 XELC 740 100 XEMX 1280 12 XEN 710 1000 XEO 940 5000 XEP 840 500 XETW 820 500 XEW 890 50000 XEWZ 1150 100 XEXX 845 500 XEYZ 780 10000 XFX 610 1000</p>	<p style="text-align: center;">SAN LUIS POTOSI</p> <p>San Luis Potosi XEZZ 1370 100</p>
<p style="text-align: center;">COSTA RICA</p> <p>Cartago TIFS 1441 7.5 TIGA 1014 30</p> <p>San Jose TIEP 850 500 TIFA 1050 75 TIGH 1000 500 TIRC 1100 75 TIRH 930 50</p>	<p style="text-align: center;">GUATEMALA</p> <p>Guatemala City TGW 565 10000 TGX 1400 150</p>	<p style="text-align: center;">VERACRUZ</p> <p>Jalapa XFB 1270 250</p> <p>Orizaba XFD 1340 350</p> <p>Veracruz XETF 1220 12 XEU 1010 250</p>	<p style="text-align: center;">SONORA</p> <p>Nogales XEAF 980 250</p>
<p style="text-align: center;">YUCATAN</p> <p>Merida XEFC 1310 100 XEZ 630 500</p>	<p style="text-align: center;">EL SALVADOR</p> <p>San Salvador RDN 706 500</p>	<p style="text-align: center;">WEST INDIES</p> <p style="text-align: center;">CUBA</p> <p>Caibarien CMHD 1270 250</p> <p>Camaguey CMJC 1390 150 CMJE 1220 50 CMJF 1150 200 CMJG 1010 50 CMJK 780 150 CMJL 1340 75</p> <p>Cardenas CMGE 1370 50</p> <p>Ciego de Avila CMJH 1360 50 CMJI 1130 50 CMJO 1180 50</p> <p>Cienfuegos CMHJ 1160 100 CMHW 810 100</p>	<p style="text-align: center;">TAMAULIPAS</p> <p>Nuevo Laredo XEAM 960 50 XEPE 920 250 XENT 910 60000</p> <p>Reynosa XEAW 960 10000</p> <p>Tampico XEFV 1310 250 XEMA 1080 50 XES 990 250</p>
<p style="text-align: center;">MEXICO</p> <p style="text-align: center;">AGUASCALIENTES</p> <p>Aguascalientes XFC 810 350</p> <p style="text-align: center;">BAJA CALIFORNIA</p> <p>Agua Caliente XEBC 730 5000</p>	<p style="text-align: center;">GUANAJUATO</p> <p>Guanajuato XEAZ 1420 7</p> <p>Leon XEKL 1240 500</p> <p style="text-align: center;">JALISCO</p> <p>Guadalajara XEA 1060 125 XED 1160 500</p> <p style="text-align: center;">MICHOACAN</p> <p>Morelia XEI 1370 125</p>	<p style="text-align: center;">DURANGO</p> <p>Durango XEE 1210 50</p> <p>Mineral del Monte XELM 1310 15</p>	<p style="text-align: center;">YUCATAN</p>

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

CMHX 760 150 Colon	CMCB 1230 100 CMCD 960 200	CMW 600 1000 CMX 920 500	Santiago CMKC 1250 150 CMKD 1050 250 CMKR 1400 200 CMKV 1190 50
CMGI 1420 50 Cruces	CMCF 815 250 CMCG 1255 150	Holquin CMKF 1460 50	DOMINICAN REPUBLIC
CMHK 1330 250 Guantanamo	CMCJ 1200 350 CMCN 1500 150	Manzanillo CMKM 1120 50	
CMKJ 1300 20 Havana	CMCO 1110 150 CMCQ 1270 150	Matanzas CMG 1400 100 CMGF 1120 100	San Pedro de Macoris HHH 1395 15
CMAF 730 250 CMBC 940 200	CMCQ 680 250 CMCR 1410 150	CMGH 1040 15 Moron CMJP 1430 100	Santo Domingo HIJ 1195 15 HIX 1270 1000 HIZ 1300 10
CMBD 1170 150 CMBG 1140 300	CMCU 1280 150 CMCW 750 125	Sagua la Grande CMHA 1070 50	HAITI
CMBN 880 150 CMBX 770 120	CMCX 660 150 CMCY 1030 1000	San Spiritus CMHB 1240 50	Port-au-Prince HHK 920 1000
CMBZ 1380 150 CMBY 640 125	CMO 1060 1500 CMOA 790 75	Santa Clara CMHI 1210 150	
CMBZ 1000 150 CMC 835 500 CMCA 1350 450	CMOK 1470 200 CMOX 1320 250 CMQ 840 500		

NORTH AMERICAN B. C. STATIONS BY CALLS

CFAC 930 100 Calgary, Alta. Calgary Herald, Southam Bldg.	CHWC 1010 500 Regina, Sask. R. H. Williams & Sons, Kitchener Hotel
CFCF 600 400 Montreal, Que. Mt. Royal Hotel	CHWK 780 100 Chilliwack, B. C. Wellington Ave.
CFCH 930 100 North Bay, Ont. Capitol Theatre Bldg.	CJAT 910 250 Trail, B. C. Kootenay Brdsg. Co.
CFCN 1030 10000 Calgary, Alta. Toronto Gen. Trust Bldg.	CJCA 730 1000 Edmonton, Alta. 10122-100A St.
CFCO 630 100 Chatham, Ont. Wm. Pitt Hotel	CJCB 1240 1000 Sydney, N. S. 318 Charlotte St.
CFCT 1450 75 Victoria, B. C. 620 View St.	CJCY 690 100 Calgary, Alta. New Albertan Bldg.
CFCY 630 1000 Charlottetown, P.E.I. 143 Great George St.	CJCS 1210 50 Stratford, Ont. M. I. Higgins, 151 Ontario St.
CFJC 880 100 Kamloops, B. C. Wilcox-Hall Bldg.	CJCU 1210 50 Aklavik, N. W. T. Dr. J. A. Urquhart, Dept. of Interior
CFLC 930 100 Prescott, Ont. Hoy Bldg., 307 George St.	CJGX 630 500 Yorkton, Sask. 188 Gran Exchange Bldg. (Winnipeg)
CFNB 550 500 Fredericton, N. B. York St.	CJIC 890 100 S. Ste. Marie, Ont. Windsor Hotel
CFPL 730 100 London, Ont. Richmond St.	CJKL 530 1000 Kirkland Lake, Ont. O. J. Thorpe
CFPR 580 50 Prince Rupert, B. C. Felix E. Batt	CJLS 1310 100 Yarmouth, N. S. Laurie L. Smith, Grand Hotel
CFQC 840 1000 Saskatoon, Sask. 216 First Ave., No.	CJOC 1230 100 Lethbridge, Alta. Marquis Hotel
CFRB 690 10000 Toronto, Ont. 37 Bloor St. W.	CJOR 600 500 Vancouver, B. C. G. C. Chandler, Hotel Grosvenor
CFRC 1510 100 Kingston, Ont. Queens University, Fleming Hall	CJRC 1390 100 Winnipeg, Man. Royal Alexandra Hotel
CFRN 1260 100 Edmonton, Alta. Birks Bldg.	CJRM 540 1000 Moose Jaw, Sask. 311 Main St. No.
CHAB 1200 100 Moose Jaw, Sask. P. O. Box 26	CKAC 730 5000 Montreal, Que. 980 St. Catherine St. W.
CHCK 1310 50 Charlottetown, P.E.I. 36 Upper Hillsboro St.	CKBI 1210 100 Prince Albert, Sask. Canada Bldg.
CHGS 1450 50 Summerside, P.E.I. 190 Water St.	CKCD 1010 100 Vancouver, B. C. 142 Hastings St. W.
CHLP 1120 100 Montreal, Que. Sun Life Bldg.	CKCH 1210 100 Hull, Que. Standish Hall Hotel
CHML 1010 50 Hamilton, Ont. Pigott Bldg.	CKCK 1010 500 Regina, Sask. 1853 Hamilton St.
CHNC 1410 500 New Carlisle, Que. Gaspelan Radio Brdsg. Co.	CKCL 580 100 Toronto, Ont. 444 University Ave.
CHNS 930 1000 Halifax, N. S. Lord Nelson Hotel	CKCO 1010 100 Ottawa, Ont. 272 Somerset St. W.
CHRC 580 100 Quebec, Que. CHRC, Ltd., Victoria Hotel	CKCR 1510 100 Waterloo, Ont. 24 King St. So.
CHSJ 1120 500 St. John, N. B. Admiral Beatty Hotel	CKCV 1310 100 Quebec, Que. 142 St. John St.

NORTH AMERICAN B. C. STATIONS BY CALLS

CKCW 1370 100	Moncton, N. B. Moncton Brdestg. Co., Ltd., K. of P. Hall
CKFC 1410 50	Vancouver, B. C. Hemlock & 12th Ave.
CKGB 1420 100	Timmins, Ont. R. H. Thompson, Press Bldg.
CKIC 1010 50	Wolfville, N. S. Acadia University
CKLW 1030 5000	Windsor, Ont. Guaranty Trust Bldg.
CKMC 1210 50	Cobalt, Ont. R. L. MacAdam
CKMO 1410 100	Vancouver, B. C. 1604 Bekins Bldg.
CKNC 1420 100	Toronto, Ont. 805 Davenport Road
CKNX 1200 50	Wingham, Ont. Wingham Radio Club
CKOC 1120 500	Hamilton, Ont. Wentworth Bldg.
CKOV 630 100	Kelowna, B. C. Okanagan Broadcasters, Ltd., Box 243
CKPC 930 100	Brantford, Ont. Arcade Bldg.
CKPR 930 100	Fort William, Ont. Royal Edward Hotel
CKSO 780 1000	Sudbury, Ont. W. E. Mason, Grand Theatre Bldg.
CKTB 1200 100	St. Catharines, Ont. E. T. Sandell, Welland House
CKUA 580 500	Edmonton, Alta. University of Alberta
CKWX 1010 100	Vancouver, B. C. Hotel Georgia
CKX 1120 100	Brandon, Man. Rosser Ave.
CKY 960 15000	Winnipeg, Man. Sherbrooke St.
CMAF 730 250	Havana, Cuba 1 y 8 Rept. Miramar
CMBC 940 200	Havana, Cuba Domingo Fernandez, Maximo Gomez No. 139
CMBD 1170 150	Havana, Cuba Luis Perez Garcia, Calle 17 No. 3, Vedado
CMBG 1140 300	Havana, Cuba John L. Stowers, Hospital No. 100
CMBN 880 150	Havana, Cuba Pozos Dulce No. 3
CMBS 770 120	Havana, Cuba Calzada y H. St., Vedado
CMBX 1380 150	Havana, Cuba Alberto Alvarez, San Miguel 194
CMBY 640 125	Havana, Cuba Infanta 132 Callejas Estefani
CMCZ 1000 150	Havana, Cuba Manuely G. Salas, San Rafael No. 14
CMC 835 500	Havana, Cuba Agula y Dragones
CMCA 1350 450	Havana, Cuba Galiano No. 102
CMCB 1230 100	Havana, Cuba O'Reilly y Aguacate
CMCD 960 200	Havana, Cuba Calle G y 25, Vedado
CMCF 815 250	Havana, Cuba Cuban Brdestg. Co., Paseo de Marti No. 9
CMCG 1255 150	Havana, Cuba Malecon No. 340 Altos
CMCJ 1200 350	Havana, Cuba Rafael Rodriguez, Estevez No. 4
CMCK 1320 100	Havana, Cuba Manuel Autran G., Vedado

