

THE SEPTEMBER, 1935

RADIO IN DEX

The All-wave DX Log of the World



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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

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THE RADEX PRESS INC.

Conneaut, Ohio

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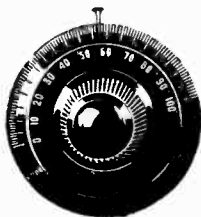
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September 1, 1935



RADIO INDEX

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TWELFTH YEAR

NUMBER 91

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With the "Galaxy of Stars"

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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.

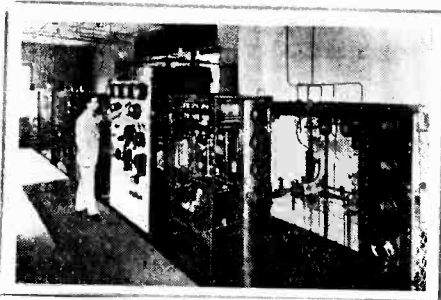
As most of us know, the earth is surrounded by an electrified shell,

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 worthwhile.

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 weekend.

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

KADEX. 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.

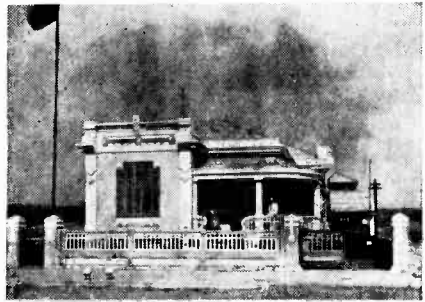
Resistance measured in ohms does not always indicate a good telephone receiver. A phone magnet could be wound with a very fine wire of special high-resistance qualities so as to get a great resistance in a few turns and thus save wire, time and labor costs. The number of turns wrapped around the magnet 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 Rabat, 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, shortwavelly 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 6:00 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 megs. 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 megs. 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, I'RF5, HJ2ABC, HJ4ABA, TIGPH, HIH, 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 VFD, 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, H11A 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 FRX-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 Ycrk, 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 21)

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 aerials 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, 817 ½ 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.’”

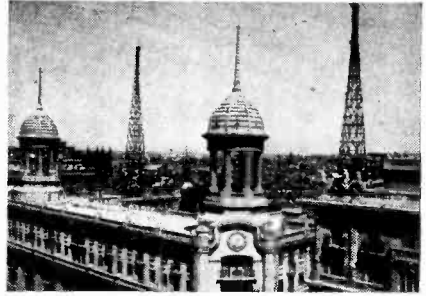
However, just to show what can be done under decidedly adverse conditions, let's listen to Charles Hesterman, 2214 Herman Ave., Saskatoon, Sask. He writes: “I personally am cursed with endless interference caused by a high frequency rectifier, a multiple telegraph printer, a telegraph system and a variety 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 d'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 WSAN within thirty seconds. An amazing thing is that I have difficulty in getting stations around 1270 to 1290 keys. 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, JOHK, 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 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 kcys, (now 1113 kcys) 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 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 PCB 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, Paterson 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."

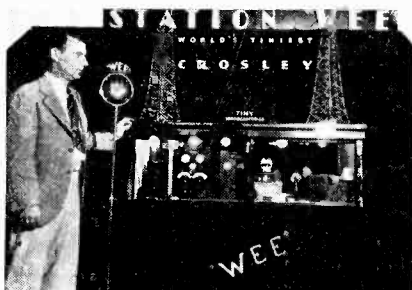
About the Clubs

"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 fee 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, KPFC, 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, Jr., 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 HIF. 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 WKBW 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 WAAB
WABC WBBM WBIG WBNS WBRC
WBT WCAO WCCO WCOA WDAE
WDBO WFBL WFBM WFEA WGR
WGST WHAS WHC WHK WHF
WICC WISN WJSV WKRC WLAC
WLBZ WMBD WMBG WOKO WORC
WOW WWSJ WSMK WSPD WWSA

B — **Lowell Thomas**

CRCT KDKA WBAL 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 WBN WCAE WCHS
WEAF WEFI WFBZ 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 WAAB
WABC WBBM WBIG WBNS WBRC
WBT WCAO WCCO WCOA WDAE
WDBO WDNC WFBL WFBM WFEA
WGR WGST WHAS WHC WHK
WHF WICC WISN WJSV WKRC
WLAC WLBZ WMBD WMBG WOKO
WORC WOW WWSJ WSMK WSPD
WWSA

R — **Uncle Ezra**

KYW WBN WCAE WCHS WDAF
WEAF WEFI WFBZ WGY WHO
WHIO WJAR WMAQ WOW WRC
WASL WTAG WTAM

B — **Tony and Gus**

KDKA WBAL WBZ WBZA WCKY

WENR WFIL WFLA WGAR WHAM
WIOD WIS WJAX WJZ WMAL
WPTF WSOE WSYR WTAR WWSA

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
WNAS

B — **Dangerous Paradise**

KDKA KOIL KSO KTHS KWK
WBAL WBAP 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 WHF WIBX WICC WJAS
WJSV WLAC WMAS WNAS WNOX
WOKO WORC WPG WREC WWSJ
WWSA

B — **Fibber McGee and Molly**

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO WBAL
WBZ WBZA WCKY WFIL 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
WHF WICC WJAS WJSV WKRC
WLBZ WMAS WMBG WNAS WOKO
WORC WSPD

R — **Voice of Firestone**

CFCE CRCT KFYZ KPRC KSD
KSTP KTHS KTHS KYW WAPI
WAVE WBN WCAE WCHS WDAF
WDAY WEAF WECB WEFI WFAA
WFBZ WFLA WGY WHO WHIO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WLW WMAQ
WNC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOE
WTAG WTAM WTAR WTIC WTMJ
WVJ WWSA

B — **Evening in Paris**

KDKA KOIL KSO KWK WBAL
WBZ WBZA WCKY WFIL 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 KNJ KMOX
KQIN KOMA KRLD KRNT KSL
KTRH K TSA KTUL KVI KWG
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDHJ WDRC WDSU WEAN WFBL
WFBM WGST WHAS WHEC WHK
WICC WISN WJAS WJSV WKBW
WKRC WLAC WNAS WNAS WOKO
WORC WQAM WREC WSPD

R — **A. & P. Gypsies**

KSD KYW WBN WCAE WCHS
WDAF WEAF WEFI WGY WHO
WHIO WIRE WJAR WMAQ WOW
WRC WSAI WTAG WTAM WTIC
WVJ

B — **Sinclair Minstrels**

KDKA KDYL KFYZ KOA KOIL
KPRC KSO KSTP KTHS KVOO KWK
WBAL WBZ WCAU WDAY WECB
WFAA WFLA WGAR WHAM WIBA
WIOD WIS WJAX WJDX WJZ WKY
WLS WLW WMAL WNC WMT
WOAI WPTF WREN WRVA WSB
WSM WSMB WSOE WSYR WTAR
WTMJ WWSA

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 WFIL
WGAR WHAM WJZ WMAL WMT
WREN WSYR

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

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

MONDAY (Continued)

R — Contented Program

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KYW WBNB WCAE
WCSD WDAF WFAE WEEI WFAA
WFBW WGY WHO WJAR WMAQ
WOW 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 KPHG KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLL
KRNT KSL KVI KWG WAB WADC
WBFB WCAO WCAU WCCO WDRC
WDSU WEAN WFBL WFBR WGST
WHSU WHK WJAS WJSV WKBW
WKRC WNAC 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
KPH KGB KGKO KHJ KLRA KLZ
KMBC KOH KOL KOMA KRLL
KSL KTRH KTSa KVI KVOR KWG
KWKH WAAB WABC WADC WALA
WBFB WBIG WBNB WBRB WBT
WCAO WDAE WDBO WDNC WDDO
WDRC WFBL WFBM WGR WGST
WHAS WHK WHP WIBW WIBX
WJAS WJAS WJSV WKBW WKBW
WKRC WLAC WLWB WMBR WNOX
WOKO WORC WOWO WPG WQAM
WREB 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 KPH
KGB KGKO KHJ KLRA KLZ KMBC
KOH KOL KRLL KSL KTRH KVI
KVOR KWG KWB WABC WADC
WALA WBIG WBNB WBRB WBT
WCAO WDAE WDBO WDNC WDDO
WDRC WFBL WFBM WGR WGST
WHK WHP WJAS WJSV WKBW
WKBW WKRC WLAC WLWB WMBR
WNOX WOKO WORC WOWO WPG
WQAM WREB 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
WOAI 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 KFSB KFYR KGHL
KGIR KGW KHQ KOA KOIL KOMO
KPO KSO KSTP K'AR KTBS KTHS
KWK WAPI WAVE WDAY WEBC
WFAA WIBA WIRE WJDX WMC
WMT WOAI WREN WSB WSM
WSMB WTAMJ

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

WABC WBRB WBT WCAO WCAU
WCOA WDAE WDBJ WDBO WDDO
WDRC WEAN WFAE WICC WJSV
WLAC WLWB WMAS WMBG WMBR
WNAC WNOX WORC WREB WSFA
WSJS WTOC

C — One Night Stands

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

R — Voice of Firestone

KDYL KFSB KGHL KGIR KGU
KGW KHQ KOA KOMO KPO K'AR

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 WBRB
WBT WCOA WDAE WDBJ WDBO
WDNC WDDO WDRC WGST WLAC
WLWB WMAS WMBG WMBR WNOX
WQAM WQAM WREB 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
WBFB WBNB WBRB WCAO WCOA
WDAE WDBO WDNC WDDO WDRC
WDSU WESG WFBL WHEC WHIP
WIBX WJAS 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 WBFB WCAO WCAU
WDRC WEAN WFBL WFBR WGR
WHAS WHK WJAS WJSV WKRC
WNAC WOKO WSPD

R — Leo Reisman's Orchestra

KSD KYW WBNB WCAE WCHS
WDAF WFAE WEEI WFBW WFLA
WGY WHO WIOD WIS WJAR WJAX
WMAQ WOV WPTF WRC WSOC
WTAG WTAM WTAR WTIC WWJ
WWNC

B — Eno Crime Clues

KDKA KOIL KSO WBAL WBZ
WLS 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 WBNB WCAE
WCSD WDAF WDAY WFAE WEEI
WFAA WGY WHO WIBA WIRE
WJAR WJDX WKY WMAQ WMC
WOAI WOW WRC WSAI WSB WSMB
WTAG WTAM WTIC WTAMJ WWJ

B — Edgar Guest in Welcome Valley

KDKA KOIL KSO KWK WBAL
WBZ WLS 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 WBNB WBRB WBT WCAU
WCCO WDBO WDNC WDRC WDSU
WEAN WFBL WFBR WHAS WHEC
WFK WIBX WJAS WJAS WJSV
WKBW WKRC WLAC WNAC WOKO
WOWO WREB WSPD

R — Ben Bernie and Orchestra

KSD KYW WBNB WCAE WCHS
WFAE WEEI WFBW WGY WHO
WJAR WMAQ WOW WRC WSAI
WTAG WTAM WTIC WWJ

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
KFBK KFBK KPH 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 WBFB WBIG WBNB WBRB
WBT WCAO WCAU WCCO WCOA
WDAE WDBJ WDBO WDNC WDDO
WDRC WDSU WEAN WFBL WFBR
WGST WHAS WHEC WHK WHIP
WIBW WIBX WICC WJAS WJAS
WJSV WKBW WKBW WKRC WLAC
WLWB WMAS WMBD WMBR WNAC
WNAX WNOX WOC WOKO WORC
WOWO WPG WQAM WREB WRC
WSFA WSJS WSMK WSPD WTOC

R — Eddie Duchin and Orchestra

KDYL KFI KFSB KFYR KGHL
KGIR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP K'AR KTBS
KVOO KYW WAVE WBAP WBNB
WCAE WCHS WDAF WDAY WFAE
WFCB WEEI WFBR WFLA WGY
WHO WHIO WJAS WJDX WIRE
WIS WJAR WJAX WJDX WKY
WLW WMAQ WMC WOAI WOW
WPTF WRC WRVA WSB WSM
WSMB WSOC WTAG WTAM WTAR
WTIC WTMJ WWJ WWNC

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 KPH
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
WBNB WBRB WBT WCAO WDAE
WDBJ WDBO WDNC WDDO WDRC
WDSU WFBL WFBM WFEA WGST
WHAS WHEC WHK WHIP WIBW
WIBX WICC WJAS WJSV WKBW
WKBW WKRC WLAC WLWB WMAS
WMBG WMBR WNOX WOKO
WORC WOWO WPG WQAM WRC
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 KFSB KFYR KGHL
KGIR KGW KHQ KOA KOMO KPO
KPRC K'AR KTBS WAPI WAVE
WBAP WDAY WEBC WIBA 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
KFCR KGB KGKO KHJ KLRA KLZ
KMRC KMOX KOH KOI KRLD
KRNT KSCJ KTRH KTSa KTUL
KVOR KWG KWKH WABC WACO
WADC WAlA WBBM WBRC WBT
WCAU WCOA WDAE WDBJ WDBO
WDNC WDRC WEAN WESG WFBL
WFBM WGR WGST WHAS WHK
WIBX WISN WJAS WJSV WKBN
WKRC WMRG WNAc WNOX
WOKO WOVO WQAM WREC WSJS
WSMK WSPD WTOc WYVA

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 WBRC WBT WCAU
WCAU WDAE WDBJ WDBO WDNC
WDRC WEAN WGBL 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 WCAU WCAU
WCOO WDRC WEAN WFBL WFBM
WGR WHAS WHFC WHK WJAS
WJSV WKRC WLbZ WNAc WOKO
WSPD

R — One Man's Family

KDYL KFI KFYR KGW KHQ KOA
KOMO KPRC KSD KSTP KTAR
KTBS KTHS KVoo KYW WAPI
WAVE WBen WCAE WcSH WDAF
WDay WEAF WEBC WEHI WFBR
WFLA WGY WHO WHIO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WOAI WOV 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
KFCR KGB KGKO KHJ KLRA KLZ
KMBC KMOX KOH KOI KRLD
KRNT KSCJ KTRH KTSa KTUL
KVOR 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 WNAS WMBG WREC WNOX
WOKO WOVO WQAM WREC WSJS
WSMK WSPD WTOc WYVA

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 WFL WFLA WGAR
WHAM WIOD WIS WJAX WJZ
WLS WLW WMAI WMT WPTF
WREN WSOC WSYR WTAR WYNC

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

CKLW KFAb KMBC KMOX KRNT
WABC WADC WCAU 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 KFCR KGKO KHJ KLRA
KLZ KMBC KMJ KOIN KOI KSL
KTUL KVI KWG WAAB WABC
WADC WAlA WBBM WBG WBS
WBRC WBT WCAU WCOA WDAE
WDBJ WDBO WDNC WDRC WDSU
WFHL WFBM WFEA WGST WHAS
WHFC WHP WICC WJAS WJSV
WKbW WKRC WLAC WLbZ WMBG
WMBR WNOX WOKO WORC WOVO
WPG WQAM WREC WSBT WSPD
WTOc

R — Town Hall Tonight

KSD KYW WBen WCAE WcSH
WDAF WEAF WEHI WFBR WGY
WHO WJAR WLW WMAQ WOV
WRC 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 WMAI 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 KFCR KGKO KHJ
KLRA KLZ KMBC KMJ KOIN KOI
KSL KTUL KVI KWG WAAB WABC
WADC WAlA WBG WBS WBRC
WBT WCAU WCOA WDAE WDBJ
WDBO WDNC WDOO WDRC WDSU
WFBL WFBM WFEA WGST WHAS
WHFC WHP WIBX WICC WJAS
WJSV WKbW WKRC WLAC WLbZ
WNAS WMBG WMBR WNOX WOKO
WORC WOVO 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 KFCR KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOI KOMA
KRLD KRNT KSCJ KSL KTRH
KTSa KVI KWG WABC WADC
WBBM WBG WBT WCAU WCAU
WCOO WDBJ WDRC WEAN WFBL
WFBM WHFC 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 WEHI WFAA WFBR
WGY WHO WHIO WIRE WJAR
WJDX WKY WLW WMAQ WMC
WOAI WOV 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 KFCR KGB KGKO KHJ
KLRA KLZ KMBC KOH KOI
KOMA KRLD KRNT KSCJ KTRH
KTSa KTUL KVI KVOR KWKH
WAAB WABC WACO WADC WAlA
WBBM WBG WBS WBRC WBT
WCAU WCOO WCOA WDAE WDBJ
WDBO WDNC WDOO WDRC WFBL
WFBM WFEA WGR WGST WHAS
WHFC WHK WHP WIBW WIBX
WICC WISN WJAS WJSV WKRC
WLAC WLbZ WNAS WMBD WMBG
WMBR WNOX WOC WOKO WORC
WOVO 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 KFYR 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 WBG
WBRC WCOA WDAE WDBJ WDBO
WDNC WDOO WDRC WGST WLAG
WLbZ WNAS 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 KTSa KTUL
KWG KWKH WAAB WABC WACO
WBBM WBG WBS WBRC WBT
WCOA WDAE WDBO WDNC WDOO
WDRC WDSU WFBL WFBM WFEA
WGR WGST WHAS WHFC WHP
WIBX WJSV WKRC WLAC WLbZ
WMbD WMBG WMBR WOKO
WORC WOVO WQAM WREC WSJS
WSMK WSPD WYVA

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 WBG
WCOA WCOA WDAE WDBJ WDBO
WDNC WDOO WDSU WGST WJSV
WLAC WLbZ 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 KFCR KGB
KGKO KHJ KLRA KLZ KMBC KOH

THURSDAY (Continued)

KOL KRLL KRNT KSCJ⁷KTRH
KTSA KVOR 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 WQOW WPG WQAM
WREC WSBT WSFA WSJS WSMK
WSPD WTOC WWSA

R — Rudy Vallee's Variety Hour
CFCE CRCT KDYL KFI KFYY
KGV KHQ KOA KOMO KPO KSD
KSTP KTAH KYW WBBN WCAE
WCSE WDAE WDAY WEAF WHEC
WHEI WHR WGY WHO WJAR
WLW WMAQ WMO WRC WTAG
WTAM WTIC WTNJ 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
KMXX KOL KOMA KRLL KRNT
KSCJ KTRH KTSa KTUL KVI
KWG KWKH WAAB WABC WACO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCOA WCO
WDAE WDBJ WDBO WDNC WDOO
WDRS WDSU WFBL WFBM WFEA
WGST WHAS WHEC WHK WHI
WIBX WICC WISN WJSV
WJSV WKBN WKBW WKRC WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAC WNAX WOKO WORC
WOWO WQAM WREC WSFA WSJS
WSMK WSPD WTOC

R — Maxwell House Show Boat
KDYL KFI KFD KFYY KGHL
KGR KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAH
KTBS KYW WAPI WAVE WBAF
WBEN WCAE WCHS WDAE WDAY
WEAF WHEC WHEI WFBM WFLA
WGY WHO WHIO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOV
WPTT WRC WVA WSAT WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTNJ WWJ WWCN

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

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 KFCR
KGB KGKO KHJ KLRA KMJ
KMXX KOH KOIN KOL KOMA
KRLL KSCJ KSL KTRH KTSa
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOO WDRS WDSU
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBX WIBX
WICC WISN WJAS WJSV WKBN
WKBW WKRC WLAC WLBZ WMAS
WMBD WMBR WNAX WNOX
WOC WOKO WORC WQOW WPG
WQAM WREC WSBT WSFA WSJS
WSMK WSPD WTOC

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 KFCR
KGB KGKO KHJ KLRA KMJ
KMXX KOH KOIN KOL KOMA
KRLL KSCJ KSL KTRH KTSa
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOO WDRS WDSU
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBX WIBX
WICC WISN WJAS WJSV WKBN
WKBW WKRC WLAC WLBZ WMAS
WMBD WMBR WNAX WNOX WOC
WOKO WORC WQOW WPG WQAM
WREC WSBT WSFA WSJS WSMK
WSPD WTOC

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 KFCR KGB KHJ KLRA
KLZ KMBC KMJ KMXX KOIN
KOL KRLL KRNT KSL
KTRH KTSa KTUL KVI KWG
WABC WBBM WBNS WBRC WBT
WCAO WCAE WCOO WDBO WDRS
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 KFYY
KGV KHQ KOA KOMO KPO KPRC
KSD KSTP KTAH KTBS KTBS
KYW WAPI WAVE WBAF WBBN
WCAE WCHS WDAE WDAY WEAF
WHEC WHEI WFBM WFLA WGY
WHO WBA WOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOV WPTT WRC
WRVA WSB WSM WSMB WTAG
WTAM WTIC WTNJ 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 KFCR
KGB KGKO KHJ KLRA KMBC
KMJ KMXX KOH KOIN KOL KOMA
KRLL KSCJ KSL KTRH KTSa
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDRS WDSU WFBL
WFBM WFEA WGST WHAS WHEC
WHK WHP WIBX WIBX WICC
WISN WJAS WJSV WKBN WKBW
WKRC WLAC WLBZ WMAS WMBD
WMBR WNAX WNOX WOC WOKO
WORC WQOW WPG WQAM WREC
WSBT WSFA WSJS WSMK WSPD
WTOC

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
C — Johnny Hamp and Orchestra
CFRB CKAC CKLW KDB KERN
KFAB KFBK KFH KFPY KFCR
KGB KGKO KHJ KLRA KMBC
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSa
KTUL KVI KVOR KWG WABC
WABC WACO WADC WALA WBIG
WBNS WBRC WBT WCAO WCOA
WDAE WDBJ WDBO WDNC WDOO
WDRS WDSU WFBL WFBM WFEA
WGST WHAS WHEC WHK WHI
WIBX WIBX WICC WJAS WJSV

WKBW WKBW WKRC WLAC WLBZ
WMAS WMBG WMBR WNAC
WNOX WOKO WORC WQOW 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

FRIDAY

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

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 Leaffer's Orchestra
KLRA WABC WALA WBIG WBRC
WCOA WDAE WDBJ WDBO WDNC
WDOO WDRS WDSU WGST WLAC
WLBZ 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 — Jerry Cooper, Songs
CFRB CKAC CKLW KDB KERN
KFBK KFH KFPY KFCR KGB
KGKO KHJ KLRA KLZ KMBC KOH
KOL KOL KOMA KRLL KRNT
KSCJ KSL KTRH KTSa KTUL
KVI KVOR KWG WABC WACO
WADC WALA WBIG WBNS WBRC
WCAO WCCO WCOA WDAE WDBJ
WDBO WDNC WDRS WDSU WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHP WIBX WIBX WICC
WISN WJAS WJSV WLAC WLBZ
WMBD WMBG WMBR WNOX WOC
WOKO WORC WQOW WPG WQAM
WREC WSFA WSJS WSPD WTOC

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 KFCR KGB
KGKO KHJ KLRA KLZ KMBC
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSa
KTUL KVI KVOR KWG WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WCAO WCCO WCOA
WDAE WDBJ WDBO WDNC WDRS
WDSU WEAN WFBL WFBM WFEA
WGR WGST WHEC WHI WIBX
WIBX WICC WISN WJAS WJSV
WKRC WLAC WLBZ WMBD
WMBG WMBR WNOX WOC WOKO
WORC WQOW WPG WQAM WREC
WSFA WSJS WSPD WTOC

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 WHFC WICC WLBZ WMAS
 WNAO WOKO WORC

R — Cities Service Concert
 CRCT KDYL KOA KPRC KSD
 KSTP KTBS KTHS KVOO KYW
 WRAP WBEN WCAE WCSH WDAF
 WFAF WIBC WEEL WFAA WFRB
 WGY WHO WHIO WIOD WJAR
 WKY WMAQ WQAI WOW WRC
 WRVA WSAI WTAG WTAM WTIC
 WTMJ WWJ

B — Irene Rich; Dramatic Sketch
 KDKA KDYL KFI KGW KHQ
 KOIL KOMO KPO KSO KTAR
 KWK WBAZ 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 KPAB KMBC KMOX WABC
 WADC WBBM WBT WCAO WCAU
 WCCO WDRC WEAN WFBL WFBM
 WGR WHAS WHK WJAZ WJSV
 WNAO WOC WOKO WSPD

B — Ruth Etting; Red Nichols
 KDKA KDYL KFI KFSB KGW
 KHQ KOIL KOMO KPO KSO KTAR
 KWK WBAZ 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 — Hollywood Hotel

CFRB CKAC CKLW KDB KERN
 KEAB KFBK KFH KFPY KFCRC
 KGB KHJ KLRA KLZ KMBC KMLJ
 KMOX KOIN KOL KOMA KRLL
 KRNT KSCJ KSL KTRH KTSK
 KTUL KVI KVOR KWG KWKH
 WAAC WADC WBBM WBNS WBRC
 WBT WCAO WCAU WCCO WDAE
 WDBJ WDBO WDRC WDSU WEAN
 WFBL WFBM WFEA WGST WHAS
 WHFC WHK WHP WIBW WBX
 WCC WJAZ WJSV WKBW WKRC
 WLAC WLBZ WMAS WMBD WMBG
 WMHR WNAO WNAO WNOX
 WOKO WORC WPG WQAM WREC
 WSPD

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

B — Palmolive Beauty Box Theatre
 CFRC CRCT KDKA KFYR KOIL
 KPRC KSO KSTP KTBS KWK
 WAPI WAVE WBAZ WBZ WBZA
 WCKY WDAY WEBC WENR WFAA
 WFIL WFLA WGAR WHAM WIBA
 WIOD WIRE WIS WJAZ WJDX
 WJZ WKY WLS WMAL WMC WMT
 WQAI WPTF WREN WRVA WSB
 WSM WSNB WSOC WSYR WTAR
 WTMJ WWJ WNCN

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

WJAZ WJSV WKBW WKRC WOKO
 WSBT WSPD

R — Compana's First Nighter
 KDYL KFI KGW KHQ KOA KOMO
 KPO KPRC KSD KSTP KYW WBEN
 WCAE WCSH WDAF WFAF WEBC
 WEEL WFAA WFRB WGY WHO
 WJAR WKY WLW WMAQ WMC
 WQAI WOW WRC WSB WSM WSNB
 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 KHJ
 KRLL KRNT KSCJ KTRH WABC
 WACO WBBM WDBJ WDBO WDDO
 WFBM WGST WHJ WISN WJAZ
 WLAC WMBD WNAO WNOX WOC
 WORC WWO WWSK

B — Palmolive Beauty Box Theatre
 KDYL KFI KFSB KGHJ KGRB
 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 KFCRC
 KGB KHJ KLZ KMLJ KOIN KOL
 KVI KWG

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 KFCRC KGB KGKO KHJ
 KLRA KLZ KMBC KOH KOIN KOL
 KOMA KRLL KSCJ KSL KTSK
 KTUL KVI KVOR KWG KWKH
 WAAB WABC WACO WADC WBBM
 WBG WBRC WBT WCAO WCAU
 WDAE WDBJ WDBO WDNS WDDO
 WDRC WESG WFBM WFBM WGST
 WHAS WHFC WHK WHJ WHY
 WIBX WISN WJSV WKBW WJAZ
 WLBZ WMBD WMBG WMHR
 WQAM WOC WOKO WORC WOWO
 WQAM WREC WSBT WSFA 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 KFCRC KGB KGKO
 KHJ KLRA KLZ KMBC KOH KOIN
 KOL KOMA KRLL KSCJ KSL
 KTSK KTUL KVI KVOR KWG
 KWKH WAAB WABC WACO WADC
 WBBM WBG WBRC WBT WCAO
 WCAU WDAE WDBJ WDBO WDNS
 WDDO WDRC WESG WFBM WFBM
 WGST WHAS WHFC WHK WHJ
 WIBX WISN WJSV WKBW
 WLAC WLBZ WMBD WMBG
 WMHR WNOX WOC WOKO WORC
 WOWO WQAM WREC WSBT WSFA
 WSJS WSMK WSPD WTOC WWVA

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

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

WCAU WCOA WDAE WDBJ WDBO
 WDNC WDDO WDRC WEAN WESG
 WFHL WFEA WGST WHAS WHFC
 WHK WHP WIBW WIBX WICC
 WISN WJAZ WJSV WKBW WKRC
 WLAC WLBZ WMAS WMBG WMHR
 WNOX WOC WOKO WORC WOWO
 WQAM WREC WSBT WSFA 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 KRLL
 KSCJ KSL KTSK KVI KVOR KWG
 KWKH WAAB WABC WACO WADC
 WBBM WBG WBNS WBRC WBT
 WCAU WCOA WDAE WDBJ WDBO
 WDNS WDDO WDRC WEAN WESG
 WFBM WFBM WFEA WGR WGST
 WHAS WHFC WHK WHP WIBW
 WIBX WICC WISN WJAZ WJSV
 WKRC WLAC WLBZ WMBD WMBG
 WMHR WNOX WOC WOKO WORC
 WOWO WQAM WREC WSBT WSFA
 WSJS WSMK WSPD WTOC

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

KDYL KFYR KOA KSD KSTP
 KYW WAPI WAVE WHEN WCAE
 WCSH WDAY WEAF WEBC WEEL
 WFRB WFLA WGY WHO WIBA
 WIOD WIRE WIS WJAR WJAZ
 WJDX WMAQ WMC WOW WPTF
 WRV WRVA WSAI WSB WSM
 WSNB WSOC WTAG WTAM WTAR
 WTIC WTMJ WWJ WNCN

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

KDYL KFI KFSB KFYR KGHJ
 KGRB KGU KGW KHQ KOA KOMO
 KPO KPRC KSD KSTP KTAR
 KTBS KTHS KVOO KYW WAPI
 WAVE WHAP WBEN WCAE WCSH
 WDAF WDAY WEAF WEBC WEEL
 WFAA WFRB WFLA WGY WHO
 WHIO WIBA WIOD WIRE WIS
 WJAR WJAZ WJDX WKY WLW
 WMAQ WMC WQAI WOW WPTF
 WRC WRVA WSB WSM WSNB
 WSOC WTAG WTAM WTAR WTIC
 WTMJ WWJ WNCN

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 KRLL
 KSCJ KSL KTSK KVI KVOR KWG
 KWKH WAAB WABC WACO WADC
 WBG WBNS WBRC WBT WCAU
 WCOA WDAE WDBJ WDBO WDNS
 WDDO WFBM WFBM WFLA WGR
 WGST WHAS WHFC WHK WHP
 WIBX WIBX WICC WISN WJAZ
 WJSV WKRC WLAC WLBZ WMBD
 WMBG WMHR WNOX WOC WOKO
 WORC WOWO WQAM WREC WSBT
 WSFA WSJS WSMK WSPD WTOC

R — G-Men; Drama

KDYL KFI KFSB KFYR KGHJ
 KGRB KGU KHQ KOA KOMO KPO
 KPRC KSD KSTP KTAR KTBS
 KYW WAPI WAVE WHAP WBEN
 WCAE WCSH WDAF WDAY WEAF
 WEBC WEEL WFRB WFLA WGY
 WHO WHIO WIBA WIOD WIRE
 WIS WJAR WJAZ WJDX WKY
 WLW WMAQ WMC WQAI WOW
 WPTF WRC WRVA WSB WSM
 WSNB WSOC WTAG WTAM WTAR
 WTIC WTMJ WWJ WNCN

SATURDAY (Continued)

ED-9:30 p.m., E-8:30, 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
KTSa KVI KVOR KWG KWKH
WAAB WABC WACO WADC WBBM
WBIG WBNS WBRC WCAU WCCO
WCOA WDBJ WDBO WDNC WDDO
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBX WICC
WISN WJSV WKRC WLAC WLZB
WMAS WMBR WNOX WOC WOKO
WORC WOWO WQAM WRC WWSA
WSJS WSMK WSPD WTOC

R — Al Jolson; Victor Young

KDYL KFI KFSD KFYR KGHL
KGIR KGW KHQ KOA KOMO
KPO KSD KSTP KTAJ KYW WBNB
WCAE WCSH WDAF WDAY WFAE
WIBC WEBC WFLA WGY WHO
WHIO WIBA WIOD WIS WJAR
WJAX WLW WMAQ WOW WPTT
WRC WRVA WSOB WTAT WTAM
WTAR WTIC WTJW WJW WNNC

B — National Barn Dance

KDKA KOIL KSO KWK WHAL
WBZ WBZA WFIL WGAR WIAM
WIRE WJZ WLS WMAL WMT
WREN WSZR

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

C — Jan Garber's Orchestra
CFRB CKAC CKLW KDB KFHK
KFH KFPY KFRC KGB KGKO
KHJ KLZ KMOX KOH KOIN KOL
KRLD KSCJ KSL KTSa KTUL
KVI KVOR KWG KWKH WAAB
WABC WACO WADC WBBM WBIG
WBNS WBRC WCAU WCCO WDBJ
WDBO WDNC WFBM WFGM WGST
WHAS WHEC WHK WHP WIBX
WIBX WISN WJAS WJSV WKRC
WLAC WLZB WMAS WMBD WMBR
WNOX WOC WOKO WPG WREC
WWSA 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 KFHK KFH
KFPY KFRC KGB KGKO KLRA
KLZ KMBC KMOX KOH KOIN
KOL KOMA KRLD KTSa KTUL
KVI KVOR KWG KWKH WABC
WACO WADC WBBM WBIG WBNS
WBRC WBT WCAO WCAU WCOA
WDAE WDBJ WDBO WDNC WDDO
WDRB WFBL WFBM WFEA WGST
WHAS WHEC WHK WHP WIBX
WIBX WICC WJAS WJSV WKRB
WKRC WLAC WLZB WMAS WMBR
WNOX WOKO WORC WPG WQAM
WREC WSBT WWSA WSJS WSMK
WSPD WTOC WWVA

B — National Barn Dance

KDYL KFI KFYR KGW KHQ
KOA KOMO KPO KFRC KSTP
KTBS KTHS KVOO KWAY WPAF
WDAY WEBC WIBA WIDX WKY
WLW WMC WOI WSB WSMH

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

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

WDBJ WDBO WDNC WDDO WDRB
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK WHP WIBX
WIBX WICC WISN WJAS WJSV
WKRB WKRC WLAC WLZB WMAS
WMBD WNAC WNAX WNOX WOKO
WORC WPG WQAM WREC WSBT
WWSA 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 KFHK
KFH KFPY KGB KGKO KLRA KLZ
KOH KOIN KOL KOMA KRLD
KSL KTSa KTUL KVI KVOR KWG
KWKH WABC WACO WADC WBNS
WBRC WBT WCAO WCAU WCOA
WDBJ WDBO WDNC WDDO WVEAN
WFBL WFBM WHAS WHK WHP
WIBX WICC WKRB WKRC WLAC
WMBR WNAC WNOX WOC WOKO
WQAM WREC WSBT WWSA 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 KFHK KFH KGKO
KLRA KLZ KOMA KRLD KRNT
KSCJ KSL KTRH KTSa KTUL
KWKH WACO WADC WALA WBIG
WBNS WBRC WBT WCAO WCCO
WCOA WDAE WDBJ WDBO WDNC
WDDO WDRB WDSU WESG WFBL
WFEA WGST WHP WIBX WIBX
WISN WJAS WJSV WKBN WLAC
WLZB WMAS WMBD WMBR WNAC
WNAX WOC WOKO WORC WOWO
WPG WQAM WREC WWSA WSJS
WSMK WSPD WTOC

R — Major Bowes' Capitol Family

KDYL KFYR KOA KPRC KSTP
KTBS KVOO WAPI WCAE WDAF
WDAY WFAE WIBC WFAA WFBH
WFLA WGY WHO WHIO WJAR
WJAX WKY WMAQ WMC WOAI
WRC WRVA WSAI WSMB WTAT
WTAM WNNC

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 KTSa
KTUL KVOR KWG KWKH WAAB
WABC WACO WADC WALA WBNS
WBRC WBT WCAU WCCO WCOA
WDAE WDBO WDNC WDDO WDSU
WEAN WESG WFBL WFBM WGR
WGST WHAS WHP WIBX WIBX
WICC WISN WJAS WJSV WKBN
WLAC WLZB WMBD WMBR WNAX
WOC WOKO WORC WPG WQAM
WREC WWSA WSPD WTOC

B — Radio City Music Hall

CFBC CRTT KDKA KDYL KFI
KFYR KGO KGW KHQ KOA KOIL
KOMO KPRC KSO KVOO WAPI
WBAL WBZ WBZA WCKY WDAY
WEBC WGAR WIAM WIS WIDX
WJZ WKY WMAL WOAI WREN
WSMB WSZR WNNC

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

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

WBNS WBRC WBT WCAO WCCO
WCOA WDAE WDBJ WDBO WDNC
WDDO WDRB WESG WFBL WFBM
WGR WGST WHAS WHEC WHP
WIBX WISN WJAS WJSV WKBN
WKRC WLAC WLZB WMBD WMBR
WOC WOKO WORC WPG WQAM
WREC WSBT WWSA 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 KFHK KFH KFPY KFRC
KGB KGKO KHJ KLRA KMBC
KMOX KOH KOL KOMA KRLD
KRNT KSCJ KTRH KTSa KVI
KVOR KWG KWKH WAHC WADC
WALA WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDDO WVEAN WESG WFBL
WFBM WGR WGST WHAS WHEC
WHK WHP WIBX WIBX WICC
WJAS WJSV WKBN WKRB WKRC
WLAC WLZB WMAS WMBD WMBR
WNAX WOC WOKO WORC WOWO
WPG WQAM WREC WSBT WWSA
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 KNJ
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KVI KVOR KWG
WAHC WACO WADC WBBM WBNS
WBRC WBT WCAO WCAU WCCO
WDBJ WDBO WDRB WDSU WEAN
WESG WFBL WFBM WGST WHAS
WHEC WHK WHP WIBX WJAS
WJSV WKBN WKRB WKRC WLAC
WMBG WNAC WOKO WOWO
WSPD

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

C — Symphonic Hour, Howard Barlow
CFRB CKAC CKLW KERN KFHK
KFH KFPY KFRC KGB KGKO
KHJ KLRA KLZ KMBC KMOX
KOH KOL KOMA KRLD KRNT
KSCJ KSL KTRH KTSa KVOR
KWG KWKH WABC WACO WADC
WALA WBBM WBNS WBRC WBT
WCAO WCCO WDAE WDBJ WDBO
WDNC WDDO WDRB WDSU WVEAN
WESG WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WIBX WIBX WICC WISN WJAS
WKBN WKRB WKRC WLAC WLZB
WMAS WMBD WMBG WMBR
WNOX WOC WOKO WORC WPG
WQAM WREC WSBT WWSA 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 WFAE WFEI WFBH WGY
WHO WHIO WJAR WMAQ WOC
WRC WSAI WTAT WTAM WTIC
WJZ

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

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

SUNDAY (Continued)

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

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 WDRG WEAN
WFBL WFBM WGR WHAS WHEC
WHK WJAS WJSV WKRC WOKO
WSPD

R — Rhythm Symphony

KDYL KFI KFSD KFYR KGW
KHQ KOA KOMO KPO KPRC
KSTP KTBS KTHS KVCB KYW
WAPI WAVE WRAP WBNB WCAE
WCSH WDAF WEAF WEBC WEEI
WFBR WFLA WGY WHO WHIO
WIBA WIOD WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOW
WPTF WRC WRVA WSAI WSB
WSM WSMB WTAG 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-3:30

C — Frank Crummit-Julia Sanderson

CKLW KFH KMBC KMOX KOMA
KTUL WAAB WABC WADC WBNS
WCAO WCAU WDRG WDSU WEAN
WFBL WFBM WGR WHAS WHEC
WHK WIBX WICC WJSV WMAS
WOKO WORC WSPD WWVA

R — Dream Drama

KYW WBNB WCAE WCSH 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 KFBK
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLL
KSL KVI KWG WAAB WABC
WBBM WBNS WBT WCAO WCAU
WCCO WDRG WDSU WFBL WFBM
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 WDRG WEAN WFBL
WHAS WJAS WJSV WKBW WKRC

B — Compana's Grand Hotel

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KSTP KWK
WBAL WBZ WBZA WCKY WEBC
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 KFBK
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 WBBM
WBCG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRG WDSU
WEAN WESG WFBL WFBM WFEA
WGR WGST WHAS WHEC WHK
WHP WIBW WIBX WICC WISN
WJAS WJSV WKBW WKRC WLAC
WLWB WMAS WMBD WMBR WNAC
WNAX WNOX WOC WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOG
WWVA

B — Lanny Ross' State Fair

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

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

C — Joseph Gallicchio's Orchestra

CFRB CKLW KDB KFAB KFBK
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 WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRG WDSU
WEAN WESG WFBL WFBM WFEA
WGR WGST WHAS WHEC WHK
WHP WIBW WIBX WICC WJAS
WJSV WKBW WKRC WLAC WLWB
WMAS WMBD WMBR WNAC
WNAX WNOX WOC WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOG
WWVA

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

R — Sunset Dreams; Morin Sisters

CFRC KSD KYW WBNB WCAE
WCSH WEAF WFBR WGY WHO
WHIO WIRE WJAR WLW WMAQ
WRC WTAG WTAM WTIC WWJ

R — Fireside Recitals

KSD KYW WBNB WCAE WCSH
WDAF WEAF WFBR WGY WHO
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 WBNB WCAE
WCSH 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
WDRG WEAN WFBL WFBM 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 WBNB WBZ
WBZA WCAE WCSH WDAF WDAY
WEAF WEBC WFAA WFBR WFLA
WGY WHO WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI 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
WBIG WBNS WBRC WBT WCAO
WCAU WCOA WDAE WDBJ WDBO
WDNC WDOD WDRG WDSU WEAN
WESG WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WICC WJAS WJSV WKBW WKRC
WLAC WLWB WMAS WMBR WNAC
WNOX WOKO WORC WOWO WQAM
WREC WSBT WSFA WSJS WSMK
WSPD WTOG WWVA

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

C — America's Hour, Drama

CFRB CKAC CKLW KDB KERN
KFAB KFBK 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
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRG WDSU
WEAN WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJSV WKBW WKRC WLAC WLWB
WMAS WMBD WMBR WNAC
WNAX WNOX WOC WOKO WORC
WOWO WQAM WREC WSBT WSFA
WSJS WSMK WSPD WTOG

R — Manhattan Merry-Go-Round

CFRC KDYL KFI KFYR KGW
KHQ KOA KOMO KPO KSD KSTP
KYW WBNB WCAE WCSH WDAF
WDAF WEAF WEBC WFER WGY
WHO WHIO WIBA WJAR WMAQ
WOW WRC WSAI WTAG WTAM
WTIC WTMJ 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 WBNB WCAE WCSH WDAF
WDAF WEAF WEBC WEEI WFAA
WFBR WFLA WGY WHO WHIO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOW WPTF WRC WRVA WSAI
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTMJ WWJ 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 KFBK
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLL
KSL KVI KWG WAAB WABC
WADC WBBM WBNS WCAO WCAU
WCCO WDRG WDSU WFBL WFBM
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 WBNB
WCAE WCHS WDAF WDAY WEAF
WEBC WEEL WFBR WGY WHO
WIBA WJAR WLW WMAQ WOW
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 KFRC KGB KGKO
KILJ KLRA KLZ KMBC KMON
KOH KOL KOMA KRLD KRNT
KSCJ KTRH KTSA KTUL KVI
KVOR KWG KWKH VAAB WABC
WADC WALA WBIG WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDNB WDDW WFBL
WFEA WGST WHAS WHEC WHK

WHP WIBW WIBX WISN WJAS
WJSV WKBN WKBW WKRC WLAC
WLBZ 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 KILJ KLRA KLZ KMBC
KMOX KOH KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSA
KTUL KVOR KWG WABC WACO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCCO WCOA
WDAE WDBJ WDBO WDNB WDDW
WDRB WDSU WFBL WGST WHEC
WHK 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 KPRC KTRR KTBS
KTHS WBAP WDAF WKY WOAI

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 KTRR

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

B — Lanny Ross' State Fair
KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO
KTRR

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
Johann Miniatures, 6:45 p.m. Monday, C
Radio City Music Hall, 12:30 p.m. Sunday, B
Symphonic Hour, 8:00 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, C
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
Horace 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 Leafer, 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. Saturday, 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
Fireless 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
Palmyrie 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
 Vivlan Della Chiesa, 7:00 p.m. Sunday, C
 Jesslea 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
 Intercollegiate 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 CFNB 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 CMBC Havana, Cuba, 195 to 200
 960 CMCD 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 WGCM 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 CKNX 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 CMCQ Havana, Cuba, 162 to 150
 1290 KTRH Houston, Texas, 500 to 1000
 1310 KKCQ Quebec, Que., 50 to 100
 1310 KINY Juneau, Alaska, 250 to 100
 1320 KGMH Honolulu, Hawaii, 250 to 1000
 1340 CMJL Camaguey, Cuba, 50 to 75
 1350 CMCA 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
 1420 CMCR Havana, Cuba, 122 to 150
 1430 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 CFNO Chatham, Ont., from 1050
 780 CMJK Camaguey, Cuba, from 760
 850 KWKH Shreveport, La., from 1100
 890 KFPY Spokane, Wash., from 1340

900 KSEY Pocatello, Idaho, from 890
 980 XEAF Nogales, Sonora, from 1010
 1020 WDZ Tuscola, Ill., from 1070
 1120 CMKM Manzanillo, Cuba, from 940
 1120 WGCM Mississippi City, Miss., from 1210
 1150 NEPL Tijuana, B. C., from 1160
 1160 CMHJ Cienfuegos, Cuba, from 1180
 1199 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 KGIR Butte, Mont., from 1360
 1360 KCRC Enid, Okla., from 1370
 1390 CMJC Camaguey, Cuba, from 1380
 1410 CHNC New Carlisle, Que., from 1210
 1420 WGBS 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 CKNX Wingham, Ont., from 10-BP
 1210 CJCS Stratford, Ont., from 10-AK
 1380 WNBC New Britain, Conn., from WMFE
 1410 KGNC Amarillo, Texas, from WGRS

DELETED

850 WWPA Clarion, Pa.
 1410 WDAG Amarillo, Texas
 1420 KGIN 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. (513) 5. Ljubljana, Yug. (527) 5 Tartu, Est. (517)</p>	<p>600 (499.7) </p> <p>CNR 25. Rabat, Mor. (601) Radio Maroc. Office Cherifiens des Postes et Telegraphes. RW82 4. Frounze, U.S.R. (608) SBD 10. Sundsvall, Swe. (604) XMHA 1. Shanghai, Chn. ZTC 10. Cape Town, S. Af. 4QN N. Queensland, Ausl.</p>	<p>ZTJ 10. Johannesburg, S. Af. (645) SCK 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 Auckland, N. Z. 100. Cologne, G. (658) Dagoherlstrabe No. 38</p>
<p>530 (565.7) </p> <p>H1BZ 1. Bolzano, I. (536) 16. Wilno, Pol. (536)</p>	<p>610 (491.5) </p> <p>CX4 1. Montevideo, Uru. I1FI 20. Florence, I. EIAR Stazione di Firenze. JODK2 10. Keijo, Ko. KZRM 50. Manila, P. I. (618.5) RW22 10. Oufa, U.S.R. (617) RW79 10. Murmansk, U.S.R. XGSS .015 Hsing-shih, Chn. 2FC 3.5 Sydney, Ausl.</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>540 (555.2) </p> <p>HAL 120. Budapest, Hun. (546) Budapest VIII, Sandor Utcas No. 7.</p>	<p>620 (483.6) </p> <p>CE62 1. Santiago, Chl. (625) CT1AA 20. Lisbon, Por. (629) Emissora Nacional. JOTK .5 Matsuyra, Jap. (625) LKT 10. Trondelag, Nor. (629) LV1 1.5 San Juan, Arg. LV3 2. Cordoba, Arg. RW31 10. Ivanovo, U.S.R. (625) XTOY .5 Taiyan, Chn. (625) 4ZP .5 Invercargill, N. Z. No. 1 15. Brussels, Belg. la Rue du Bastion 20. Cairo, Egypt. 20. Jerusalem, Pal.</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 Groznyy, U.S.R. (676) XGOF 1. Foochow, Chn. (675) 2CO 7.5 Corowa, Ausl. 25. Sottens, Swi. (677) Report to PTT Berne, Speichergasse No. 6.</p>
<p>550 (545.1) </p> <p>RW34 10. Stalingrad, USR (554) Central NSW Ausl. 2CR 100. Beromunster, Sw. (556). Report to PTT, Berne, Speichergasse No. 6.</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 Viadvost'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>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 Tcheboksary, U.S.R. XGOK 1. Canton, Chn. (682) 2.5 Belgrade, Yug. (686) 1.5 Salisbury, S. Af. (681.9)</p>
<p>560 (535.4) </p> <p>I1PA 4. Palermo, I. (565) MTAY 100. Shinkyo, Mch. MTCY 100. Shinkyo, Mch. RW41 1.2 Sytkykar, USR (563) XLHB .06 Shanghai, Chn. ZTG 10. Grahamstown, S. Af. South West, W. Ausl. 6WA 60. Athlone, IFS (565) Radio Atha Luain.</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>690 (434.5) </p> <p>CX8 1. Montevideo, Uru. XGOY .5 Yuen-nan, Chn. 6WF 3.5 Puerth, Ausl. 7. Paris, F. (695) FPTT Ecole Superieure des Postes et Telegraphes</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>650 (483.6) </p> <p>CE62 1. Santiago, Chl. (625) CT1AA 20. Lisbon, Por. (629) Emissora Nacional. JOTK .5 Matsuyra, Jap. (625) LKT 10. Trondelag, Nor. (629) LV1 1.5 San Juan, Arg. LV3 2. Cordoba, Arg. RW31 10. Ivanovo, U.S.R. (625) XTOY .5 Taiyan, Chn. (625) 4ZP .5 Invercargill, N. Z. No. 1 15. Brussels, Belg. la Rue du Bastion 20. Cairo, Egypt. 20. Jerusalem, Pal.</p>	<p>690 (434.5) </p> <p>CX8 1. Montevideo, Uru. XGOY .5 Yuen-nan, Chn. 6WF 3.5 Puerth, Ausl. 7. Paris, F. (695) FPTT Ecole Superieure des Postes et Telegraphes</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 1. Hobart, Ausl. 20. Lisbon, Por. (629) 15. Grenoble, F. (583)</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>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>
<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, Johan- nesgrasse No. 4B.</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 Groznyy, U.S.R. (676) XGOF 1. Foochow, Chn. (675) 2CO 7.5 Corowa, Ausl. 25. Sottens, Swi. (677) Report to PTT Berne, Speichergasse No. 6.</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

<p>XMHC .5 Shanghai, Chn. ZP15 .. Villarrica, Par. 2NR .. Northern Rivers, Ausl.</p>	<p>PRD9 .25 Sorocaba, Brz. (769) XLHI .0075 Shanghai, Chn. XLHJ .1 Shanghai, Chn. 50. Falkirk, G.B. (767) Scottish Regional</p>	<p>LR5 16. 4 a.m.-7:30 a.m. Buenos Aires, Arg. Radio Excelsior. Ave. de Mayo 821. RW39 100. Moscow, U.S.R. (832) Innan Marr, Esq. Moscow-Stalin Radio Station. XGWH .03 Wuhu, Chn. 3GI 7. Gippssland, Aust.</p>
<p>710 (422.3) []</p> <p>IIRO 50. Rome, I. (713) JOJK 3. Kanazawa, J. LS1 5. Buenos Aires, Arg. XGML .0075 Kashing, Chn. (714.3) XGOS 1 Chunching Chn. (711)</p>	<p>770 (389.4) []</p> <p>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</p>	<p>840 (356.9) []</p> <p>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 Reichssender. Berlin Brdcstg. House</p>
<p>720 (416.4) []</p> <p>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, USR (722) RW28 10. Viavivos., USR (725) RW73 10. Simferopol, USR (725) XLHD .1 Shanghai, Chn. 3YA 2.5 Christchurch, N. Z. 6GF .. Kalgoortie, Ausl.</p>	<p>780 (384.4) []</p> <p>CE78 1. Santiago, Chl. (785) JOJK .5 Shizuoka, J. KZEG 1. Manila, P. I. LT1 5. Rosario, Arg. PRE7 1. Sao Paolo, Brz. (788) XGOD 1. Hangchow, Chn. (977.5) XHHC .1 Shanghai, Chn. 120. Leipsig, G. (785) Temporarily on low poer.</p>	<p>850 (352.7) []</p> <p>CX16 2.5 Montevideo, Uru. EAJ3 1.5 Valencia, Sp. HSP1 2.5 Bangkok, Siam (857) JOFK 10. Hiroshima, J. LKA .35 Aalesund, Nor. LKB 1. Bergen, Nor. LKD .5 Sodo, Nor. LKP .7 Borsgrund, Nor. PR4A .5 Bahia, Brz. (857) PRB3 .25 Juz de Fora, Brz. (857) RW52 10. Simferopol, U.S.R. (859) VQ7LO .6 Nairobi, Ken. (858) VUB 3. Bombay, In. (855) XOST .5 Tsinan, Chn. (855) SRM .5 Renmark, Ausl. 1. Sofia, Bul. 35. Strasbourg, F. (859) Radio Strasbourg PTT, 30 Rue du 22 Nov.</p>
<p>730 (410.7) []</p> <p>CE73 1. Vina del Mar, Chl. CX10 1. Montevideo, Uru. EAJ2 3. Madrid, Sp. (731) Radio-Espana EAJ5 1.5 Sevilla, Sp. (731) JOSK 1. Kokura, J. (735) RW65 1. Saransk, USR. (734) XHGS .05 Huchow, Chn. SCL 2. Adelaide, Ausl. 20. Tallin, Est. (731)</p>	<p>790 (379.5) []</p> <p>EAJ1 5. Barcelona, Sp. (795) Union Radio. JOJK 10. Kumamoto, J. LR10 8. Buenos Aires, Arg. ZTB .5 Bloemfontaine, S. Af. 4YA .5 Dunedin, N. Z. 16. Lwow, Pol. (795) Polskie Radio SA, Rozglosnia we Lwowie</p>	<p>860 (348.6) []</p> <p>CE86 1. Santiago, Chl. (865) LV10 .5 Mendoza, Arg. PR3A 2.5 Rio de Janeiro, Brz. XHHD 0.5 Shanghai, Chn. 16. Poznan, Pol. (868) 6. Agen, F. (868)</p>
<p>740 (405.2) []</p> <p>OFD 1. Pori, Fin. (749) PRE6 1.5 Uberaba, Brz. RW51 1.2 Naltchik, USR. (748.1) XHMB .05 Shanghai, Chn. ZBL 3. Sydney, Ausl. 100. Munich, G., Funkhaus Rundfunkplatz No. 1 5. Marseilles, F. (749) PTT 2. Sortavaala, Fin. (749)</p>	<p>800 (374.8) []</p> <p>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</p>	<p>870 (344.6) []</p> <p>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.</p>
<p>750 (399.8) []</p> <p>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. PRA2 1.5 Rio de Janeiro, Brz. PRA8 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)</p>	<p>810 (370.2) []</p> <p>CE81 1. Valparaiso, Chl. CX14 5. Montevideo, Uru. II10 50. Milan, I. (814) JOCK1 10. Nageya, J. PR6G 1. Sao Paolo, Brz. (815) VUC 3. Calcutta, In.</p>	<p>880 (365.6) []</p> <p>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)</p>
<p>760 (394.5) []</p> <p>CE76 10. Valparaiso, Chl. (765) LT4 .2 Mendoza, Arg.</p>	<p>830 (361.2) []</p> <p>JOIK 10. Sapporo, J. T. Okada, Chf. Engr. EST Daily.</p>	

FOREIGN B. C. STATIONS BY FREQUENCIES

880 (340.7)

CE88 .1 Valparaiso, Chl.
Oswaldo Barra D.,
Edificio "El Mer-
curio", Casilla 57D.
HS7PJ .. Bangkok, Siam (882)
LV2 7. Cordoba, Arg.
PRB2 .25 Prityba, Brz. (882)
RW61 1. Iochar-Ola, USR.
(888)
VUL .1 Lahore, In. (882)
XHHV .1 Shanghai, Chn.
YV2RC .1 Caracas, Venez. (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.
ZZP .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. Neuho 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 Niligata, 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. Yana-
da, Dir. EST Daily
4-1930
PRE4 .25 Sao Paulo, Brz. (941)
SBB 10. Goteborg, Swe. (941)
XHHH 1. Shanghai, Chn.
3ZR .12 Greymouth, N. Z.
..... 14. Algiers, Alg. (941)
Radio PTT du Govt.
Gen., Rue Berthe-
zene, 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, Venez.
ZZF .15 Palmerston, N. Z.
SDN 3. Adelaide, Ausl.

970 (309)

CX22 .25 Montevideo, Uru.
JOGB .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)
IIGE 10. Genoa, I. (986) EIAR
Stazione di Genoua.
Tokushima, J. T.
Tsutsumi, Chf. Engr.
EST Daily 2205-730;
Sun., 2230-730.
OAX4E .05 Lima, Peru, Juan P.
Goincochea, Jiron
Ocona No. 158
PRC6 1. R'de Janeiro, Brz.
XMBH .5 Shanghai, Chn.
ZTP .5 Pretoria, S. Af. (985)
ZZJ .25 Gisborne, N. Z.
4AY .03 Agr. Ausl. Norman
L. Dahl, Airdmilton
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)
Holr Radio Hilver-
sum, Ouden, Eng-
we, 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 Vox de La Vic-
tor", 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-shi, 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
Brdcstg. Service",
EST. Daily 245-730;
Sun., 345-8.,
..... 50. Davenport, 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 Portu-
guese.
LR9 5. Buenos Aires, Arg.
YV11BMO .5 Maracaibo, Venez.
(1034)
3DB .6 Melbourne, Ausl.
..... 60. Konigsberg, G. (1031)

1040(288.3)

CE104 .1 Magailanes, Chl.
CP4 10. La Paz, Bol.
CW25 .5 Durazon, Uru.
PRC8 .25 R' de Janeiro, Brz.
RW70 10. Lenigrad, USR.
XHHH .1 Shanghai, Chn.
SPI 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

<p>I1BA 20. Bari, I. (1059) EIAR Stazione di Bari</p> <p>RW33 10. Krasnodar, U.S.R.</p> <p>XHKA .05 Tien-tsin, Chn.</p> <p>2CA .5 Canberra, Ausl.</p> <p>4ZB .07 Dunedin, N. Z.</p> <p>4ZM .1 Dunedin, N. Z.</p> <p>4ZO .025 Dunedin, N. Z.</p> <p>..... 50. Falkirk, G. B. Scot- tish National</p>	<p>..... 10. Normandie, F. (1113) Fecamp</p>	<p>..... 10. Cophgen., Den. (1176) Strats Radio Fonien Heibergsgrade No. 7.</p>
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>1060(282.8) </p> <p>CE106 1. Santiago, Chl. LT9 2. Santa Fe, Arg. RW57 4. Tiraspol, U.S.R. (1068) XHHI .1 Shanghai, Chn. 1YB .025 Melbourne, Ausl. 4MB .05 Maryborough, Ausl.</p> </div> <div style="width: 30%;"> <p>1120(267.7) </p> <p>CW29 .05 Mercedes, Uru. HAE 6.2 Nyiregyhaza, Hung. (1122)</p> <p>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.</p> <p>..... .25 Alexandria, Eg. (1122)</p> <p>..... 1. Newcastle, G.B. (1122)</p> </div> <div style="width: 30%;"> <p>1180(254.1) </p> <p>CE118 1. Santiago, Chl. (1185) CW32 .25 Salto, Uru. LKM .1 Tromso, Nor. (1186) RW20 10. Kharkov, U.S.R. (1185) XHHM .1 Shanghai, Chn. 3KZ .6 Melbourne, Ausl., S. Morgan, 64 Elizabeth St., "The Brighton Brdcstg. Service".</p> </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>1070(280.2) </p> <p>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</p> </div> <div style="width: 30%;"> <p>1130(265.3) </p> <p>CX30 .5 Montevideo, Uru. SBH 10. Horby, Swe. (1131) XGOC .5 Nan-chang, Chn. (1132)</p> <p>6ML .3 Perth, Ausl.</p> </div> <div style="width: 30%;"> <p>1190(252) </p> <p>CE119 .1 Magallanes, Chl. LS2 25. Buenos Aires, Arg. Radio Prieto, Bolvar 1356</p> <p>XHPA .03 Peiping, Chn. (1194) 2CH 1. Sydney, Ausl. 25. Frankfurt, G. (1195) Eschersheimer Lands- trabe No. 33.</p> <p>..... 5. Freiburg, G. (1195) ..... .5 Kaiserslautern (1195) 2. Trier, G. (1195) ..... .5 Cassel, G. (1195) 2. Coblenz, G. (1195)</p> </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>1080(277.6) </p> <p>CE108 .1 Concepcion, Chl. (1085)</p> <p>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)</p> </div> <div style="width: 30%;"> <p>1140 (263) </p> <p>CE114 .1 Santiago, Chl. (1145) CW30 .. Tucuaembo, Uru. I1T0 7. Turin, I. XHDH .1 Shanghai, Chn. 2HD .5 Newcastle, Ausl. 4YO .2 Dunedin, N. Z. 20. London National, G.B. (1149)</p> <p>..... 20. North National, G.B. (1149)</p> <p>..... 20. West National, G.B. (1149)</p> </div> <div style="width: 30%;"> <p>1200(249.9) </p> <p>CE120 .1 Curico, Chl. (1205) CW33 .075 Florida, Uru. HJ3ABE 1. Bogota, Cib., Uribe y Moreno, P. O. Box 317.</p> <p>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)</p> </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>1090(275.1) </p> <p>CE109 .1 Valparaiso, Chl. CX28 2. Montevideo, Uru. EAJ7 7. Madrid, Sp. (1095) Union Radio Station EAJ7, Apto 745.</p> <p>PRC2 3. Porto Alegre, Brz. PRC7 .25 Belo Horizonte, Brz. RW75 10. Vinnitsa, U.S.R. (1095) 1ZB 2. Auckland, N. Z.</p> </div> <div style="width: 30%;"> <p>1150(260.7) </p> <p>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)</p> <p>XGGW .05 Tsin-tao, Chn. YV17BMO .5 Maracalbo, Venz. (1153)</p> <p>2WG .05 Wagga, Ausl. 2ZM .07 Gisborne, N. Z. 2.6 Kosice, Cz. (1158)</p> </div> <div style="width: 30%;"> <p>1210(247.8) </p> <p>CX34 .5 Montevideo, Uru. OAAAR .025 Lima, Peru 2GF .05 Grafton, Ausl. 6KG .5 Kalgoorlie, Ausl. 5. Lille, F. (1213) Radio PTT Nord (testing) South Queensland, Aust.</p> </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>1100(272.6) </p> <p>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.</p> <p>7LA .3 Lancaston, Ausl. 50. Madona, Lat. (1104)</p> </div> <div style="width: 30%;"> <p>1160(258.5) </p> <p>CW31 .25 Salto, Uru. LT5 .5 Resistencia, Arg. XHHU .1 Shanghai, Chn. 4MK .1 Mackay, Ausl. 15. Mte. Ceneri, Sw. (1167)</p> <p>Report to PTT Berne, Spelghergasse No. 6</p> </div> <div style="width: 30%;"> <p>1220(245.8) </p> <p>CE122 .25 Santiago, Chl. (1225) CW34 .25 Salto, Uru. I1TR 10. Trieste, I. (1222) XGOT .5 Pei-ping, Chn. 4ZL .1 Dunedin, N. Z.</p> </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>1110(270.1) </p> <p>CE111 .1 Osorno, Chl. (1115) LS5 4.5 Buenos Aires, Arg. OKK 11.2 Moravska, Cz. (1113) 2UW .75 Sydney, Ausl., J. M. Prattice, Box 241D, GPO. "At the Cross Roads of Sydney". 24 hrs. daily.</p> </div> <div style="width: 30%;"> <p>1170(256.3) </p> <p>CE117 .25 Valparaiso, Chl. CX32 .5 Montevideo, Uru. JOCK2 10. Nagoya, J. (1175) PRB6 .25 Cruzeiro do Sul, Brz PRC9 .25 Campinas, Brz. XGDM .01 Changchow, Chn. XGSM .025 Suchow, Chn. XLIF .015 Wusih, Chn. 2ZD .008 Masterton, N. Z. 4TO .2 Townsville, Ausl.</p> </div> <div style="width: 30%;"> <p>1230(243.8) </p> <p>HJ4ABK .3 Medellin, Cib. LS8 20. Buenos Aires, Arg. XGLS .1 Suchow, Chn. .2NC 2. Newcastle, Ausl. 5. Gleiwitz, G. (1231)</p> </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>1240(241.8) </p> <p>CE124 .1 Concepcion, Chl. (1245)</p> </div> </div>		

FOREIGN B. C. STATIONS BY FREQUENCIES

CW35 .25 Paysandu, Uru.
 LV14 .2 La Rioja, Arg.
 XGKT .01 Suchow, Chn.
 XHHY .1 Shanghai, Chn.
 2ZL .05 Hastings, N. Z.
 3TR .25 Sale, Ausl. 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)
 HC2JB .03 Guayaquil, 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.
 12M .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, Ausl. 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, Ausl.
 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. (1295)
 4BK .3 Brisbane, Ausl.
 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 PUSA. Calle de Plumeros.
 PRC4 .05 San Paulo, Brz. (1304)
 XQHC 50. Shanghai, Chn.
 2TM Tamworth, Ausl.
 3ZE .05 Graymouth, 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, Ausl.