CMCN 1500 150	Havana, Cuba Reina y Ave. Buen Retiroe, Marianao
CMCO 1110 150	Havana, Cuba Oficios 116, Enrique Lasanta
CMCP 1270 150	Havana, Cuba Calzada de Luyane No. 132
CMCQ 680 250	Havana, Cuba Vista Alegre No. 80, Vibora
CMCR 1410 150	Havana, Cuba Milagros No. 35, Vibora
CMCU 1280 150	Havana, Cuba San Francisco No. 13, Vibora
CMCW 750 125	Havana, Cuba San Lazaro No. 113
CMCX 660 150	Havana, Cuba Maceo No. 7, Guanabacoa
CMCY 1030 1000	Havana, Cuba Manuel D. Autran, Calle G 215, Vedado
CMGC 1400 100	Matanzas, Cuba Independencia No. 56
CMGE 1370 50	Cardenas, Cuba Genaro Sebater, Cespedes No. 180
CMGF 1120 100	Matanzas, Cuba G. Betancourt No. 51
CMGH 1040 15	Matanzas, Cuba B. Byrne No. 113
CMGI 1420 50	Colon, Cuba Armando Lizama Mart No. 35
CMHA 1070 50	Sagua Grande, Cuba Abelardo Menocal, Carrillo No. 31
CMHB 1240 50	San Spiritus, Cuba Independencia No. 33
CMHD 1270 250	Caibarien, Cuba Manuel Alvarez, M. Escobar 17
CMHI 1210 150	Santa Clara, Cuba Lavis y Paz, Independencia No. 34
CMHJ 1160 100	Cienfuegos, Cuba Romouaide Ugalde, Sta. Elena 184
CMHK 1330 250	Cruces, Cuba Heredia No. 61
CMHW 810 100	Cienfuegos, Cuba Arguelles No. 200, Ramon Gonzales
CMHX 760 150	Cienfuegos, Cuba F. Chavarry, Castillo 168
CMJC 1390 150	Camaguey, Cuba Cisneros y G. Gomez
CMJE 1220 50	Camaguey, Cuba Manuel Fernandez, Etnos. Aguerre No. 2
CMJF 1150 200	Camaguey, Cuba John L. Stowers, Republica No. 88
CMJG 1010 50	Camaguey, Cuba Maceo No. 1, Rafael Valdes
CMJH 1360 50	Ciego de Avila, Cuba Luis Marauri, H. Castilla 37
CMJI 1130 50	Ciego de Avila, Cuba Gilberto Gessa Lopez, Independencia 95
CMJK 780 150	Camaguey, Cuba Cla. Nacional de Radio, Finlay No. 3
CMJL 1340 75	Camaguey, Cuba M. Caymares, Republica 181
CMJO 1180 50	Ciego de Avila, Cuba C. Central & Maceo
CMJP 1430 100	Moron, Cuba Cesar Canall, Callejas No. 28
CMK 1060 1500	Havana, Cuba Hotel Plaza
CMKC 1250 150	Santiago, Cuba J. A. Saco, Alta 23
CMKD 1050 250	Santiago, Cuba Ceida y Marte
CMKF 1460 50	Holquin, Cuba Libertad esq. Arias

NORTH AMERICAN B. C. STATIONS BY CALLS

CMKJ 1300 20 Guantanamo, Cuba Luis Morlote, East Giro 11	KDB 1500 100 Santa Barbara, Calif. 15-17 E. Haley St.
CMKM 1120 50 Manzanillo, Cuba Merchan P. Figeredo	KDFN 1440 500 Casper, Wyo. Donald Lewis Hathaway
CMKR 1400 200 Santiago, Cuba B. Maso alta 71	KDKA 980 50000 Pittsburgh, Pa. Hotel Wm. Penn
CMKV 1190 50 Santiago, Cuba Oscar Vidal, Palma Soriano	KDLR 1210 100 Devils Lake, N. D. KDLR, Inc., 1025 3rd Street
CMOA 790 75 Havana, Cuba Juan Fernandez, Aguilar 126 Altes	KDYL 1290 1000 Salt Lake City, Utah Ezra Thompson Bldg.
CMOK 1470 200 Havana, Cuba Rafael Valdez, Marques Gonzales 52	KECA 1438 1000 Los Angeles, Calif. 1000 S. Hope St.
CMOX 1320 250 Havana, Cuba 10 entre 17 y 19, Vedado	KEHE 780 500 Los Angeles, Cal. 214 S. Vermont St.
CMQ 840 500 Havana, Cuba 25 Numero 445, Vedado	KELD 1370 100 El Dorado, Ark. T. H. Barton
CMW 600 1000 Havana, Cuba Troneoso Gil, Prado 103	KELW 780 500 Burbank, Calif. 3702 Magnolia Park Blvd.
CMX 920 500 Havana, Cuba Casa "Lavin," Ave. del a Republica 99A	KERN 1370 100 Bakersfield, Calif. Elk's Club
CRCK 1050 1000 Quebec, Que. Chateau Frontenac Hotel	KEX 1180 5000 Portland, Ore. Oregonian Bldg.
CRCM 910 5000 Montreal, Que. 1231 St. Catherine St. W.	KFAB 770 10000 Lincoln, Neb. Cornhusker Hotel
CRCO 880 1000 Ottawa, Ont. Chateau Laurier Hotel	KFAC 1300 1000 Los Angeles, Calif. E. L. Cord, 645 So. Mariposa
CRCS 950 100 Chicoutimi, Que. 4 Rue Larouche	KFBB 1280 1000 Great Falls, Mont. Buttrety Broadcast., Inc.
CRCT 840 5000 Toronto, Ont. 805 Davenport Road	KFBI 1050 5000 Abilene, Kans. Box 345
CRCV 1100 1000 Vancouver, B. C. C. N. R. Station Bldg.	KFBK 1490 5000 Sacramento, Calif. Sacramento Bee
CRCW 600 500 Windsor, Ont. Guaranty Trust Bldg.	KFDM 560 500 Beaumont, Texas Beaumont Hotel, P. O. Box 2950
FQN 609 250 St. Pierre, Miq.	KFDY 780 1000 Brookings, S. D. South Dakota State College
HHK 920 1000 Port-au-Prince, Haiti Haitian Government	KFEL 920 500 Denver, Colo. Albany Hotel
HHH 1395 15 San Pedro de M., D.R. Domingo Dominguez	KFEQ 680 2500 St. Joseph, Mo. Schneider Bldg., KFEQ, Inc.
HIJ 1195 15 Santo Domingo, D.R. Tuto Baez, Hostos 34	KFGQ 1370 100 Boone, Iowa 924 W. 2nd St.
HIX 1270 1000 Santo Domingo, D.R. J. R. Saladin, Director General	KFH 1309 1980 Wichita, Kans. 124 1/2 S. Market St.
HIZ 1300 10 Santo Domingo, D.R. Abbes and Garcia	KFI 640 50000 Los Angeles, Calif. 1000 S. Hope St.
KABC 1420 100 San Antonio, Texas Texas Theatre Bldg.	KFIO 1120 100 Spokane, Wash. 213 Riverside Ave.
KABR 1420 100 Aberdeen, S. Dak. Aberdeen Broadcast Co.	KFIZ 1420 100 Fond du Lac, Wis. 18 W. 1st St.
KADA 1200 100 Ada, Okla. C. C. Morris	KFJB 1200 100 Marshalltown, Iowa 1603 W. Main St.
KALB 1420 100 Alexandria, La. Alexandria Brdestg. Co.	KFJI 1210 100 Klamath Falls, Ore. KFJI Broadcasters, Inc., Willard Hotel
KALE 1300 500 Portland, Ore. Kale, Inc., New Heathman Hotel	KFJM 1370 100 Grand Forks, N. D. University of North Dakota
KARK 890 250 Little Rock, Ark. N. S. L. Bldg.	KFJR 1300 500 Portland, Ore. 622 Lumberman's Bldg.
KASA 1210 100 Elk-City, Okla. E. M. Woody, Casa Grande Hotel	KFJZ 1370 100 Fort Worth, Texas Texas Hotel
KAST 1370 100 Astoria, Ore. Abraham Shapiro	KFKA 880 500 Greeley, Colo. Box 735
KBPS 1420 100 Portland, Ore. E. 12th & Hoyt Sts.	KFKU 1220 1000 Lawrence, Kans. University of Kansas
KBTM 1200 100 Jonesboro, Ark. Jay P. Beard	KFNF 890 500 Shenandoah, Iowa 407 Sycamore St.
KCMC 1420 100 Texarkana, Ark. Box 865	KFOR 1210 100 Lincoln, Neb. Howard Shuman, Hotel Lincoln
KCRC 1360 250 Enid, Okla. Enid Radiophone Co., Oxford Hotel	KFOX 1250 1080 Long Beach, Calif. 220 E. Anaheim St.
KCRJ 1310 100 Jerome, Ariz. Chas. C. Robinson, Drawer D.	KFPL 1310 100 Dublin, Texas C. C. Baxter, Box 176

NORTH AMERICAN B. C. STATIONS BY CALLS

KFPW 1210	100	Fort Smith, Ark.	KGFI 1500	100	Corpus Christi, Texas
Goldman Hotel			Eagle Broadcasting Co., Inc., P. O. Box 1508		
KFPY 890	1000	Spokane, Wash.	KGFL 1200	100	Los Angeles, Calif.
Symons Bldg.			Ben S. McGlashan, 1417 S. Figueroa.		
KFQD 780	250	Anchorage, Alaska	KGFK 1500	100	Moorhead, Minn.
411—4th Ave.			722 Center Ave.		
KFRC 610	1000	San Francisco, Calif.	KGFL 1370	100	Roswell, N. M.
1000 Van Ness Ave.			KGFL, Inc., 507 N. Main St.		
KFRO 1370	100	Longview, Texas	KGFW 1310	100	Kearney, Neb.
Voice of Longview			Midway Hotel		
KFRU 630	500	Columbia, Mo.	KGFX 630	200	Pierre, S. D.
KFRU, Inc., 9th and			Dana McNeil, 510 Summit Ave.		
KFSD 600	1000	San Diego, Calif.	KGGC 1420	100	San Francisco, Calif.
U. S. Grant Hotel			230 Eddy St.		
KFSG 1120	1000	Los Angeles, Calif.	KGGF 1010	1000	Coffeyville, Kans.
1100 Glendale Blvd.			Coffeyville Journal Bldg.		
KFUH 1210	100	Del Monte, Calif.	KGGM 1230	250	Albuquerque, N. M.
Richard F. Lewis			Franciscan Hotel		
KFUO 550	500	St. Louis, Mo.	KGHF 1320	500	Pueblo, Colo.
801 De Mun St.			C. P. Ritchie, 113 Broadway		
KFVD 1000	250	Los Angeles, Calif.	KGHI 1200	100	Little Rock, Ark.
E. L. Cord, 645 S. Mariposa			Arkansas Brdcastg. Co., Marion Hotel		
KFVS 1210	100	Cape Girardeau, Mo.	KGHL 780	1000	Billings, Mont.
Oscar C. Hirsch, Box 275			5th & N. Broadway		
KFWB 950	1000	Hollywood, Calif.	KGIR 1340	1000	Butte, Mont.
Warner Bros. Motion Pictures, Inc.			KGIR, Inc., 121 W. Broadway		
KFXD 1200	100	Nampa, Idaho	KGIW 1420	100	Alamosa, Colo.
Frank E. Hurt, 1024 12th Ave., S.			Leonard E. Wilson, 326 N. Commercial		
KFXJ 1200	100	Grand Jct., Colo.	KGKB 1500	100	Tyler, Texas
Hillcrest Manor			115 S. College		
KFXM 1210	100	San Bernardino, Calif.	KGKL 1370	100	San Angelo, Texas
California Hotel			KGKL, Inc., St. Angelus Hotel		
KFXR 1310	100	Oklahoma City, Okla.	KGKO 1240	1000	Wichita Falls, Texas
541 Hightower Bldg.			9th St. & Indiana Ave.		
KFYO 1310	100	Lubbock, Texas	KGKY 1500	100	Scottsbluff, Neb.
Kirksey Bros., Hotel Lubbock			Hilliard Co., Inc., 1517 1/2 Broadway		
KFYR 550	1000	Bismarck, N. D.	KGMB 1320	1000	Honolulu, T. H.
320 Broadway			Honolulu Broadcasting Co., Box 2663		
KGA 1470	5000	Spokane, Wash.	KGNC 1410	1000	Amarillo, Texas
1023 W. Riverside Ave.			Plains Radio Brdcastg. Co.		
KGAR 1370	100	Tucson, Ariz.	KGNF 1430	1000	North Platte, Neb.
142 S. 6th Ave.			Great Plains Broadcasting Co., W. 12th St.		
KGB 1330	1000	San Diego, Calif.	KGNO 1340	250	Dodge City, Kans.
1012—1st St.			First Natl. Bank Bldg.		
KGBU 900	500	Ketchikan, Alaska	KGO 790	7500	San Francisco, Calif.
Mile 5. Wards Cove Rd.			111 Sutter St.		
KGBX 1230	500	Springfield, Mo.	KGU 750	2500	Honolulu, T. H.
KGBX, Inc., C. of C. Bldg.			Kapiolani at South St.		
KGBZ 930	1000	York, Neb.	KGVO 1260	1000	Missoula, Mont.
KGBZ Broadcasting Co., 715 Grant Ave.			Mosbys, Inc., 240 N. Higgins		
KGCA 1270	100	Decorah, Iowa	KGW 620	1000	Portland, Ore.
Charles W. Greenley, 201 Water St.			325 Adler St.		
KGCU 1240	250	Mandan, N. D.	KGY 1210	100	Olympia, Wash.
404 W. Main St.			KGY, Inc., 11th and Capitol Way		
KGCX 1310	100	Wolf Point, Mont.	KHJ 900	1000	Los Angeles, Calif.
E. E. Krebsbach			7th at Bixel		
KGDE 1200	100	Fergus Falls, Minn.	KHQ 590	1000	Spokane, Wash.
C. L. Jaren			Sprague Ave. & Post St.		
KGDM 1100	1000	Stockton, Calif.	KHSL 950	250	Chico, Calif.
E. F. Pettif, 42 S. Calif. St.			Golden Empire Brdcastg. Co.		
KGDY 1340	250	Huron, S. D.	KICA 1370	100	Clovis, N. M.
Voice of S. D., Inc., 347 Dakota Ave.			Southwest Broadcasting Co.		
KGEK 1200	100	Sterling, Colo.	KID 1320	250	Idaho Falls, Idaho
Elmer G. Beehler, 109 W. 2nd St.			Park Ave. & Broadway		
KGER 1360	1000	Long Beach, Calif.	KIDO 1350	1000	Boise, Idaho
435 Pine Ave.			Hotel Boise		
KGEZ 1310	100	Kalispell, Mont.	KIDW 1420	100	Lamar, Colo.
Donald C. Treloar, Box 1			Lamar Broadcasting Co., Box 688		
KGFF 1420	100	Shawnee, Okla.	KIEM 1210	100	Eureka, Calif.
9th & Bell Sts.			Redwood Brdcastg. Co., Vance Hotel		
KGFG 1370	100	Oklahoma City, Okla.	KIEV 850	250	Glendale, Calif.
Okl. Broadcasting Co., 1113 N. Broadway			Cannon System, Ltd., Glendale Hotel		