1320(227.1)

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

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.
 XLIK .05 Changchow, Chn.
 XSRC .01 Suchow, Chn.
 4RO .05 Rockhampton, Ausl.
 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. Ile 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.
 OAGE .03 Arequipa, Peru
 3GL .05 Geelong, Ausl.
 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 Arraraquara, Brs. (1364)
 XQHD 2. Shanghai, Chn.
 2BH .1 Broken Hill, Ausl.
 2ZR .05 Nelson, N. Z.
 4PM Port Moresby, Ausl.
 7BU Burnie, Ausl.
 No. 2 1. Turin, I. (1366)

1370(218.8)

CX42 1. Montevideo, Uru.
 XHHA .05 Hangchow, Chn.
 ZPS .1 Asuncion, Par. (1376)
 3HS .05 Horsham, Ausl.
 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.
 XLFE .075 Shanghai, Chn.
 XLHF .05 Shanghai, Chn.
 4BH .6 Brisbane, Ausl.
 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, Ausl.
 5. Radio-Lyons, F. (1393)

1400(214.2)

CW43 .02 Cerro Largo, Uru.
 OAD6 .15 Arequipa, Peru
 PRD5 .5 R' de Janeiro, Brz.
 XLHO .1 Shanghai, Chn.
 2ZO .1 Palmerston, N. Z.
 6IX .3 Perth, Ausl.
 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, Ausl.
 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.
 1Z5 .05 Auckland, N. Z.
 3XY Melbourne, Ausl.
 1.5 Beziers, F. (1429)
5 Alexandria, Eg. (1429)
5 Turku, Fin. (1429)

1450(206.8) []
 CE145 .1 Rancagua, Chl.
 CX46 .1 Montevideo, Uru.
 XL1B .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 Albany, Ausl. John Dower, 47 York St. (Sydney)

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 Brcdstg. Co., "Ferranti Products"

1460(205.4) []

CW46 .03 Tucua-rembo, 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.

1490(201.2) []

CX48 1.5 Montevideo, Uru.
 ON4CE .1 Chatelaineau, 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

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)

1470(204) []

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

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.

1480(202.6) []

CW47 .1 Canelones, Uru.

1530(196.0) []

SCJ .2 Karlskrona, Swe.

FOREIGN B. C. STATIONS BY LOCATIONS

SOUTH AMERICA							
ARGENTINA		Mar del Plata		Campoos		Sao Paulo	
		LU6	1380	500	PRF7	1380	500
		Mendoza			Cruzeiro do Sul		
		LT4	760	200	PRB6	1170	250
		LV10	860	500	Curityba		
		Resistencia			PRB2	882	250
		LT5	1160	500	Fortaleza		
		Rosario			PRE9	1315	500
		LT1	780	5000	Franca		
		LT3	1080	3500	PRB5	1415	50
		LT8	840	350	Jaboticabal		
		Salta			PRG4	1442	250
		LV9	900	500	Juiz de Fora		
		San Juan			PRB3	857	250
		LV1	620	1500	Pelotas		
		LV5	1120	700	PRC3	920	250
		Santa Fe			Pernambuco		
		LT9	1060	200	PR A8	750	3000
		LT10	1300	100	Porto Alegre		
		Tucuman			PRC2	1090	3000
		LV7	820	500	Recife		
		BOLIVIA			PR A8	750	300
		La Paz			Riberirao Preto		
		CPX	1300	5000	PR A7	1153	50
		CP4	1040	10000	Rio Claro		
		BRAZIL			PRF2	725	250
		Arraraquara			Rio de Janeiro		
		PRD4	1364	250	PR A2	750	1500
		Bahia			PR A3	860	2500
		PR A4	857	500	PR A9	1100	1000
		Belem			PRB7	800	500
		PRC5	1360	100	PRC6	980	1000
		Bello Horizonte			PRC8	1040	250
		PRC7	1090	250	PRD2	932	1000
		Campinas			PRD5	1400	500
		PRC9	1175	250	PRE2	1330	500
					PRF4	923	10000
					PRF6	1282	10000
					Santos		
					PRB4	1000	1000
					CHILE		
					Concepcion		
					CE108	1085	100
					CE124	1245	100
					CE141	1410	100
					Curico		
					CE120	1205	100
					Magallanes		
					CE104	1040	100
					CE119	1190	100
					CE143	1430	100
					Osorno		
					CE111	1115	100
					CE133	1335	100
					Rancagua		
					CE139	1390	100
					CE145	1450	100
					San Antonio		
					CE135	1355	100
					Santiago		
					CE58	585	1000

FOREIGN B. C. STATIONS BY LOCATIONS

CE62 625 1000	OA6E 1350 30	Maracalbo							DENMARK
CE66 665 1000	OA6U 1443 50	YV11BMO 1034	....						Copenhagen
CE70 705 1000		YV17BMO							..... 1176 10000
CE78 785 1000	Lima	1153 500							ESTONIA
CE82 825 1000	OAX4A 750 1500	Sabana Grand							
CE86 865 1000	OAX4B 1200	YV4RC 1100	....						Tallinn
CE90 905 1000	OAX4C 1300								..... 731 20000
CE94 945 5000	OAX4E 980 50								Tartu
CE98 985 5000	OA4K 1360 150								..... 517 500
CE100 1005 500	OA4O 1277 100								FINLAND
CE102 1025 100	OA4D 1210 25								
CE106 1065 1000									Helsinki
CE110 1105 1000									OFA 895 10000
CE114 1145 100									Pietersaari
CE118 1185 1000	URUGUAY								..... 1500 250
CE122 1225 250	Artigas								Pori
CE126 1265 100	CW42 1380 20								OFD 749 1000
CE131 1315 100	Canelones								Sortavala
CE134 1345 150	CW47 1480 100								..... 749 200
CE138 1385 1000	Cerro Largo								Tampere
CE142 1425 100	CW43 1400 20								OFE 1420 700
Talcahuano	Colonia								Turku
CE87 875 100	CW37 1280 25								..... 1429 500
Talca	Durazno								Viipuri
CE115 1155 100	CW25 1040 500								OFH 527 10000
Temuco	CW45 1440 30								
CE128 1285 500	Florida								
Valdivia	CW33 1200 75								
CE103 1035 100	Mercedes								
Valparaiso	CW29 1120 50								
CE76 765 10000	Montevideo								
CE81 810 1000	CX2 570								
CE88 885 1000	CX4 610 1000								
CE101 1015 1000	CX6 650 10000								
CE105 1050 1000	CX8 690 1000								
CE109 1090 105	CX10 730 1000								
CE117 1170 250	CX12 770 1000								
CE125 1250 100	CX14 810 5000								
Vina del Mar	CX16 850 2500								
CE73 730 1000	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								
	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 700	ZP15								
	PERU								
Arequippa	Caracas								
OA6D 1400 150	YV1RC 960 5000								
	YV3RC 1200 3000								
	VENUEZUELA								
	Dornbirn								
	Graz								
	Innsbruck								
	Klagenfurt								
	Linz								
	Salzburg								
	Vienna								
	Vorarlberg								
	AUSTRIA								
	Antwerp								
ON4EB 1465 100	Binche								
Brussels	No. 1 620 15000								
No. 2 932 15000	Chattellaineau								
ON4CE 1492	Courtrai								
1465 100	Liege								
ON4RW 1500 100	Radio Comte								
1500 100	Seraing								
1500 100	Verviers								
No. 1 1500 100	No. 2 1500 100								
No. 2 1500 100	Wallonia								
No. 1 1492 100	No. 2 1500 100								
No. 2 1500 100	BULGARIA								
	Sofia								
850 1000	CZECHOSLOVAKIA								
	Bratislava								
OKR 1004 13500	Brno								
OKB 922 32000	Kosice								
Moravska	OKK 1113 11200								
Praha	OKP 633 120000								
No. 2 1204 5000	DANZIG								
	Danzig								
1303 500	GERMANY								
	Berlin								
841 100000	Bremen								
1330 1500	Breslau								
950 100000	Cassel								
1195 1500	Radio-Normandie								
	Rennes								
1040 40000	Strasbourg								
SP1T 859 40000	Toulouse								
776 2000									
913 60000									

FOREIGN B. C. STATIONS BY LOCATIONS

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FOREIGN B. C. STATIONS BY LOCATIONS

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border-collapse: collapse;"> <tr><td>Kwangsti</td><td></td><td></td></tr> <tr><td>XG0E 1070</td><td>1000</td><td></td></tr> <tr><td>Nan-chang</td><td></td><td></td></tr> <tr><td>XG0C 1132</td><td>500</td><td></td></tr> <tr><td>Nanking</td><td></td><td></td></tr> <tr><td>XG0A 660</td><td>75000</td><td></td></tr> <tr><td>Ningpo</td><td></td><td></td></tr> <tr><td>XLIA 1320</td><td>15</td><td></td></tr> <tr><td>Peiping</td><td></td><td></td></tr> <tr><td>XG0P 950</td><td>100</td><td></td></tr> <tr><td>XG0T 1220</td><td>500</td><td></td></tr> <tr><td>XHPA 1194</td><td>30</td><td></td></tr> <tr><td>XOMO 1470</td><td>250</td><td></td></tr> <tr><td>XOPP 952.8</td><td>100</td><td></td></tr> <tr><td>Shanghai</td><td></td><td></td></tr> <tr><td>XIHA 840</td><td>150</td><td></td></tr> <tr><td>XHHB 740</td><td>50</td><td></td></tr> <tr><td>XHHC 780</td><td>100</td><td></td></tr> <tr><td>XHHD 860</td><td>50</td><td></td></tr> <tr><td>XHHE 940</td><td>1000</td><td></td></tr> <tr><td>XHHF 960</td><td>100</td><td></td></tr> <tr><td>XHHG 1020</td><td>100</td><td></td></tr> <tr><td>XHHI 1040</td><td>100</td><td></td></tr> <tr><td>XHHJ 1060</td><td>100</td><td></td></tr> <tr><td>XHHK 1080</td><td>200</td><td></td></tr> <tr><td>XHHL 1140</td><td>100</td><td></td></tr> <tr><td>XHHM 1180</td><td>100</td><td></td></tr> <tr><td>XHNN 1200</td><td>100</td><td></td></tr> <tr><td>XHNP 1260</td><td>100</td><td></td></tr> <tr><td>XHNR 1340</td><td>50</td><td></td></tr> <tr><td>XHNS 1100</td><td>100</td><td></td></tr> <tr><td>XHNU 1160</td><td>100</td><td></td></tr> <tr><td>XHNV 880</td><td>100</td><td></td></tr> <tr><td>XHNY 920</td><td>100</td><td></td></tr> <tr><td>XHHY 1240</td><td>100</td><td></td></tr> <tr><td>XLHB 560</td><td>45</td><td></td></tr> <tr><td>XLHD 720</td><td>100</td><td></td></tr> <tr><td>XLHE 1380</td><td>75</td><td></td></tr> <tr><td>XLHF 1380</td><td>50</td><td></td></tr> <tr><td>XLHI 760</td><td>7.5</td><td></td></tr> <tr><td>XLHJ 760</td><td>100</td><td></td></tr> <tr><td>XLHL 800</td><td>100</td><td></td></tr> <tr><td>XLHM 1120</td><td>50</td><td></td></tr> <tr><td>XLHN 1120</td><td>200</td><td></td></tr> <tr><td>XLHO 1400</td><td>100</td><td></td></tr> <tr><td>XLHQ 1440</td><td>30</td><td></td></tr> <tr><td>XMHA 600</td><td>1000</td><td></td></tr> <tr><td>XMIB 980</td><td>500</td><td></td></tr> <tr><td>XMHC 700</td><td>500</td><td></td></tr> <tr><td>XQHC 1300</td><td>50000</td><td></td></tr> <tr><td>XQHD 1360</td><td>200</td><td></td></tr> <tr><td>XQHF 1480</td><td>200</td><td></td></tr> <tr><td>Shang-si</td><td></td><td></td></tr> <tr><td>XOTY 1000</td><td>50</td><td></td></tr> <tr><td>Suchow</td><td></td><td></td></tr> <tr><td>XGBL 870</td><td>25</td><td></td></tr> <tr><td>XGED 1340</td><td>15</td><td></td></tr> <tr><td>XGKT 1240</td><td>10</td><td></td></tr> <tr><td>XGLS 1230</td><td>100</td><td></td></tr> <tr><td>XGRC 1330</td><td>10</td><td></td></tr> <tr><td>XGSM 1170</td><td>25</td><td></td></tr> <tr><td>XGUT 1270</td><td>10</td><td></td></tr> <tr><td>XLIB 1450</td><td>10</td><td></td></tr> <tr><td>Taiyan</td><td></td><td></td></tr> <tr><td>XTOY 625</td><td>500</td><td></td></tr> <tr><td>Tientsin</td><td></td><td></td></tr> <tr><td>XLKB 1280</td><td>50</td><td></td></tr> <tr><td>XHKA 1050</td><td>50</td><td></td></tr> <tr><td>Tsinan</td><td></td><td></td></tr> <tr><td>XOCL 1500</td><td>7.5</td><td></td></tr> <tr><td>XOST 855</td><td>500</td><td></td></tr> <tr><td>Tsin-tao</td><td></td><td></td></tr> <tr><td>XGGW 1150</td><td>50</td><td></td></tr> <tr><td>T'ung Hsien</td><td></td><td></td></tr> <tr><td>LUHO 750</td><td>20</td><td></td></tr> <tr><td>Wu-hu</td><td></td><td></td></tr> <tr><td>XDYF 1270</td><td>15</td><td></td></tr> <tr><td>XGWH 830</td><td>30</td><td></td></tr> <tr><td>Wusih</td><td></td><td></td></tr> <tr><td>XLIF 1170</td><td>15</td><td></td></tr> </table>	Kwangsti			XG0E 1070	1000		Nan-chang			XG0C 1132	500		Nanking			XG0A 660	75000		Ningpo			XLIA 1320	15		Peiping			XG0P 950	100		XG0T 1220	500		XHPA 1194	30		XOMO 1470	250		XOPP 952.8	100		Shanghai			XIHA 840	150		XHHB 740	50		XHHC 780	100		XHHD 860	50		XHHE 940	1000		XHHF 960	100		XHHG 1020	100		XHHI 1040	100		XHHJ 1060	100		XHHK 1080	200		XHHL 1140	100		XHHM 1180	100		XHNN 1200	100		XHNP 1260	100		XHNR 1340	50		XHNS 1100	100		XHNU 1160	100		XHNV 880	100		XHNY 920	100		XHHY 1240	100		XLHB 560	45		XLHD 720	100		XLHE 1380	75		XLHF 1380	50		XLHI 760	7.5		XLHJ 760	100		XLHL 800	100		XLHM 1120	50		XLHN 1120	200		XLHO 1400	100		XLHQ 1440	30		XMHA 600	1000		XMIB 980	500		XMHC 700	500		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		XLIB 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		<table border="1" style="width: 100%; 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AFRICA</td></tr> <tr><td>Bloemfontaine</td><td></td><td></td></tr> <tr><td>ZTB 790</td><td>500</td><td></td></tr> </table>	Tokyo			JOAK-1 870	10000		JOAK-2 590	10000		KOREA			Keijo			JODK-1 900	10000		JODK-2 610	10000		MANCHUOKUO			Dairen			JQAK 652	500		Harbin			MOHB 674	1000		MTFY 674	1000		Hoten			ZILY 900	2000		Hsinking			MTCY 560	100000		Mukden			MTBY 897	1000		Shinkyoo			MTAY 560	100000		PHILIPPINES			Manila			KZEG 780	1000		KZIB 900	1000		KZRM 618.5	50000		SIAM			Bangkok			HSPI 857	2500		HS7PJ 882			AFRICA			ALGERIA			Algiers		 941	12000		EGYPT			Alexandria		 1122	250	 1429	500		Cairo		 620	20000	 1348	500		KENYA			Nairobi			VQ7LO 858	600		MOROCCO			Casablanca			CNO 983	25		Rabat			CNR 601	25000		SOUTH RHODESIA			Salisbury		 681.8	1500		TUNISIA			Tunis			TUA 1275	500		UNION S. AFRICA			Bloemfontaine			ZTB 790	500	
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CE58	585	CE111	1115	CPX	1300	CW46	1460	CX48	1490	EAJ27	1492	EAJ55	1492
CE62	625	CE114	1145	CP1	1040	CW47	1480	EAJ1	795	EAJ29	1500	FRGC	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	HCZET	1153
CE87	875	CE126	1265	CW31	1160	CX18	890	EAJ10	1492	EAJ38	1500	HCZJB	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	1500	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	HJ3ABJ	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	HSPI	857
CE105	1050	CE143	1430	CW41	1360	CX38	1290	EAJ21	1492	EAJ48	1492	HS7PJ	882
CE106	1065	CE145	1450	CW42	1380	CX40	1330	EAJ23	1492	EAJ49	1500	1IBA	1059
CE108	1085	CNO	983	CW43	1400	CX42	1370	EAJ24	1492	EAJ51	1492	1IBZ	536
CE109	1090	CNR	601	CW44	1420	CX44	1410	EAJ25	1502	EAJ52	1492	1IFI	610
CE110	1105	COA	1175	CW45	1440	CX46	1450	EAJ26	1502	EAJ53	1492	1IGE	986

FOREIGN B. C. STATIONS BY CALLS

II MI	814	LT4	760	PRE9	1315	SCV	1402	XLKS	1490	3AK	1500
IINA	1104	LT5	1160	PRF2	725	SCW	1402	XLWU	1250	3AR	630
IIPA	565	LT8	840	PRF3	895	SFTT	859	XMHHA	600	3AW	1280
IIRO	713	LT9	1060	PRF4	923	TUA	1275	XMHHB	980	3BA	1320
IITO	1140	LT10	1300	PRF6	1282	VFB	700	XMHC	700	3BO	970
IITR	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	722	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	XGCG	990	XQHf	1480	3MA	900
JOBK-2	1085	LV7	820	RW26	776	XGED	1340	XSRC	1330	3SH	1080
JOCC	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	XGOA	660	YV4RC	1100	3YL	1200
JOGK	790	OAXAA	750	RW34	554	XGOC	1132	YV11BMO1034		3ZE	1400
JOHK	770	OAXAB	1200	RW35	589	XGOD	977.5	YV17BMO1153		3ZM	1170
JOIK	830	OAXAC	1300	RW36	662	XGOE	1070	ZBW	845	3ZR	940
JOJK	710	OAXAE	980	RW38	580	WGOF	675	ZEK	640	4AY	980
JOKK	700	OAAAR	1210	RW39	832	XGOH	570	ZILY	900	4BC	1120
JOLK	680	OAAK	1360	RW40	959	XGOK	750	ZP1	770	4BH	1380
JONK	940	OAAO	1277	RW41	563	XGOP	950	ZP4	1200	4BK	1290
JOOK	960	OAGD	1400	RW42	598	XGOS	711	ZP5	1376	4CA	1470
JOPK	780	OAGE	1350	RW46	653	XGOT	1220	ZP9	898	4GR	1000
JOQK	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	ZYA	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	ON4CE	1492	RW65	734	XHGS	730	1ZH	770	4YA	790
KZRM	618.5	ON4CE	1500	RW67	968	XHHA	840	1ZJ	1310	4YO	1140
LKA	850	ON4EB	1492	RW68	824	XHHA	1370	1ZM	1260	4ZB	1050
LKB	850	ON4RW	1500	RW69	968	XHHB	740	2AY	1480	4ZC	1280
LKD	850	PFBI	995	RW70	1040	XHHC	780	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
LKM	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	5SRM	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	1300	6KG	1210
LR8	1150	PRC4	1304	SCE	1402	XLHB	560	2UE	950	6ML	1130
LR9	1030	PRC5	1364	SCF	1402	XLHD	720	2UW	1118	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	800	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	960	7ZL	590
LS7	1310	PRD7	1430	SCO	1312	XLHQ	1440	2ZH	820		
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	Westlaco
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	WNBF	1500	100	Binghamton
2:20-2:40	WCBS	580	500	Charleston
2:30-2:50	WAGM	1420	100	Presque Isle
2:30-2:50	WBTM	1370	100	Danville
2:40-3:00	WNMF	1310	100	Plattsburg
2:40-3:00	WLVA	1200	100	Lynchburg
2:50-3:10	WIDL	1420	100	Olean
3:00-3:20	WCAX	1200	100	Burlington
3:10-3:30	WSYB	1500	100	Rutland
3:10-3:30	WTEL	1310	100	Philadelphia
3:20-3:40	WIBX	1200	100	Utica
3:30-3:50	WQDM	1370	100	St. Albans
3:30-3:50	WKOK	1210	100	Sunbury
3:40-4:00	WAIHO	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	WNHZ	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	KFND	1200	100	Nampa
5:10-5:30	KVL	1370	100	Seattle
5:20-5:40	KGEZ	1310	100	Kalspell
5:30-5:50	KUJ	1370	100	Walla Walla
5:40-6:00	KGCN	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	Dubin
3:50-4:10	WMBC	1420	100	Detroit
3:50-4:10	WCAT	1200	100	Rapid City
4:00-4:20	WDFD	1310	100	Flint
4:00-4:20	KGCU	1240	250	Mandan
4:10-4:30	WFBE	1200	100	Cincinnati
4:10-4:30	KVVO	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	WCLS	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	WLBV	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	WWAE	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	Laconia
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

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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

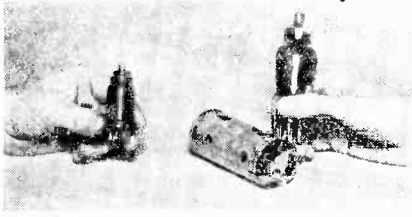
The reader will wish to know whether metal tubes are interchangeable with glass tubes. Actually, these tubes are not directly suitable for substitution in old sets. Although their characteristics are similar to certain of the glass tubes, the base, socket and wiring arrangements do not admit of a ready 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 makeshifts 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

insure's 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.

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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 - 2778		2732 - 3150		3155 - 3725		3730 - 4235		4240 - 4775		4780 - 5410	
SH to (A)		AV 2732		Gov AV 3155		3730		4240		CTG 4780	
2184		2736		3160		to		AG 4245			
2188		2740		to		3750		4250			
2192		Gov 2744		3185		Gov 3755		Gov 4255		E X 4795	
Gov SH 2196		2748		EM 3190		3760		P-P 4260		4800	
2200		2752		Gov AV 3195		to		Gov 4266		P-P 4805	
2206		2756		3200		3780		4270		4810	
2212		TV BF 2760		AM 3215		Gov 3785		CTL 4270		to	
to (A)		2764		3220		to		4290		to	
2218		2768		to		3790		Gov 4295		to	
2248		TV BF 2788		3235		Gov 3810		4310		4815	
Gov P-P 2252		TV BF Gov 2792		3240		3820		4315		4820	
2256		2796		3245		to		4330		4925	
to (A)		to (A)		AG 3250		3840		AV 4335		4930	
2300		2824		3255		Gov 3845		4340		4935	
2304		2828		3260		3850		to (A)		4955	
2308		TV BF 2832		Gov AV 3265		to		4360		4960	
2332		2836		3270		Gov 3865		4365		4965	
Gov PM 2336		2840		P-P 3290		3870		to		4970	
2340		TV Gov 2844		Gov P-P 3295		to		Gov 4390		4975	
2380		2848		3300		3900		P-P 4395		4995	
2384		2852		to		Gov 3905		4400		5000	
P 2388		AV to (A)		AV 3320		3910		STL 4425		5005	
M 2392		2912		3325		to		4430		to (A)	
E X 2400		Gov 2916		P-P 3330		Gov 3930		4435		5070	
2404		2920		to		3935		Gov 4440		5075	
PM to (A)		AV to (A)		3335		3940		4445		5080	
7432		2948		3340		to		4450		5085	
Gov 2436		2952		Gov AV 3415		3960		4475		to (A)	
2440		2956		3420		Gov 3965		AV 4480		5115	
PM to (A)		2960		to (A)		3970		4485		5120	
2480		AV 2964		Gov AV 3445		to		AV 4490		5125	
Gov PM 2484		2968		3450		Gov 4000		4495		5130	
PS PM 2488		to (A)		AV to (A)		Gov 4005		4500		to (A)	
PS PM Gov 2492		2980		3470		4010		4505		5175	
Gov 2496		2984		Gov AV 3475		Gov 4015		Gov 4510		5180	
Gov 2500		2988		AV 3480		to		Gov 4520		to	
2504		2992		3490		4035		4530		5185	
CH to (A)		2996		E 3495		4045		p-p 4555		5195	
2540		3000		X 3497.5		to		4560		to	
2544		3005		Gov 3500		4090		Gov 4565		5220	
2548		3010		3510		4095		to		5225	
to (A)		3015		to		4100		4610		5250	
2572		P-P 3020		Gov 3535		Gov 4110		4615		5255	
Gov 2576		3025		3540		4125		4620		5260	
2580		3030		to		4130		Gov 4630		5270	
2584		3035		3580		Gov 4135		4640		5275	
2600		3040		Gov 3585		4140		4645		5280	
2604		3045		3590		4145		4650		to (A)	
2608		3050		to		Gov 4150		to (A)		5320	
2652		3055		Gov 3615		4155		4685		5325	
2656		3060		3620		4160		to		5330	
7704		3065		to		4170		4700		5335	
AV to (A)		3070		3660		4175		PR 4705		5360	
2712		3075		Gov 3665		CTG to		4710		AG 5365	
2716		AV 3090		3670		4185		4715		5370	
2720		Gov AV 3095		to		4190		p-p 4735		5375	
2724		3100		3690		4195		4740		5400	
2728		3110		Gov 3695		4200		AV 4745		5405	
		3115		3700		4205		to		5410	
		3120		to		4210		to			
		3125		3720		4230		to			
		3150		Gov 3725		Gov 4235		4775			

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.	1.596 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.
1.530 megs. 195.96 m. YDB7, Soerabaja, N. E. I. 75 watts. Address, see YDA8 above. Daily. 0530-1100; 1745-1845; 2230-0130.	1.606 megs. 186.69 m. KIGA, Broadcast pickup. (KSTP, St. Paul, Minn.) WHER, Broadcast pickup. (KDKA, Hotel Wm. Penn. Pittsburgh) WIED, Broadcast pickup. 50 watts. NBC, 30 Rockefeller Plaza, N. Y. City. WIEW, Broadcast pickup. National Broadcasting Co. WIEY, 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.
1.540 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)	1.615 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.
1.550 megs. 193.43 m. YDA4, Soekaboemi, N. E. I. 25 watts. For address and schedule see YDA8. 1.510 megs.	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. Feleicien, P. Q. 100 W. Address CFL above.
1.566 megs. 191.46 m. WIED, Broadcast pickup. 50 watts. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. City. WIEY, Broadcast pickup. 50 watts. A Jress, see WIED above.	1.622 megs. 184.85 m. KIED, Broadcast pickup. (KFWB, 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.
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.	

SHORT WAVE STATIONS BY FREQUENCIES

<p>1.630 megs. 183.94 m. WEY. Boston, Mass. Marine Fire Station. WKOT. Detroit, Mich. Marine Fire Station. YDDZ. 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. YYP. 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. W9XB. 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. WPSP. 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. VBV. 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. KGJP. 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. YVR. 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. 500 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. Nederlandsche 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.	W1XH, Boston, Mass. YD12, Soekaboemi, N.E.I., Batavia Radio Vereeniging.
1.840 megs.	162.95 m.		
YDJ4, Cheribon, N.E.I.	Batavia Radio Vereeniging		
1.850 megs.	162.06 m.		
YDU5, Bandjermasin, "Eureka."	Borneo, N.E.I.	Owner:	
1.860 megs.	161.19 m.		
YDK6, Semarang, N.E.I.	Radio Vereeniging Midden Java.		
1.880 megs.	159.47 m.		
YD09, Soerabaja, N.E.I.	Owner: Holvast.		
1.900 megs.	157.80 m.		
YDG6, Batavia, N.E.I.	Batavia Radio Vereeniging.		
1.920 megs.	156.16 m.		
YDH9, Buitenzorg, N.E.I.	Batavia Radio Vereeniging.		
1.940 megs.	154.55 m.		
YDN2, Kediri, N.E.I.	Owner: Goldberg.		
1.960 megs.	152.97 m.		
YDH8, Bandoeng, N.E.I.	Owner: v. d. Heyden.		
1.980 megs.	151.42 m.		
YD08, Soerabaja, N.E.I.	Owner: Gazellehuis.		
2.020 megs.	148.43 m.		
WIEO, Broadcast pickup.	50 watts.	N. B. C., 30 Rockefeller Plaza, N. Y. City.	
WMEF, Broadcast pickup.	150 watts.	Address WIEO above.	
2.050 megs.	146.25 m.		
W9XAK, Manhattan, Kans.	Television. Mon., 1945-2030. Wed. 2100-2200.		
2.060 megs.	145.54 m.		
WNER, Broadcast pickup.	100 watts.	WAIU, Deshler-Wallick Hotel, Columbus, Ohio.	
2.070 megs.	144.84 m.		
YD07, Soerabaja, N.E.I.	Owner: v. Wingen.		
2.090 megs.	143.45 m.		
YDG5, Batavia, Java, N.E.I.	Batavia Radio Vereeniging.		
2.102 megs.	142.64 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.	WTMJ, The Journal Co., 333 W. State St., Milwaukee, Wisc.		
WMEF, Broadcast pickup.	150 watts.	Address WIEO, 2.020 megs.	
2.150 megs.	139.45 m.		
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.		
2.190 megs.	136.90 m.		
KIHH, 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.		
2.212 megs.	135.54 m.		
VYZ, High Falls, P. Q.	50 watts.	James McLaren Co., Ltd.	
2.284 megs.	131.22 m.		
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.	
2.290 megs.	130.93 m.		
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, Homalko, B. C.	100 watts.	Homalko Logging Co., Ltd.	
2.350 megs.	127.58 m.		
VBQ, Halifax, N. S.	25 watts.	Works ships in harbor.	

SHORT WAVE STATIONS BY FREQUENCIES

2.382 megs.	125.87 m.	KNFF, Leavenworth, Kans. 100 watts. City of L. Police.
KGHT, Brownsville, Tex. 25 watts. City of B.	KGHV, Corpus Christi, Texas. 50 watts. City of C. C.	KNGF, Sacramento, Calif. 500 watts.
KNFE, Duluth, Minn. City of D. Police.	WPDN, Auburn, N. Y. Police.	KSW, Berkeley, Calif.
WPEA, Syracuse, N. Y. City of S. Police.	WPFM, Birmingham, Ala. 400 watts. City of B. Police.	WMIJ, Buffalo, N. Y. City of B. Police, 757 E. Perry St.
WPGW, Mobile, Ala. 400 watts. City of M. Police.		WNFP, Niagara Falls, N. Y. 135 watts. City of N. F. Police.
2.385 megs.	125.71 m.	WPDR, Rochester, N. Y. City of R. 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. 0330-1100; 1745-1845; 2230-0130.		WPDW, Washington, D. C. Municipal Police.
		WPFU, Portland, Me. City of P. Police.
2.390 megs.	125.45 m.	WPHB, Nashua, N. H. 50 watts. City of N. Police.
WIED, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.		....., Salina, Kans. 50 watts.
WIEX, Broadcast pickup. 50 watts. Address WIED above.		
2.406 megs.	124.61 m.	2.430 megs.
KGHZ, Little Rock, Ark. City of L. R. Police.	KGHW, Centralia, Wash. 15 watts. City of C. Police.	123.38 m.
KGPW, Salt Lake City, Utah. City of S. L. C. Police.	KGPA, Seattle, Wash. Seattle Police Dept.	KGHX, Santa Ana, Calif. 400 watts. Orange county Police.
2.414 megs.	124.20 m.	KGPB, Minneapolis, Minn. 500 watts. City of M. Police.
KGPA, Santa Fe, N. Mex. 25 watts. Police.	KGPS, Bakersfield, Calif. City of B. Police.	KGZJ, Phoenix, Ariz. Municipal Police.
KGZA, Fresno, Calif. 500 watts. City of F. Police.	KGZM, El Paso, Texas. City of E. P. Police.	KNGP, Shreveport, La. 100 watts.
KGZN, Tacoma, Wash. City of T. Police.	KGZO, Santa Barbara, Calif. City of S. B. Police.	WPDI, Columbus, Ohio. Franklin County Police.
KGZV, Aberdeen, Wash. 150 watts. City of A. Police.	KGZK, Albuquerque, N. Mex. City of A. Police.	WPDN, Dayton, Ohio. City of D. Police.
KNFA, Clovis, N. Mex. 50 watts. City of C. Police.	KNFI, Mt. Vernon, Wash. 50 watts. Skagit County Police.	WPDS, St. Paul, Minn. City of S. P. Police.
KNFP, Everett, Wash. 50 watts. City of E. Police.	KNGU, Yakima, Wash. 100 watts.	WPEK, New Orleans, La. 250 watts. City of N. O. Police.
WCK, Detroit, Mich. D. City Police.	WMO, Highland Park, Mich. City of H. P. Police.	WPFJ, Flint, Mich. City of F. Police.
WPDJ, Passaic, N. J.	WPDK, Detroit, Mich. City of D. Police.	WPDH, Richmond, Ind. City of R. Police.
WPDY, Atlanta, Ga. City of A. Police.	WPFH, Baltimore, Md. City of B. Police.	WPDF, Lansing, Mich. City of L. Police.
WPGI, Albany, N. Y. 300 watts. City of A. Police.	WPGH, Columbus, Ga. City of C. Police.	WPEB, Grand Rapids, Mich. 500 watts. City of G. R. Police.
WPGM, La Grange, Ga. 50 watts.	WPGJ, Utica, N. Y. 100 watts. City of U. Police.	WPES, Saginaw, Mich. City of S. Police.
WQFB, Macon, Ga. 50 watts.	WRDR, Grosse Pointe, Mich. Township of G. P. Police.	WPFK, Hackensack, N. J. Bergen County Police Dept.
....., Lodi, Calif. 50 watts.	....., Oneonta, N. Y. 50 watts.	WPGI, Portsmouth, Ohio. 50 watts. City of P. Police.
2.415 megs.	124.15 m.	WPHO, Zanewille, Ohio. 50 watts.
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.		WQFO, Lancaster, Ohio. 50 watts. City of L. Police.
2.416 megs.	124.09 m.	2.442 megs.
CJW, Saint John, N. B. 15 watts. Dept. of Public Safety.	CZG, Prince Rupert, B. C. 150 watts. B. C. Provincial Police.	122.77 m.
....., Lodi, Calif. 50 watts.	....., Oneonta, N. Y. 50 watts.	KGHU, Austin, Texas. 100 watts. City of A. Police.
2.422 megs.	123.79 m.	KGPP, Portland, Ore. City of P. Police.
KGPE, Kansas City, Mo. City of K. C. Police.	KGPG, Vallejo, Calif. City of V. Police.	KGXV, Denver, Colo. City and County of D. Police.
KGZC, Topeka, Kans. City of T. Police.		KGZH, Klamath Falls, Ore. City of K. F. Police.
		KGZR, Salem, Ore. 50 watts. City of S. Police.
		WMDZ, Indianapolis, Ind. Municipal Police.
		WPDE, Louisville, Ky. City of L. Police.
		WPDF, Flint, Mich. City of F. Police.
		WPDH, Richmond, Ind. City of R. Police.
		WPDF, Lansing, Mich. City of L. Police.
		WPEB, Grand Rapids, Mich. 500 watts. City of G. R. Police.
		WPES, Saginaw, Mich. City of S. Police.
		WPFK, Hackensack, N. J. Bergen County Police Dept.
		WPGI, Portsmouth, Ohio. 50 watts. City of P. Police.
		WPHO, Zanewille, Ohio. 50 watts.
		WQFO, Lancaster, Ohio. 50 watts. City of L. Police.
		2.450 megs.
		122.38 m.
		KGHN, Hutchinson, Kans. 50 watts. City of H. Police.
		KGPH, Oklahoma City, Okla.
		KGPO, Tulsa, Okla. City of Tulsa Police.
		KGZJ, Phoenix, Ariz. Municipal 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.