NORTH AMERICAN B. C. STATIONS BY CALLS

	KINY 1310 100 Juneau, Alaska Northwest Advertisng Co.		KOMA 1480 5000 Oklahoma City, Okla. Biltmore Hotel
	KIT 1310 100 Yakima, Wash. 109 1/2 E. Yakima Ave.		KOMO 920 1000 Seattle, Wash. Skinner Bldg.
	KIUJ 1310 100 Santa Fe, N. Mex. W. C. Irvin		KONO 1370 100 San Antonio, Texas Mission Broadcast. Co., St. Anthony Hotel
	KIUL 1210 100 Garden City, Kans. Garden City Brdstg. Co.		KOOS 1200 250 Marshfield, Ore. H. H. Hanseth, Hall Bldg.
	KIUN 1420 100 Pecos, Texas J. H. Hawkins & B. H. Hubbs		KORE 1420 100 Eugene, Ore. 733 Willamette St.
	KIUP 1370 100 Durango, Colo. C. Guy Shepard		KOTN 1500 100 Pine Bluff, Ark. Universal Brdstg. Corp., Hotel Pines
	KJBS 1070 500 San Francisco, Calif. 1380 Bush St.		KOY 1390 500 Phoenix, Ariz. 621 N. Central Ave.
	KJR 970 5000 Seattle, Wash. Skinner Bldg.		KPAC 1260 500 Port Arthur, Texas Port Arthur College
	KLCN 1290 100 Blytheville, Ark. C. L. Lintzenleh, Main and Division St.		KPCB 710 100 Seattle, Wash. Tower Bldg.
	KLO 1400 500 Ogden, Utah 405-25th St.		KPJM 1500 100 Prescott, Ariz. Scott & Sturm, P. O. Box 782
	KLPM 1240 250 Minot, N. D. John B. Cooley, Box 707		KPLC 1500 100 Lake Charles, La. Calcasieu Brdstg. Co.
	KLRA 1390 1000 Little Rock, Ark. Arkansas Broadcasting Co., Box 550		KPO 680 50000 San Francisco, Calif. 111 Sutter St.
	KLS 1440 250 Oakland, Calif. Warner Bros., 2201 Telegraph Ave.		KPOF 880 500 Denver, Colo. Pillar of Fire, 1845 Champa St.
	KLUF 1370 100 Galveston, Texas Geo. R. Clough, Buccaneer Hotel		KPPC 1210 50 Pasadena, Calif. 585 E. Colorado St.
	KLX 880 1000 Oakland, Calif. Tribune Tower		KPQ 1500 100 Wenatchee, Wash. KPQ Bldg.
	KLZ 560 1000 Denver, Colo. Shirley-Savoy Hotel		KPRC 920 1000 Houston, Texas 2204 Shell Bldg.
	KMA 930 1000 Shenandoah, Iowa Earl E. May Seed & Nursery Co.		KQV 1380 500 Pittsburgh, Pa. KQV Broadcasting Co., Investment Bldg.
	KMAC 1370 100 San Antonio, Texas W. W. McAllister, Blue Bonnet Hotel		KQW 1010 1000 San Jose, Calif. 87 E. San Antonio St.
	KMBC 950 1000 Kansas City, Mo. Piekwick Hotel		KRE 1370 100 Berkeley, Calif. 2345 Channing Way
	KMED 1310 100 Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg.		KREG 1500 100 Santa Ana, Calif. 3rd & Sycamore Sts.
	KMJ 580 1000 Fresno, Calif. Van Ness & Calaveras Sts.		KRGV 1260 500 Weslaco, Texas KRGV Inc.
	KMLE 1200 100 Monroe, La. Francis Hotel		KRKD 1120 1000 Los Angeles, Calif. 815 Spring Arcade Bldg.
	KMMJ 740 1000 Clay Center, Neb. The M. M. Johnson Co.		KRKO 1370 50 Everett, Wash. Lee Mudgett, 2814 Rucker Ave.
	KMO 1330 250 Tacoma, Wash. KMO, Inc., Hotel Winthrop		KRLC 1420 100 Lewiston, Idaho H. E. Studebaker
	KMOX 1090 50000 St. Louis, Mo. 401 S. 12th St.		KRLD 1040 10000 Dallas, Texas KRLD Radio Corp., Adolphus Hotel
	KMPC 710 500 Beverly Hills, Calif. 9631 Wilshire Blvd.		KRMD 1310 100 Shreveport, La. Jefferson Hotel
	KMTR 570 1000 Hollywood, Calif. KMTR Radio Corp., 915 N. Formosa Ave.		KRNT 1320 500 Des Moines, Iowa Des Moines Register Tribune
	KNOW 1500 100 Austin, Texas Norwood Building		KROC 1310 100 Rochester, Minn. Southern Minnesota Broadcasting Co.
	KNX 1050 50000 Hollywood, Calif. West. Broadcast Co., Inc., 1558 N. Vine St.		KROW -930 1000 Oakland, Calif. 1803 Franklin St.
	KOA 830 50000 Denver, Colo. General Electric Co., 1370 Krameria St.		KRSC 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club
	KOAC 550 1000 Corvallis, Ore. Oregon State Agricultural College		KSAC 580 500 Manhattan, Kans. State College of Agriculture
	KOB 1180 10000 Albuquerque, N. M. Albuquerque Journal, Box 667		KSCJ 1330 1000 Sioux City, Iowa Perkins Bros. Co., 415 Douglas St.
	KOH 1380 500 Reno, Nev. 440 N. Virginia St.		KSD 550 1000 St. Louis, Mo. 12th & Olive Sts.
	KOIL 1260 1000 Council Bluffs, Iowa Mona Meter Oil Co.		KSEI 900 250 Pocatello, Idaho Radio Service Corp., 141 S. 6th Ave.
	KOIN 940 1000 Portland, Ore. KOIN, Inc., New Heathman Hotel		KSFO 560 1000 San Francisco, Calif. 5th & Mission Sts.
	KOL 1270 1000 Seattle, Wash. Northern Life Tower		KSL 1130 50000 Salt Lake City, Utah Vermont Bldg.

NORTH AMERICAN B. C. STATIONS BY CALLS

KSLM	1370	100	Salem, Ore. Oregon Radio, Inc.
KSO	1430	250	Des Moines, Iowa Des Moines Register & Tribune
KSOO	1110	2500	Sioux Falls, S. D. Sioux Falls Brdstr. Assn., Carpenter Hotel
KSTP	1460	10000	St. Paul, Minn. St. Paul Hotel
KSUN	1200	100	Lowell, Ariz. Copper Electrical Co., Drawer C
KTAR	620	1000	Phoenix, Ariz. 116 N. Central Ave.
KTAT	1240	1000	Fort Worth, Texas Ft. Worth Natl. Bank Bldg.
KTBS	1450	1000	Shreveport, La. Box 1642
KTFI	1240	1000	Twin Falls, Idaho Radio Broadcasting Corp., Box 521
KTHS	1060	10000	Hot Springs, Ark. Chamber of Commerce, Box 886
KTRB	740	250	Modesto, Calif. McTammany & Bates
KTRH	1290	1000	Houston, Texas KTRH Broadcasting Co., Rice Hotel
KTSA	550	1000	San Antonio, Texas Southwest Broadcasting Co., Plaza Hotel
KTSM	1310	100	El Paso, Texas P. O. Box 1976
KTUL	1400	500	Tulsa, Okla. National Bank of Tulsa Bldg.
KTW	1220	1000	Seattle, Wash. 77th Ave. & Spring St.
KUJ	1370	100	Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel
KUMA	1420	100	Yuma, Ariz. Dr. A. H. Schermann, Box 267
KUOA	1260	1000	Fayetteville, Ark. KUOA, Inc., Washington Hotel
KUSD	890	500	Vermillion, S. D. University of South Dakota
KVI	570	1000	Tacoma, Wash. W. R. Rust Bldg.
KVL	1370	100	Seattle, Wash. KVL, Inc., 6th and Virginia St.
KVOA	1260	500	Tucson, Ariz. Cons. Natl. Bank Bldg.
KVOD	920	500	Denver, Colo. Continental Oil Bldg.
KVOL	1310	100	Lafayette, La. Evangeline Brdstrg. Co.
KVOO	1140	25000	Tulsa, Okla. Wright Bldg.
KVOR	1270	1000	Colorado Spg., Colo. Mining Exchange Bldg.
KVOS	1290	100	Bellingham, Wash. 115 W. Magnolia St.
KVSO	1210	100	Ardmore, Okla. Ardmoreite Pub. Co., Inc.
KWBG	1420	100	Hutchinson, Kans. W. B. Greenwald
KWEA	1210	100	Shreveport, La. Spring & Fannin Sts., Times Pub. Co.
KWG	1200	100	Stockton, Calif. Medico-Dental Bldg.
KWJJ	1040	500	Portland, Ore. 622 S. W. Salmon St.
KWK	1350	1000	St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase
KWKC	1370	100	Kansas City, Mo. 9th & Main Sts.
KWKH	850	10000	Shreveport, La. Spring & Fannin Sts., Times Pub. Co.