SHORT WAVE STATIONS BY FREQUENCIES

YDB2, Semarang, N. E. I. 150 watts. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.			
..... Lynchburg, Va. 50 watts. City of L. Police.			
..... Petersburg, Va. 50 watts. City of P. Police.			
..... Roanoke, Va. 100 watts. City of R. Police.			
	2.452 megs.	122.27 m.	
CGZ, Vancouver, B. C. 400 watts. Corp. of the City of V.			
CJZ, Verdun, P. Q. 20 watts. City of V. Police.			
	2.458 megs.	121.97 m.	
KGHS, Spokane, Wash. 100 watts. City of S. Police.			
KGZI, Wichita Falls, Tex. City of W. F. Police.			
KGZW, Lubbock, Texas. 150 watts. City of L. Police.			
KNFB, Idaho Falls, Ida. 500 watts.			
WPDG, Youngstown, Ohio. 250 watts. City of Y. Police.			
WPDO, Akron, Ohio. 250 watts. City of A. Police.			
WPDV, Charlotte, N. C. City of C. Police.			
WPF5, Asheville, N. C. 200 watts. Buncombe County Police.			
WPGD, Rockford, Ill. City of R. Police.			
WPHD, Steubenville, Ohio. 100 watts.			
WRBH, Cleveland, Ohio. City of C. Police.			
..... Brownwood, Texas. 50 watts.			
	2.466 megs.	121.58 m.	
KGHP, Lawton, Okla. 50 watts. City of L. Police.			
KGQZ, Cedar Rapids, Iowa. 50 watts. City of C. R. Police.			
KGPD, San Francisco, Calif. City and County of S. F. Police.			
KGPI, Omaha, Nebr. City of O. Police.			
KGPK, Sioux City, Iowa. City of S. C. Police.			
KGPM, San Jose, Calif.			
KGPN, Davenport, Iowa. City of D. Police.			
KGZG, Des Moines, Iowa. City of D. M. Police.			
WPEC, Memphis, Tenn. City of M. Police.			
WPEM, Woonsocket, R. I. City of W. Police.			
WPFV, Pawtucket, R. I. City of P. Police.			
WPFW, Bridgeport, Conn. 50 watts. City of B. Police.			
WPGA, Bay City, Mich. City of B. C. Police.			
WPGB, Port Huron, Mich. City of P. H. Police.			
WPGK, Cranston, R. I. 50 watts. City of C. Police.			
WPGX, Worcester, Mass. 100 watts. City of W. Police.			
WPHA, Fitchburg, Mass. 50 watts. City of F. Police.			
WPHN, Tampa, Fla. 100 watts. City of T. Police.			
WPHP, Jackson, Mich. 50 watts. City of J. Police.			
WQFA, New Haven, Conn. 100 watts.			
..... Clearwater, Fla. 50 watts. City of C. Police.			
..... Gainesville, Fla. 50 watts.			
	2.474 megs.	121.19 m.	
KGHG, Las Vegas. 50 watts.			
KGHM, Reno, Nev. 50 watts. City of R. Police.			
KNFH, Garden City, Kans. 50 watts. City of G. C. Police.			
KNGH, Dodge City, Kans. 50 watts.			
WPPD, Philadelphia, Pa. City of P. Police.			
WPKO, Knoxville, Tenn. City of K. Police.			
WPFQ, Swarthmore, Pa. Borough of S. Police.			
WPF5, Asheville, N. C. 200 watts. Buncombe County Police.			
WPGZ, Johnson City, Tenn. 50 watts. City of J. C. Police.			
WRDQ, Toledo, Ohio. 400 watts. City of T. Police.			
..... Elizabethton, Tenn. 100 watts. Carter County Police.			
	2.482 megs.	120.80 m.	
KGZE, San Antonio, Tex. City of S. A. and State of Texas Police.			
WPGT, New Castle, Pa. 50 watts. City of N. C. Police.			
WPHZ, Oil City, Pa. 50 watts. City of O. C. Police.			
..... Monessen, Pa. 50 watts.			
	2.490 megs.	120.41 m.	
KGHA, Snowplow No. A232, 10 watts. State of Wash.			
KGMB, Snowplow No. A227, 10 watts. State of Wash.			
KGHC, Portable in Washington. 10 watts. State of W.			
KGHD, Seattle, Wash. 50 watts. State of Wash.			
KGHE, Snoqualmie Pass Wash. State of W.. Highway & Police Dept.			
KGHQ, Chinook Pass, Wash. 10 watts. State of W. Highway & Police.			
KGHR, Portable in Wash. 10 watts. State of Wash.			
KGZD, San Diego, Calif. City of S. D. Police. Two transmitters, one 50 watts and another 100 watts.			
KGZU, Lincoln, Nebr. City of L. Police.			
KNFG, Olympia, Wash. 50 watts. State of W. Police.			
KNFK, Bellingham, Wash. 50 watts. State of Wash. Police.			
KNFL, Shuksan Camp, Wash. 10 watts. State of Wash. Highways.			
KNFM, Compton, Calif. 25 watts.			
KNFR, Rotary Snow Plow, 10 watts. State of Wash., Highway and Police Dept.			
KNFS, Rotary Snow Plow, 10 watts. State of Wash., Highway and Police Dept.			
KNFU, Skykomish, Wash. 10 watts. State of W. Police.			
KNFX, Ellenburg, Wash. 10 watts. Address KNFS above.			
KNFY, Bear River Camp, Wash.			
KNFZ, Hells Crossing Camp, Wash. 10 watts.			
KNGA, Satus Pass Camp, Wash. 10 watts.			
KNGB, Yakima, Wash. 50 watts.			
KNGC, Vancouver, Wash. 50 watts.			
KNGD, Walla Walla, Wash. 10 watts.			
KNKJ, El Centro, Calif. 50 watts.			
KNGN, Norfolk, Nebr. 25 watts.			
WPDJ, Fort Wayne, Ind. City of F. W. Police.			
WPFJ, Clarksburg, W. Va. City of C. Police.			
WPGN, South Bend, Ind. 100 watts. City of S. B. Police.			
WPGO, Huntington, N. Y. 25 watts. Town of H. Police.			
WPGS, Mineola, N. Y. County of Nassau Police.			
WPHI, Charleston, W. Va. 50 watts. City of C. Police.			
WPHJ, Fairmont, W. Va. 100 watts.			
WPHQ, Parkersburg, W. Va. 50 watts. City of P. Police.			
..... Ephrata, Wash. 10 watts. State of Wash., Highway & Police.			
..... Spokane, Wash. 50 watts.			
..... Wenatchee, Wash. 50 watts.			
	2.506 megs.	119.64 m.	
KLH, San Rafael, Calif. Pacific Telephone & Telegraph Co.			
WOU, Marshfield, Mass. Phones fishing vessels.			
	2.512 megs.	119.36 m.	
KIAQ, Rose Inlet, Alaska. 100 watts. Alaska Pacific Salmon Corp.			
KIIN, Todd, Alaska. Peril Straits Packing Co.			
	2.522 megs.	118.88 m.	
KOW, Edmonds, Wash. Pacific Telephone & Telegraph Co.			
	2.550 megs.	117.58 m.	
WMES, Lorain, Ohio. 500 watts. Public Coastal Station. Lorain County Radio Corp.			
	2.566 megs.	116.84 m.	
KOU, Wilmington, Calif. Southern Calif. Telephone Co.			
	2.590 megs.	115.76 m.	
WOX, St. George, Staten Island, N. Y. Harbor phone. New York Telephone Co.			
	2.604 megs.	115.14 m.	
WVD, Seattle, Wash. 500 watts. Alaskan Telephone			

SHORT WAVE STATIONS BY FREQUENCIES

Co., 517 Federal Office Bldg., Seattle.		rum, Java, N. E. I. 0530-1100; 1745-1845;
WYBF, Napoleon, Mo. 500 watts. United States Army.		2230-0130.
2.616 megs. 114.61 m.		YDL6, Djokjakarta, N. E. I. Owner: v. Wingen.
Tin City, Alaska. 200 watts. American Tin Fields, Inc.		2.760 megs. 108.63 m.
2.632 megs. 113.91 m.		WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.
Iron Creek (Rasperry Straits) Alaska. 50 watts. Southwestern Herring, Inc.		WMEF, Broadcast pickup. 150 watts. Address WIEO above.
Juan, Alaska. 50 watts. Phones Anchorage and ships. Copper River Packing Co.		2.770 megs. 108.24 m.
2.670 megs. 112.29 m.		YD06, Soerabaja, N. E. I. Owner: Eureka.
NMC, Point Bonita, Calif. 200 watts. United States Coast Guard.		2.790 megs. 107.46 m.
NMD, Cleveland, Ohio. 200 watts.		YDN3, Madioen, N. E. I. Owner: v. Wingen.
NMF, Winthrop, Mass. 200 watts. U. S. Coast Guard.		2.810 megs. 106.70 m.
NMG, Mobile, Ala. U. S. Coast Guard.		YDQ6, Malang, N. E. I. Owner: v. Wingen.
NMN, Cape Henry, Va. 200 watts. U. S. Coast Guard.		2.830 megs. 105.94 m.
NMP, Wilmette, Ill. 200 watts.		YDU4, Medan, Sumatra, N. E. I. Owner: Avrom.
NMV, Fort Lauderdale, Fla. 200 watts. U. S. Coast Guard.		2.850 megs. 105.20 m.
NMW, Grays Harbor, Wash. 200 watts.		YDG4, Batavia, Java, N. E. I. Owner: Lindeteves Stokvis.
NMY, Rockaway Point, N. Y. 200 watts. U. S. Coast Guard.		2.870 megs. 104.47 m.
NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.		YDA6, Cheribon, N. E. I. 15 watts.
NOF, St. Petersburg, Fla. 200 watts. U. S. Coast Guard.		YDJ3, Tegal, N. E. I. Owner: v. Wingen.
NOG, Gloucester, Mass. 50 watts. U. S. Coast Guard Base 7.		2.890 megs. 103.74 m.
NOJ, San Pedro, Calif. 200 watts. U. S. Coast Guard Base 17.		YDJ2, Pekalongan, N. E. I. Owner: v. Wingen.
NOM, Miami, Fla.		2.910 megs. 103.03 m.
NOP, Woods Hole, Mass. 50 watts. U. S. Coast Guard, Section Base 18.		YDE3, Semarang, N. E. I. 15 watts.
NOR, Sault Ste. Marie, Mich. 200 watts.		YDK3, Semarang, N. E. I. Owner: v. Wingen.
NOU, New London, Conn. 200 watts. U. S. Coast Guard.		2.912 megs. 102.96 m.
NOV, Cape May, N. J. 200 watts. U. S. Coast Guard.		Iron Creek (Rasperry Straits) Alaska. 50 watts. Southwestern Herring, Inc.
NOY, Galveston, Texas. 200 watts.		2.930 megs. 102.33 m.
NOZ, Port Townsend, Wash. 200 watts.		WMEP, Suffield, Ohio. 200 watts.
2.698 megs. 111.13 m.		WMEU, St. Petersburg, Fla. 400 watts.
NMD, Cleveland, Ohio. 200 watts.		WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.
NMP, Wilmette, Ill. 200 watts.		YD05, Soerabaja, N. E. I. Owner: Goldberg.
NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.		2.950 megs. 101.63 m.
NOR, Sault Ste. Marie, Mich. 200 watts.		YDQ5, Malang, N. E. I. Owner: Vis.
2.710 megs. 110.63 m.		2.980 megs. 100.61 m.
YDK5, Semarang, N. E. I. Radio Vereniging Midden-Java.		CZA, Drummondville, P. Q. 4 kW. Phones ships-Canadian Marconi Co., Box 1690, Montreal, P. Q.
2.726 megs. 109.98 m.		2.986 megs. 100.41 m.
KIIW, San Gabriel Dam No. 2, Calif. 200 watts. Los Angeles County Flood Control District.		KIGF, M. S. LeMerced (vessel moored in vicinity of False Pass, Alaska), 50 watts. Alaska Southern Packing Co.
KIIX, Tujunga Dam No. 1, Calif. Address KIIW above.		2.994 megs. 100.14 m.
KIYY, Los Angeles, Calif. 400 watts. Address KIIW above.		KIEJ, Poorman, Alaska. 50 watts. Owner: W. N. Growden.
KINT, Portable, Los Angeles County, Calif. 50 watts. Address above.		KIIK, Circle, Alaska. 50 watts. Phones Fairbanks, Anchorage, etc. Northern Commercial Co.
2.728 megs. 109.90 m.		KIIL, Fort Yukon, Alaska. 50 watts. Phones WXP Fairbanks, and WXE Anchorage. Northern Commercial Co.
KIJY, Hood River, Ore. 100 watts. Special emergency station owned by Crag Rats, Inc., a mountain-climbing organization.		KIIM, Hot Springs, Alaska. 50 watts. See KIIL above.
KIJZ, Portable in Oregon. See above.		KIIN, Eagle, Alaska. 50 watts. See KIIL above.
2.738 megs. 109.50 m.		KIIO, McGrath, Alaska. 50 watts. See KIIL above.
WIFI, S. S. Cadrew, in Seattle Harbor, Wash. Works ships in harbor. Owner: A. E. Griswold.		KIJB, Cape Pole, Alaska. 50 watts. A. R. Brueger.
2.750 megs. 109.03 m.		KILY, Excursion Inlet, Alaska. 50 watts. Astoria & Puget Sound Canning Co.
YDES, Djokjakarta, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Maatschappij, Koningsplein W. 5, Batavia-Cent-		

SHORT WAVE STATIONS BY FREQUENCIES

<p>3.040 megs. 98.62 m. CFQ, Edmonton, Alta. Edmonton Journal, Ltd. CGE, Calgary, Alta. 100 watts. Calgary Herald Ltd., Southam Bldg. CKS, Portable. 100 watts. Calgary Herald; see above. YDA, Tandjongprik, N. E. I. 10 kW. N. V. Neder- landsche Indische Radio Omroep Moats- chappij, Koningsplein West 5. Batavia-Cent- rum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.</p>	<p>3.268 megs. 91.74 m. CGP, Prince Rupert, B. C. North-West Telephone Co., Cor. 2nd Ave. and Wylie St., Vancouver, B. C.</p>
<p>3.070 megs. 97.66 m. CJU, Winnipeg, Man. Canadian Airways, Ltd. (Western Lines), 60 Brock St., Winnipeg.</p>	<p>3.270 megs. 91.69 m. YDA7, Pekalongan, N. E. I. 15 watts. YDK4, Magelang, N. E. I. Owner: v. Wingen.</p>
<p>3.093 megs. 96.94 m. KGM, Ketchikan, Alaska. Alaska Pacific Salmon Co. KIAP, Rose Inlet, Alaska. 100 watts. Address KGM above. KIAX, Ketchikan, Alaska. Address KGM above. KIAY, Ketchikan, Alaska. Address KGM above. KICI, View Cove, Dall Island, Alaska. 50 watts. Superior Portland Cement Co. KIIP, Willow Creek Mines, Laceyshot, Alaska. 30 watts. Phones Anchorage. Owner: W. E. Dunkle. KIKN, Eyak River, Alaska. 50 watts. Pioneer Sea Foods Co.</p>	<p>3.290 megs. 91.13 m. YDO3, Soerabaja, N. E. I. Owner: Radio Electric.</p> <p>3.300 megs. 90.85 m. CZV, Waterloo Mine, B. C. Waterloo Gold Mines, Ltd. YDG7, Batavia, Java, N. E. I. Owner: Pianohandel Kok.</p>
<p>3.125 megs. 95.94 m. SHIPS work between 3.125 and 3.147 megs. (95.27 to 95.94 meters). A number of SHIPS are listed on 4.413 megs. and 4.430 megs. We do not know definitely which of these ships work also on 3.125-3.147 megs. Reports of actual reception from listeners are invited.</p>	<p>3.310 megs. 90.58 m. YDH4, Bandoeng, Java, N. E. I. Owner: Luyks.</p>
<p>3.130 megs. 95.79 m. YDH6, Bandoeng, N. E. I. Owner: Prot. Kerk.</p>	<p>3.320 megs. 90.31 m. YDM2, Tjepoe, N. E. I. Radio Vereeniging.</p>
<p>3.150 megs. 95.18 m. YDG3, Batavia, Java, N. E. I. Owner: Luyks.</p>	<p>3.330 megs. 90.04 m. YDV2, Bandjermasin, Borneo, N. E. I. Owner: Eureka.</p>
<p>3.152 megs. 95.12 m. CGM, Montreal, P. Q. Canadian Marconi Co., Box 1690, M. Phones CGY. CGY, Yamachiche, P. Q. Phones CGM. Address CGM above.</p>	<p>3.340 megs. 89.77 m. 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.</p>
<p>3.170 megs. 94.58 m. YDO4, Soerabaja, N. E. I. Owner: Jarico.</p>	<p>3.350 megs. 89.50 m. YDQ3, Malang, N. E. I. Owner: Lammersee.</p>
<p>3.190 megs. 93.99 m. KIGP, Egushik, Alaska. 4 watts. Phones ships. Libby, McNeill & Libby. KIIK, Circle, Alaska. 50 watts. Phones Fairbanks and Anchorage. Northern Commercial Co. KIIL, Fort Yukon, Alaska. 50 watts. See KIIK above. KIIM, Hot Springs, Alaska. 50 watts. See KIIK above. KIIN, Eagle, Alaska. 50 watts. See KIIK above. KIIO, McGrath, Alaska. 50 watts. See KIIK above. KIJN, Todd, Alaska. 50 watts. Peril Straits Packing Co. YDK2, Semarang, N. E. I. Owner: Wels.</p>	<p>3.370 megs. 88.97 m. YDU2, Medan, Sumatra, N. E. I. Owner: Avrom.</p>
<p>3.210 megs. 93.40 m. YDL5, Djokjakarta, N. E. I. Owner: Helant Muller.</p>	<p>3.385 megs. 88.57 m. KIIU, Marshall, Alaska. 50 watts. Territorial Govt. of A.</p>
<p>3.230 megs. 92.82 m. YDQ4, Malang, N. E. I. Owner: Radinova.</p>	<p>3.387 megs. 88.50 m. KGYA, Longmire, Wash. Forestry station. Address Mr. R. D. Waterhouse, Mount Rainier National Park, Longmire. KGYB, Longmire, Wash. Address KGYA above. KGYC, Paradise, Wash. Address KGYA above. KGYD, Sunrise, Wash. Address KGYA above. KGYE, White River, Wash. Address KGYA above. KGYF, Carbon, Wash. Address KGYA above. KGYG, Portable station of the Forestry Dept. of the State of Washington. KGYH, same as KGYG above. KGYI, same as KGYG above.</p>
<p>3.250 megs. 92.25 m. YDHS, Garoet, Java, N. E. I. Bandoeng Radio Vereeniging.</p>	<p>3.390 megs. 88.44 m. YDQ2, Djember, N. E. I. Owner: v. Wingen.</p>
<p>3.265 megs. 91.83 m. KIIT, St. Michael, Alaska. 50 watts. Territorial Govt. of A.</p>	<p>3.410 megs. 87.92 m. KNIA, Glacier National Park, Montana. KNKS, Yosemite National Park, California. KNKY, Devil's Post Pile National Monument, Calif. KNLO, Death Valley National Monument, Calif. WRJ, Poe Reef Lighthouse, Mich. Dept. of Com- merce, Bureau of Lighthouses. WST, Dry Tortugas Lighthouse, Fla. Address WRJ above. WWAJ, Manitow 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.</p>

SHORT WAVE STATIONS BY FREQUENCIES

WWE, Fourteen Foot Shoals Lighthouse, Mich. Address **WRJ**.

WWC, Cheboygan Range Lighthouse, Mich. Address **WRJ** above.

WWH, Stannard Rock Lighthouse, Mich. Address **WRJ** above.

WWHJ, Delaware Breakwater Station, Philadelphia, Pa. Address **WRJ**.

WWM, Marquette Lighthouse, Mich. Address same as **WRJ** above.

WWN, Detroit River Lighthouse, Mich. Address **WRJ** above.

WWR, Detroit, Michigan. Lighthouse station. Address **WRJ**.

WWZ, Key West, Fla. Lighthouse. Address **WRJ** above.

YDL4, Djokjakarta, N. E. I. Owner: Vadera.

3.423 megs. 87.59 m.

WOZ, New York, N. Y. American Telephone & Telegraph Co., 32 Sixth Ave., NYC.

3.430 megs. 87.41 m.

YDO2, Soerabaja, N. E. I. Owner: Soekaradio.

3.450 megs. 86.90 m.

YDL3, Solo, N. E. I.

3.452 megs. 86.85 m.

CJU, Winnipeg, Mann. Canadian Airways Ltd. (Western Lines), 60 Brock St., Winnipeg.

3.470 megs. 86.40 m.

YDG2, Batavia, Java, N. E. I. Owner: Batavia Radio Vereniging.

3.490 megs. 85.91 m.

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.

3.750 megs. 79.95 m.

CT1CT, Lisbon, Portugal. 500 watts. "Radio Eddy-stone". Sr. Oscar G. Lomelino, Rua Gomez Freire 79, 2-D, Lisbon. Daily, 0900-1100.

3.800 megs. 78.90 m.

ZP11, Asuncion, Paraguay.

4.000 megs. 74.96 m.

CT2AJ, Ponta Delgada, Azores. 50 watts. Mr. H. E. J. Smith, St. Michael, Ponta Delgada. Wed., Sat., 1700-1900.

4.098 megs. 73.16 m.

WND, Hialeah, Fla. 400 watts. Phones ZFS Nassau.

4.178 megs. 71.76 m.

WOO, Ocean Gate, N. J. 20 kW. Phones ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.

WOY, Lawrenceville, N. J. 20 kW. Address **WOO** above.

4.253 megs. 70.50 m.

WKF, Lawrenceville, N. J. A. T. & T. Address **WOO** above.

WOG, Ocean Gate, N. J.

4.273 megs. 70.16 m.

RV15, Khabarovsk, USSR (Siberia). 20 kW. "Far East Radio Station." Announcements in Russian, Chinese, English. Never verifies; mailing address unknown. Daily, 0300-0900.

4.276 megs. 70.11 m.

WIR, Rocky Point, N. Y. 40 kW. Works Port-au-Prince, Santo Domingo. Address R. C. A.,

Central Frequency Bureau, 66 Broad St., N. Y. C.

4.283 megs. 70.00 m.

HC2JSB, Guayaquil, Ecuador. Interval sig.: one stroke on gong. Daily exc. Monday, 2015-2315.

4.295 megs. 69.81 m.

WTDV, St. Thomas, Virgin Islands. 250 watts. Mr. H. M. McKenzie.

WTDW, St. Croix, Virgin Islands. 250 watts.

WTDX, St. John, Virgin Islands. 250 watts.

4.320 megs. 69.40 m.

DAF, Norden, Germany. Phones ships. Hauptfunkstelle Norddeich, Norden-Land, Germany.

4.320 megs. 69.40 m.

GDB (G6RX), Rugby, England. 15 kW. Engineer-in-Chief, **GPO (Radio Section)**, Armour House, St. Martins Le Grand, London EC1, England.

4.348 megs. 68.92 m.

CGA9, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.

4.355 megs. 68.84 m.

IAC, Coltano, Italy. 56 kW. Phones ships. Radiomarittimo Coltano Radio IAC, Piza, Italy.

4.400 megs. 68.14 m.

RRZ, Moscow, USSR. 1 kW.

4.413 megs. 67.94 m.

DDAS, S. S. Bremen. North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.

DDBR, S. S. Berlin. North German Lloyd, Pier 42, North River. Foot of Morton St., N. Y. City.

DDCG, S. S. Resolute.

DDCP, S. S. Cap Polonia.

DDDT, S. S. Deutschland.

DDDX, S. S. Hamburg. Hamburg American Lines, Pier 86, North River, W. 46th St., N. Y. City.

DDEA, S. S. Cap Ancona.

DDED, S. S. New York. Address **DDDX** above.

DDFF, S. S. Reliance.

DDFT, S. S. Oceana.

DDNY, S. S. Albert Ballin. Address **DDDX** above.

DDAI, S. S. Europa. Address **DDAS** above.

DOBX, S. S. Columbus. Address **DDAS** above.

FNSM, S. S. Paris. French Lines, Pier 57, Hudson River, New York City.

FTNQ, S. S. Ile de France. Address **FNSM** above.

GBZW, S. S. Berengaria. International Marine Radio Co., Ltd., Connaught House, 63 Aldwych, London WC2, England.

GFVV, S. S. Majestic. Address **GBZW** above.

GLSQ, S. S. Olympic. Address **GBZW** above.

GMBJ, S. S. Empress of Britain.

GMJQ, S. S. Belgenland. Address **GBZW** above.