KWLC	1270	100	Decorah, Iowa Luther College
KWSC	1220	1000	Pullman, Wash. State College of Washington
KWTN	1210	100	Watertown, S. D. Citizens Bank Bldg.
KWTO	560	5000	Springfield, Mo. KGBX Inc.
KWYO	1370	100	Sheridan, Wyo. Big Horn Brdstrg. Co.
KXA	760	250	Seattle, Wash. American Radio Tel. Co., 218 Bigelow Bldg.
KXL	1420	100	Portland, Ore. KXL Broadcasters, Multnomah Hotel
KXO	1500	100	El Centro, Calif. F. M. Bowles, Box 140
KXRO	1310	100	Aberdeen, Wash. KXRO, Inc., Hotel Morek
KXYZ	1440	1000	Houston, Texas Fannin & Rusk Sts.
KYA	1230	1000	San Francisco, Calif. 988 Market St.
KYW	1020	10000	Philadelphia, Pa. 1622 Chesnut Street
NAA	690	1000	Arlington, Va. United States Navy
RDN	706	500	San Salvador, E. S. Republic of El Salvador
TGW	565	10000	Guatemala, Gua. Gobierno de Guatemala
TGX	1400	150	Guatemala City
TIEP	850	500	San Jose, C. R.
TIFA	1050	75	San Jose, C. R.
TIFS	1441	7.5	Cartago, C. R.
TIGA	1014	30	Cartago, C. R.
TIGH	1000	500	San Jose, C. R.
TIRC	1100	75	San Jose, C. R. Perry Girtton, Apdo. 225
TIRH	930	50	San Jose, C. R.
VAS	685	2000	Glace Bay, N. S. Canadian Marconi Co., Ltd.
VESEK	1185	10	Montmagny, Que. J. A. Marquis, P. O. Box 52
VOAC	1065	40	St. John's, Nfld.
VOAS	940	100	St. John's, N. F. Ayre & Sons, Ltd., Water St.
VOGY	840	400	St. John's, N. F. Newfoundland Hotel
VONF	1190	5000	St. John's, N. F. Dominion Broadcasting Co., Ltd., Box 135
VOWR	681	500	St. John's, N. F. Wesley United Church, Box 157
WAAB	1410	500	Boston, Mass. 21 Brookline Ave.
WAAF	920	500	Chicago, Ill. Plamer House
WAAT	940	500	Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq.
WAAW	660	500	Omaha, Neb. Omaha Grain Exchange
WABC	860	50000	New York, N. Y. 485 Madison Ave.
WABI	1200	100	Bangor, Maine Community Brdstrg. Service

NORTH AMERICAN B. C. STATIONS BY CALLS

WABY 1370	100	Albany, N. Y. Strand Theatre Bldg.	WBRC 930	1000	Birmingham, Ala. Bankhead Hotel
WACO 1420	100	Waco, Texas Amicable Bldg.	WBRE 1310	100	Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main
WADC 1320	1000	Akron, Ohio Allen T. Simmons, P. O. Box 29	WBSO 920	500	Babson Park, Mass. Drawer B
WAGF 1370	100	Dothan, Ala. Houston Hotel	WBT 1080	50000	Charlotte, N. C. Station WBT, Inc., Wilder Bldg.
WAGM 1420	100	Presque Isle, Me. Arroostook Broadcasting Corp., Main St.	WBTM 1370	100	Danville, Va. Miller Bldg.
WAIM 1200	100	Anderson, S. C. Wilton E. Hall	WBZ 990	50000	Boston, Mass. Hotel Bradford
WAIU 640	500	Columbus, Ohio Deshler-Wallick Hotel	WBZA 990	1000	Springfield, Mass. Hotel Kimball
WALA 1380	500	Mobile, Ala. Pape Brdcastg. Corp., 106 St. Joseph St.	WCAC 600	500	Storrs, Conn. Connecticut State College
WALR 1210	100	Zanesville, Ohio First Trust & Savings Bank Bldg.	WCAD 1220	500	Canton, N. Y. St. Lawrence University
WAML 1310	100	Laurel, Miss. Southland Radio Corp., Box 26	WCAE 1220	1000	Pittsburgh, Pa. 6th Ave. & Smithfield St.
WAPI 1140	5000	Birmingham, Ala. Protective Life Bldg.	WCAL 1250	1000	Northfield, Minn. St. Olaf College
WARD 1400	500	Brooklyn, N. Y. 427 Flatbush Ave., Ext.	WCAM 1280	500	Camden, N. J. City of Camden, City Hall
WASH 1270	500	Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg.	WCAO 600	500	Baltimore, Md. 811 W. Lanvale St.
WATR 1190	100	Waterbury, Conn. WATR Co. Inc., 47 Grand St.	WCAP 1280	500	Asbury Park, N. J. Convention Hall
WAVE 940	1000	Louisville, Ky. WAVE, Inc., 1525 Brown Hotel	WCAT 1200	100	Rapid City, S. D. South Dakota State School of Mines
WAWZ 1350	500	Zarephath, N. J. Pillar of Fire	WCAU 1170	50000	Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut
WAZL 1420	100	Hazleton, Pa. Hazleton Broadcasting Service, Inc.	WCAX 1200	100	Burlington, Vt. 203 College St.
WBAA 890	1000	West Lafayette, Ind. Purdue University	WCAZ 1070	100	Carthage, Ill. 97 1/2 Adams St.
WBAL 1060	10000	Baltimore, Md. Lexington Bldg., Amer. Radio News Corp.	WCBA 1440	500	Allentown, Pa. B. Bryan Musselman, 39-41 10th St.
WBAP 800	50000	Fort Worth, Texas Blackstone Hotel	WCBD 1080	5000	Waukegan, Ill. 75 E. Wacker Drive, Chicago
WBAX 1210	100	Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.	WCBM 1370	100	Baltimore, Md. Keith Theatre Bldg.
WBBC 1400	500	Brooklyn, N. Y. 552-54 Atlantic Ave.	WCBS 1420	100	Springfield, Ill. WCBS, Inc., 208 1/2 S. 5th.
WBBL 1210	100	Richmond, Va. 1627 Monument Ave.	WCCO 810	50000	Minneapolis, Minn. Nicollet Hotel
WBBM 770	50000	Chicago, Ill. WBBM Broadcasting Corp., Wrigley Bldg.	WCFL 970	1500	Chicago, Ill. 666 Lake Shore Drive
WBRR 1300	1000	Brooklyn, N. Y. 124 Columbia Heights	WCBS 580	500	Charleston, W. Va. WOBU, Inc., Ruffner Hotel
WBZZ 1200	100	Ponca City, Okla. C. L. Carrell, 407 W. South Ave.	WCCK 1490	5000	Covington, Ky. 6th & Madison Sts.
WBCM 1410	500	Bay City, Mich. James E. Davidson, Hotel Wenonah	WCLO 1200	100	Janesville, Wis. 200 E. Milwaukee St.
WBEN 900	1000	Buffalo, N. Y. WBEN, Inc., Hotel Stadler	WCLS 1310	100	Joliet, Ill. WCLS, Inc., 301 E. Jefferson St.
WBEO 1310	100	Marquette, Mich. 146 W. Washington St.	WCMI 1310	100	Ashland, Ky. Ashland Broadcasting Co.
WBIG 1440	500	Greensboro, N. C. Box 408	WCNW 1500	100	Brooklyn, N. Y. Arthur Faske, 1525 Pitkin Ave.
WBNO 1200	100	New Orleans, La. Hotel New Orleans	WCOA 1340	500	Pensacola, Fla. San Carlos Hotel
WBNS 1430	500	Columbus, O. 33 N. High St.	WCOC 880	500	Meridian, Miss. Box 603
WBNX 1350	250	New York, N. Y. 260 E. 161st St.	WCOL 1210	100	Columbus, Ohio WCOL Inc., 30 N. High St.
WBOQ 860	50000	New York, N. Y. Atlantic Broadcasting Corp.	WCRW 1210	100	Chicago, Ill. Clinton R. White, 2756 Pine Grove Ave.
WBOW 1310	100	Terre Haute, Ind. Banks of Wabash, Inc., 19 Beach Block	WCSC 1360	500	Charleston, S. C. Francis Marlon Hotel
WBRR 1210	100	Red Bank, N. J. 63 Broad St.	WCSH 940	1000	Portland, Me. 579 Congress St.

NORTH AMERICAN B. C. STATIONS BY CALLS

WDAE 1220 1000 Tampa, Fla. Tampa Times Co., Tampa Terrace	WFBC 1300 1000 Greenville, S. C. Imperial Hotel
WDAF 610 1000 Kansas City, Mo. 1729 Grand Ave.	WFBE 1200 100 Cincinnati, Ohio WFBE, Inc., Hotel Sinton
WDAH 1310 100 El Paso, Texas Box 1976	WFBG 1310 100 Altoona, Pa. Gable Broadcasting Co., 12th Ave. & 13th St.
WDAS 1370 100 Philadelphia, Pa. WDAS Brdstg. Co., Inc., Broadwood Hotel	WFBL 1360 1000 Syracuse, N. Y. Onondaga Hotel
WDAY 940 1000 Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway	WFBM 1230 1000 Indianapolis, Ind. 48 Monument Circle
WDBJ 930 1000 Roanoke, Va. Times World Corp., P. O. Box 150	WFRB 1270 500 Baltimore, Md. 7 St. Paul St.
WDBO 580 1000 Orlando, Fla. 555 N. Orange Ave.	WFDF 1310 100 Flint, Mich. Union Industrial Bldg.
WDEL 1120 250 Wilmington, Del. WDEL, Inc., 10th and King Sts.	WFEA 1340 500 Manchester, N. H. Carpenter Hotel
WDEV 550 500 Waterbury, Vt. Harry C. Whitehill, Stowe St.	WFIL 560 1000 Philadelphia, Pa. WFIL Broadcasting Co., 801 Market
WDGY 1180 1000 Minneapolis, Minn. Dr. Geo. W. Young, 909 W. Broadway	WFLA 620 1000 Clearwater, Fla. Box 119
WDNC 1500 100 Durham, N. C. Washington Duke Hotel	WFMD 900 500 Frederick, Md. Monocacy Broadcasting Co.
WDOD 1280 1000 Chattanooga, Tenn. WDOD Broadcasting Corp., Hotel Patten	WGAL 1500 100 Lancaster, Pa. WGAL, Inc., 8 W. King St.
WDRC 1330 1000 Hartford, Conn. WDRC, Inc., Corning Bldg., 11 Asylum St.	WGAR 1450 500 Cleveland, Ohio WGAR Broadcasting Co., Hotel Statler
WDSU 1250 1000 New Orleans, La. WDSU Inc., Hotel Monteleone	WGBB 1210 100 Freeport, N. Y. H. H. Carman, 64 S. Grove St.
WDZ 1020 250 Tuscola, Ill. James L. Bush, Star Store Bldg.	WGBF 630 500 Evansville, Ind. 519 Vine St.
WEAF 660 50000 New York, N. Y. 30 Rockefeller Plaza	WGBI 880 500 Scranton, Pa. 116 N. Washington Ave.
WEAN 780 500 Providence, R. I. New Crown Hotel	WGCM 1120 500 Mississippi City Great Southern Golf Club
WEBC 1290 1000 Superior, Wis. Spaulding Hotel, Duluth, Minn.	WGES 1360 500 Chicago, Ill. 128 N. Crawford Ave.
WEBQ 1210 100 Harrisburg, Ill. 100 E. Popular St.	WGH 1310 100 Newport News, Va. 2813 Washington Ave.
WEBR 1310 100 Buffalo, N. Y. Howel Broadcasting Co., Inc., 735 Main	WGL 1370 100 Fort Wayne, Ind. F. C. Zieg, 213 W. Main St.
WEDC 1210 100 Chicago, Ill. Emil Denmark, 3860 Ogden Ave.	WGN 720 50000 Chicago, Ill. WGN, Inc., Tribune Tower
WEED 1420 100 Rocky Mount, N. C. Wm. Avera Wynne, Box 221	WGNV 1210 100 Chester, N. Y. Peter Goelst (Orange County)
WEEL 590 1000 Boston, Mass. 182 Tremont St.	WGPC 1420 100 Albany, Ga. Rylander Theatre Bldg.
WEEU 830 1000 Reading, Pa. Berks Broadcasting Co., 533 Penn.	WGR 550 1000 Buffalo, N. Y. Rand Bldg.
WEHC 1420 100 Charlottesville, Va. 7th & Main Sts.	WGST 890 500 Atlanta, Ga. Anstey Hotel
WEHS 1420 100 Cicero, Ill. WEHS, Inc., 6138 W. Cermak Rd.	WGY 790 50000 Schenectady, N. Y. 1 River Road
WELL 1420 100 Battle Creek, Mich. Enquirer News, 38 W. State St.	WHA 940 2500 Madison, Wis. University of Wisconsin
WENR 870 50000 Chicago, Ill. 222 N. Bank Drive	WHAM 1150 50000 Rochester, N. Y. 100 Carlson Road
WESG 850 1000 Elmira, N. Y. Mark Twain Hotel	WHAS 820 50000 Louisville, Ky. 300 W. Liberty St.
WEVD 1300 1000 New York, N. Y. Jewish Daily Forward, Hotel Claridge	WHAT 1310 100 Philadelphia, Pa. Public Ledger Bldg.
WEW 760 1000 St. Louis, Mo. St. Louis University, 221 N. Grand Blvd.	WHAZ 1300 500 Troy, N. Y. 8th St.
WEXL 1310 50 Royal Oak, Mich. 212 W. 6th St.	WHB 860 1000 Kansas City, Mo. WEBB Broadcasting Co., Scarritt Bldg.
WFAA 800 50000 Dallas, Texas Baker Hotel	WHBC 1200 100 Canton, Ohio Edw. P. Graham, 319 Tusc. St., W.
WFAB 1300 1000 New York, N. Y. Fifth Avenue Broadcasting Corp.	WHBF 1210 100 Rock Island, Ill. Hotel Harms
WFAM 1200 100 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.	WHBI 1250 1000 Newark, N. J. 100 Shipman St.
WFAS 1210 100 White Plains, N. Y. Hotel Roger Smith	WHBL 1410 500 Sheboygan, Wis. Press Publishing Co., Press Bldg.

NORTH AMERICAN B. C. STATIONS BY CALLS

WHBQ 1370 100 Memphis, Tenn. Brdestg. Sta. WNBQ, Inc., Hotel Claridge	WJAC 1310 100 Johnstown, Pa. WJAC, Inc., Locust St.
WHBU 1210 100 Anderson, Ind. Anderson Broadcasting Corp., Box 816	WJAG 1060 1000 Norfolk, Neb. Norfolk Daily News
WHBY 1200 100 Green Bay, Wis. WEBY, Inc., Bellin Bldg.	WJAR 890 500 Providence, R. I. Outlet Co., Weybosset St.
WHDF 1370 100 Calumet, Mich. Box 643	WJAS 1290 1000 Pittsburgh, Pa. Chamber of Commerce Bldg.
WHDH 830 1000 Boston, Mass. Matheson Radio Co., 62 Boylston	WJAX 900 1000 Jacksonville, Fla. City of Jacksonville
WHDL 1420 100 Olean, N. Y. Exchange Natl. Bank Bldg.	WJAY 610 500 Cleveland, Ohio 1224 Huron Road
WHEB 740 250 Portsmouth, N. H. Box 522, 39 Congress St.	WJBC 1200 100 Bloomington, Ill. Kaskaskia Broadcasting Co.
WHEC 1430 500 Rochester, N. Y. WHEC, Inc., 40 Franklin St.	WJBK 1500 100 Detroit, Mich. 6559 Hamilton Ave
WHEF 1500 100 Kosciusko, Miss. 417 W. Adams St.	WJBL 1200 100 Decatur, Ill. Gushard Bldg.
WHFC 1420 100 Cicero, Ill. WHFC, Inc., 6138 W. Cermak Road	WJBO 1420 100 Baton Rouge, La. Baton Rouge Broadcasting Co., Inc.
WHIO 1260 1000 Dayton, Ohio 39 S. Ludlow St.	WJBW 1200 100 New Orleans, La C. C. Carlson, Godchaux Bldg.
WHIS 1410 250 Bluefield, W. Va. Bland St.	WJBY 1210 100 Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St..
WHJB 620 250 Greensburg, Pa. Penn-Albert Hotel, 128 Pa. Ave.	WJDX 1270 1000 Jackson, Miss. Lamar Life Bldg.
WHK 1390 1000 Cleveland, Ohio 1311 Terminal Tower	WJEF 1210 100 Hagerstown, Md. Lovely Dame Bldg.
WHN 1010 1000 New York, N. Y. 1540 Broadway	WJIM 1210 100 Lansing, Mich. Capital City Brdestg. Co.
WHO 1000 50000 Des Moines, Iowa Central Brdestg. Co., 914 Walnut St.	WJJD 1130 20000 Chicago, Ill. WJJD, Inc., 201 N. Wells St.
WHOM 1450 250 Jersey City, N. J. 2870 Boulevard	WJMS 1420 100 Ironwood, Mich. WJMS, Inc., St. James Hotel
WHP 1430 500 Harrisburg, Pa. WHP, Inc., 216 Locust St.	WJR 750 50000 Detroit, Mich. WJR, Inc., Fisher Bldg.
WIBA 1280 1000 Madison, Wis. 111 King St.	WJSV 1460 10000 Washington, D. C. Earle Building
WIBG 970 100 Glenside, Pa. Seaboard Radio Brdestg. Corp.	WJTL 1370 100 Atlanta, Ga. Volunteer Life Bldg.
WIBM 1370 100 Jackson, Mich. WIBM, Inc., 306 W. Michigan Ave.	WJW 1210 100 Akron, Ohio WJW, Inc., 41 S. High St.
WIBU 1210 100 Poynette, Wis. Wm. C. Forrest, R. F. D. No. 3	WJZ 760 50000 New York, N. Y. 30 Rockefeller Plaza
WIBW 580 1000 Topeka, Kans. 11th & Topeka Blvd.	WKAQ 1240 1000 San Juan, P. R. Radio Corp. of Porto Rico, P. O. Box 358
WIBX 1200 100 Utica, N. Y. WIBX, Inc., 1st Natl. Bank Bldg.	WKAR 1040 1000 East Lansing, Mich. Michigan State College
WICC 600 500 Bridgeport, Conn. Southern Conn. Broadcasting Corp.	WKBB 1500 100 East Dubuque, Ill. Sanders Bros. Radio Station
WIL 1200 100 St. Louis, Mo. Melbourne Hotel	WKBH 1380 1000 LaCrosse, Wis. WKBH, Inc., 409 Main St
WILL 890 1000 Urbana, Ill. University of Illinois	WKBI 1420 100 Cicero, Ill. WKBI, Inc., 6138 W. Cermak Road
WILM 1420 100 Wilmington, Del. 920 King St.	WKBN 570 500 Youngstown, Ohio 17 N. Champion St.
WIND 560 1000 Gary, Ind. 504 Broadway	WKBO 1200 100 Harrisburg, Pa. Penn Harris Hotel
WINS 1180 1000 New York, N. Y. 110 E. 58th St., Hearst Radio, Inc.	WKBV 1500 100 Richmond, Ind. Knox Radio Corp., Box 308
WIOD 1300 1000 Miami, Fla. Herald Bldg., Metropolis Pub. Co.	WKBW 1480 5000 Buffalo, N. Y. Rand Bldg.
WIP 610 500 Philadelphia, Pa. Gimbel Bldg.	WKBZ 1500 100 Muskegon, Mich. Karl L. Ashbacher & Sons
WIRE 1400 500 Indianapolis, Ind. 540 N. Meridian St.	WKEU 1500 100 Griffin, Ga. Radio Station WKEU, 906 Hill St.
WIS 1010 500 Columbia, S. C. Station WIS, Inc., 1811 Main St.	WKJC 1200 100 Lancaster, Pa. 16 W. King St.
WISC 1310 100 Milwaukee, Wis. Milwaukee Brdestg. Co.	WKOK 1210 100 Sunbury, Pa. 1150 N. Front St.
WISN 1120 250 Milwaukee, Wis. 123 W. Michigan St., Hearst Radio, Inc.	WKRC 550 1000 Cincinnati, Ohio WKRC, Inc., Hotel Alms

NORTH AMERICAN B. C. STATIONS BY CALLS

WKY 900 1000	Oklahoma City, Okla. Plaza Court Bldg.
WKZO 590 1000	Kalamazoo, Mich. John E. Fetzer, Burdlek Hotel
WLAC 1470 5000	Nashville, Tenn. WLAC, Inc., 159—4th Ave., No.
WLAP 1420 100	Lexington, Ky. Main & Esplanade
WLB 1250 1000	Minneapolis, Minn. University of Minnesota
WLBC 1310 50	Muncie, Ind. D. A. Burton, Anthony Bldg.
WLBK 1420 100	Kansas City, Kans. WLBK Broadcasting Co., Huron Bldg.
WLBL 900 2500	Stevens Point, Wis. Wisconsin Dept. of Agriculture and Markets
WLBZ 620 500	Bangor, Me. Maine Broadcasting Co., Inc., 100 Main
WLEU 1420 100	Erie, Pa. Leo J. Omelian
WLLH 1370 100	Lowell, Mass. Merrimac Brdstg Co., Box D
WLNH 1310 100	Laconia, N. H. 523 Main St.
WLS 870 50000	Chicago, Ill. 1230 W. Washington Blvd.
WLTH 1400 500	Brooklyn, N. Y. 305 Washington St.
WLVA 1200 100	Lynchburg, Va. 915 Main St.
WLW 700 50000	Cincinnati, Ohio 1329 Arlington St.
WLWL 1100 5000	New York, N. Y. 415 W. 59th St.
WMAL 630 250	Washington, D. C. 712—11th St., N. W.
WMAQ 670 50000	Chicago, Ill. Merchandise Mart
WMAS 1420 100	Springfield, Mass. WMAS, Inc., 70 Chestnut St.
WMAZ 1180 1000	Macon, Ga. 211 Cotton Ave.
WMBK 1420 100	Detroit, Mich. 7310 Woodward Ave.
WMBD 1440 500	Peoria, Ill. 114 N. Madison St.
WMBG 1210 100	Richmond, Va. 914 W. Broad St.
WMBH 1420 100	Joplin, Mo. 1334 Roosevelt St.
WMBI 1080 5000	Chicago, Ill. 153 Institute Place
WMBO 1310 100	Auburn, N. Y. WMBO, Inc., Metcalf Bldg.
WMBQ 1500 100	Brooklyn, N. Y. Metropolitan Brdstg. Corp., 95 Leonard St.
WMBR 1370 100	Jacksonville, Fla. F. J. Reynolds, Carling Hotel
WMC 780 1000	Memphis, Tenn. WMC, Inc., Hotel Gayoso
WMCA 570 500	New York, N. Y. 1697 Broadway
WMEX 1500 100	Boston, Mass. The Northern Corp., Hotel Manger
WMFD 1370 100	Wilmington, N. C. Richard Austin Dunlea
WMFF 1310 100	Plattsburg, N. Y. Plattsburg Broadcasting Corp.
WMFG 1210 100	Hibbing, Minn. Head of the Lakes Brdstg. Co.
WMFH 1120 500	Boston, Mass. Joseph M. Kirby

WMFI 900 500	New Haven, Conn. Patrick J. Goode
WMFJ 1420 100	Daytona Beach, Fla. W. Wright Esch
WMFN 1210 100	Clarksdale, Miss. Attala Brdstg. Corp.
WMFO 1370 100	Decatur, Ala. James R. Doss, Jr.
WMFR 1200 100	High Point, N. C. Hart & Nelson
WMMM 890 500	Fairmount, W. Va. West Va. Brdstg. Corp., 325 Main St.
WMPC 1200 100	Lapeer, Mich. 81 Liberty St.
WMT 600 1000	Cedar Rapids, Iowa Hotel Montrose
WNAC 1230 1000	Boston, Mass. 21 Brookline Ave.
WNAD 1010 1000	Norman, Okla. University of Oklahoma
WNAX 570 1000	Yankton, S. D. House of Gurney, Inc., 2nd and Capital St.
WNBC 1380 250	New Britain, Conn. Wm. J. Sanders, 147 Main St.
WNBK 1500 100	Binghamton, N. Y. Arlington Hotel
WNBH 1310 100	New Bedford, Mass. 251 Union St.
WNBK 1430 500	Memphis, Tenn. Memphis Broadcasting Co., Hotel DeVoy
WNBX 1260 1000	Springfield, Vt. WNBX Broadcasting Corp., 39 Main St.
WNBZ 1290 100	Saranac Lake, N. Y. Smith & Mace, 70 Broadway
WNEL 1290 500	San Juan, P. R. Box 1252
WNEW 1250 1000	Newark, N. J. Wodaam Corp., 1060 Broad
WNOX 560 1000	Knoxville, Tenn. WNOX, Inc., Hotel Andrew Johnson
WNRA 1420 100	Muscle Shoals, Ala. Kathryn Jones, P. O. Box 486, Sheffield, Ala.
WNRI 1200 100	Newport, R. I. S. George Webb
WNYC 810 1000	New York, N. Y. Centre & Duane Sts.
WOAI 1190 50000	San Antonio, Texas Southland Industries, Inc., 103E Navarro
WOC 1370 100	Davenport, Iowa Palmer School of Chiropractic
WOCL 1210 50	Jamestown, N. Y. A. E. Newton, 840 N. Main St.
WOI 640 5000	Ames, Iowa Iowa State College
WOKO 1430 500	Albany, N. Y. WOKO, Inc., Hotel Ten Eyck
WOL 1310 100	Washington, D. C. American Broadcasting Co., Annapolis Hotel
WOMT 1210 100	Manitowoc, Wis. Francis M. Kadow, Box 326
WOOD 1270 500	Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg.
WOPI 1500 100	Bristol, Tenn. 22nd & State Sts.
WOR 710 50000	Newark, N. J. 147 Market St.
WORC 1280 500	Worcester, Mass. Alfred F. Kleindienst, 60 Franklin St.
WORK 1320 1000	York, Pa. York Broadcasting Co., 15 S. Beaver St.
WOS 630 500	Jefferson City, Mo. State Highway Control, Capitol Bldg.