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. CGO, Ocean Falls, B. C. North-West Telephone Co., Corner 2nd Ave. and Wylie St., Vancouver, B. C.	5.025 megs. 59.67 m. ZFA, St. George (Hamilton) Bermuda. 1.5 kW. Phones WOB nights.
CZO, Prince George, B. C. Address CGO above. CZP, Claydon Bay, B. C. Address CGO above.	5.040 megs. 59.49 m. RIR, Tiflis, USSR. 4 kW.
4.512 megs. 66.44 m. ZFS, Nassau, Bahamas. Works WNC Hialeah. Office of Supt. of Telegraphs, Central Bay St., Nassau N. P., Bahamas.	5.140 megs. 58.33 m. PMY, Bandoeng, N. E. I. 600 watts. Bandoeng Radio Vereeniging, Nilmy Bldg., Bandoeng. 8040- 0240; 0640-0940.
4.535 megs. 66.11 m. WDG, Rocky Point, N. Y. 40 kW. R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. C.	5.260 megs. 57.00 m. YDU3, Medan, Sumatra, N. E. I. Owner: Meyer.
4.540 megs. 66.04 m. WIR, Rocky Point, N. Y. 40 kW. Works Port-au- Prince, Santo Domingo. Address WDG, 4.535 megs.	5.263 megs. 56.96 m. WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.
4.550 megs. 65.89 m. WDN (W2XBJ), Rocky Point, N. Y. Address WDG, 4.535 megs.	5.300 megs. 57.57 m. ZFO, Cat Cay, Bahamas. 50 watts. Address ZFS, 4.512 megs.
4.580 megs. 65.46 m. DJG, Zeesen, Germany. Reichs-Rundfunk-Gesell- schaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9, Germany.	5.375 megs. 55.78 m. RSB, Stalinsk, USSR. 2 kW.
4.600 megs. 65.18 m. HC2ET, Guayaquil, Ecuador. Interval sig.: 12 chimes. P. O. Box 249. Fri., Sat., 2130-2300.	5.400 megs. 55.52 m. HAT, Szekesfeharvar, Hungary. 6 kW. "Justice for Hungary!" Announcements French, English, Hungarian by lady. Address: Magyar Kiralyi Postakiserleti Allomas, IX Kerulet Gyaly Ut 22, Budapest, Hungary.
4.753 megs. 63.08 m. WOO, Ocean Gate, N. J. Phones ships. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C. WOY, Lawrenceville, N. J. 20 kW. Address WOO above.	5.405 megs. 55.47 m. CGP, Prince Rupert, B. C. Address CGT, 4.865 megs. CZQ, Anyox, B. C. Address CGT, 4.865 megs. VXX, Sage Creek, B. C. Address CGT, 4.865 megs.
4.755 megs. 63.05 m. CFU, Rossland, B. C. Consolidated Mining & Smelt- ing Co.	5.415 megs. 55.37 m. JAF, Fiumicino, Italy. 5 kW.
4.785 megs. 62.66 m. CZA, Drummondville, P. Q. Phones ships. Canadian Marconi, Box 1690, Montreal.	5.440 megs. 55.11 m. RSN, Sverdlovsk, USSR. 10 kW.
4.810 megs. 62.33 m. YDE2, Solo, N. E. I. 100 watts. YDL2, Solo, N. E. I. Owner: Solosche Radio Vereenig- ing.	5.490 megs. 54.61 m. ROI, Sverdlovsk, USSR. 15 kW.
4.820 megs. 62.20 m. 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. WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.
4.840 megs. 61.95 m. CZV, Waterloo Mines, B. C. Waterloo Gold Mines, Inc.	5.540 megs. 54.11 m. VXU, Regina, Sask. Dept. of Natural Resources- Govt. of the Province of Sask. VXV, Hudson Bay Junction, Sask. Address VXU above. VXW, Portable. Address VXU above.
4.865 megs. 61.63 m. CGT, Campbell River, B. C. North-West Telephone Co., Corner 2nd and Wylie St., Vancouver, B. C.	5.550 megs. 54.02 m. I2RO, Rome, Italy. Ente Italiano per le Audizioni Radiofoniche, Via Montello 5, Rome.
4.875 megs. 61.50 m. RKF, Moscow, USSR. 20 kW.	5.660 megs. 52.97 m. CFD, Kenora, Ont. 150 watts. Ont. Dept. of Lands and Forests. CFJ, Red Lake, Ont. Address CFD above. CFU, Rossland, B. C. Consolidated Mining & Smelt- ing Co. of Canada, Ltd.
4.975 megs. 60.27 m. GBC, Rugby, England. 5 kW. Phones ships. Address GDW, 4.820 megs.	5.710 megs. 52.51 m. JDZ, Darien. Works JVU nazaki.
4.988 megs. 60.11 m. WWAD, S. S. Violet. Works Lighthouses on Great Lakes.	5.725 megs. 52.37 m. I2RO, Rome, Italy. Address EIAR, 5.550 megs.
5.015 megs. 59.78 m. IS3, Bolling Field, Va. United States Army airport.	5.730 megs. 52.32 m. JVJ, 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. XECW, Mexico City, D. F. 10 watts. "del Caballero Santokan." add: Calle del Bajio 120. Daily 2300-2400.
5.790 megs. 51.78 m. JVU, Nazaki, Japan. 10 kW. Works JDJ, JDY, JDZ Darien. Address JVV, 5.730 megs.	5.995 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. 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).
5.820 megs. 51.52 m. CEC, La Granja (Santiago) Chile. Compania Internacional de Radio, Casilla 16-D, Santiago de Chile.	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. XGOX, Nanking, China (proposed). Administration of Central Broadcasting Stations, Central Executive Committee of Kuomintang, Nanking.
5.825 megs. 51.47 m. HJA2, Bogota, Colombia. KZCG, Cebu, Isl. of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co. WQN, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., New York City.	6.005 megs. 49.93 m. VE9DN, Drummondville, P. Q. Canadian Marconi Co., P. O. Box 1690, Montreal. 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. 51.36 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. YV5RMO, Maracaibo, Venezuela. "Ecos del Caribe." (member Gadena Indo-Americana.) One song precedes station announcement. Programs close with Blue Danube March. Address: Sr. Santiago M. Vegas, Apartado 214. Daily exc. Sun., 1130-1300; 1730-2130.	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.
5.880 megs. 50.98 m. JIC, Taiwan. Works JVG, JVI, JVV Nazaki.	6.020 megs. 49.80 m. DJC, Zeesen, Germany. 8 kW. Programs close with 2 Anthems, 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.
5.900 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.	6.030 megs. 49.72 m. VE9CA, Calgary, Alta. 100 watts (input). "The Voice of the Prairie." Add: Voice of P., Ltd.,
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 xmission; 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.	ZHJ , Penang, Straits Settlements. 49 watts. Hon. Secy., Penang Wireless Society, 40 Perak Road. Daily exc. Sun., 0640-0840.
6.040 megs. 49.64 m.	6.085 megs. 49.27 m.
W1XAL , Boston, Mass. Address: Educational Director, University Club, Boston. Tues., Thurs., 1930-2130; Sun., 1700-1900.	I2RO , Rome, Italy. Address EIAR. 5.550 megs.
W4XB , Miami, Fla. (transmitter on Collins Island). 2500 watts. Relays WIOD. (Temporarily discontinued).	6.090 megs. 49.23 m.
YDA , Tandjongprik, 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.	VE9BJ , St. John, N. B. 50 watts. C. A. Munro, Ltd., Canterbury Street.
6.042 megs. 49.62 m.	VE9GW , Bowmanville, Ont. 200 watts. Relays Canadian Radio Commission-CRCT. Address: R. R. No. 4. Sun., 1300-2190; Mon., Tues., Wed., 1500-2400; Thurs., Fri., Sat., 0700-2400.
HJ1ABG , Barranquilla, Colombia. 150 watts. "Emisora Atlantico." Member, Cadena Indo-Americana. Interval sig: 4-note chime. Address: Sr. Andres Jimeno, Apartado 445.	6.100 megs. 49.15 m.
6.050 megs. 49.56 m.	HJ4ABL , Manizales, Colombia. 150 watts. "L for Lady." "Ecos del Occidente." Chimes at midnight. Apartado 50. Sat., 2300-0100.
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.	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.
6.060 megs. 49.48 m.	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.
OXY , Skamlebak, Denmark (Copenhagen). 500 watts. Chimes at 6 p.m. EST. Add: Harold J. Rud, Press Secretary, Statsradiofonien, Heibergsgade 7, Copenhagen. Daily 1830-1850.	6.110 megs. 49.07 m.
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.	GSL , Daventry, England. "L for Liberty." Int. sigs: Bow Bells and Big Ben. Sign off: God Save the King. Address GSA, 6.050 megs. Daily, 2200-2300.
W3XAU , Philadelphia (Newton Square) Pa. Relays WCAU. CBS. WCAU Building, 1622 Chestnut St. 2100-2300.	HJ4ABB , Manizales, Colombia. 300 watts. "Radio Manizales." Sr. Ernesto Villegas.
W8XAL , Cincinnati (Nason) Ohio. 13 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.	VE9CG , Calgary, Alta. Calgary Herald, Ltd.
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.	VE9HX , Halifax, N. S. The Maritime Broadcasting Co., Box 98.
6.070 megs. 49.39 m.	6.112 megs. 49.05 m.
IRA , Rome, Italy. Address EIAR. 5.550 megs.	VUC , Calcutta, India. Indian State Broadcasting Service, 1 Garstin Place.
VE9CS , Vancouver, B. C. 2-10 watts. Radio Service Engineers Ltd., 734 Davie St. Daily 2000-2200.	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.
6.072 megs. 49.37 m.	6.115 megs. 49.03 m.
OER2 , Vienna, Austria. 1.5 kW. Oesterr. Radioverkehrs A. G., Wien I, Johannesgasse 4b. Sat., 0900-1800; Sun., silent; other days, 0900-1700.	HJ1ABE , Cartagena, Colombia. 180 watts. "La Voz de los Laboratorios Fuentes." Address: Laboratorios Fuentes L., Apartado 31. Mon., 2200-2400; Wed., 2000-2200.
CQN , Macau. 500 watts. Ann: Portuguese and English. Mon., Fri., 0300-0500.	6.120 megs. 48.99 m.
6.080 megs. 49.31 m.	W2XE , New York, N. Y. (Wayne, N. J.) 10 kW. Relays CBS-WABC. Columbia Brcdcting System, 485 Madison Ave. at 52nd St., N. Y. C. Daily, 1800-2300.
CP5 , La Paz, Bolivia. "Radio Illimani." Compania Radio Boliviana, Casilla 637. Daily, 2000-2100.	YDA5 , Bandoeng, Java, N. E. I. 1.5 kW. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Tegallegh 0.23. Bandoeng. 0530-1100; 1745-1845; 2230-0130.
DJM , Zeesen, Germany. Address, DJC, 6.020 megs.	6.122 megs. 48.97 m.
HJN , Bogota, Colombia. Sr. Luis Ramirez Arana, Jefe del Servicio de Inalambricos, Ministerio de Correos y Telegrafos.	ZTJ , Johannesburg, Union of South Africa. 5 kW. African Broadcasting Co., Joubert St. P. O. Box 4559.
VE9EH , Charlottetown, P. E. I. 250 watts. Relays CFCY. Island Radio Broadcasting Co., Ltd., 143 Great George St.	6.125 megs. 48.95 m.
W9XAA , Chicago, Ill. 500 watts. Relays NBC-WCFB.	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. COCD, Vedado, Havana, Cuba. Address: La Voz del Aire, S. A., Apartado 2294. Sun., 1100-1400; 1900-2400; other days, 1103-2400.	W09, Mitchell Field, Mineola, Long Island. Army airport.
LCL, Jeløy, Norway. Director General, Administration des Telegraphes du Royaume de Norvege, Oslo, Norway.	WTR, Albrook Field, Canal Zone. Army airport.
6.140 megs. 48.83 m. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh. Daily, 2100-0100.	6.425 megs. 46.66 m. CZG, Prince Rupert, B. C. B. C. Provincial Police. VE9AS, Fredericton, N. B. Address, C/o Electrical Engineering Dept., University of New Brunswick.
6.145 megs. 48.79 m. Durban, Union of S. A. 1 kW. African Broadcasting Co. Villejust, France. 120 kW. (Under constr.)	VK1, Selfridge Field, Mt. Clemens, Mich. Army airport.
6.150 megs. 48.75 m. CJRD, Winnipeg, Man. (Middlechurch). Relays CRC programs. James Richardson & Sons, Ltd., Royal Alexandria Hotel, Winnipeg. Daily, 2000-2400.	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.
CO9GC, Santiago de Cuba. Relays CMKB. "Ask for Bacardi." Laboratorio Radio-electrico, Sres. Grau y Caminero, Apartado 137. Daily, 0930-1000; 1245-1330; 1530-1615.	W9XF, Chicago. (Downers Grove) Ill. Address W9XF, 6.100 megs.
CSL, Lisbon, Portugal. YV3RC, Caracas, Venezuela. "Radiodifusora Venezuela YV3RC en Caracas." Bajos Pasaje Ramella. 1700-2200.	6.440 megs. 46.56 m. RTA, Novosibirsk, USSR. 15 kW.
6.170 megs. 48.60 m. HJ2ABA, Tunja, Colombia. 50 watts. "Ecos de Boyaca." Member: Cadena Indo-Americana, Sr. Pompelio Sanchez.	6.445 megs. 46.52 m. PD1, Maxwell Field, Montgomery, Ala. Army airport. PE2, Wright Field, Dayton, Ohio. Army airport.
CT1GO, Parede, Portugal. Sun., 1130-1300; Sun., Tues., Wed., Thurs., Fri., 1920-2030.	6.447 megs. 46.50 m. HJ1ABB, Barranquilla, Colombia. 300 watts. "La Voz de Barranquilla." Relays HJ1ABA. Address: Elias J. Pellet B., Apartado 715. Daily, 1700-2200.
6.200 megs. 48.36 m. HJ3ABF, Bogota, Colombia. 50 watts. "La Voz de Bogota." Interval sig.: 6 chimes. Daily 1900-2300.	6.450 megs. 46.48 m. YN1GG, Managua, Nicaragua. "La Voz de los Lagos" Raul Gutierrez U. & Cie., Ltd. Daily, 1245-1430; 1900-2145.
6.230 megs. 48.13 m. HJ4ABC, Pereira, Colombia. 50 watts. "La Voz de Pereira." 0930-1100; 1900-2000.	6.490 megs. 46.20 m. HJ5ABD, Cali, Colombia. "La Voz del Valle." Apartado 270. Thurs., Sat., Sun., 1900-2100.
OAX4B, Lima, Peru. Relays OAX4C. R. Grellaud y Cie. Daily, 1900-2100.	6.500 megs. 46.13 m. HI4D, Santo Domingo, D. R. "La Voz de Quisqueya." 1300-1340; 1640-1940; daily exc. Sun.
6.240 megs. 48.05 m. HI1A, Santiago de los Caballeros, D. R. "La Voz del Yaque." Daily 1930-2130; Sun., 0100.	6.518 megs. 46.00 m. HIL, Santo Domingo, D. R. Mr. J. C. Pellicer, Box 623.
6.300 megs. 47.59 m. HJ1ABH, Cienaga, Colombia. 48 watts. Sergio Martinez Aparicio, Jr. Tues., Fri., 1945-2200.	6.520 megs. 45.98 m. YV6RV, Valencia, Carabobo, Venezuela. "La Voz de Carabobo." Sres. Hermann y Williams Degwitz.
6.315 megs. 47.48 m. HIZ, Santo Domingo, D. R. 100 watts. Operator, Frank Hatton, Calle Duarte No. 68. Sat., 2300-0100; daily exc. Sun., 1700-1800.	6.550 megs. 45.76 m. TIPG, 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. JZG, Nazaki, Japan. 10 kW. Works ships. Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	TIRCC, San Jose, Costa Rica. 500 watts. "Radio-emisora Catolica Costaricense". Box 1064.
6.375 megs. 47.03 m. 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.	6.590 megs. 45.50 m. ZEA, Salisbury, Southern Rhodesia. 500 watts. Works ZEB. ZEB, Bulawayo, Southern Rhodesia. 500 watts. Works ZEA.
6.385 megs. 46.94 m. BC1, Chanute Field, Rantoul, Ill. Army airport. IS3, Bolling Field, Va. (Washington, D. C.) Army airport.	6.600 megs. 45.43 m. PE2, Wright Field, Dayton, Ohio. Army airport.
	6.610 megs. 45.36 m. CWE, Cerrito (Montevideo) Uruguay. 1.5 kW.
	6.615 megs. 45.32 m. KIKL, 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: Reichspostzentralamt, 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 Maraga, Manila.	6.950 megs. 43.13 m. WKP , Rocky Point, N. Y. Address WDB, 6.718 megs.
WDB , Rocky Point, N. Y. Works Havana. Radio Corp. of A., Central Frequency Bureau, 66 Broad St., N. Y. City.	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.	7.175 megs. 41.78 m. CR6AA , Lobito, Portuguese West Africa. "Radio Eddystone." The Manica Trading Co., Ltd., Caixa Postal 118, Lobito.
ZBW , Hong Kong. 250 watts. Address: Betty Billings, Secy., Hong Kong Broadcasting Committee, P. O. Box 200.	7.200 megs. 41.61 m. HJ4AB , Manizales, Colombia. "B for Baby." "Radio Manizales." Sr. Roberto Baena V.. Apartado 175.
6.755 megs. 44.38 m. WOA , Lawrenceville, N. J. A. T. & T., Long Lines	7.220 megs. 41.53 m. HAT2 , Szekesferhervar, Hungary. 6 kW. "Justice for Hungary!" Announcements Hungarian, French, English by lady. Address: Magyar Kiralyi Postakiserlet Allomas, IX Kerulet Gyali Ut 22, Budapest.
	7.225 megs. 41.50 m. RPK , Mescow, USSR. 20 kW.

SHORT WAVE STATIONS BY FREQUENCIES

7.260 mags. 41.30 m.	grafica Internacional de C. R., San Jose.
RFF, Kharkov, USSR. 1 kW.	
7.275 mags. 41.23 m.	7.715 mags. 38.86 m.
RTZ, Irkutsk, USSR. 15 kW.	KEE, Bolinas, Calif. Address KEL, 6.860 mags.
7.280 mags. 41.18 m.	7.740 mags. 38.74 m.
HJ1ABD, Cartagena, Colombia. 50 watts. "Ondas de la Heraclea." Jzd. Villarreal, Director. Apartado 252. Daily, 1945-2115.	CEC, La Granja (Santiago) Chilo. Address CEC. 5.820 mags.
7.370 mags. 40.68 m.	7.770 mags. 38.59 m.
WJN, Rocky Point, N. Y. Address WDB, 6.718 mags.	HC2JSB, Guayaquil, Ecuador. Int. Sig.: one gong.
7.380 mags. 40.63 m.	7.797 mags. 38.47 m.
XECR, Mexico City, D. F. Announcements: Spanish, English. Address: Departamento de Publicidad de la Secretario de Relaciones Exteriores. Sunday, 1800-1900.	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.	7.820 mags. 38.34 m.
HJ3ABD, Bogota, Colombia. 50 watts. "Colombia Broadcasting." Apartado 509. Daily, 1930-2300.	OCO, Lima (Valverde) Peru.
JVR, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 mags.	7.880 mags. 38.05 m.
ZLR, Wellington, N. Z. 1 kW. Works VLJ. Address: Supt. of Post and Telegraphs, G. P. O.	JYR, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW. Experimental.
7.400 mags. 40.51 m.	7.920 mags. 37.86 m.
WEM, Rocky Point, N. Y. Works London, Honolulu. Address WDB, 6.718 mags.	GCP, Rugby, England. Address GDW, 4.820 mags.
7.465 mags. 40.16 m.	7.960 mags. 37.67 m.
HJP, Bogota, Colombia. Works Hialeah nights.	VLZ (VK2ME), Pennant Hills (Sydney), N. S. W., Australia. 3.5 kW. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney.
7.470 mags. 40.14 m.	XGL, Shanghai, China. Address: XGO, 7.575 mags.
JVQ, Nazaki, Japan. 10 kW. Works PLE, PLV. Address JZG, 6.330 mag.	7.968 mags. 37.63 m.
7.510 mags. 39.92 m.	HSP, Bangkok, Siam. 20 kW. Address Post and Telegraph Dept.
JVP, Nazaki, Japan. 20 kW. Works Europe. Address JZG, 6.330 mags.	7.980 mags. 37.57 m.
7.520 mags. 39.87 m.	VLZ (VK2ME), Pennant Hills (Sydney) Australia. Address VLZ, 7.960 mags.
KDK, Kahuku, Oahu, Hawaii. Works Dixon. (?)	8.020 mags. 37.38 m.
KKH, Kahuku, Oahu, Hawaii. Works Dixon.	HSJ, Bangkok, Siam. 20 kW. Address HSP, 7.968 mags.
RKI, Moscow, USSR. 20 kW.	8.035 mags. 37.31 m.
....., Kahuku, Oahu, Hawaii. Works GMBJ.	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.
7.550 mags. 39.71 m.	8.070 mags. 37.15 m.
CFQ, Edmonton, Alta. The E. Journal, Ltd.	IRF, Rome, Italy. Works N. Y. Societe Italo Radio. Servizj Radioelectrici, Via Calabria No. 46-48, Roma 125, Italy.
CGE, Calgary, Alta. The Calgary Herald, Southam Bldg.	8.095 mags. 37.04 m.
CKS, Portable. Address CGE above.	VLK, Pennant Hills (Sydney) Australia. Address VLZ, 7.960 mags.
7.565 mags. 39.63 m.	8.120 mags. 36.92 m.
KWY (W6XN), Dixon, Calif. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco.	KTP, Manila, P. I. Phones Dixon near 1000. Address KBK, 6.718 mags.
7.575 mags. 39.58 m.	8.180 mags. 36.65 m.
XGO, Shanghai, China. Chinese Govt. Radio Administration, Sassoon House, Jinkee Road.	PSK, Rio de Janeiro (Marapicu) Brazil. Phones N. Y. and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709, Rio de Janeiro.
7.610 mags. 39.40 m.	8.214 mags. 36.50 m.
KWX (W6XN), Dixon, Calif. Address KWY, 7.565 mags.	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.
7.626 mags. 39.32 m.	
RIM, Tashkent, USSR. Works RKI. 20 kW.	
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.	
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.	890 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 Polonio.			
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.			
DDAI, S. S. Europa.			
DOBX, S. S. Columbus.			
GBZW, S. S. Berengaria.			
CFWV, 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, English 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 VE3DN, 6.005 mags.		

SHORT WAVE STATIONS BY FREQUENCIES

9.415 megs.	31.84 m.	PLV, Bandoeng, Java, N. E. 1. 80 kW. Works Dixon and JVB, JVE, JVQ. Address Mr. H. Van der Veen, Post-Telegraafen Telefoondienst, Bedrijf der Radiostations op Java, Bandoeng.	9.565 megs.	31.35 m.	VUB, Bombay, India. Indian State Broadcasting Service, Irwin House, Sprotts Road, Ballard Estate, Bombay. Sun., 0700-0900 approximately.
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.	9.570 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.
9.448 megs.	31.74 m.	WES, Rocky Point, N. Y. Address WAD, 8.930 megs.	9.575 megs.	31.31 m.	W8XK, Pittsburgh (Saxonburg), Pa. This frequency loaned to W1XK.
9.460 megs.	31.69 m.	WKJ, New Brunswick, N. J. Address WNA, 9.170 megs.	9.580 megs.	31.30 m.	VUC, Calcutta, India. Refer to VUC, 6.112 megs.
9.470 megs.	31.66 m.	WET, Rocky Point, N. Y. Works Buenos Aires, Caracas. Address WAD, 8.930 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.
9.490 megs.	31.59 m.	KZGH, Iloilo, P. I. Inter-island phone. Philippine Long Distance Telephone Co.	9.590 megs.	31.28 m.	VE9DR, Montreal, P. Q. Address VE9DN, 9.555 megs.
OXY, Copenhagen, Denmark. Not used at present.			VK3LR, Melbourne, Australia. Research Section, P. M. G. Dept., 61 Little Collins St., C1, Melbourne. Daily, 0400-0800.		
SØ1, Poznan, Poland. 1 kW. Tues., 1300-1500; Wed., 0800-0900. Radio Pozanski, Plac Wolnosce 11, Rozglosnia, Poznan. (This station is probably off the air).			XGBD, Shanghai, China. 18.5 kW. (Existence doubtful).		
9.500 megs.	31.56 m.	XGOX, Nanking, China. See 6.000 megs.	9.585 megs.	31.28 m.	VK2ME, Sydney (Penmont 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.
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.	9.590 megs.	31.26 m.	HP5J, Panama City, Panama. 1 kW. "La Vez de Panama." Manuel Diaz Doce, Apartado 867. Daily, 1145-1300; 1930-2200.
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.	W3XAU, Philadelphia (Newton Square), Pa. Relays CBS-WCAU. 750 watts. Address W3XAU, 6.060 megs. Daily, 1200-2000.		
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.	9.595 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.
9.530 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.	9.600 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.
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.	9.609 megs.	31.20 m.	DGU, Nauen, Germany. Phones Egypt irreg. Address DGK, 6.675 megs.
LKJ1, Jeloy, Norway. 500 watts. Address LCL, 6.130 megs. Daily, 0500-0800.			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.
9.555 megs.	31.38 m.	VE9DN, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	9.710 megs.	30.88 m.	GCA, Rugby, England. 15 kW. Phones N. Y. and Buenos Aires. Address GCB, 9.280 megs.
9.560 megs.	31.36 m.	DJA, Zeesen, Germany. For details see DJN, 9.540 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 (Ruyssede), Belgium. 11 kW. Works OPM irregularly; broadcasts daily. Ann.: Radio I.N.R. Sign off: La Brabanconne. Address: Regie des Telegraphes et des Telephones, Direction des Radiocommunications, Bruxelles.
LSN2, 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.	JVD, 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. 30.01 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.	PDK, 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.	PDK, 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.	PDK, 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 XGD, 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 Telefoondienst, Sordangweg 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 WAO, 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.	28.47 m.	HJ4ABA, Medellin, Colombia. "Ecos de la Montana."	
GBX, Rugby, England. 8 kW. Address GCB, 9.280 megs.		"Radio Coloniale," Pontoise, France. 15 kW. Address: Ministerio de Postes, Telegraphos et Telephones, Direction de la Radiodiffusion, 98 bis, Blvd. Haussmann, Paris. Daily, 1900-2200; 2300-0100.	
JIB, Taiwan. Works JVG, JVL, JVV, Nazaki.			
10.550 megs.	28.42 m.	11.725 megs.	25.57 m.
WOK, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 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.	28.28 m.	11.750 megs.	25.52 m.
WQW, Rocky Point, N. Y. Works Berlin. Address WAD, 8.930 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.	28.25 m.	11.770 megs.	25.47 m.
WEA, Rocky Point, N. Y. 40 kW. Address WAD, 8.930 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.	28.13 m.	11.790 megs.	25.43 m.
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., 1600-1700; daily, 0000-0100.		DJO, Zeesen, Germany. Address DJC, 6.020 megs. W1XAL, Boston, Mass. 5 kW.	
10.670 megs.	28.10 m.	11.810 megs.	25.39 m.
CEC, La Granja, (Santiago) Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago. Broadcasting irregularly.		11.810 megs.	25.39 m.
10.675 megs.	28.09 m.	11.811 megs.	25.38 m.
WNB, Lawrenceville, N. J. 500 watts. Phones Bermuda. Address, WNA, 9.170 megs.		IRE, Rome, Italy. Address I2RO, 9.630 megs. Daily, 0815-0900; 0915-1015; 1200-1300; 1345-1430.	
10.740 megs.	27.92 m.	11.830 megs.	25.34 m.
JVM, Nazaki, Ibaraki-Ken, Japan. 20 kW. Other details identical JVN, 10.660.		W2XE, New York, N. Y. (Wayne, N. J.). Relays CBS, WABC. 10 kW. Address W2XE, 6.120 megs. Daily, 1500-1700.	
10.770 megs.	27.84 m.	11.845 megs.	25.31 m.
GBP, Rugby, England. 15 kW. Address GCB, 9.280 megs.		Villejust, France. 120 kW. Under construction.	
10.840 megs.	27.66 m.	11.860 megs.	25.28 m.
KWV (W6XN), Dixon, Calif. 20 kW. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco, Calif.		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.	
10.960 megs.	27.36 m.	11.870 megs.	25.25 m.
JZB, Harbin, Manchukuo. Works JVI, JVO, Nazaki.		W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh, Pa. Daily. 1700-2100.	
10.990 megs.	27.28 m.	11.880 megs.	25.24 m.
ZLT, Wellington, N. Z. Works VLZ. Supt. Posts and Telegraphs.		"Radio Coloniale," Pontoise, France. 15 kW. Address, see 11.720 megs. Daily, 1115-1415; 1500-1800.	
11.140 megs.	26.91 m.	11.940 megs.	25.11 m.
XGB, Shanghai China. 15 kW. (Existence doubtful).		FTA, Ste. Assise, France. Works Saigon. Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris VIII.	
11.370 megs.	26.38 m.	11.950 megs.	25.08 m.
CWG, Cerrito (Montevideo), Uruguay. 1.5 kW.		KKQ, Bolinas, Calif. Address KEZ, 10.400 megs.	
11.495 megs.	26.08 m.	11.990 megs.	25.00 m.
VIZ3, Rockbank (Melbourne), Australia. Tests with Canada. Address VK3ME, 9.503 megs.		FZS2, Saigon, French Indo-China. 15 kW. Phones	
11.660 megs.	25.71 m.		
JVL, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address JZG, 6.330 megs.			
11.670 megs.	25.69 m.		
PPQ, Rio de Janeiro (Sepetiba), Brazil. 5 kW. Address, see PSH, 10.220 megs.			
11.680 megs.	25.67 m.		
KIO, Kahuku, Oahu, Hawaii. Works Bolinas. Kahuku, Oahu, T. H. Works GMBJ.			
11.720 megs.	25.58 m.		
CJRX, Winnipeg, Man. (Middlechurch). James Richardson & Sons, Royal Alexandra Hotel. Daily, 2000-2400.			

SHORT WAVE STATIONS BY FREQUENCIES

Paris. Cie. Generale de Telegraphie Sans Fil, Boite Postale 238.	12.000 megs.	24.99 m.		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.	12.020 megs.	24.94 m.		HJA3, Barranquilla, Colombia.	
JVK, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 megs.	12.030 megs.	24.92 m.		..... "Radio-Maroc," Rabat, Morocco. 25 kW. Address CNR, 8.035 megs. Broadcasts Sun., 0700-0900.	
HBO, Prangins, (Geneva) Switzerland. 20 kW. "Radio Nations." Address: see HBP, 7.797 megs.	12.035 megs.	24.91 m.		12.840 megs.	23.35 m.
DJK, Nauen, Germany. 7.2 kW. Address DGK, 6.675 megs.	12.050 megs.	24.88 m.		WOO, Ocean Gate, N. J. 20 kW. Works ships. Address WNA, 9.170 megs.	
PDV, Kootwijk, Netherlands. 60 kW. Address: PDK, 10.410 megs.	12.150 megs.	24.68 m.		WOY, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 megs.	
GBS, Rugby, England. 15 kW. Phones N. Y. Afternoons. Address: GCB, 9.280 megs.	12.210 megs.	24.56 m.		12.930 megs.	23.18 m.
Viy, Ballan, Victoria, Australia. Address VK2ME, 9.585 megs.	12.215 megs.	24.55 m.		WAW, Hialeah, Fla.	
TYA, Paris, France. Phones Algeria. Address: FTA, 11.940 megs.	12.225 megs.	24.53 m.		12.955 megs.	23.14 m.
TFK, Reykjavik, Iceland. 8.5 kW. Under construction.	12.241 megs.	24.41 m.		GMBJ, S. S. Embassy of Britain. Works WOO, IAC, DAF, GBC, CZA, etc.	
GBU, Rugby, England. Phones N. Y. Address: GCB, 9.280 megs.	12.260 megs.	24.46 m.		13.020 megs.	23.03 m.
FTN, Ste. Assise, France. Address: FTA, 11.940 megs.	12.270 megs.	24.52 m.		JZE, Nazaki, Japan. 10 kW. Works ships. Address, JZG, 6.330 megs.	
JVJ, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megs.	12.325 megs.	24.33 m.		13.045 megs.	22.98 m.
RKK, Moscow, USSR. 20 kW.	12.500 megs.	23.99 m.		VPD, Suva, Fiji Islands. "Radio Suva." Amalgamated Wireless, (A/sia) Ltd., Suva, Fiji. Daily exc. Sun., 0030-0130.	
DAF, Norden, Germany. 5 kW. Phones ships, mornings. For address see DAF, 8.464 megs.	12.745 megs.	23.60 m.		13.050 megs.	22.97 m.
RKF, Moscow, USSR. 20 kW.	12.780 megs.	23.46 m.		ICEJ, S. S. Rex. Address Italian Line, No. 1 State St., N. Y. C.	
ZSV, Walvis Bay, Union of South Africa. 1 kW.	12.795 megs.	23.45 m.		13.140 megs.	22.82 m.
DAF, Norden, Germany. 5 kW. Works ships. Address DAF, 8.464 megs.	12.820 megs.	23.38 m.		CWH, Montevideo (Cerrito), Uruguay. 1.5 kW.	
GBC, Rugby, England. 5 kW. Works ships. Address GCB, 9.280 megs.				13.185 megs.	22.74 m.
IAC, Coltano, Italy. 14 kW. Works ships. Address IAC, 4.355 megs.				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.	
CNR, Rabat, Morocco. Works Paris. Address, CNR, 8.035 megs.				DDAS, S. S. Bremen.	
				DDBR, S. S. Berlin.	
				DDCP, S. S. Cap Polonio.	
				DDDX, S. S. Hamburg.	
				DDFA, S. S. Cap Ancona.	
				DDEA, S. S. New York.	
				DDEF, 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.	
				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.	
				13.200 megs.	22.71 m.
				CFU, Rossland, B. C. Consolidated Mining & Smelting Co.	
				13.237 megs.	22.65 m.
				FNSK, S. S. Normandie.	
				13.320 megs.	22.51 m.
				GDLJ, S. S. Homeric. Address GBZW, 4.413 megs	
				13.337 megs.	22.48 m.
				YVQ, Maracay (Santa Rita), Venezuela. Phones Hialeah days.	

SHORT WAVE STATIONS BY FREQUENCIES

13.390 mags. WMA, Lawrenceville, N. J. Works London. Address WNA, 9.170 mags.	22.39 m.	14.470 mags. WMF, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.	20.72 m.
13.415 mags. GCJ, Rugby, England. Works JVH, Nazaki. Address GCB 9.280 mags., 0300-0800.	22.35 m.	14.480 mags. LSN, Buenos Aires (Hurlingham), Argentina. Phones N. Y. Address: Compania Internacional de Radio, Defensa 143.	20.70 m.
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 mags. WEL, Rocky Point, N. Y. Phones London. Address WAD 8.930 mags.	22.31 m.	14.500 mags. HRM, Tela, Honduras. Works Hialeah days.	20.68 m.
13.465 mags. WKC, Rocky Point, N. Y. Address: WAD, 8.930 mags.	22.26 m.	14.535 mags. HBJ, Prangins (Geneva), Switzerland. 20 kW. "Radio Nations." Address: M. Gallarati, Information Section, League of Nations, Geneva.	20.63 m.
13.500 mags. GBB, Rugby, England. Phones Canada and Egypt days. Address: GCB, 9.280 mags.	22.21 m.	14.545 mags. 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.	20.69 m.
13.560 mags. JVI, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC Harbin. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	22.11 m.	TIU, Cartago, Costa Rica, See TIN above.	
13.600 mags. JYK, Kemikawa-Cho, Chiba-Ken, Japan. Experimental.	22.05 m.	14.590 mags. WMN, Lawrenceville, N. J. 20 kW. Address WMF, 14.470 mags.	20.55 m.
13.690 mags. KKZ, Bolinas, Calif. Works Honolulu, Hsinking, New York. Address: KEZ, 10.400 mags.	21.90 m.	14.640 mags. JVH, Nazaki, Japan. 20 kW. Address JVI, 13.560 mags. Works GCJ, 0200-0600.	20.42 m.
13.745 mags. CGA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	21.81 m.	14.690 mags. PSF, Rio de Janeiro, Brazil. Phones Madrid and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709.	20.41 m.
13.780 mags. KKW, Bolinas, Calif. Address: KEZ, 10.400 mags.	21.75 m.	14.800 mags. WQV, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 mags.	20.26 m.
13.810 mags. HRM, Tela, Honduras. Tela Railroad Co. SUZ, Cario (Abu Zabal), Egypt. 10 kW. Uses any freq. between 13.810 and 13.830 mags. Address: SUV, 10.055 mags.	21.71 m.	14.815 mags. WQL, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 mags.	20.23 m.
13.840 mags. WPE, Rocky Point, N. Y. Radio Corp. of America. Central Freq. Bureau, 66 Broad St., New York City.	21.66 m.	14.830 mags. WKU, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 mags.	20.21 m.
13.855 mags. WQU, Rocky Point, N. Y. Address: WPE, 13.840 mags.	21.63 m.	14.910 mags. JVG, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address: JVI, 13.560 mags.	20.11 m.
13.870 mags. WIY, Rocky Point, N. Y. Address: WPE, 13.840 mags.	21.61 m.	14.930 mags. HJB, Bogota, Colombia. Phones Hialeah, days.	20.08 m.
13.900 mags. WQP (W2XBJ), Rocky Point, N. Y. Address: WPE, 13.840 mags.	21.57 m.	14.935 mags. PSA, Rio de Janeiro, Brazil. Phones Buenos Aires and Madrid. Address: PSF, 14.690 mags.	20.07 m.
13.915 mags. WQS, Rocky Point, N. Y. Address: WPE, 13.840 mags.	21.54 m.	14.980 mags. KAY, Manila, P. I. 40 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.	20.01 m.
13.980 mags. LCO, Jeloy, Norway. 1 kW. Address LCL, 6.130 mags.	21.45 m.	15.040 mags. RKI, Moscow, USSR. 20 kW. Works RIM Tashkent. WQG, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 mags.	19.93 m.
13.984 mags. GBA, Rugby, England. Address GCB, 9.280 mags.	21.44 m.	15.055 mags. WNC, Hialeah, Fla. 400 watts. Works HJB, HJP, HPF, HRM, TGF, TIN, TIU, YNA, YVQ and ZFS daily; other S. Americans irregularly.	19.91 m.
14.000 to 14.400 mags. 20.82 to 21.42 meters. AMATEURS. Phones work between 14.150 and 14.250 mags.		15.070 mags. PSD, Rio de Janeiro (Marapicu), Brazil. 12 kW.	19.89 m.
14.440 mags. GBW, Rugby, England. 15 kW. Address GCB, 9.280 mags.	20.76 m.		