NORTH AMERICAN B. C. STATIONS BY CALLS

WOSU 570 750 Columbus, Ohio Ohio State University	WSAI 1330 1000 Cincinnati, Ohio Crosley Radio Corp., 1329 Arlington
WOV 1130 1000 New York, N. Y. 132 West 43rd St.	WSAJ 1310 100 Grove City, Pa. Grove City College, 418 Popular St.
WOW 590 1000 Omaha, Neb. Woodmen of the World, 4th and Farnam	WSAN 1440 500 Allentown, Pa. WSAN, Inc., 39 10th St.
WOWO 1160 10000 Fort Wayne, Ind. Main Auto Supply Co., 213 W. Main	WSAR 1450 250 Fall River, Mass. Academy of Music Bldg.
WPAD 1420 100 Paducah, Ky. 2201 Broadway	WSAZ 1190 1000 Huntington, W. Va. WSAZ, Inc., P. O. Box 729
WPAR 1420 100 Parkersburg, W. Va. Ohio Valley Brdestg. Corp.	WSB 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St.
WPAX 1210 250 Thomasville, Ga. H. Wimpy, 135 E. Jackson St.	WSBC 1210 100 Chicago, Ill. Gene T. Dyer, 1258 S. Michigan Ave.
WPAY 1370 100 Portsmouth, Ohio F. P. Moler	WSBT 1360 500 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.
WPEN 920 250 Philadelphia, Pa. 22nd & Walnut Sts.	WSFA 1410 500 Montgomery, Ala. Jefferson Davis Hotel
WPFB 1370 100 Hattiesburg, Miss. Forest Brdestg. Co.	WSGN 1310 100 Birmingham, Ala. Ormond O. & Mary C. Black
WPG 1100 5000 Atlantic City, N. J. City of Atlantic City, Convention Hall	WSIX 1210 100 Springfield, Tenn. 638 Tire & Vulcanizing Co.
WPHR 880 500 Petersburg, Va. WLBG, Inc., Medical Arts Bldg.	WSJS 1310 100 Winston-Salem, N.C. Winston-Salem Journal Co., 416 N. Marshall
WPRO 630 250 Providence, R. I. Cherry & Webb Brdestg. Co., 15 Chestnut	WSM 650 50000 Nashville, Tenn. 301-7th Ave. No.
WPRP 1420 100 Ponce, P. R. Julio M. Conesa	WSMB 1320 1000 New Orleans, La. WSMB, Inc., Maison Blanche Bldg.
WPTF 680 1000 Raleigh, N. C. 324 Fayetteville St.	WSMK 1380 200 Dayton, Ohio WSMK, Inc., Loew Theatre Bldg.
WQAM 560 1000 Miami, Fla. Miami Brdestg. Co., Inc., 327 N.E. 1st Ave.	WSOC 1210 100 Charlotte, N. C. WSOC, Inc., Box 730
WQAN 880 250 Scranton, Pa. Scranton Times, 149 Penn Ave.	WSPA 920 1000 Spartanburg, S. C. Virgil V. Evans, Ravenel and Avant St.
WQBC 1360 1000 Vicksburg, Miss. Delta Broadcasting Co., Hotel Vicksburg	WSPD 1340 1000 Toledo, Ohio Toledo Broadcasting Co., 505 Jefferson
WQDM 1370 100 St. Albans, Vt. 42 N. Main St.	WSUI 880 500 Iowa City, Iowa State University of Iowa
WRAK 1370 100 Williamsport, Pa. WRAK, Inc., 244 W. 4th St.	WSUN 620 1000 St. Petersburg, Fla. Chamber of Commerce
WRAW 1310 100 Reading, Pa. Reading Broadcasting Co., 533 Penn St.	WSVA 550 500 Harrisonburg, Va. Shenandoah Valley Brdestg. Corp.
WRAX 920 250 Philadelphia, Pa. WRAX Broadcasting Co., 217 S. Broad St.	WSVS 1370 50 Buffalo, N. Y. 666 E. Delavan Ave.
WRBL 1200 100 Columbus, Ga. Royal Theatre Bldg.	WSYB 1500 100 Rutland, Vt. Philip Weiss Music Co., 80 West St.
WRBX 1410 250 Roanoke, Va. P. O. Box 2389	WSYR 570 250 Syracuse, N. Y. E. Onondaga & S. Warren Sts.
WRC 950 500 Washington, D. C. National Press Bldg.	WTAD 900 500 Quincy, Ill. Illinois Brdestg. Corp., State and 6th
WRDO 1370 100 Augusta, Me. WRDO, Inc., Augusta House	WTAG 580 500 Worcester, Mass. 18 Franklin St.
WRDW 1500 100 Augusta, Ga. Augusta Brdestg. Co., 309 8th St.	WTAL 1310 100 Tallahassee, Fla. Florida Capitol Broadcasters, Inc.
WREC 600 1000 Memphis, Tenn. WREC, Inc., Hotel Peabody	WTAM 1070 50000 Cleveland, Ohio 1367 E. 6th St.
WREN 1220 1000 Lawrence, Kans. WREN Brdestg. Co., 8th and Vermont St.	WTAQ 1330 1000 Eau Claire, Wis. Gillette Rubber Co., Hotel Eau Claire
WRGA 1500 100 Rome, Ga. 10 Third Ave.	WTAR 780 500 Norfolk, Va. WTAR Radio Corp., Wainwright Bldg.
WRJN 1370 100 Racine, Wis. Racine Broadcasting Corp., Hotel Racine	WTAW 1120 500 College Station, Tex. Agricultural and Mechanical College
WROK 1410 500 Rockford, Ill. 109 So. Water St.	WTAX 1210 100 Springfield, Ill. WTAX, Inc., 416 E. Capitol Ave.
WROL 1310 100 Knoxville, Tenn. Stuart Broadcasting Corp., 524 S. Gay	WTBO 800 250 Cumberland, Md. Associated Brdestg. Corp., Box 794
WRR 1280 500 Dallas, Texas City of Dallas, Southland Life Bldg.	WTCN 1250 1000 Minneapolis, Minn. Wesley Temple Bldg.
WRUF 830 5000 Gainesville, Fla. State University	WTEL 1310 100 Philadelphia, Pa. Broad & Erie Ave.
WRVA 1110 5000 Richmond, Va. Larus & Bros Co., Inc., 22nd and Gary St.	WTFI 1450 500 Athens, Ga. Liberty Brdestg. Co., 133 E. Washington St.

NORTH AMERICAN B. C. STATIONS BY CALLS

WTIC 1040 50000 Hartford, Conn. 26 Grove St.	XFEA 1180 500 Mexico City, D. F. Eduardo Ilmon Segul, Meditarraneo 236
WTJS 1310 100 Jackson, Tenn. Sun Publishing Co., Sun Bldg.	XEFB 1420 100 Monterrey, N. L. Jesus Quintanilla, P. O. Box 317
WTMJ 620 1000 Milwaukee, Wis. The Journal Co., 333 W. State St.	XEFC 1310 100 Merida, Yuc. J. Molina Font, Calle 59, 517
WTMV 1500 100 East St. Louis, Ill. Mississippi Valley Brdstg. Co.	XEFE 920 250 Laredo, Tams. R. T. Carranza, Km. 4 Carretera Laredo Mt
WTNJ 1280 500 Trenton, N. J. Trenton Brdstg. Co., Stacy Trent Hotel	XEFG 1100 250 Mexico City, D. F. Ricardo Gonzales Montero, Tepec 48
WTOC 1260 1000 Savannah, Ga. Savannah Brdstg. Co., De Soto Hotel	XEFI 1440 250 Chihuahua, Chih. Feliciano Lopez Isles, Ap. 157
WTRC 1310 50 Elkhart, Ind. Truth Pub. Co., Inc., Hotel Elkhart	XEFJ 1230 100 Monterrey, N. L. R. Junco de la Vega, P. O. Box 186
WVFW 1400 500 Brooklyn, N. Y. Paramount Brdstg. Co., 1 Nevins St.	XEFL 1150 500 Tijuana, B. C. (P. O. Box 6, San Diego, Calif.)
WWAE 1200 100 Hammond, Ind. 402 Hammond Bldg.	XEFO 940 5000 Mexico City, D. F. Reforma No. 137
WWC 1420 1000 Spartanburg, S. C. Virgil V. Evans, Ravenal & Avant St.	XEFV 1210 100 Jaurez, Chih. Cordova & Prieto, Ave. Ferrocaril 104
WWJ 920 1000 Detroit, Mich. Evening News Assn., 616 Lafayette Blvd.	XEFW 1310 250 Tampico, Tams. J. E. Martinez, Salvador Diaz Miron 6
WWL 850 10000 New Orleans, La. Loyola University, Roosevelt Hotel	XEFZ 1370 100 Mexico City, D. F. Manuel Zetina, Calzada Nonoalco 481
WWNC 570 1000 Asheville, N. C. Citizen Brdstg. Co., Inc., Flatiron Bldg.	XEG 1270 500 Ensenada, B. C. Juan C. Chavez
WWRL 1500 100 Woodside, N. Y. 4130-58th St.	XEH 1150 250 Monterrey, N. L. Tarnava y Cia, P. O. Box 147
WWSW 1500 100 Pittsburgh, Pa. Hotel Schenley	XEI 1370 125 Morelia, Mich. Carlos Gutierrez M., F. L. Madero 545
WWVA 1160 5000 Wheeling, W. Va. Hawley Bldg.	XEJ 1020 1250 Juarez, Chih. Juan G. Buttner, P. O. Box 111
WXYZ 1240 1000 Detroit, Mich. Macabees Bldg.	XEK 990 100 Mexico City, D. F. Arturo Martinez, Jalapa No. 51
WXBS 1530 1000 Waterbury, Conn. 61 Leavenworth St., Amer. Republican, Inc.	XEKL 1240 500 Leon, Guan. 5 de Mayo 26
WXZR 1550 1000 Long Island City, N. Y. Scientific Brdstg. Serv., 41 Park Row, N. Y.	XELA 1240 50 Saltillo, Coah. Enrique Gomez, Chautemos 28 Sur
WGXA 1550 1000 Bakersfield, Calif. Pioneer Mercantile Co.	XELC 740 100 Mexico City, D. F. Manuel Valdes Bravo, C. Central 112
W9XBY 1530 1000 Kansas City, Mo. First National Television Inc.	XELM 1310 15 Mineral del Monte, Jose Sanchez, Abesolo 1-A Dgo.
XEA 1060 125 Guadalajara, Jal. Alberto Palos Souza, Apdo. 197	XELO 1110 10000 Piedras Negras, Coah. Piedras Negras Brdstg. Co.
XEAA 920 200 Mexicali, B. C. Carlos Blando, Apto. 42	XEMA 1080 50 Tampico, Tams. Manuel M. Pier, Aretsanos 10
XEAF 980 250 Nogales, Son. Francisco G. Elias, Hotel Central	XEMO 865 2500 Tijuana, B. C. P. O. Box 202, San Diego, Calif.
XEAI 1240 100 Mexico City, D. F. Carlos Gonzales Caballero, Insurgentes 366	XEMX 1280 12 Mexico City, D. F. Alfonzo T. Avales
XEAJ 1310 15 Oaxaca, Oax. Enrique M. Crihuela, 3a, Gurrero 18	XEN 710 1000 Mexico City, D. F. Cerveceria Modelo Ave. Juarez 77
XEAM 960 50 Nuevo Laredo, Tams. Edificio Banco Longoria	XENT 910 60000 Nuevo Laredo, Tams- Box 410, Laredo, Texas
XEAO 560 250 Mexicali, B. C. Luis L. Castro, C. Altamirano 156	XEOK 765 2500 Tijuana, L. C. Carlos de la Sierra, Calle 5a 312
XEAW 960 10000 Reynosa, Tams. Internacional Broadcasting Co., S. A.	XEOX 640 250 Saltillo, Coah. Victoria No. 4, Altos.
XEAZ 1420 7 Guanajuato, Gto. Antonio Zavala, Pasco de la Presa 85	XEP 840 500 Mexico City, D. F. Cia Difusora de Mexico S. A., Rembrandt 11
XEB 1030 10000 Mexico City, D. F. El Buen Tono, S. A., Apdo. 79-44	XEPN 590 50000 Piedras Negras, Coah. Piedras Negras Brdstg. Co., Madero 53
XEBC 730 5000 Agua Caliente, B. C. Alberto V. Aldrete	XES 990 250 Tampico, Tams. Fernando Sada, Box 309
XEC 1310 50 Tijuana, B. C. Luis F. Enciso, Teatro Zaragoza	XET 690 500 Monterrey, N. L. P. O. Box 203, Hidalgo
XECW 1310 10 Mexico City, D. F. Maria Elena Bravo de Cordero Ave. Juarez 104	XETB 1310 125 Torreon, Coah. Jose A. Berumen, R. Corona 317
XED 1160 500 Guadalajara, Jal. Cia. Radiofonografica, Apdo. 197	XETF 1220 12 Veracruz, Ver. Jose M. Lopez, Independencia 20
XEE 1210 50 Durango, Dgo. 20 de Nov. 112 (Apdo. 148)	XETH 1210 100 Puebla, Pue. Ramon Huerta G., Calle 17, Oriente 11

NORTH AMERICAN B. C. STATIONS BY CALLS

	XETW	820	500	Mexico City, D. F.
	Rafael M. Pena, Ave. 16 de Sep. 83			
	XEU	1010	250	Veracruz, Ver.
	Fernando Pazos Sosa, Independencia 98			
	XEW	890	50000	Mexico City, D. F.
	P. O. Box 2516			
	XEWZ	1150	100	Mexico City, D. F.
	Medellin e Insurgentes			
	XEX	1310	125	Monterrey, N. L.
	L. F. Petit Jean, P. O. Box 10			
	XEXX	845	500	Mexico City, D. F.
	Av. Pino Suarez 9			
	XEYZ	780	10000	Mexico City, D. F.
	Angel M. Diez, Ave. Juarez 48			

	XEZ	630	500	Merida, Yuc.
	Jorge L. Falomeque, Estamores Ctd 214			
	XEZZ	1370	100	San Luis Potosi, SLP
	Emilio Delgado R. Ave. Chicosein 32			
	XFB	1270	1000	Jalapa, Ver.
	Gobierno del Estado de Veracruz			
	XFC	810	350	Aguascalientes, Ags.
	Gobierno del Estado de Aguascalientes			
	XFD	1340	350	Orizaba, Ver.
	Gobierno Estado de Veracruz			
	XFO	940	5000	Mexico City, D. F.
	Nat. Rev. Party, Ave. Morelos 110			
	XFX	610	1000	Mexico City, D. F.
	Secretaria de Educacion Publica			



**This Big
WORLD
GLOBE
for only
\$3⁹⁵**

postpaid anywhere
in the U. S. A.

This is a handsome Globe in eight brilliant colors. It measures nearly 38 inches in circumference. It is so completely up-to-date that the new Japanese dependency of Manchoukuo is shown—the last word in geographic changes.

The Globe stands seventeen inches high on an attractive bronzed base. All of the principal cities of the world are shown. A Manual of Facts explains how to get the greatest good out of a World Globe.

A scale of miles makes it very easy to measure distances—the only accurate method of computing distance. All in all, it is the best and biggest World Globe we have ever seen for so little money.

This Globe is not only a wonderful addition to a radio room but it is an educational advantage for any family.

THE RADEX PRESS INC.
CONNEAUT, OHIO

AROUND *the* CLOCK on the SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	COC DJA DJN HIZ HJ1ABE HJ4ABL JVH VPD VK2ME W3XAL W8XAL W8XK	DJA DJN GSD W8XAL W9XF VPD VK2ME W8XAL W9XF	DSB GSD W8XAL W9XF	DJB DJN GSB RV15	DJB DJN JVM RV15 VK2ME VK3LR	DJB DJN HJV JVM LKJ1 RV15 VK2ME VK3LR VK3ME	DJB DJN GSF GSF GSF JVM LKJ1 RNE RV15 VK2ME VK3LR VK3ME W8XAL	GSF GSF JVM LKG1 PHI PCJ RNE Pont. RV15 VE9GW VK2ME VK3LR W1XK W8XAL W8XK	DJB DJE GSF GSG PCJ PHI Pont. RNE VE9GW VK2ME W8XK	DJB DJE DJQ GSF GSG HAS3 PCJ PHI Pont. RNE VE9CA VE9GW W1XK W8XK	DJB DJE DJE GSF GSG HJV PCJ PHI Pont. RNE VE9GW W1XK W8XAL W9XAA	DJB DJE DJQ GSF GSG Pont. W1XK W2XE W3XL W8XK W9XAA

NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJC DJD EAQ GSB GSD ORK Pont. VE9GW W1XK W2XE W3XAU W8XAL W8XK W9XAA	DJC DJD EAQ GSB GSD ORK Pont. VE9CA VE9GW W1XK W2XE W3XAU W8XAL W8XK W9XAA	DJC DJD GSB GSD VE9CA W1XK W2XAD W3XAU W8XK W9XAA	DJC DJD GSB GSD Pont. VE9GW W1XK W2XE W3XAL W8XAL W8XK W9XAA XEBT YV3RC	COC CT1AA DJC DJD GSB HIZ Pont. VE9CA VE9GW W1XK W2XE W3XAU W8XAL W8XK W9XAA XEBT YV3RC	COC COH CT1AA DJA DJD DJA DJN EAQ GSF HBL HJ1ABB Pont. PRF5 VE9GW W1XK W2XE W3XAL W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	COC CT1AA DJA DJD DJA DJN EAQ GSC GSD HAT4 HC2RL HJ1ABB W1XAL W1XK W2XAF W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	DJA DJD DJN GSC DJA DJD DJN HC2RL HJ1ABB HJ1ABG HP5B HJ1ABB W1XAL W1XK W2XAF W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJR COCD COH DJA DJD DJN HIX HJ1ABB HP5B TIEP VE9GW W1XAL W1XK W2XAF W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJR COCD COH DJA DJD DJN HIX HJ1ABB HP5B W1XAL W1XK W2XAF W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJR COCD DJA DJD GSC GSL HC2RL HC2ET OAX4D PRADO VE9GW W1XK W2XAF W2XE W3XAU W8XK W9XAA W9XF XEBT	CJRO CJR COCD DJA DJD GSC GSL HC2RL HC2ET OAX4D PRADO VE9GW W1XK W2XAF W2XE W3XAU W8XK W9XAA W9XF XEBT

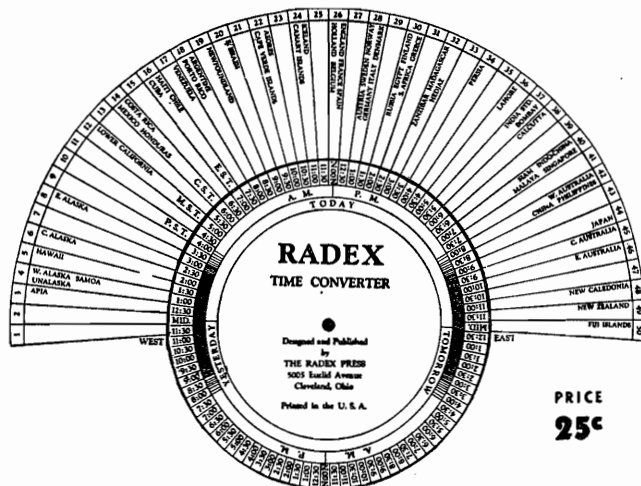
BEST SHORTWAVE BROADCASTING STATIONS BY CALL LETTERS

Frequencies are given in megacycles and the time is Eastern Standard.

CEC, Santiago, Chile, 10.670. Afternoons Irreg.	.EAQ, Madrid, Spain, 9.862. 1730-1900; Sat., 1200-1400.	HC2ET, Guayaquil, Ecuador, 4.600. Wed., Sat., 2130-2300.
CJRO, Winnipeg, Man., 6.150. Daily 2000-2400.	GSB, Daventry, England, 9.510. 0115-0315; 1215-1500; 1515-1645.	HC2JSB, Guayaquil, Ecuador, 4.283. Daily exc. Mon., 2015-2315. 7.700. Irregular.
CJRX, Winnipeg, Man., 11.720. Daily 2000-2400.	GSC, Daventry, England, 9.580. 1800-2000; 2200-2300.	HC2RL, Guayaquil, Ecuador, 6.659. Tues., 2115-2315; Sun., 1745-1945.
CMHB, Sancti-Spiritus, Cuba, 10.200.	GSD, Daventry, England, 11.750. 0115-0315; 1215-1600; 1800-2000; 2200-2300.	H1H, San Pedro de Macoris, D. R., 6.800. 1600-2030.
COC, Havana, Cuba, 6.010. Daily, 0930-1300; Sat., 2330-0030.	GSE, Daventry, England, 11.860. 1100-1200.	H1X, Santo Domingo, D. R., 5.980. Tues., Fri., 2000-2200.
COCQ, Havana, Cuba, 6.130. Nights until midnight.	GSP, Daventry, England, 15.140. 0900-1200; 1615-1745; 0600-0845.	H1Z, Santo Domingo, D. R., 6.315. Sat., 2300-0100; daily exc. Sun., 1700-1800.
COH, Havana, Cuba, 9.423. Daily 1000-1200; 1600-1800; 2100-2200.	GSG, Daventry, England, 17.790. 0900-1045; 0600-0845.	H14D, Santo Domingo, D. R., 6.500. 1640-1940 daily exc. Sun.
CT1AA, Lisbon, Portugal, 9.600. Tues., Thurs., Sat., 1630-1900.	GSL, Daventry, England, 6.110. 2200-2300.	H1ABB, Barranquilla, Colombia, 6.447. 1700-2200.
DJA, Berlin, Germany, 9.560. 0030-0215; 1705-2115.	HAS3, Budapest, Hungary, 15.370. Sun., 0900-1000.	H1ABD, Cartagena, Colombia, 7.280. 1945-2115.
DJB, Berlin, Germany, 15.200. 0345-0715; 0800-1130.	HAT4, Budapest, Hungary, 9.125. Sun., 1800-1900.	H1ABE, Cartagena, Colombia, 6.115. Sun. at 0400; Mon., 2200-2400; Wed., 2000-2200.
DJC, Berlin, Germany, 6.020. 1200-1630; 2130-2245.	HBL, Geneva, Switz., 9.595. Sat., 1730-1815.	H1ABG, Barranquilla, Colombia, 6.042. 1900-2200.
DJD, Berlin, Germany, 11.770. 1200-1630; 1705-2245.	HBP, Geneva, Switz., 7.797. Sat., 1730-1815.	H1ABH, Cienaga, Colombia, 6.300. Tues., Fri., 1945-2200.
DJE, Berlin, Germany, 17.760. 0800-1130.	HCJB, Quito, Ecuador, 8.214. Daily exc. Mon., 1915-2315.	HJ2ABC, Cuetua, Colombia, 5.975. Daily exc. Sun., 1800-2100.
DJN, Berlin, Germany, 9.540. 0030-0215; 0345-0715; 1705-2245.	HC2AT, Guayaquil, Ecuador, 8.400. Daily exc. Sun., 2000-2200.	
DJQ, Berlin, Germany, 15.280. 0800-1130.		