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. RKI, Moscow, USSR. 20 kW. Works Rocky Point.		15.340 megs. 19.55 m. DJR, Zeesen, Germany.	
15.104 megs. 19.85 m. RAU, Tashkent, USSR. Phones Moscow mornings.		15.350 megs. 19.53 m. CT1AA, Lisbon, Portugal. 2 kW. Int. Sig.: 3 cuckoos. Address CT1AA, 9,600 megs.	
15.120 megs. 19.83 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-Vatican, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: 1000-1045.		15.355 megs. 19.52 m. KWU (W6XN), Dixon, Calif. 20 kW. Address KWW. 10,840 megs.	
15.140 megs. 19.80 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.		15.370 megs. 19.51 m. 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. 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.		15.415 megs. 19.45 m. KWO (W6XN), Dixon, Calif. 20 kW. Address KWW. 10,840 megs.	
15.210 megs. 19.71 m. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg. Daily 0900-1900.		15.440 megs. 19.42 m. PRADO, Riobamba, Ecuador. "Estacion El Prado." Apartado 98. This freq. used in summer only, Sundays, 1700-1800.	
15.220 megs. 19.70 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.		15.445 megs. 19.41 m. WKW, Rocky Point, N. Y. Address WPE, 13,840.	
15.250 megs. 19.66 m. "Radio Coloniale," Pontoise, France. 12 kW. Address, see 11,720 megs. Daily, 0700-1100. W1XAL, Boston, Mass. 5 kW.		15.454 megs. 19.40 m., Pontoise, France. (Proposed).	
15.260 megs. 19.65 m. GSI, Daventry, England. "I for Island." For other details see GSF, 15,140 megs.		15.475 megs. 19.37 m. KKL, Bolinas, Calif. Address KEZ, 10,400 megs.	
15.270 megs. 19.64 m. W2XE, New York, N. Y. (Wayne, N. J.). 10 kW. Relays WABC-CBS. For address see 6,120 megs. Daily 1100-1300.		15.510 megs. 19.33 m. JDX, Darien. Works JYU Nazaki.	
15.280 megs. 19.62 m. DJQ, Zeesen, Germany.		15.620 megs. 19.19 m. JVF, Nazaki, Japan. 20 kW. Works Dixon, nights. Address JVI, 13,560 megs.	
15.295 megs. 19.60 m., Villejust, France. 120 kW. Under construction.		15.660 megs. 19.15 m. JVE, Nazaki, Japan. 10 kW. Works Bandoeng nights. Address JVI, 13,560 megs.	
15.300 megs. 19.60 m. CP7, La Paz, Bolivia. Compania Radio Boliviana, Casilla 637. OXY, Copenhagen, Denmark.		15.680 megs. 19.12 m. JZA, Harbin, Manchukuo. Works JVI, JVO Nazaki.	
15.330 megs. 19.56 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		15.750 megs. 19.04 m. JIA, Taiwan. Works JVG, JVL, JVV Nazaki.	
		15.760 megs. 19.02 m. JYT, Kemikawa-Cho, Chiiba-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.	
		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.	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.
16.200 megs. 18.51 m. FZR, Saigon, French Indo-China. Phones Paris. Address FZS2, 11.990 megs.	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.
16.240 megs. 18.49 m. KTO, Manila, P. I. Phones Dixon. Radio Corp. of the Philippines, Plaza Moraga, Manila.	W8XK, Pittsburg (Saxonburg), Pa. 40 kW. Not used at present. W9XAA, Chicago, Ill. Not used at pres.
16.270 megs. 18.48 m. WLK, Lawrenceville, N. J. Works London. Address WMF, 14.470 megs.	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.
16.380 megs. 18.30 m. XGN, Shanghai, China. Address XGO, 7.575 megs.	17.830 megs. 16.82 m. PCV, Kootwijk, Netherlands. Works Java, mornings. Radiolaboratory Neth. State Telegraphs. Parkstraat 29, S'Gravenhage.
16.460 megs. 18.22 m. DOAI, S. S. Europa. Phones WOO. DAF. Address DDAS, 4.413 megs.	17.860 megs. 16.78 m. WQC, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.
16.600 megs. 18.05 m. DHEY, S. S. Deutschland. Works WOO. DAF. Address DDAS, 4.413 megs.	17.880 megs. 16.76 m. WQI, Rocky Point, N. Y. 1 kW. Address WPE, 13.840 megs.
16.765 megs. 17.88 m. DHTY, S. S. Resolute. Works WOO, DAF.	17.900 megs. 16.75 m. WLL, Rocky Point, N. Y. 20 kW. Address WPE, 13.840 megs.
16.910 megs. 17.73 m. JZD, Nazaki, Japan. 20 kW. Works ships. Address JVI, 13.560 megs.	17.920 megs. 16.73 m. WQF, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.
17.080 megs. 17.55 m. GBC, Rugby, England. 5 kW. Works ships. Address GBX, 16.150 megs.	17.940 megs. 16.71 m. WQB (W2XBJ), Rocky Point, N. Y. 40 kW. Address WPE, 13.840 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.	18.020 megs. 16.64 m. KQJ, Bolinas, Calif. 40 kW. Address KEZ, 10.400 megs.
17.260 megs. 17.37 m. DAF, Norden, Germany, 5 kW. Works ships. Address DAF, 8.464 megs.	18.115 megs. 16.55 m. LSY3, Buenos Aires (Monte Grande), Argentina. Transradio Internacional, San Martin 329, B. A.
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.	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 Telefoondienst, Bedrijf der Radiostations op Java, Bandoeng.
17.480 megs. 17.15 m. VWY, Kirkee, Poona, India. Phones London.	18.180 megs. 16.49 m. CGA, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
17.520 megs. 17.11 m. DFB, Nauen, Germany. Works S. America mornings. Address DGK, 6.675 megs.	18.190 megs. 16.48 m. JVB, Nazaki, Japan. 10 kW. Works PLE. PLV. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.
17.710 megs. 16.93 m. CJA3, Drummondville, P. Q. Works London. Address CGA2, 13.745 megs.	18.200 megs. 16.47 m. GAW, Rugby, England. 15 kW. Works N. Y. Address: GBX, 16.150 megs.
17.740 megs. 16.90 m. HSP, Bangkok, Siam. 20 kW. Post & Telegraph Dept.	18.296 megs. 16.39 m. YVR, Maracay (Santa Rita), Venezuela. Works Berlin. Estados Unidos de Venezuela. Servicio Radiotelegrafico.
17.760 megs. 16.88 m. DJE, Zeesen, Germany. 5 kW.	18.304 megs. 16.38 m. GAS, Rugby, England. Works N. Y. mornings.
17.765 megs. 16.88 m. Villejust, France. 120 kW. Under construction.	
17.770 megs. 16.87 m. IAC, Coltano, Italy. Works ships. Radiomarittimo Coltano Radio IAC, Piza, Italy.	

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.	
HBM, 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 (Klipheue), Union of South Africa. 5 kW. Works London. Overseas Communica- tion 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: KWV, 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. WIXAL, 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., Brdcasting 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 (Saxonburg), 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. 30.640 megs. 9.80 m. IAG, Golfo Aranci, Sardinia. 5 kW.</p>
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SHORT WAVE STATIONS BY LOCATIONS

<p>ALASKA (K)</p> <p>Cape Pole KIJB 2.994 Circle KIKK 2.994 KIKK 3.190 Eagle KIIN 2.994 KIIN 3.190 Egushik KIGP 3.190 Excursion Inlet KILY 2.994 Eyak River KIKN 3.093 Fort Yukon KIIL 2.994 KIIL 3.190 Hot Springs KIIM 2.994 KIIM 3.190 Iron Creek 2.632 2.912 Juan 2.632 Ketchikan KGM 3.093 KIAX 3.093 KIAY 3.093 WXH 6.662 Le Merced KIGF 2.986 Marshall KIUU 3.385 McGrath KIHO 2.994 KIIO 3.190 Poorman KIEJ 2.994 Red Bluff 1.622 Rose Inlet KIAP 3.093 KIAQ 2.512 St. Michael KIIT 3.265 Tin City 2.616</p>	<p>TODD</p> <p>KIJN 2.512 KIJN 3.190 View Cove KICI 3.093 Willow Creek Mines KIIP 3.093 ARGENTINA (LOA-LVZ) 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 AUSTRALIA (VHA-VMZ) Ballan VIY 12.210 Melbourne VK3LR 5.678 VK3LR 9.580 VK3ME 9.503 Rockbank VIZ3 11.495 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 AZORES (CT2-) Ponta Delgada CT2AJ 4.000 BAHAMAS (ZF-) Cat Cay ZFO 5.300 Nassau ZFS 4.512 BELGIAN CONGO (OP-) Leopoldville OPL 20.040 OPM 10.135 BELGIUM CONGO (ONA-DTZ) Brussels ORG 19.200 ORK 10.330 BERMUDA (ZF-) Hamilton ZFA 5.025 ZFB 10.055 St. George ZFD 10.335 BOLIVIA (CPA-CPZ) 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 CANADA (CFA-CKZ; CYA-CZZ; VAA-VGZ; VXA-VYZ) ALBERTA Calgary CGE 3.040 CGE 7.550 CKS 3.040 CKS 7.550 VE9CA 6.030 VE9CA 11.860 Edmonton CFQ 3.040 CFQ 7.550 BRITISH COLUMBIA Alert Bay VAF 1.510 Anyon CZQ 5.405 Bones Bay CFW 2.290 Campbell River CGT 4.865 CJD 1.510 CJD 1.540 Cape Lazo VAC 1.510 Ceepeecee CJE 2.290</p>	<p>Claydon Bay CZP 4.505 Homalko VFJ 2.290 Humpback Bay CZL 2.290 Knight Inlet CJK 1.510 Margaret Bay CJX 2.290 Namu CFV 2.290 Ocean Falls CGO 4.505 Prince George CZO 4.505 Prince Rupert CGP 3.268 CGP 5.405 CZG 1.712 CZG 2.416 CZG 6.425 Rossland CFU 4.755 CFU 5.660 CFU 6.720 CFU 13.200 Sage Creek VXX 5.405 Vancouver CGZ 2.452 VE9CS 6.070 Waterloo Mine CVZ 3.300 CVZ 4.840 MANITOBA Winnipeg CJRO 6.150 CJRX 11.720 CJU 3.070 CJU 3.452 VYW 2.416 NEW BRUNSWICK Fredericton VE9AS 6.425</p>	<p>St. John CJW 2.416 VE9BJ 6.090 NOVA SCOTIA Halifax VBQ 2.350 VE9HX 6.110 Lunenburg VBV 1.540 VBV 1.650 Pictou CKB 2.284 Pictou Island CKU 2.284 ONTARIO Bowmanville VE9GW 6.090 VE9GW 11.810 VE9GW 24.380 Kenora CFD 1.620 CFD 5.660 Leamington CFT 2.284 Pelee Island CFX 2.284 Red Lake CFJ 1.620 CFJ 5.660 PRINCE EDWARD ISLAND Borden CJM 1.580 Charlottetown VE9EH 6.080 QUEBEC Bellevue CZB 1.620 Crane Island CKO 2.284 Drummondville CFA2 4.465</p>
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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		DJQ 15.280	IAC 17.770
CGA2 13.745		TIEP 13.415		DJR 15.340	IAC Fiumicino
CGA3 13.285	Santiago	TIGPH 5.820		S. S. Albert	IAF 5.415
CGA4 9.332	CEC 5.820	TIPG 6.550		Ballin	IAF 29.820
CGA6 6.690	CEC 7.740	TIRCC 6.550	Kuala Lumpur ZGE 6.125	DDNY 4.413	IAG Golfo Aranci 30.604
CGA7 6.880	CEC 8.710			S. S. Bremen	
CGA9 4.348	CEC 10.670	CUBA	FIJI (VPA-VSZ)	DDAS 4.413	Rome
CGD 3.340	CEC 15.860	(CLA-CMZ; COA-COZ)	Suva	S. S. Columbus	IRA 6.070
CGM 3.340	CEC 19.680		VPD 13.045	DOBK 4.413	IRE 11.810
CJA 12.100	CHINA (XGA-XUZ)	Havana	FRANCE (F; TYA-TZZ)	S. S. Europa	IRF 8.070
CJA3 17.710		CMB 5.780	Paris	DOAI 4.413	IRM 9.823
CJA6 6.760		CMB1 5.900	TYA 12.215	GUATEMALA (TGA-TGZ)	IRO 9.780
CZA 2.980	Nanking	COC 6.010	Pontoise	Guatemala City	IRW 19.520
CZA 4.785	XGOX 6.000	COCD 6.130	9.585; 11.720; 11.880; 15.250; 15.454	TGF 14.545	I2RO 5.550
CZA 6.285	XGOX 9.500	COH 9.428	Ste. Assise	TGW 5.940	I2RO 5.725
CZA 8.515	XGOX 11.900	CONCI Spiritus		TGX 5.937	I2RO 6.085
CZA 12.660	XGOX 17.800	CMHB 10.200			I2RO 6.980
CZA 17.310	Shanghai	Santiago			I2RO 9.630
VE9DN 6.005	XGB 11.140	CO9GC 6.150		HAWAII (K)	S. S. Rex
VE9DN 9.555	XGB 9.580	DARIEN (J)		Honolulu	ICEJ 13.050
VE9DN 11.780	XGK 18.890	Darien		Kahuku	
VE9DN 15.130	XGL 7.960	JDX 15.510		KDK 7.520	JAPAN (J)
High Falls	XGN 16.380	JDY 9.920		KEQ 6.733	Kemikawa-Cho
VYZ 2.212	XGO 7.575	JDZ 5.710		KIO 11.680	JYK 13.600
Manicouagan	XGW 10.420			KKH 7.520	JYR 7.880
CFM 1.620	COLOMBIA (HJA-HKZ)	DENMARK (OUA-OZZ)		KKP 16.030	JYS 9.840
Montmagny	Barranquilla	Copenhagen		KQH 14.920	Nazaki
CKP 2.284	HJA3 7.685	OXY 6.060		KRO 5.845	JVA 18.910
Montreal	HJA3 8.790	OXY 9.490		..... 5.845	JVB 18.190
CGM 3.152	HJA3 12.830	OXY 9.490		..... 7.520	JVC 16.050
VE9DR 6.005	HJ1ABB 6.447	OXY 15.300		..... 11.680	JVD 15.860
VE9DR 9.580	HJ1ABG 6.042	DOMINICAN REPUBLIC (HIA-HIZ)		..... 16.030	JVE 15.660
VE9DR 11.895	Bogota	FRENCH INDO-CHINA (F)		HONDURAS (HRA-HRZ)	JVF 15.620
VYR 1.712	HJA2 5.825	SAIGON		Tela	JVG 14.910
Riviere du Chef	HJB 14.930	Macoris		HRM 13.810	JVH 13.640
1.620	HJN 6.080	Macoris		HRM 14.500	JVI 16.560
St. Felicien	HJP 7.465	Santiago de los Caballeros		HONGKONG (Z)	JVJ 12.270
CZZ 1.620	HJY 9.930	HI 6.800		Hongkong	JVK 12.020
Tabouret	HJ2ABC 5.975	HIH 6.800		ZBW 6.750	JVL 11.660
CFL 1.620	Manizales	Santiago de los Caballeros		HUNGARY (HAA-HAZ)	JVM 10.740
Verdun	HJ4ABB 7.200	HI-1-A 6.240		Budapest	JVN 10.660
CJZ 2.452	HJ4ABL 6.100	Santo Domingo		HAS3 15.370	JVO 10.375
Yamachiche	Cartagena	HI 10.040		HAT 5.400	JVP 7.510
CGY 3.152	HJ1ABD 7.280	HIL 6.518		HAT2 7.220	JVQ 7.470
SASKATCHEWAN	HJ1ABE 6.115	HIX 5.980		HAT3 8.565	JVR 7.390
Cub Lake	Cienaga	HI4D 6.500		HAT4 9.125	JVS 6.990
CFC 1.596	HJ1ABH 6.300	ECUADOR (HCA-HCZ)		INDIA (VTA-VWZ)	JVT 6.750
CFC 1.668	Cucuta	GUAYAQUIL		Bombay	JVU 5.790
Emma Lake	HJA7 5.400	HC2AT 8.400		Calcutta	JVV 5.730
CGV 1.596	HJ2ABC 5.975	HC2ET 4.600		VUC 6.112	JVZ 13.020
CGV 1.668	Manizales	HC2JSB 4.283		VUC 9.575	JZE 8.500
Hudson Bay	Medellin	HC2JRS 7.770		Kirkee	JZG 6.330
Junct.	HJ4ABA 11.720	HC2RL 6.659		VWY 8.975	KENYA (VQ7-)
VXV 5.540	HJ4ABE 5.900	QUITO		VWY 17.480	Nairobi
Isle-a-la-Crosse	Pereira	RIOBAMBA		VWY 8.690	VQ7LO 6.060
CZJ 1.596	HJ4ABC 6.230	PRADO 6.620		VWZ 8.693	MACAU
CZJ 1.668	Santa Marta	PRADO 15.440		VWZ 8.700	Macau
Lac la Ronge	Tunja	EGYPT (STA-SUZ)		VWZ 8.708	CQN 6.073
CGQ 1.596	HJ2ABA 6.170	CAIRO		ITALY (I)	MADAGASCAR (F)
CGQ 1.668	COSTA RICA (TIA-TIZ)	SUV 10.055		Coltano	Tananarive
Prince Albert	Cartago	SUZ 13.810 to 13.830		IAC 4.355	..... 5.996
VYP 1.596				IAC 6.650	MANCHUKUO (J)
VYP 1.668					Harbin
Regina					JZA 15.680
VXU 5.540					JZB 10.960
Portable					JZC 5.830
VXW 5.540					
CANAL ZONE (W)					
Albrook Field					
WTR 6.385					

SHORT WAVE STATIONS BY LOCATIONS

MEXICO (XAA-XFZ)	Cheribon YDA6 2.870 YDJ4 1.840	NICARAGUA (YNA-YNZ)	Parede CT1GO 6.132	RRZ 4.400 RV59 5.996 Novosibirsk RTA 6.440	GMBJ 12.955 S. S. Homeric GDLJ 4.420 GDLJ 13.320	
Mexico City XDA 14.525 XEBT 6.000 XECR 7.380 XECW 5.980	Djember YDQ2 3.390 DjoeJacarta YDB3 1.660 YDE5 2.750 YDL4 3.410 YDL5 3.210 YDL6 2.750	Managua YNA 14.488 YNLF 6.714 YN1GG 6.450	SIAM (HSA-HSZ)	RSB 5.375 Stalinsk Sverdlvovsk ROI 5.490 RSN 5.440	UNITED STATES (K; N; W)	
MOROCCO (CNA-CNZ)	Garoet YDH5 3.250 Kediri YDN2 1.940 Madioen YDN3 2.790	NORWAY (LAA-LNZ)	Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.740	Tashkent RAU 15.104 RIM 7.626 RPT 5.995	ALABAMA	
Rabat CNR 8.035 CNR 12.820	Magelang YDK4 3.270	Jeloy LCL 6.130 LCO 13.980 LKJ1 9.540	SOUTHERN RHODESIA (ZE-)	RIR 5.040	Birmingham WPFM 2.382 Maxwell Field PD1 6.445	
NETHERLANDS (PAA-PIZ)	Malang YDB6 1.570 YDQ3 3.350 YDQ4 3.230 YDQ5 2.950 YDQ6 2.810	HPA-NAMA (HPA-HPZ)	Salisbury ZEA 6.590 Bulawayo ZEB 6.590	UNION OF SOUTH AFRICA (ZSA-ZUZ)	Mobile NMG 2.670 WPGW 2.382	
Hilversum PCJ 15.220 PHI 11.725 PHI 17.775	Pekalongan YDA7 3.270 YDJ2 2.890	Panama City HPC 10.290 HPF 14.545 HP5B 6.030 HP5J 9.590	SPAIN (EAA-EHZ) Madrid EAQ 9.862	Capetown ZSS 15.890 Johannesburg ZTJ 6.123 Walvis Bay ZSV 8.220 ZSV 12.500	ARIZONA	
Kootwijk PCK 18.400 PCM 18.600 PCV 17.830 PDK 10.410 PDV 12.050	Semarang YDB2 2.450 YDE3 2.910 YDK2 3.190 YDK3 2.910 YDK5 2.710 YDK6 1.860	PARAGUAY (ZPA-ZPZ)	STRAITS SETTLEMENTS (ZH-)	ZW 8.220 ZSV 12.500	Phoenix KNGG 1.698 KNJZ 2.430	
NETHERLAND EAST INDIES (PKA-POZ; YBA-YHZ)	Solo YDB5 1.595 YDE2 4.810 YDL2 4.810 YDL3 3.450	Asuncion ZP10 6.666 ZP11 3.800	Penang ZJH 6.080 Singapore ZHI 6.060	UNITED KINGDOM (G; M)	ARKANSAS	
Borneo Bandjermasin YDU5 1.850 YDV2 3.330	Seekaboemi YDA4 1.550 YDI2 2.110	PERU (OAA-OCZ)	Lima OAX4B 6.230 OAX4D 5.780 OCI 10.962 OCI 18.670 OCJ 15.625 OCJ 7.820	Daventry GSA 6.050 GSB 9.510 GSC 9.580 GSD 11.750 GSE 11.860 GSF 15.140 GSG 17.790 GSH 21.470 GSI 15.260 GSJ 21.530 GSK 26.100 GSL 6.110	Little Rock KGHZ 2.406	
Celebes Macassar PNI 8.775 Menado YBZ 7.680	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	PHILIPPINE ISLANDS (K)	TAIWAN (J)	Singapore ZHI 6.060	Bakersfield KGPS 2.414 Berkeley KSW 1.658 KSW 2.422 Bolinas KEB 7.370 KEE 7.715 KEI 9.490 KEJ 9.010 KEL 6.860 KES 10.410 KEZ 10.400 KKL 15.475 KKQ 11.950 KKW 13.780 KKZ 13.690 KQJ 18.020	
Java Balikpapan YCP 8.575 Bandoeang 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 1.633 YDH3 3.490 YDH4 3.310 YDH6 3.130 YDH8 1.960	Tandjongprikok YDA 3.040 YDA 6.040 YDA8 1.510	Cebu Island Cebu KZGG 5.825 KZGG 8.940 Iloilo Island Iloilo KZGH 5.795 KZGH 9.490 Luzon Island Manila KAX 19.980 KAY 14.980 KAZ 9.990 KBK 6.718 KTO 16.240 KTP 8.120 KZGF 5.765 KZGF 9.170	Taiwan JIA 15.750 JIB 10.530 JIC 5.890	Union of Socialist Soviet Republics (R; U)	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 KWY 7.610 KWY 7.565 EI Centro KNGJ 2.490 Fresno KGZA 2.414 Lodi ... 2.414 Los Angeles KGFL 1.712 KIIY 2.726 KIKL 6.615 Palo Alto KGKH 1.674 Pasadena KGJX 1.712 Point Bonita NNC 2.670 Pomona KNFJ 1.712	
Batavia YDA2 2.385 YDD3 1.585 YDG2 3.470 YDG3 3.158 YDG4 2.850 YDG5 2.090 YDG6 1.900 YDG7 3.300	Tegal YDJ3 2.870 Tjepoe YDB4 1.615 YDM2 3.320	POLAND (SOA-SRZ)	Ukraine RSZ 8.770 RTZ 7.275 Khbarovsk RV15 4.273 Kharkov RFF 7.260 Moscow RKF 4.875 RKF 6.870 RKF 6.880 RKF 6.900 RKF 9.750 RKF 12.500 RKI 7.520 RKI 15.040 RKI 15.090 RKK 6.135 RKK 12.270 RNE 12.000 RPK 7.225 RRD 8.225	IRKUTSK RZS 8.770 RTZ 7.275 Khbarovsk RV15 4.273 Kharkov RFF 7.260 Moscow RKF 4.875 RKF 6.870 RKF 6.880 RKF 6.900 RKF 9.750 RKF 12.500 RKI 7.520 RKI 15.040 RKI 15.090 RKK 6.135 RKK 12.270 RNE 12.000 RPK 7.225 RRD 8.225	UKRAINE RSZ 8.770 RTZ 7.275 Khbarovsk RV15 4.273 Kharkov RFF 7.260 Moscow RKF 4.875 RKF 6.870 RKF 6.880 RKF 6.900 RKF 9.750 RKF 12.500 RKI 7.520 RKI 15.040 RKI 15.090 RKK 6.135 RKK 12.270 RNE 12.000 RPK 7.225 RRD 8.225	NETHERLAND SOA-SRZ Poznan SR1 9.490
Buitenzorg YDA3 1.640 YDH9 1.920	Sumatra Medan YBG 10.430 YDU2 3.370 YDU3 5.260 YDU4 2.830	PORTUGAL (CSA-CUZ)	Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223	UNITED KINGDOM (G; M)	NETHERLAND ZKA-ZMZ Wellington ZLR 7.390 ZLS 8.900 ZLT 10.990	

SHORT WAVE STATIONS BY LOCATIONS

Sacramento KNGF 2.422	W4XB 6.040	IOWA	Brookline WPEJ 1.712	Sault Ste. Marie NOR 2.670	WNA 9.170
San Bernardino KGZY 1.712	WMEV 2.930	Cedar Rapids KGOZ 2.466	Fairhaven WPFN 1.712	NOR 2.698	WNB 10.675
San Diego KGZD 2.490	WMEW 6.615	Davenport KGPN 2.466	Fitchburg WPHA 2.466	Selfridge Field VK1 6.425	WOA 6.755
San Francisco KGPD 2.466	WPHM 2.442	Des Moines KGHO 1.682	Frammingham WMP 1.666	Stannard Rock WWH 3.410	WOB 5.850
San Gabriel Dam	WPFX 2.442	Sioux City KGKZ 2.466	Gloucester NOG 2.670		WOF 9.750
KIIV 2.726	NOF 2.670	Storm Lake KGPK 2.466	Marshfield WOU 2.506	MINNESOTA	WOK 10.550
San Jose KGPM 2.466	WMEU 2.930	Waterloo KNFO 1.682	Medford WPHG 1.712	Duluth KNFE 2.382	WON 9.870
San Pedro NOJ 2.670	WPHN 2.466	Waterloo KNFN 1.682	Millis W1XK 9.570	Minneapolis KGPB 2.430	WOY 4.178
San Rafael KLH 2.506	GEORGIA		Newton WPFA 1.712	St. Paul WPDS 2.430	WOY 4.753
Santa Ana KGHX 2.430	Atlanta WPDY 2.414	KANSAS	Northampton WPEW 1.666		WOY 8.560
Santa Barbara KGZO 2.414	Columbus WPF1 2.414	Chanute KGZF 2.450	Somerville WPEH 1.712		WOY 12.840
Santa Cruz KGZT 1.673	Coffeyville KGZP 2.450	Coffeyville KGZP 2.450	W. Bridgewater WPEL 1.666		WOY 17.120
Tujungang Dam KIIX 2.726	Dodge City KNGH 2.474	Dodge City KNGH 2.474	Winthrop NMF 2.670	Jefferson City KIUK 1.674	WPJA 2.414
Tulare WPDA 2.414	Garden City KNFH 2.474	Garden City KNFH 2.474	Woods Hole NOP 2.670	Kansas City KGPE 2.422	WTKT 2.414
Vallejo KGPQ 2.422	Hutchinson KGHN 2.450	Hutchinson KGHN 2.450	Worcester WPGX 2.466	Wayne W2XE 6.120	WUCG 10.370
Whittier KGYH 1.712	Leavenworth KNFF 2.422	Leavenworth KNFF 2.422		WYBF 2.604	W2XE 11.830
Wilmington KOU 2.566	Manhattan W9XAK 2.050	Manhattan W9XAK 2.050	MICHIGAN	St. Louis KGPC 1.706	W2XE 15.270
Yosemite KNKS 3.410	Salina 2.422	Salina 2.422	Bay City WPGA 2.466		NEW MEXICO
COLORADO	Topeka KGZC 2.422	Topeka KGZC 2.422	Cheboygan Range WVG 3.410	Glacier Nat'l Park KNIA 3.410	Albuquerque KGZX 2.414
Denver KGPX 2.442	Wichita KGPZ 2.450	Wichita KGPZ 2.450	Detroit WCK 2.414	NEBRASKA	Clovis KNFA 2.414
CONNECTICUT	KENTUCKY	KENTUCKY	WCKD 1.630	Lincoln KGZU 2.490	Santa Fe KGPF 2.414
Bridgeport WPFW 2.466	Lexington WPET 1.706	Lexington WPET 1.706	WPKD 2.414	Norfolk KNGN 2.490	NEW YORK
New Haven WQFA 2.466	Louisville WPDE 2.442	Louisville WPDE 2.442	WVN 3.410	Omaha KGPI 2.466	Aibany WPGH 2.414
New London NOU 2.670	LOUISIANA	LOUISIANA	WWR 3.410	NEVADA	Auburn WPDN 2.382
DISTRICT OF COLUMBIA	Baton Rouge WPEQ 1.570	Baton Rouge WPEQ 1.570	E. Lansing WRDS 1.642	Reno KGHM 2.474	Binghamton WPLG 2.442
Washington WPDW 2.422	New Orleans WPEK 2.430	New Orleans WPEK 2.430	Flint WPDF 2.442	NEW HAMPSHIRE	Bronx WPEF 2.450
FLORIDA	Shreveport KGPY 1.574	Shreveport KGPY 1.574	Fourteen Foot Shoals WWE 3.410	Nashua WPHB 2.422	Brooklyn WPEE 2.450
Clearwater 2.466	W3XAL 6.100	W3XAL 6.100	Grand Rapids WPEB 2.442	NEW JERSEY	Buffalo NOB 2.670
Dry Tortugas WST 3.410	W3XL 17.780	W3XL 17.780	Grosse Pointe WRDR 2.414	Bound Brook W3XAL 6.100	NOB 2.698
Ft. Lauderdale NMV 2.670	W3XL 17.310	W3XL 17.310	Highland Park WMO 2.414	New York WOZ 3.423	WMJ 2.422
Gainsville 2.466	Huron Island WWAO 3.410	Huron Island WWAO 3.410	Jackson WPHP 2.466	Niagara Falls WPNF 2.422	Huntington WPGO 2.490
Hialeah WND 4.098	Jasper WPHU 1.634	Jasper WPHU 1.634	Lansing WPDL 2.442	Oneonta 2.414	Mincola WPGS 2.490
Kokomo WAW 12.930	Kokomo WPDY 2.490	Kokomo WPDY 2.490	Marquette WWM 3.410	Mitchell Field W09 6.385	Mitchell Field W09 6.385
Marion County WNC 15.055	Fort Wayne WPDZ 2.490	Fort Wayne WPDZ 2.490	Muskegon WPFC 2.442	New York WOZ 3.423	New York WOZ 3.423
Jacksonville WPFQ 2.442	Indianapolis WMDZ 2.442	Indianapolis WMDZ 2.442	Passage Island WWAL 3.410	WPEG 2.450	WPEG 2.450
Key West WWZ 3.410	Jasper WPHU 1.634	Jasper WPHU 1.634	Poe Reef WRJ 3.410	Niagara Falls WPNF 2.422	Niagara Falls WPNF 2.422
Lakeland WFFT 2.442	Muncie WPGP 2.442	Muncie WPGP 2.442	Port Huron WPGB 2.466	Oneonta 2.414	Oneonta 2.414
Miami NOM 2.670	Richmond WPDH 2.442	Richmond WPDH 2.442	Rock of Ages WWAM 3.410	Rochester WDR 2.422	Rochester WDR 2.422
WPFZ 2.442	Seymour WQFE 1.634	Seymour WQFE 1.634	Saginaw WPES 2.442	Rockaway Point NMY 2.670	Rockaway Point NMY 2.670
	South Bend WPGN 2.490	South Bend WPGN 2.490		Rocky Point WAD 8.930	Rocky Point WAD 8.930
				WAJ 13.480	WAJ 13.480
				WBU 21.260	WBU 21.260
				WDA 9.840	WDA 9.840
				WDB 6.718	WDB 6.718
				WDG 4.535	WDG 4.535
				WDN 4.550	WDN 4.550

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	KNFK 2.490	
WEB 6.935	Yonkers	KIJY 2.728	Nashville	S. S. Cadrew	Charleston
WEC 8.930	WPFY 2.442	Klamath Falls	..... 1.666	WIFI 2.738	WPHI 2.490
WED 10.630		KGZH 2.442		Carbon	Centralia
WEF 10.620	NORTH CAROLINA	Portland	TEXAS	KG YF 3.387	WPFPP 2.490
WEG 7.415		KGPP 2.442	Austin	Centralia	Clarksburg
WEJ 6.740	Asheville	Salem	KGHU 2.442	KGHW 2.414	Fairmont
WEL 8.950	WPFS 2.458	KGZR 2.442	Beaumont	Chinook Pass	WPHJ 2.490
WEL 13.435	WPFS 2.474		KG PJ 1.712	KG HQ 2.490	Parkersburg
WEM 7.400	Charlotte	PENN- SYLVANIA	Brownsville	Edmonds	WPHQ 2.490
WEO 6.958	WPDV 2.458	Harrisburg	KGHT 2.382	KOW 2.522	
WES 9.448		WSPSP 1.674	Brownwood	Ellenburg	WISCONSIN
WET 9.470	OHIO	Monessen	..... 2.458	KNFX 2.490	
WEX 13.450	Akron	..... 2.482	Cleburne	Ephrata	Kenosha
WEZ 6.928	WPDO 2.458	New Castle	KNGE 1.712	Everett 2.414	WPEP 2.450
WFX 18.980	Cincinnati	WPGT 2.482	Corpus Christi	KNFP 2.414	Milwaukee
WHR 13.420	WKDU 1.706	Oil City	KGHV 2.382	Grays Harbor	WPDK 2.450
WIR 4.276	W8XAL 6.060	WPHZ 2.482	Dallas	NMWW 2.670	
WIR 4.540	Cleveland	Philadelphia	KVP 1.712	Hells Crossing	URUGUAY
WY 13.870	NMD 2.670	WPDW 2.474	El Paso	Camp	(CUA-CXA)
WJN 7.370	NMD 2.698	WVHJ 3.410	KGZM 2.414	KNFZ 2.490	Montevideo
WKC 10.465	WRBH 2.458	W3XAU 6.060	Fort Worth	Longmire	CWD 5.830
WKC 13.465	Columbus	W3XAU 9.590	KGPR 1.712	KG YB 3.387	CWE 6.610
WKL 8.940	WPOI 2.430	Pittsburgh	Galveston	KG YB 3.387	CWF 8.455
WKM 18.860	WPGQ 1.596	WPU 1.712	NOY 2.670	KNFI 2.414	CWG 11.370
WKO 15.970	Dayton	W8XK 6.140	Houston	KNFL 2.490	CWH 13.140
WKP 6.950	Findlay	W8XK 9.570	KG BZ 1.712	Olympia	
WKU 14.830	WPGG 1.596	W8XK 11.870	Lubbock	KNFG 2.490	VATICAN STATE
WKW 15.445	Lancaster	W8XK 15.210	KGZW 2.458	Paradise	(HVA-HVZ)
WLL 17.900	WQFO 2.430	W8XK 17.880	San Antonio	KG YC 3.387	
WPE 13.840	Loralin	W8XK 17.880	KGZE 2.482	Port Townsend	NOZ 2.670
WQA 21.220	WMES 2.550	W8XK 21.540	Waco	Satus Pass	
WQB 17.940	Massillon	Reading	KGZQ 1.712	Camp	Vatican City
WQC 17.860	WPHC 1.596	WPF 2.442	Wichita Falls	KNGA 2.490	HVJ 5.970
WQD 18.960	Portsmouth	Swarthmore	KGZI 2.458	Seattle	HVJ 15.120
WQE 18.920	WPGI 2.430	WPFQ 2.474	UTAH	KGHD 2.490	VENEZUELA
WQF 17.920	Stuebenville		Salt Lake City	KGPA 2.414	(YVA-YWLZ)
WQG 15.040	WPHD 2.458	RHODE ISLAND	KG PW 2.406	KW D 2.604	Caracas
WQH 18.880	Suffield	Cranston		WVD 5.995	YV2RC 6.112
WQI 17.880	WMEP 2.930	WPGK 2.466	VIRGINIA	WVD 6.618	YV3RC 6.150
WQJ 21.240	WMEP 6.615	E. Providence	Bolling Field	WVD 6.618	YV4RC 6.375
WQL 14.815	WRDQ 2.474	WPEI 1.712	IS3 5.015	Shuksan Camp	Maracaibo
WQN 5.263	Wilmington	Pawtucket	Cape Henry	KNFL 2.490	Maracay
WQN 5.505	WPHK 1.596	WPFV 2.466	NMN 2.670	Skykomish	YV5RMO 5.850
WQN 5.825	Wright Field	Woonsocket	Langley Field	KNFU 2.490	YVQ 6.672
WQO 6.725	PE2 6.445	WPEM 2.466	FC7 6.645	Snoqualmie	YVQ 13.337
WQP 13.900	Youngstown	SOUTH DAKOTA	Lynchburg	Pass	YVR 9.168
WQQ 20.260	WPDG 2.458	Rapid City	..... 2.450	KGHE 2.490	YVR 18.296
WQR 16.015	Zanesville	KNGM 2.450	Petersburg	KGHS 2.414	Valencia
WQS 13.915	WPHO 2.430	TENNESSEE	..... 2.450	KGHS 2.458	YV6RV 6.520
WQU 13.855	OKLAHOMA	Elizabethton	Richmond	Sunrise	VIRGIN ISLANDS
WQU 14.800	Duncan	..... 2.474	WPHF 2.450	KG YD 3.387	(W)
WQW 10.600	KNKG 2.450	Johnson City	Roanoke	Tacoma	St. Thomas
WQX 20.180	Lawton	WPGZ 2.474	..... 2.450	KG YD 3.387	WTDV 4.295
WQY 20.100	KGHP 2.450	Knoxville	WASHINGTON	Vancover	St. Croix
WTT 18.940	KGPO 2.450	WPF0 2.474	Aberdeen	KNCC 2.490	WTDW 4.295
Schenectady			Bear River	Walla Walla	St. John
W2XAD 15.330			Camp	KNCD 2.490	WTDX 4.295
W2XAF 9.530			KNFY 2.490	Wenatchee	
S. Schenectady				White River	
WPGC 1.658				WG YE 3.387	
St. George				Yakima	
WOX 2.590				KNGB 2.490	
Syracuse				KNGU 2.414	
WPEA 2.382					

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 1.595	CJA3 17.710
CEC 8.710	CFD 1.620	CFU 2.284	CGA 18.180	CGE 3.040	CGQ 1.668	CJA6 6.760
CEC 10.670	CFD 5.660	CFU 4.755	CGA2 17.745	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 9.322	CGM 3.340	CGV 1.668	CJE 2.290
CFA2 4.465	CFL 1.620	CFU 13.200	CGA6 6.690	CGO 4.596	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

SHORT WAVE STATIONS BY CALLS

CJRO	6.150	DJL	15.110	HBH	18.450	JDY	9.920	KGPG	2.422	KIIP	3.093	KWU	15.355
CJRX	11.720	DJM	6.080	HBJ	14.535	JDZ	5.710	KGPH	2.450	KIIQ	2.150	KWV	10.840
CJU	3.070	DJN	9.540	HBL	9.595	JIA	15.750	KGPI	2.466	KIIT	3.265	KWX	7.610
CJU	3.452	DJO	11.790	HBP	7.797	JIB	10.530	KGPP	1.712	KIUU	3.385	KWY	7.565
CJW	2.416	DJP	11.850	HBO	12.030	JIC	5.890	KGPK	2.466	KIIV	2.726	KZF	5.765
CJX	2.290	DJQ	15.280	HCJB	8.214	JVA	18.910	KGPL	1.712	KIIX	2.726	KZGF	9.170
CJZ	2.452	DJR	15.340	HCZAT	8.400	JVB	18.190	KGPM	2.466	KIYX	2.726	KZGG	5.825
CKB	2.284	DDAS	4.413	HCZET	4.600	JVC	16.050	KGPN	2.466	KIJB	2.994	KZGG	8.940
CKO	2.284	DDDX	4.413	HCZJSB	4.283	JVD	15.860	KGPO	2.450	KIJN	2.512	KZGH	5.795
CKP	2.284	DDED	4.413	HCZJSS	7.770	JVE	15.660	KGPP	2.442	KIJN	3.190	KZGH	9.490
CKS	3.040	DDNY	4.413	HCZRL	6.659	JVF	15.620	KGPP	1.712	KIJZ	2.728	LCO	6.130
CKS	7.550	DDAI	4.413	HFH	6.800	JVG	14.910	KGPR	1.712	KIJZ	2.728	LCO	13.980
CKU	2.284	DOBX	4.413	HII	10.040	JVH	14.640	KGPS	2.414	KIKL	6.615	KLJ1	9.540
CMB	5.780	EAQ	9.862	HIL	6.518	JVI	13.560	KGPS	2.406	KIKL	3.093	LQA	9.640
CMB1	5.900	FAQ	6.645	HIX	5.980	JVJ	12.270	KGPP	2.442	KILB	2.150	LSA	14.530
CMBH	10.200	FNSK	13.237	HIZ	6.340	JVK	12.820	KGPP	1.574	KILU	1.622	LSF	19.600
CNR	8.035	FNSM	13.395	HIA	6.240	JVL	11.660	KGPP	2.450	KILU	1.622	LSG	19.900
CNR	12.820	FQO	12.160	HIA0	6.500	JVM	10.740	KGVA	3.387	KILY	2.994	LSI	9.830
COC	6.010	FTE	11.840	HJA2	5.825	JVN	10.660	KGVB	3.387	KINT	2.726	LSK3	10.250
COCD	6.130	FTK	18.330	HJA3	7.685	JVO	10.375	KGVC	3.387	KIO	11.680	LSL	9.990
COH	9.428	FTK	15.863	HJA3	8.790	JVP	7.510	KGVD	3.387	KIUU	1.674	LSL	15.810
CO9GC	6.150	FTM	19.355	HJA3	12.830	JVQ	7.470	KGVE	3.387	KKH	7.520	LSL2	10.300
CP6	6.080	FTN	12.260	HJA7	5.400	JVR	7.390	KGVE	3.387	KKL	15.475	LSM	19.120
CP7	15.300	FTX	6.175	HJB	14.930	JVS	6.990	KGVG	3.387	KKP	16.030	LSN	21.128
CQN	6.073	FZR	16.200	HJN	6.080	JVT	6.990	KGYH	3.387	KKQ	11.950	LSN	9.895
CR6AA	7.175	FZS	18.342	HJP	7.465	JVU	5.790	KGYI	3.387	KKW	13.780	LSN	14.480
CSL	6.150	FZS2	11.990	HJY	9.930	JVY	5.730	KGZA	2.414	KKZ	13.690	LSN	21.020
CT1AA	9.600	GAA	20.368	HJY	18.444	JVZ	13.600	KGZB	1.712	KLH	2.506	LSN2	9.890
CT1AA	15.350	GAQ	18.970	HJABB	6.447	JYR	7.880	KGZC	2.422	KNFA	2.414	LSR	18.958
CT1AA	15.350	GAS	18.304	HJABB	7.280	JYS	9.840	KGZD	2.490	KNFB	2.458	LSX	10.350
CT1CT	3.750	GAU	18.620	HJABE	6.115	JYT	15.760	KGZE	2.482	KNFE	2.382	LSY3	18.115
CT1CT	12.223	GAW	18.200	HJABG	6.042	JZA	15.680	KGZF	2.450	KNFF	2.422	NMC	2.670
CT1G0	6.132	GBA	13.984	HJABH	6.300	JZB	10.960	KGZG	2.466	KNFG	2.490	NMD	2.670
CT2AJ	4.000	GBB	13.500	HJABJ	6.006	JZC	5.830	KGZH	2.442	KNFH	2.474	NMD	2.698
CWD	5.830	GBC	4.430	HJABA	6.170	JZE	16.910	KGZI	2.458	KNFI	2.414	NMF	2.670
CWE	6.610	GBC	4.975	HJABC	5.975	JZJ	13.020	KGZJ	2.430	KNFJ	1.712	NMG	2.670
CWF	8.455	GBC	8.680	HJABD	5.980	JZF	8.500	KGZL	1.712	KNFK	2.490	NMN	2.670
CWH	11.370	GBC	12.780	HJABD	7.390	JZG	6.330	KGZM	2.414	KNFL	2.490	NMP	2.670
CWH	13.140	GBC	17.080	HJABF	6.200	KAX	19.980	KGZN	2.414	KNFM	2.490	NMP	2.698
CZA	2.980	GBP	10.770	HJABH	6.012	KAY	14.980	KGZO	2.414	KNFN	1.682	NMV	2.670
CZA	4.785	GBS	12.150	HJABAA	11.720	KAZ	9.990	KGZP	2.450	KNFO	1.682	NMY	2.670
CZA	6.285	GBU	12.240	HJABA	7.200	KBK	6.718	KGZQ	1.712	KNFP	2.414	NMW	2.670
CZA	8.515	GBU	22.290	HJABC	6.230	KDK	7.520	KGZR	2.442	KNFR	2.490	NOB	2.670
CZA	12.660	GBW	14.440	HJABE	5.900	KEB	7.370	KGZT	1.674	KNFS	2.490	NOB	2.698
CZA	17.310	GBX	10.530	HJABL	6.100	KEE	7.715	KGZU	2.490	KNFU	2.490	NOF	2.670
CZB	1.620	GBX	16.150	HJSABC	5.615	KEI	9.490	KGZV	2.414	KNFX	2.490	NOG	2.670
CZG	1.712	GCA	9.710	HJABD	6.490	KEJ	9.010	KGZW	2.458	KNFY	2.490	NOJ	2.670
CZG	2.416	GCB	9.280	HEK	7.090	KEL	8.660	KGZX	2.414	KNFZ	2.490	NOM	2.670
CZG	6.425	GCC	13.415	HPC	10.290	KEQ	6.733	KGZY	1.712	KNGA	2.490	NOP	2.670
CZJ	1.596	GCP	7.920	HPF	14.545	KES	10.410	KIAP	3.093	KNGB	2.490	NOR	2.670
CZJ	1.668	GCS	9.020	HP5B	6.030	KEZ	10.400	KIAX	2.512	KNGC	2.490	NOR	2.698
CZL	2.290	GCU	9.950	HP5J	9.590	KGHA	2.490	KIAX	3.093	KNGD	2.490	NOU	2.670
CZO	4.505	GCW	9.790	HRM	13.810	KGHB	2.490	KIAY	3.093	KNGE	1.712	NOV	2.670
CZP	4.505	GDB	4.320	HRM	14.500	KGHC	2.490	KICI	3.093	KNGF	2.422	NOY	2.670
CZQ	4.505	GDB	6.790	HSJ	8.020	KGHD	2.490	KIED	1.622	KNGG	1.698	NOZ	2.670
CZV	3.300	GDLJ	4.430	HSP	7.968	KGHE	2.490	KIED	2.150	KNGH	2.474	OAX4B	6.230
CZV	4.840	GDLJ	13.320	HSP	8.396	KGHG	2.474	KIEF	1.622	KNGJ	2.490	OAX4D	5.780
CZY	1.620	GDS	6.095	HSP	17.740	KGHK	1.674	KIEF	2.150	KN GK	2.450	OCI	10.962
CZZ	1.620	GDW	4.820	HVJ	5.970	KGHM	2.474	KIEJ	2.994	KNGL	1.712	OCI	18.670
DAF	4.320	GLRZ	4.415	HVJ	15.120	KGHN	2.450	KIEL	1.622	KNGM	2.450	OCJ	15.625
DAF	8.464	GMBJ	4.413	IAC	4.355	KGHO	1.682	KIEL	2.150	KNGN	2.490	OER2	6.072
DAF	12.325	GMBJ	12.955	IAC	6.650	KGHP	2.466	KIEO	2.150	KNGO	2.450	OPL	20.040
DAF	12.745	GSA	6.050	IAC	12.795	KGHQ	2.490	KIFI	1.622	KNGP	2.430	OPM	10.135
DAF	17.260	GSB	9.510	IAC	17.770	KGHR	2.490	KIFI	2.150	KNGT	2.450	ORG	19.200
DFA	19.240	GSC	9.580	IAF	5.415	KGHS	2.458	KIFT	2.150	KNGU	2.414	ORK	10.330
DFB	17.520	GSD	11.750	IAF	29.820	KGHT	2.382	KIGA	1.606	KNIA	3.410	OXY	6.660
DFC	12.980	GSE	11.860	IAG	30.604	KGHU	2.442	KIGA	2.102	KNKS	3.410	OXY	9.490
DFD	14.665	GSF	15.140	ICEJ	13.050	KGHV	2.382	KIGF	2.986	KNKY	3.410	OXY	15.300
DFE	9.810	GSG	17.790	IRA	6.070	KGHW	2.414	KIGP	3.190	KNLO	3.410	PCJ	15.220
DFL	10.850	GSH	21.470	IRE	11.810	KGHX	2.430	KIGW	2.102	KOU	5.566	PCK	18.400
DGK	6.675	GSI	15.260	IRF	8.070	KGHY	1.712	KIIH	2.190	KOW	5.522	PCM	18.600
DGU	9.609	GSJ	21.530	IRM	9.823	KGHZ	2.406	KIJK	2.994	KQH	14.920	PCV	17.830
DHO	20.020	GSK	26.100	IRO	9.780	KGJX	1.712	KIJK	3.190	KQJ	18.020	PDK	10.410
DJB	10.285	GSL	6.110	IRW	19.520	KGM	3.093	KIHL	2.994	KRO	5.845	PDK	12.050
DJB	9.560	G6RX	4.320	IS3	5.015	KGOZ	2.466	KIIL	3.190	KSW	1.658	PD1	6.445
DJA	15.200	HAS3	15.370	I2RO	5.550	KGPA	2.414	KIIM	2.994	KSW	2.422	PE2	6.445
DJC	6.020	HAT	5.400	I2RO	5.725	KGPB	2.430	KIIM	3.190	KTO	16.240	PHI	11.725
DJD	11.770	HAT2	7.220	I2RO	6.085	KGPC	1.706	KIIN	2.994	KTP	8.120	PHI	17.775
DJE	17.760	HAT3	8.565	I2RO	6.980	KGPD	2.466	KIIN	3.190	KVP	1.712	PLE	18.830
DJG	4.580	HAT4	9.125	I2RO	9.630	KGPE	2.422	KIIO	2.994	KWN	21.060	PLF	17.850
DJK	12.035	HBF	18.950	JDX	15.510	KGPF	2.414	KIIO	3.190	KWO	15.415	PLG	15.950

SHORT WAVE STATIONS BY CALLS

PLK	14.480	VE9EH	6.080	WIEW	2.102	WPDA	2.414	WPGS	2.490	W1XAL	6.040	YDG7	3.300
PLM	12.290	VE9GW	6.090	WIEK	1.566	WPDB	1.712	WPGT	2.482	W1XAL	11.790	YDH3	3.490
PLP	11.000	VE9GW	11.810	WIEK	1.606	WPDC	1.712	WPGV	1.712	W1XAL	15.250	YDH4	3.310
PLQ	10.670	VE9GW	24.380	WIEK	2.102	WPDD	1.712	WPGW	2.382	W1XAL	21.460	YDH5	3.250
PLV	9.415	VE9HX	6.110	WIEK	2.390	WPDE	2.442	WPGX	2.466	W1XH	2.110	YDH6	3.130
PMA	19.345	VFJ	2.290	WIFI	2.738	WPDF	2.442	WPGZ	2.474	W1XK	9.570	YDH7	1.960
PMB	20.606	V1Y	12.210	WIR	4.276	WPDG	2.458	WPHA	2.466	W2XAD	15.330	YDH9	1.920
PMC	18.135	V1Z3	11.495	WIR	4.540	WPDH	2.442	WPHB	2.422	W2XAF	9.530	YD12	2.110
PMN	10.260	VK1	6.425	WIY	13.870	WPDI	2.430	WPHC	1.596	W2XBJ	4.550	YD12	2.890
PMY	5.140	VK2ME	9.585	WJER	1.606	WPDJ	2.414	WPHD	2.458	W2XBJ	10.370	YD13	2.870
PNI	8.775	VK3LR	5.678	WJER	2.102	WPDK	2.450	WPHF	1.634	W2XBJ	13.900	YD14	1.840
PPM	10.310	VK3LR	9.580	WJN	7.370	WPDL	2.442	WPHF	2.450	W2XBJ	17.940	YDK2	3.190
PPQ	11.670	VK3ME	9.503	WKA	21.060	WPDN	2.430	WPHG	1.712	W2XE	6.120	YDK3	2.710
PPU	19.270	VLJ	9.750	WKC	10.465	WPDN	2.382	WPHI	2.490	W2XE	11.830	YDK4	3.290
PRADO	6.620	VLK	8.095	WKC	13.465	WPDO	2.458	WPHJ	2.490	W2XE	15.270	YDK5	3.210
PRF5	9.505	VLLK	10.520	WKDT	1.630	WPDP	2.474	WPHK	1.596	W3XAL	6.100	YDK6	1.860
PSA	21.069	VLZ	7.960	WKDU	1.706	WPDR	2.422	WPHM	2.442	W3XAL	17.780	YDL2	4.810
PSA	14.935	VLZ	7.980	WKEM	1.622	WPDS	2.430	WPHN	2.466	W3XAU	6.060	YDL3	3.450
PSD	15.070	VPD	13.045	WKEM	2.150	WPDT	2.490	WPHO	2.430	W3XAU	9.590	YDL4	3.410
PSF	14.690	VQ7LO	6.060	WKF	4.253	WPDU	1.712	WPHP	2.466	W3XL	6.425	YDL5	3.210
PSH	10.220	VUB	9.565	WKF	19.220	WPDV	2.458	WPHQ	2.490	W3XL	17.310	YDL6	2.750
PSK	8.180	VUC	6.112	WKJ	9.460	WPDW	2.422	WPHS	1.634	W4XB	6.040	YDM2	3.320
RAU	15.104	VUC	9.575	WKK	21.410	WPDX	2.414	WPHU	1.634	W8XA	1.682	YDN2	1.940
REF	7.260	VWY	8.975	WKL	8.940	WPDY	2.414	WPHZ	2.482	W8XAL	6.060	YDN3	2.790
RIM	7.626	VWY	17.480	WKM	18.860	WPDZ	2.490	WPSP	1.674	W8XK	6.140	YD02	3.430
RIR	5.040	VWZ	8.690	WKN	19.820	WPE	13.840	WQA	21.220	W8XK	9.570	YD03	3.290
RKF	4.875	VWZ	8.693	WKO	15.970	WPEA	2.382	WQB	17.940	W8XK	11.870	YD04	3.180
RKF	6.870	VWZ	8.700	WKP	6.950	WPEB	2.474	WQC	17.860	W8XK	15.210	YD05	2.930
RKF	6.880	VWZ	8.708	WKU	14.830	WPEC	2.466	WQD	18.960	W8XK	17.780	YD06	2.770
RKF	6.900	VXU	5.540	WKW	15.450	WPED	1.712	WQE	18.920	W8XK	21.540	YD07	2.070
RKF	9.750	VXV	5.540	WLA	18.350	WPEE	2.450	WQF	17.920	W9XAA	6.080	YD08	1.980
RKF	12.500	VXW	5.540	WLEB	1.646	WPEF	2.450	WQFA	2.466	W9XAA	11.830	YD09	1.880
RKI	7.520	VXX	5.405	WLEX	2.150	WPEG	2.450	WQFB	2.414	W9XAA	17.780	YD02	3.390
RKI	15.040	VYP	1.596	WLK	16.270	WPEH	1.712	WQFE	1.634	W9XAK	2.050	YD03	3.350
RKI	15.090	VYP	1.668	WLL	17.900	WPEI	1.712	WQFO	2.430	W9XBU	1.634	YD04	3.230
RKK	6.135	VYR	1.712	WMA	13.390	WPEJ	1.712	WQF	15.040	W9XF	6.100	YD05	2.950
RKK	12.270	VYW	2.416	WMDZ	2.442	WPEK	2.430	WQH	18.880	W9XF	6.425	YD06	2.810
RNE	12.000	VYZ	2.212	WMEF	1.606	WPEL	1.666	WQI	17.880	XDA	14.525	YD07	3.370
ROI	5.490	WAD	8.930	WMEF	2.020	WPEM	2.466	WQJ	21.240	XEBT	6.000	YD03	5.260
RPK	7.225	WAJ	13.480	WMEF	2.102	WPEP	2.450	WQL	14.815	XECR	7.380	YD04	2.830
RPT	5.995	WAW	12.930	WMEF	2.760	WPEQ	1.570	WQN	5.263	XECV	5.980	YD05	1.850
RRD	8.225	WBU	21.260	WMEP	2.930	WPEB	2.442	WQN	5.505	XGB	11.140	YDV2	3.330
RRZ	4.400	WCG	10.370	WMEP	6.615	WPET	1.706	WQN	5.825	XGBD	9.580	YID	4.470
RSB	5.375	WCK	2.414	WMEQ	6.615	WPEV	1.666	WQD	6.725	XGK	18.690	YID	6.135
RSN	5.440	WDA	9.480	WMES	2.550	WPEW	1.666	WQP	13.900	XGL	7.960	YNA	14.480
RSZ	8.770	WDB	6.718	WMEU	2.930	WPEA	1.712	WQV	20.260	XGN	16.380	YNLF	6.714
RTA	6.440	WDG	4.535	WMEU	6.615	WPEF	2.442	WQR	16.015	XGO	7.575	YNI6G	6.450
RTZ	7.275	WDN	4.550	WMEV	2.930	WPDF	2.430	WQS	13.915	XGOX	6.000	YVQ	6.672
RV15	4.273	WDS	18.900	WMEV	6.615	WPEF	2.442	WQU	13.855	XGOX	9.500	YVQ	13.337
RV59	5.996	WEA	10.610	WMF	14.470	WPGF	2.442	WQV	14.800	XGOX	11.900	YVR	9.168
SR1	9.490	WEB	6.935	WMJ	2.422	WPFH	2.414	WQW	10.600	XGOX	17.800	YVR	18.296
SUV	10.055	WEC	8.930	WMN	14.590	WPGI	2.414	WQX	20.180	XGW	10.420	YV2RC	6.112
SUZ	13.810	WED	10.630	WMO	2.414	WPKF	2.430	WQY	20.100	YBG	10.430	YV3RC	6.150
SUZ	13.810	WED	10.620	WMP	1.666	WPFM	2.382	WRBH	2.458	YBZ	7.680	YV3RC	9.510
TGF	14.545	WEG	7.415	WNA	9.170	WPFN	1.712	WRDQ	2.474	YCP	8.575	YV4RC	6.375
TGX	5.937	WEJ	6.740	WNB	10.675	WPGO	2.474	WRDR	2.414	YDA	3.040	YV5RMO	5.850
TIEP	6.710	WEL	8.950	WNC	15.055	WPPF	2.490	WRDS	1.642	YDA	6.040	YV6RV	6.520
TIEP	13.415	WEL	13.435	WND	4.098	WPFQ	2.474	WRJ	3.410	YDA2	2.385	ZBW	6.750
TIGPH	5.820	WEM	7.400	WNEI	1.622	WPF5	2.458	WST	3.410	YDA3	1.640	ZEA	6.590
TIN	14.545	WEO	6.958	WNEI	2.150	WPF5	2.474	WTDV	4.295	YDA4	1.550	ZEB	6.590
TIU	14.545	WES	9.448	WNER	2.060	WPF7	2.442	WTDW	4.295	YDA5	6.120	ZFA	5.025
TIPG	6.550	WET	9.470	WNFP	2.422	WPFU	2.422	WTDX	4.295	YDA6	2.870	ZFB	10.055
TIR	7.685	WEX	13.450	WOA	6.755	WPFV	2.466	WTR	6.385	YDA7	3.270	ZFD	10.335
TIRCC	6.550	WEY	1.630	WOB	5.850	WPFW	2.466	WTT	18.940	YDA8	1.510	ZFO	5.300
TYA	12.215	WEZ	6.928	WOF	9.750	WPFX	2.442	WVD	2.604	YDB	4.470	ZFS	4.512
VAC	1.510	WFX	18.980	WOC	4.253	WPGY	2.442	WVD	5.995	YDB2	2.500	ZFG	6.125
VAF	1.510	WHR	2.102	WOK	10.550	WPFZ	2.442	WVD	6.618	YDB3	1.860	ZGE	6.125
VBQ	2.350	WHER	1.606	WON	9.870	WPGA	2.466	WVAD	4.988	YDB4	1.615	ZHI	6.060
VBY	1.540	WHR	13.420	WOO	4.178	WPGB	2.466	WVAJ	3.410	YDB5	1.595	ZJZ	6.080
V8Y	1.650	WIED	1.566	WOO	4.753	WPGC	1.658	WVAL	3.410	YDB6	1.570	ZJH	6.080
VE9AS	6.425	WIED	2.390	WOO	8.560	WPGD	2.458	WVAM	3.410	YDB7	1.530	ZLR	7.390
VE9BJ	6.090	WIEG	2.150	WOD	12.840	WPGG	1.596	WVAD	3.410	YD02	1.630	ZLS	8.900
VE9CA	11.860	WIEH	1.622	WOD	17.120	WPGH	2.414	WVE	3.410	YD03	1.585	ZLT	10.990
VE9CA	6.030	WIEK	1.646	WOU	2.506	WPGI	2.430	WVG	3.410	YDE2	2.410	ZLT	10.990
VE9CS	6.070	WIEK	2.190	WOX	2.590	WPGJ	2.414	WVH	3.410	YDE3	2.910	ZSS	19.890
VE9DN	6.005	WIEL	1.646	WOY	4.178	WPGK	2.466	WVHJ	3.410	YDE4	2.415	ZSV	8.220
VE9DN	9.555	WIEL	2.190	WOY	4.753	WPLG	2.442	WVM	3.410	YDE5	2.750	ZSV	12.500
VE9DN	11.780	WIEO	1.606	WOY	8.560	WPGM	2.414	WVN	3.410	YD02	3.470	ZTJ	6.123
VE9DN	15.130	WIEO	2.020	WOY	12.840	WPGN	2.490	WWR	3.410	YD03	3.150	ZTJ	6.123
VE9DR	6.005	WIEO	2.102	WOY	17.120	WPGD	2.490	WWZ	3.410	YD04	2.850	ZP10	6.666
VE9DR	9.580	WIEO	2.760	WOZ	3.423	WPGP	2.442	WXH	6.662	YD05	2.900	ZP10	6.666
VE9DR	11.895	WIEW	1.606	WOZ	6.385	WPGQ	1.596	WYBF	2.604	YD06	1.890	ZP11	3.800

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.
 KFYZ ae 1000 N (5) Bismarck, N. D.
 KOAC ak 1000 Corvallis, Ore.
 KSD ak 1000 2R (5) St. Louis, Mo.
 KTSA 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
 WSWA 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 565 Guatemala City
 WFIL ae 1000 B Philadelphia, Pa.
 WIND ak 1000 (2.5) Gary, Ind.
 WNOX ak 1000 C (2) Knoxville, Tenn.
 WQAM 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 1G Youngstown, Ohio
 WMCA ak 500 New York, N. Y.
 WNAX ak 1000 C (5) Yankton, S. D.
 WOSU ak 750 1 (1) Columbus, Ohio
 WSYR 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.
 WIBW ak 1000 C2 (5) Topeka, Kans.
 WTAG ae 500 R (1) Worcester, Mass.

590 kilocycles (508.2)

KHIQ ak 1000 N (2.5) Spokane, Wash.
 WEEI ak 1000 R Boston, Mass.
 WKZO ae 1000 D Kalamazoo, Mich.
 WOW ae 1000 R (5) Omaha, Neb.
 XEPN ak 50000 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.
 FQN 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)

KFRC 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.
 KTAR ae 1000 N Phoenix, Ariz.
 WFLA ae 1000 Na Clearwater, Fla.
 WHJB ak 250 (.5) Greensburg, Pa.
 WLBZ ak 500 C (1) Bangor, Maine
 WBSUN 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'wn, P.E.I.
 CJGX ak 500 F Yorkton, Sask.
 CKOV ak 100 F Kelowna, B. C.
 KFRU ak 500 1 (1) Columbia, Mo.
 KGFY ak 200 D Pierre, S. D.
 WGBF ae 500 1 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.
 WEAF 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.
CKAK 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) Sudbury, 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.
KELV ae 500 2 Burbank, Calif.
KFDY ae 1000 D Brookings, S. D.
KFQD 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.
WTAR 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)

CFOC ak 1000 F Saskatoon, Sask.
CMO 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.
KWKII ae 10000 C Shreveport, La.
TIEP z 500 N 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.
GMBN 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 Denver, Colo.
WGOC ae 500 2 Meridian, Miss.
WGBI ae 500 2 (1) Scranton, Pa.
WPHR ae 500 I Petersburg, Va.
WQAN ae 250 D 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.
KKNF 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 DP Stevens Point, Wis.
 WMFI 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
 HIK 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
 KVD ak 500 2 Denver, Colo.
 WAAF ak 500 D Chicago, Ill.
 WBSO ae 500 D Babson Park, Mass.
 WPEN ak 250 (.5) 1 Philadelphia, Pa.
 WRAX ak 250 1 (.5) Philadelphia, Pa.
 WSPA ae 1000 D Spartanburg, S. C.
 WWJ ak 1000 R 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 F Prescott, Ont.
 CHNS ae 1000 F Halifax, N. S.
 CKPC ae 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.
 TIRH z 50 San Jose, C. R.
 WBRG 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 ak 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.
 KFVB ak 1000 (2.5) Hollywood, Calif.
 KHSL z 250 D (5) Chlco, 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)

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

1010 kilocycles (296.9)

GHML aei 50 F Hamilton, Ont.
 CHWC ak 500 3F Regina, Sask.
 GKCD ak 100 Vancouver, B. C.
 GKCK ak 500 3F Regina, Sask.
 GKIC ak 50 Ottawa, Ont.
 GKWX ak 100 F Wolfville, N. S.
 CMJG z 50 Vancouver, B. C.
 KGGF ak 1000 2 Camaguey, Cuba
 KQW ae 1000 Coffeyville, Kans.
 TIGA z 30 1014 San Jose, Calif.
 WHN ae 1000 (5) Cartago, C. R.
 WIS ae 500 N (1) New York, N. Y.
 WNAD ae 1000 2 (1) Columbia, S. C.
 XEU ak 250 Norman, Okla.
 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.
 CKLW 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	Manzanco, Tams.