RADEX RADIO MAP of the WORLD

Showing all Countries and their Principal Cities
with Call Letters and Time Zones of each Country



DIRECTIONS—Turn the dial to the desired hour, either A.M. or P.M., in the sector marked "TODAY" opposite your own zone and the current time in all other zones in the world will be shown. It will also be indicated which of the other zones are "Yesterday" and which are "Tomorrow". The position of twilight, darkness and dawn is graphically shown. **CAUTION:** If you desire to time in a New Zealand program, from the hour of the program (from 9:00 a.m. to 11 p.m.) by the New Zealand sector and you will find that it is 4:30 A.M. some day in Eastern Standard Zone or 11 P.M. yesterday in Hawaii.

Just turn the dial to the time in your zone and—Presto: Change—there is the time for every other place in the world.

No adding; no subtracting; no trying to figure which is yesterday, today or tomorrow. The dial does it all.

Big map of the world showing all principal cities and their time zones.

Only a Quarter Postpaid to any country.

THE RADEX
PRESS INC.
CONNEAUT,
OHIO
U. S. A.

Copyright 1939
by THE C. H. BIRD

HJ3ABD, Bogota, Colombia, 7.390. 1930-2300.
HJ3ABF, Bogota, Colombia, 6.200. 1900-2300.
HJ3ABH, Bogota, Colombia, 6.012. Sun., 1600-2100; other days, 1800-2300.
HJ4ABC, Pereira, Colombia, 6.230. 1900-2000.
HJ4ABE, Medellin, Colombia, 5.900. 1900-2300.
HJ4ABL, Manizales, Colombia, 6.100. Sat., 2300-2430.
HJ5ABD, Cali, Colombia, 6.490. Thurs., Sat., Sun., 1900-2100.
HP5B, Panama City, Panama, 6.030. 1900-2200.
HP5J, Panama City, Panama, 9.590. 1930-2200.
HVJ, Vatican City, 5.970. Sun., 0500-0530, 15.120. Daily exc. Sun., 0500-0515
I2R, Rome, Italy, 9.630. Mon., Wed., Fri., 1800-1930.
JVH, Nazaki, Japan, 14.640. 0000-0100.
LKJ1, Jeloy, Norway, 9.540. 0509-0800.
OAX4E, Lima, Peru, 6.230. 1900-2100.
OAX4D, Lima, Peru, 5.780. Wed., Sat., 2100-2330.
ORK, Brussels, Belgium, 10.330. 1200-1400.
PCJ, Hilversum, Netherlands, 15.220. Irregular, mornings.
PHI, Hilversum, Netherlands, 17.775. Mon., Thurs., Fri., 0730-0930; Sat., Sun., 0730-1030.
PRADO, Riobamba, Ecuador, 6.620. Thurs., 2100-2330.
PRF5, Rio de Janeiro, Brazil, 9.505. 1730-1815.
RNE, Moscow, USSR, 12.000. Daily, 1400-1800; Sun., 0700-1100; Wed., 0600-0700.
RV15, Khabarovsk, USSR., 4.273. Daily, 0300-0900.
TIEP, San Jose, Costa Rica, 6.710. 1900-2200.
TIGPH, San Jose, Costa Rica, 5.820. 1900-2200.
VE9CA, Calgary, Alta., 6.030. Thurs., 0900-0200; Sun., 1200-2400; Other days, 0900-2400.
VE9GW, Bowmanville, Ont., 6.090. 0600-2300.
VK2ME, Sydney, Australia, 9.585. Sun., 0000-0200; 0430-0830; 0900-1100.
VK3LR, Melbourne, Australia, 9.580. Daily exc. Sun., 0400-0800.
VK3ME, Melbourne, Australia, 9.503. Wed., Thurs., Fri., Sat., 0500-0700.
VPD, Suva, Fiji, 13.045. 0030-0130.
VUB, Bombay, India, 9.565. Sun., near 7 a.m.
W1XAL, Boston, Mass., 11.790. Tues., Thurs., Sun., 1830-2030.
W1XK, Millis, Mass., 9.570. 0700-0100.
W2XAD, Schenectady, N. Y.
W2XAF, Schenectady, N. Y., 9.530. 1840-2300.
W2XE, Wayne, N. J., 6.120. 1800-2300. 11.830; 1500-1700. 15.270; 1100-1300.
W3XAL, Bound Brook, N. J., 6.100; Mon., Wed., Sat., 1700-0100. 17.780; Tues., Thurs., Fri., 1500-1600.
W3XAU, Philadelphia, Pa., 9.590; 1200-2000.
W3XL, Bound Brook, N. J., 17.310; 1100-1700.
W8XK, Pittsburgh, Pa., 6.140; 2100-0100. 11.870; 1700-2100. 15.210; 0900-1900. 21.540; 0700-0900.
W9XF, Chicago, Ill., 6.100; Monday to Friday, 0100-0200; 2100-2200; Sat., 0100-0200; Sun., 0100-0230; 2100-2200.
XEBT, Mexico City, D. F., 6.000; 1200-0100.
XECR, Mexico City, D. F., 7.380; Sun., 1800-1900.
XECW, Mexico City, D. F., 5.980; daily 2300-2400.
YV2RC, Caracas, Venezuela, 6.112. 1700-2145.
YV3RC, Caracas, Venezuela, 6.150. 1700-2200.
YV4RC, Caracas, Venezuela, 6.375. 1630-2230.
YV5RMO, Maracaibo, Venezuela, 5.850. Daily exc. Sun., 1700-2130.
YV6RV, Valencia, Venezuela, 6.520; 1700-2200.

**INSURE YOUR RADIO ENJOYMENT
SEND THIS BLANK TODAY**

The Radex Press Inc.,
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.....\$2.00
- Beginner's Story of Radio50

(If you live in Ohio, add 3% for State Sales Tax. No tax on Subscriptions.)

Foreign subscriptions 25c extra excepting Canada
and Newfoundland.

Write Name Plainly

Street and Number.....

City and State



Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am surely making good money now. Maybe my story will show you the way to larger earnings also.

I THOUGHT RADIO WAS A PLAYTHING But Now My Eyes Are Opened, and I'm Making Over \$40.00 a Week!

\$40 a week! Man alive, a year ago I thought anyone making so much was just plain lucky.

Twelve months 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 twelve months later I would be making \$40 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago 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 show you how 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 the promises 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 little business of my own.

That business has since grown to the point where I am clearing an average of \$40 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 other lines. Broadcasting Stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aviation Radio, Television, Short Wave, Automobile and Police Radio. Loud Speaker Systems are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I never had a chance and will never have one because I have no pull or a good education!"

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 Receiving Troubles—the Cause and Remedy" is valuable. And when you see how simple this lesson is to understand you'll know why many fellows with less than a grammar school education 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. 5J0, Washington, D. C.

J. E. SMITH, President,
National Radio Institute
Dept. 5J0, Washington, D. C.

Dear Mr. Smith:

Without obligation, send me the sample lesson and your free 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

SAVE ^{UP TO} 50% by BUYING YOUR RADIO *Direct from* MIDWEST LABORATORIES

Exciting World-Wide Entertainment... Glorious New Acousti-Tone
Guaranteed with Amazing New 1936
SUPER Deluxe **MIDWEST**



ONLY
 RADIO COVERING
 4½ to 2,400 METERS.

30 Days FREE Trial!



PUSH-BUTTON TUNING
 (Noises Suppressed)

Now Push Button Silent Tuning is offered for first time! Simply pushing Silent Button hushes set between stations, suppresses noise. Pressing Station Finder Button automatically indicates proper dial position for bringing in extremely weak stations.

Acousti-Tone V-Spread Design
 (Patent Pending)

Establishes new radio style overnight! The V Front Dispensing Vanes were developed by Midwest engineers as a result of a study of directional effect of the Midwest Full Scope High Fidelity Speaker. These Vanes spread the beautiful lacework of the "highs" throughout the entire room in a directing manner. directing the High Fidelity waves uniformly to the ear. Send for new FREE 40-page catalog. It pictures the complete line of beautiful 1936 Acousti-Tone V-Spread consoles, and chassis colors.

FULL SCOPE HIGH FIDELITY Brillant



Concert Tone
 Now, get complete range of audible frequencies from 30 to 16,000 cycles, being transmitted by four new High Fidelity Broadcasting stations—WYBS, WEXBY, W2XR and W6XAL. Glorious new Acousti-Tone is achieved... assuring life-like, crystal-clear "concert" realism.

V-FRONT

EVERYWHERE radio enthusiasts are saying: "Have you seen the new 18-tube, 6 tuning ranges, Acousti-Tone V-Spread Midwest?" It's an improvement over Midwest's 10-tube set, so popular last season. This amazingly beautiful, bigger, better, more powerful, super selective, 18-tube radio... is not obtainable in retail stores... but is sold direct to you from Midwest Laboratories at a positive saving of 30% to 50%. (This statement has been verified by a Certified Public Accountant!) Our performs \$250.00 sets. Approved by over 120,000 customers. Before you buy any radio, write for FREE 40-page catalog. Never before so much radio for so little money. Why pay more? You are triple-protected with: One-Year Guarantee, Foreign Reception Guarantee and Money-Back Guarantee.

30 ADVANCED 1936 FEATURES

Scores of marvelous features, many exclusive, explain Midwest super performance and world-wide reception... enable Midwest to bring in weak distant foreign stations, with full loud speaker volume, on channels adjacent to locals. They prove why many orchestra leaders use Midwest radios to study types of harmony and rhythmic beats followed by leading American and foreign orchestras. Only Midwest tunes as low as 4½ meters... only Midwest offers push button tuning and Acousti-Tone V-spread design. See pages 12 to 20 in FREE catalog. Read about advantages of 6 tuning ranges—offered for first time—E, A, L, M, H and U... that make this super de luxe 18-tube set the equivalent of six different radios... offer tuning ranges not at any price.

DEAL DIRECT WITH LABORATORIES

No middlemen's profits to pay — you buy at wholesale price direct from laboratories... saving 30% to 50%. Increasing costs are sure to result in higher radio prices soon. Buy before the big advance... NOW... while you can take advantage of Midwest's sensational value. You can order your 1936 Full Scope High Fidelity Acousti-Tone radio from the 40-page catalog with as much certainty of satisfaction as if you were to come yourself to our great radio laboratories. You save 30% to 50%... you get 30 days FREE trial... as little as \$5.00 puts a Midwest radio in your home. Satisfaction guaranteed or money back. Write today, for FREE catalog.

SAVE UP TO 50%



18 Tube
SIX-IN-ONE Radio
 ALL WAVE
 6 TUNING RANGES

WORLD'S
 GREATEST RADIO VALUE
\$59 ⁵⁰
 With New
 GIANT
 THEATRE-
 SONIC
 SPEAKER
 TERMS AS LOW AS \$5.00 DOWN

Thrill to new explorations in sections of radio spectrum that are strangers to you. Every type of broadcast from North and South America, Europe, Asia, Africa and Australia is now yours. Send today for money-saving facts.

Two Strikes on Other Radios!

Chicago, Ill.—It's as big a thrill as snacking one over the fence to bring in distant foreign stations like local Midwest radios are the best obtainable and have two strikes on any other make.
Ray Mitchell (Chicago Cubs)



England, Spain, Italy, Most Every Night

Washington, D. C.—We are more pleased with our Midwest every day. We tune in GSB, London—EAQ, Spain—DJC, Germany—12RO, Rome, etc., most every evening with local volume.
 Robert H. Gerbardt.



METAL TUBES

This Midwest is furnished with the new glass-metal counterpane tubes. Set sockets are designed to accept glass-metal or METAL tubes, without change. Write for FREE facts.

MAIL COUPON TODAY! FOR FREE 30-DAY TRIAL OFFER and 40-PAGE FOUR-COLOR FREE CATALOG

MIDWEST RADIO CORP., Dept. 81-C, Cincinnati, Ohio.

Without obligation on my part, send me your new FREE catalog, complete details of your liberal 30-day FREE trial offer, and FREE Miniature Rotating 18-tube Dial. This is NOT an order.

Name _____
 Address _____
 Town _____ State _____

Check here, if interested in a Midwest Auto Radio.

User-Agents Make Easy Extra Money Check Here for Details

MIDWEST RADIO CORP.

DEPT. 81-C CINCINNATI, OHIO U.S.A.

Established 1920 Cable Address MIRACO All Codes