1090 kilocycles (275.1)

KMOX	ak	50000	C	St. Louis, Mo.
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1100 kilocycles (272.6)

GRGV	ak	1000	F	Vancouver, B. C.
KGDM	ak	1000	D	Stockton, Calif.
TIRC	ak	75	.....	San Jose, C. R.
WLWL	ae	5000	1	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	.....	Matazayas, 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.
WGCM	ae	500	.....	Mississippi City
WISN	ak	250	(1)	Milwaukee, Wis.
WMPH	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	Richester, 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.
VE9EK	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.
KFJB	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.
KGFJ	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
WHRC	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	ae	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.
WNR1	z	100	(.25) P	Newport, R. I.
WRBL	ak	100	.....	Columbus, Ga.
WVAE	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.
CKMK	ak	50	.....	Cobalt, Ont.
CMHI	ak	150	.....	Santa Clara, Cuba
KASA	ck	100	.....	Elk City, Okla.
KDLR	ak	100	.....	Devis Lake, N. D.
KFJ1	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	100	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	.....	Wilkes Barre, Pa.
WBBL	ak	100	S	Richmond, Va.
WBRB	ak	100	3	Red Bank, N. J.
WCOL	ak	100	.....	Columbus, Ohio
WCRW	ae	100	4	Chicago, Ill.
WEBO	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)	Poyntette, Wis.
WJBY	ak	100	.....	Gadsden, Ala.
WJEJ	ah	100	D	Hagerstown, Md.
WJIM	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	4	Clarksdale, Miss.
WOCL	ak	50	.....	Jamesstown, 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.
XEFJ	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	ae	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
KGGU	ak	250	.....	Mandan, N. D.
KGKO	ak	1000	C	Wichita Falls, Texas
KLPM	ak	250	.....	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	1500	1255	Havana, Cuba
CMKK	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.
WTOC	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.
WFBP	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
KFBP	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	I	Trenton, N. J.
XEMX	z	12	.....	Mexico City, D. F.

WTAL	z	100	P	Tallahassee, Fla.
WTEL	ah	100	4	Philadelphia, Pa.
WTJS	ak	100	(.25)	Jackson, Tenn.
WTRC	ak	50	6 (.1)	Elkhart, Ind.
XEAJ	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.

1290 kilocycles (232.4)

KDYL	ak	1000	N	Salt Lake City, Utah
KLCN	z	100	D	Blytheville, Ark.
KTRH	ak	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.
WBRR	ae	1000	1	Brooklyn, N. Y.
WEVD	ak	1000	1	New York, N. Y.
WFAB	ae	1000	1	New York, N. Y.
WFBC	ak	1000	(5)	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
KFRR	ak	100	(.25)	Oklahoma City, Ok.
KFYO	ak	100	(.25)	Lubbock, Texas
KGCX	ak	100	(.25)	Wolf Point, Mont.
KGEZ	aj	100	.....	Kalispell, Mont.
KGFW	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.
WDAH	ak	100	S	El Paso, Texas
WEBR	ae	100	(.25)	Buffalo, N. Y.
WEXL	ak	50	.....	Royal Oak, Mich.
WFBG	ae	100	3	Aitona, Pa.
WDFD	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.

1320 kilocycles (227.1)

CMCK	z	100	P	Havana, Cuba
CMOX	z	250	.....	CMAV, 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
WDRG	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.
KGIR	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	ae	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	ae	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	ae	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
HIH	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.
CMGR	z	150	....	Havana, Cuba
KGNC	ae	1000	(2.5)	Amarillo, Texas
WAAB	ak	500	C	Boston, Mass.
WBGM	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.
WSFA	ak	500	C (1)	Montgomery, Ala.

1420 kilocycles (211.1)

CKGK	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.
KFIZ	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	4 (2.5)	Portland, Ore.
WACO	ak	100	C	Waco, Texas
WAGM	ae	100	....	Presque Isle, Maine
WAZL	ak	100	2	Hazleton, Pa.
WBCS	ak	100	....	Springfield, Ill.
WEED	ak	100	3	Rocky Mount, N. C.
WEHC	ae	100	3 (2.5)	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.
WHFG	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.
WLAP	ak	100	(.25)	Lexington, Ky.
WLBF	ak	100	....	Kansas City, Kans.
WLEU	z	100	(.25)	Erie, Pa.
WMSA	ak	100	C (2.5)	Springfield, Mass.
WMBG	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)	Faducuh, Ky.
WPAP	z	100	P	Farkersburg, W. Va.
WPRP	z	100	P (2.5)	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.
KGNF	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.
WMBD	ae	500	C	Peoria, Ill.
WSAN	aj	500	a	Allentown, Pa.
XEFI	ae	250	.....	Chihuahua, Chih.

KGFI	ak	100	(.25)	Corpus Christi, Tex.
KGFK	ak	100	Y	Moorhead, Minn.
KGKB	ak	100	.....	Tyler, Texas
KGKY	ck	100	(.25)	Scottsbluff, Neb.
KNOW	ak	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	1 (.25)	Brooklyn, N. Y.
WDNC	ak	100	C	Durham, N. C.
WGAL	ae	100	(.25)	Lancaster, Pa.
WHEF	z	100	(.25)	Kosciusko, Miss.
WJBK	z	100	(.25)	Detroit, Mich.
WJBB	ae	100	(.25)	E. Dubuque, Ill.
WKBV	ak	100	.....	Richmond, Ind.
WKBZ	ak	100	(.25)	Muskegon, Mich.
WKBU	ak	100	.....	Griffin, Ga.
WMBO	ae	100	1	Brooklyn, N. Y.
WMEX	ak	100	(.25)	Boston, Mass.
WNOF	ae	100	C	Binghamton, N. Y.
WOPI	ae	100	.....	Bristol, Tenn.
WRDW	ak	100	.....	Augusta, Ga.
WRGA	ak	100	(.25)	Rome, Ga.
WSWV	ak	100	.....	Rutland, Vt.
WTMV	z	100	.....	East St. Louis, Ill.
WWRL	ak	100	1 (.25)	Woodside, N. Y.
WWSW	ae	100	(.25)	Pittsburgh, Pa.
.....	z	100	P	St. Louis, Mo.
.....	z	100	DP	Brady, Texas

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	ae	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.

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.
W6XAI	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.
n	Weather or time only.
z	No information available.

Fourth Column Symbols

B	National "Blue" network.
C	Columbia network.
D	Day time only.
Dn	Day time with occasional evening hours.
F	Canadian Radio Brdestg. Commission.
N	National "Red" and "Blue" networks.
P	Has construction permit only.
R	National "Red" network.
S	Sunday only.
Sy	Synchronized.
X	Has permit to increase power.
Y	Has permit to change location.
Z	Has permit to change frequency.
a-b-c.	Small letters show stations using same transmitter.
1-2-3.	Figures denote stations sharing time.
.....	No information.

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Frequency in kilocycles in second column. Night power in watts in third column. Net work affiliations in fourth column: C Columbia, R National Red, B National Blue, N National Red and Blue. F Canadian.

ALABAMA	Burbank	Durango	Atlanta
Birmingham	KELW 780 500	KIUP 1370 100	WGST 890 500 C
WAPI 1140 5000 N	Chico	Grand Junction	WJTL 1370 100
WBRC 930 1000 C	KHSL 950 250	KFXJ 1200 100	WSB 740 50000 N
WSGN 1310 100	Del Monte	Greeley	Augusta
Decatur	KFUH 1210 100	KFKA 880 500	WRDW 1500 100
WMFO 1370 100	El Centro	Lamar	Columbus
Dothan	KXO 1500 100	KIDW 1420 100	WRBL 1200 100
WAGF 1370 100	Eureka	Pueblo	Griffin
Gadsden	KIEM 1210 100	KGHF 1320 500	WKUE 1500 100
WJBY 1210 100	Fresno	Sterling	Macon
Mobile	KMJJ 580 1000 C	KGEK 1200 100	WMAZ 1180 1000
WALA 1380 500 C	Glendale	CONNECTICUT	Rome
Montgomery	KIEV 850 250	Bridgeport	WRGA 1500 100
WSFA 1410 500 C	Hollywood	WIGC 600 500 C	Savannah
Muscle Shoals	KFWB 950 1000	Hartford	WTOC 1260 1000 C
WNRA 1420 100	KMTR 570 1000	WTRC 1040 50000 R	Thomasville
	KNX 1050 50000	New Britain	WPAX 1210 250
	Long Beach	WNBC 1380 250	
	KFOX 1250 1000	New Haven	HAWAII
	KGER 1360 1000	WMFI 900 500	Hilo 1420 100
	Los Angeles	Storrs	Honolulu
	KECA 1430 1000 N	WCAC 600 500	KGMB 1320 1000 C
	KEHE 780 500	Waterbury	KGU 750 2500 N
	KFAC 1300 1000	WATR 1190 100	
	KFI 640 50000 N	WIXBS 1530 1000	IDAHO
	KFSG 1120 1000		Boise
	KFVD 1000 250	DELAWARE	KIDO 1350 1000
	KGFJ 1200 100	Wilmington	Idaho Falls
	KHJ 900 1000 C	WDEL 1120 250	KID 1320 250
	KRRD 1120 1000	WILM 1420 100	Lewiston
	Modesto	DISTRICT OF	Nampa
	KTRB 740 250	COLUMBIA	KFXD 1200 100
	Oakland	Washington	Pocatello
	KLS 1440 250	WJSV 1460 10000 C	KSEI 900 250
	KLX 880 1000	WMAL 630 250 B	Twin Falls
	KROW 930 1000	WOL 1310 100	KTFI 1240 1000
	Pasadena	WRC 950 500 R	
	KPPC 1210 50	FLORIDA	ILLINOIS
	Sacramento	Clearwater	Bloomington
	KFBK 1490 5000 C	WFLA 620 1000 N	WJBC 1200 100
	San Bernardino	Daytona Beach	Carthage
	KFXM 1210 100	WMFJ 1420 100	WCAZ 1070 100
	San Diego	Gainesville	Chicago
	KFSD 600 1000 N	WRUF 830 5000	WAAF 920 500
	KBG 1330 1000 C	Jacksonville	WBBM 770 50000 C
	San Francisco	WJAX 900 1000 N	WCL 970 1500 B
	KFRG 610 1000 C	WMBR 1370 100 C	WCRW 1210 100
	KGGC 1420 100	Miami	WEDC 1210 100
	KGO 790 7500 N	WIOD 1300 1000 N	WENR 870 50000 N
	KJBS 1070 500	WQAM 560 1000 C	WGES 1360 500
	KPO 680 50000 N	Orlando	WGN 720 50000
	KSFO 560 1000	WDBO 580 1000 C	WJLD 1130 20000
	KYA 1230 1000 N	Pensacola	WLS 870 50000 N
	San Jose	WCOA 1340 500 C	WMAQ 670 50000 N
	KQW 1010 1000	St. Petersburg	WMBI 1080 5000
	Santa Ana	WSUN 620 1000 N	WSBC 1210 100
	KREG 1500 100	Tallahassee	Cicero
	Santa Barbara	WTAL 1310 100	WEIS 1420 100
	KDB 1500 100 C	Tampa	WHFC 1420 100
	Stockton	WDAE 1220 1000 C	WKBI 1420 100
	KGDM 1100 1000	GEORGIA	Decatur
	KWG 1200 100 C	Albany	WJBL 1200 100
	COLORADO	WGPC 1420 100	East Dubuque
	Alamosa	Athens	WKBB 1500 100
	KGIW 1420 100	WTFI 1450 500	East St. Louis
	Colorado Springs		WTMV 1500 100
	KVOR 1270 1000 C		Harrisburg
	Denver		WEBQ 1210 100
	KFEL 920 500		Joliet
	KLZ 560 1000 C		WCLS 1310 100
	KOA 830 50000 N		
	KPOF 880 500		
	KVOD 920 500		
	CALIFORNIA		
Bakersfield			
KERN 1370 100 C			
W6XA1 1550 1000			
Berkeley			
KRE 1370 100			
Beverly Hills			
KMPC 710 500			

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Peoria</td><td></td><td></td></tr> <tr><td>WMPD</td><td>1440</td><td>500 C</td></tr> <tr><td>Quincy</td><td></td><td></td></tr> <tr><td>WTAD</td><td>900</td><td>500</td></tr> <tr><td>Rockford</td><td></td><td></td></tr> <tr><td>WROK</td><td>1410</td><td>500</td></tr> <tr><td>Rock Island</td><td></td><td></td></tr> <tr><td>WHBF</td><td>1210</td><td>100</td></tr> <tr><td>Springfield</td><td></td><td></td></tr> <tr><td>WCBS</td><td>1420</td><td>100</td></tr> <tr><td>WTAX</td><td>1210</td><td>100</td></tr> <tr><td>Tuscola</td><td></td><td></td></tr> <tr><td>WDZ</td><td>1020</td><td>250</td></tr> <tr><td>Urbana</td><td></td><td></td></tr> <tr><td>WILL</td><td>890</td><td>1000</td></tr> <tr><td>Waukegan</td><td></td><td></td></tr> <tr><td>WCBD</td><td>1080</td><td>5000</td></tr> <tr><td colspan="3" style="text-align: center;">INDIANA</td></tr> <tr><td>Anderson</td><td></td><td></td></tr> <tr><td>WHBU</td><td>1210</td><td>100</td></tr> <tr><td>Elkhart</td><td></td><td></td></tr> <tr><td>WTRC</td><td>1310</td><td>50</td></tr> <tr><td>Evansville</td><td></td><td></td></tr> <tr><td>WGBF</td><td>630</td><td>500</td></tr> <tr><td>Fort Wayne</td><td></td><td></td></tr> <tr><td>WGL</td><td>1370</td><td>100 C</td></tr> <tr><td>WOWO</td><td>1160</td><td>10000 C</td></tr> <tr><td>Gary</td><td></td><td></td></tr> <tr><td>WIND</td><td>560</td><td>1000</td></tr> <tr><td>Hammond</td><td></td><td></td></tr> <tr><td>WWAE</td><td>1200</td><td>100</td></tr> <tr><td>Indianapolis</td><td></td><td></td></tr> <tr><td>WFBM</td><td>1230</td><td>1000 C</td></tr> <tr><td>WIRE</td><td>1400</td><td>500 R</td></tr> <tr><td>Muncie</td><td></td><td></td></tr> <tr><td>WLCB</td><td>1310</td><td>50</td></tr> <tr><td>Richmond</td><td></td><td></td></tr> <tr><td>WKBV</td><td>1500</td><td>100</td></tr> <tr><td>South Bend</td><td></td><td></td></tr> <tr><td>WFAM</td><td>1200</td><td>100</td></tr> <tr><td>WSBT</td><td>1360</td><td>500 C</td></tr> <tr><td>Terre Haute</td><td></td><td></td></tr> <tr><td>WBOW</td><td>1310</td><td>100</td></tr> <tr><td>West Lafayette</td><td></td><td></td></tr> <tr><td>WBAA</td><td>890</td><td>1000</td></tr> <tr><td colspan="3" style="text-align: center;">IOWA</td></tr> <tr><td>Ames</td><td></td><td></td></tr> <tr><td>WOI</td><td>640</td><td>5000</td></tr> <tr><td>Boone</td><td></td><td></td></tr> <tr><td>KFGO</td><td>1370</td><td>100</td></tr> <tr><td>Cedar Rapids</td><td></td><td></td></tr> <tr><td>WMT</td><td>600</td><td>1000 B</td></tr> <tr><td>Council Bluffs</td><td></td><td></td></tr> <tr><td>KOIL</td><td>1260</td><td>1000 B</td></tr> <tr><td>Davenport</td><td></td><td></td></tr> <tr><td>WOC</td><td>1370</td><td>100 C</td></tr> <tr><td>Decorah</td><td></td><td></td></tr> <tr><td>KGCA</td><td>1270</td><td>100</td></tr> <tr><td>KWLC</td><td>1270</td><td>100</td></tr> <tr><td>Des Moines</td><td></td><td></td></tr> <tr><td>KRNT</td><td>1320</td><td>500 C</td></tr> <tr><td>KSO</td><td>1430</td><td>250 B</td></tr> <tr><td>WHO</td><td>1000</td><td>50000 R</td></tr> <tr><td>Iowa City</td><td></td><td></td></tr> <tr><td>WSUI</td><td>880</td><td>500</td></tr> <tr><td>Marshalltown</td><td></td><td></td></tr> <tr><td>KFJB</td><td>1200</td><td>100</td></tr> <tr><td>Shenandoah</td><td></td><td></td></tr> <tr><td>KKNF</td><td>890</td><td>500</td></tr> <tr><td>KMA</td><td>930</td><td>1000</td></tr> <tr><td>Sioux City</td><td></td><td></td></tr> <tr><td>KSCJ</td><td>1330</td><td>1000 C</td></tr> <tr><td colspan="3" style="text-align: center;">KANSAS</td></tr> <tr><td>Abilene</td><td></td><td></td></tr> <tr><td>KFBI</td><td>1050</td><td>5000</td></tr> </table>	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	1020	250	Urbana			WILL	890	1000	Waukegan			WCBD	1080	5000	INDIANA			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			WWAE	1200	100	Indianapolis			WFBM	1230	1000 C	WIRE	1400	500 R	Muncie			WLCB	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	IOWA			Ames			WOI	640	5000	Boone			KFGO	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			KKNF	890	500	KMA	930	1000	Sioux City			KSCJ	1330	1000 C	KANSAS			Abilene			KFBI	1050	5000	<table border="1" style="width: 100%; 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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Lincoln KFAB 770 10000 C KFOR 1210 100 C Norfolk WIAC 1060 1000 North Platte KGNF 1430 1000 Omaha WAAW 660 500 WOW 590 1000 R Scottsbluff KGKY 1500 100 York KGBZ 930 1000</p>	<p>Buffalo WBFN 900 1000 R WEBR 1310 100 WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 Canton WCAD 1220 500 Chester WGNV 1210 100 Elmira WESG 850 1000 C Freeport WGBB 1210 100 Jamestown WOCL 1210 50 Long Island City W2XR 1550 1000 New York WABC 860 50000 C WBNX 1350 250 WBOQ 860 50000 WEAJ 660 50000 R WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000 WINS 1180 1000 WJZ 760 50000 B WLWL 1100 5000 WMCA 570 500 WNYC 810 1000 WOV 1130 1000 Ohlean WHD 1420 100 Plattsburg WMFF 1310 100 Rochester WHAM 1150 50000 B WHEC 1430 500 C Saranac Lake WNBZ 1290 100 Schenectady WGY 790 50000 R Syracuse WFBL 1360 1000 C WSYR 570 250 B Troy WHAZ 1300 500 Utica WIBX 1200 100 C White Plains WFAS 1210 100 Woodside WWRL 1500 100</p>	<p>Devils Lake KDLR 1210 100 Fargo WDAY 940 1000 N Grand Forks KFJM 1370 100 Mandan KGCU 1240 250 Minot KLPM 1240 250</p> <p style="text-align: center;">OHIO</p> <p>Akron WADC 1320 1000 C WJW 1210 100 Canton WHBC 1200 100 Cincinnati WFBE 1200 100 WKRC 550 1000 C WLW 700 50000N WSAI 1330 1000 R Cleveland WGAR 1450 500 B WHK 1390 1000 C WJAY 610 500 WTAM 1070 50000 R Columbus WAIU 640 500 WBNS 1430 500 C WCOL 1210 100 WOSU 570 750 Dayton WHIO 1260 1000 R WSMK 1380 200 C Portsmouth WPAJ 1370 100 Toledo WSPD 1340 1000 C Youngstown WKBN 570 500 C Zanesville WALR 1210 100</p> <p style="text-align: center;">OKLAHOMA</p> <p>Ada KADA 1200 100 Ardmore KVSO 1200 100 Elk City KASA 1210 100 Enid KCRC 1360 250 Norman WNAD 1010 1000 Oklahoma City KFXX 1310 100 KGFG 1370 100 KOMA 1480 5000 C WKY 900 1000 N Ponca City WBBZ 1200 100 Shawnee KGFF 1420 100 Tulsa KTUL 1400 500 C KVOO 1140 25000 N</p> <p style="text-align: center;">OREGON</p> <p>Astoria KAST 1370 100 Corvallis KOAC 550 1000 Eugene KORE 1420 100 Klamath Falls KFJI 1210 100</p>	<p>Marshfield KOOB 1200 250 Medford KMED 1310 100 Portland KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 N KFJR 1300 500 KGW 620 1000 N KOIN 940 1000 C KWJ 1040 500 KXL 1420 100 Salem KSLM 1370 100</p> <p style="text-align: center;">PENNSYLVANIA</p> <p>Allentown WGBA 1440 500 WSAN 1440 500 Altoona WFBG 1310 100 Erie WLEU 1420 100 Glenaside WIBG 970 100 Greensburg WHJB 620 250 Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazleton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster WCAL 1500 100 WKJC 1200 100 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 Pittsburgh KDKA 980 50000 B KQV 1380 500 WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100 Reading WEEU 830 1000 WRAW 1310 100 Scranton WGBI 880 500 WQAN 880 250 Sunbury WKOK 1210 100 Wilkes-Barre WBAX 1210 100 WBRE 1310 100 Williamsport WRAK 1370 100 York WORK 1320 1000</p> <p style="text-align: center;">PUERTO RICO</p> <p>Ponce WPRP 1420 100 San Juan WKAQ 1240 1000 WNEL 1290 500</p>
<p style="text-align: center;">NEVADA</p> <p>Reno KOH 1380 500 C</p> <p style="text-align: center;">NEW HAMPSHIRE</p> <p>Laconia WLNH 1310 100 Manchester WFEA 1340 500 C Portsmouth WHEB 740 250</p> <p style="text-align: center;">NEW JERSEY</p> <p>Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WNEW 1250 1000 WOR 710 50000 Red Bank WBRB 1210 100 Trenton WTNJ 1280 500 Zarephath WAWZ 1350 500</p> <p style="text-align: center;">NEW MEXICO</p> <p>Albuquerque KGGM 1230 250 KOB 1180 10000 Clovis KICA 1370 100 Roswell KGFL 1370 100 Santa Fe KIUF 1310 100</p> <p style="text-align: center;">NEW YORK</p> <p>Albany WABY 1370 100 WOKO 1430 500 C Auburn WMBO 1310 100 Binghamton WBNF 1500 100 C Brooklyn WARD 1400 500 WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WLTH 1400 500 WMBQ 1500 100 WVFV 1400 500</p>	<p style="text-align: center;">NORTH CAROLINA</p> <p>Asheville WWNC 570 1000 N Charlotte WBT 1080 50000 C WSOC 1210 100 N Durham WDNC 1500 100 C Greensboro WBIG 1440 500 C High Point WMFR 1200 100 Raleigh WPTF 680 1000 N Rocky Mount WEED 1420 100 Wilmington WMFD 1370 100 Winston-Salem WSJS 1310 100 C</p> <p style="text-align: center;">NORTH DAKOTA</p> <p>Bismarck KFYY 550 1000 N</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 CKIK 1010 50</p> <p>Yarmouth CJLS 1310 100</p>	<p style="text-align: center;">Montreal</p> <p>CFCE 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 style="text-align: center;">Ensenada XEG 1270 500</p> <p style="text-align: center;">Mexicali XEAA 920 200 XEAO 560 250</p> <p style="text-align: center;">Tijuana XEC 1270 50 XEFL 1150 5000 XEMO 865 2500 XEOK 765 2500</p>	<p style="text-align: center;">NUEVO LEON</p> <p style="text-align: center;">Monterrey XEFB 1420 100 XEFJ 1230 100 XEH 1150 250 XET 690 500 XEX 1310 125</p>
<p style="text-align: center;">ONTARIO</p> <p>Brantford CKPC 1930 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 CFLC 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 XEFI 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</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;">COAHUILA</p> <p>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 940 500 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;">GUATEMALA</p> <p>Guatemala City TGW 565 10000 TGX 1400 150</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;">DURANGO</p> <p>Durango XEE 1210 50</p> <p>Mineral del Monte XELM 1310 15</p>	<p style="text-align: center;">SONORA</p> <p>Nogales XEAF 980 250</p>
<p style="text-align: center;">EL SALVADOR</p> <p>San Salvador RDN 706 500</p>	<p style="text-align: center;">MEXICO</p>	<p style="text-align: center;">GUANJUATO</p> <p>Guanajuato XEAZ 1420 7</p> <p>Leon XEKL 1240 500</p>	<p style="text-align: center;">TAMAULIPAS</p> <p>Nuevo Laredo XEAM 960 50 XEFE 920 250 XENT 910 60000</p> <p>Reynosa XEAW 960 10000</p> <p>Tampico XEFW 1310 250 XEMA 1080 50 XES 990 250</p>
<p style="text-align: center;">BAJA CALIFORNIA</p> <p>Agua Caliente XEBC 730 5000</p>	<p style="text-align: center;">AGUASCALIENTES</p> <p>Aguaascalientes XFC 810 350</p>	<p style="text-align: center;">JALISCO</p> <p>Guadalajara XEA 1060 125 XED 1160 500</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;">YUCATAN</p> <p>Merida XEFC 1310 100 XEZ 630 500</p>	<p style="text-align: center;">WEST INDIES</p>	<p style="text-align: center;">MICHOACAN</p> <p>Morelia XEI 1370 125</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>

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

CMHX 760 150	CMCB 1230 100	CMW 600 1000	
Colon	CMCD 960 200	CMX 920 500	Santiago
CMGI 1420 50	CMCF 815 250	Helquin	CMKC 1250 150
Cruces	CMCG 1255 150	CMKF 1460 50	CMKD 1050 250
CMHK 1330 250	CMCJ 1200 350	Manzanillo	CMKR 1400 200
Guantanamo	CMCN 1500 150	CMKM 1120 50	CMKV 1190 50
CMKJ 1300 20	CMCO 1110 150	Matanzas	
Havana	CMCP 1270 150	CMGG 1400 100	DOMINICAN REPUBLIC
CMAF 730 250	CMCO 680 250	CMGF 1120 100	San Pedro de Macoris
CMBC 940 200	CMCR 1410 150	GMGH 1040 15	HIH 1395 15
CMBD 1170 150	CMCU 1280 150	Moron	Santo Domingo
CMBG 1140 300	CMCW 750 125	CMJP 1430 100	HIJ 1195 15
CMBN 880 150	CMCX 660 150	Sagua la Grande	HIK 1270 1000
CMBS 770 120	CMCY 1030 1000	CMHA 1070 50	HIH 1300 10
CMBX 1380 150	CMK 1060 1500	San Spiritus	
CMBY 640 125	CMOA 790 75	CMIB 1240 50	HAITI
CMBZ 1060 150	CMOK 1470 200	Santa Clara	Port-au-Prince
CMC 835 500	CMOX 1320 250	CMII 1210 150	HHK 920 1000
CMCA 1350 450	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 Brdrestg. 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.	CJCJ 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 Grain 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	CKAK 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. Flgott Bldg.	CKCK 1010 500 Regina, Sask. 1853 Hamilton St.
CHNC 1410 500 New Carlisle, Que. Gaspeian Radio Brdrestg. 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	CMCN 1500 150	Havana, Cuba Reina y Ave. Buen Ritiroe, Mariana
CKFC 1410 50	Vancouver, B. C. Hemlock & 12th Ave.	CMCO 1110 150	Havana, Cuba Oficios 116, Enrique Lasanta
CKGB 1420 100	Timmins, Ont. R. H. Thompson, Press Bldg.	CMCP 1270 150	Havana, Cuba Calzada de Luyane No. 132
CKIC 1010 50	Wolfville, N. S. Acadia University	CMCQ 680 250	Havana, Cuba Vista Alegre No. 80, Vibora
CKLW 1030 5000	Windsor, Ont. Guaranty Trust Bldg.	CMCR 1410 150	Havana, Cuba Milagros No. 35, Vibora
CKMC 1210 50	Cobalt, Ont. R. L. MacAdam	CMCU 1280 150	Havana, Cuba San Francisco No. 13, Vibora
CKMO 1410 100	Vancouver, B. C. 1604 Bekins Bldg.	CMCW 750 125	Havana, Cuba San Lazaro No. 113
CKNC 1420 100	Toronto, Ont. 805 Davenport Road	CMCX 660 150	Havana, Cuba Maceo No. 7, Guanabacoa
CKNX 1200 50	Wingham, Ont. Wingham Radio Club	CMCY 1030 1000	Havana, Cuba Manuel D. Autran, Calle G 215, Vedado
CKOC 1120 500	Hamilton, Ont. Wentworth Bldg.	CMGC 1400 100	Matanzas, Cuba Independencia No. 56
CKOV 630 100	Kelowna, B. C. Okanagan Broadcasters, Ltd., Box 243	CMGE 1370 50	Cardenas, Cuba Genaro Sebater, Cespedes No. 180
CKPC 930 100	Brantford, Ont. Arcade Bldg.	CMGF 1120 100	Matanzas, Cuba G. Betancourt No. 51
CKPR 930 100	Fort William, Ont. Royal Edward Hotel	CMGH 1040 15	Matanzas, Cuba B. Byrne No. 113
CKSO 780 1000	Sudbury, Ont. W. E. Mason, Grand Theatre Bldg.	CMGI 1420 50	Colon, Cuba Atimando Lizama Mart No. 35
CKTB 1200 100	St. Catherines, Ont. E. T. Sandell, Welland House	CMHA 1070 50	Sagua Grande, Cuba Abelardo Menocal, Carrillo No. 31
CKUA 580 500	Edmonton, Alta. University of Alberta	CMHB 1240 50	San Spiritus, Cuba Independencia No. 33
CKWX 1010 100	Vancouver, B. C. Hotel Georgia	CMHD 1270 250	Caibarien, Cuba Manuel Alvarez, M. Escobar 17
CKX 1120 100	Brandon, Man. Rosser Ave.	CMHI 1210 150	Santa Clara, Cuba Lavis y Paz, Independencia No. 34
CKY 960 15000	Winnipeg, Man. Sherbrooke St.	CMHJ 1160 100	Cienfuegos, Cuba Romoualde Ugaide, Sta. Elena 184
CMAF 730 250	Havana, Cuba 1 y 8 Rept. Miramar	CMHK 1330 250	Cruces, Cuba Heredia No. 61
CMBC 940 200	Havana, Cuba Domingo Fernandez, Maximo Gomez No. 139	CMHW 810 100	Cienfuegos, Cuba Arguelles No. 200, Ramon Gonzales
CMBD 1170 150	Havana, Cuba Luis Perez Garela, Calle 17 No. 3, Vedado	CMHX 760 150	Cienfuegos, Cuba F. Chavarry, Castillo 168
CMBG 1140 300	Havana, Cuba John L. Stowers, Hospital No. 100	CMJC 1390 150	Camaguey, Cuba Cisneros y G. Gomez
CMBN 880 150	Havana, Cuba Pozos Dulas No. 3	CMJE 1220 50	Camaguey, Cuba Manuel Fernandez, Hnos. Aguiere No. 2
CMBS 770 120	Havana, Cuba Calzada y H. St., Vedado	CMJF 1150 200	Camaguey, Cuba John L. Stowers, Republica No. 88
CMBX 1380 150	Havana, Cuba Alberto Alvarez, San Miguel 194	CMJG 1010 50	Camaguey, Cuba Maceo No. 1, Rafael Valtés
CMBY 640 125	Havana, Cuba Infanta 132 Callejas Estefani	CMJH 1360 50	Ciego de Avila, Cuba Luis Marauri, H. Castilla 37
CMBZ 1000 150	Havana, Cuba Manuely G. Salas, San Rafael No. 14	CMJI 1130 50	Ciego de Avila, Cuba Gilberto Gessa Lopez, Independencia 95
CMC 835 500	Havana, Cuba Aguila y Dragones	CMJK 780 150	Camaguey, Cuba Cla. Nacional de Radio, Finlay No. 3
CMCA 1350 450	Havana, Cuba Galiano No. 102	CMJL 1340 75	Camaguey, Cuba M. Caymares, Republica 181
CMCB 1230 100	Havana, Cuba O'Reilly y Aguacate	CMJO 1180 50	Ciego de Avila, Cuba C. Central & Maceo
CMCD 960 200	Havana, Cuba Calle G y 25, Vedado	CMJP 1430 100	Moron, Cuba Cesar Canall, Callejas No. 28
CMCF 815 250	Havana, Cuba Cuban Brdestg. Co., Paseo de Marti No. 9	CMK 1060 1500	Havana, Cuba Hotel Plaza
CMCG 1255 150	Havana, Cuba Malecon No. 340 Altos	CMKC 1250 150	Santiago, Cuba J. A. Saco, Alta 23
CMCJ 1200 350	Havana, Cuba Rafael Rodriguez, Estevez No. 4	CMKD 1050 250	Santiago, Cuba Celda y Marte
CMCK 1320 100	Havana, Cuba Manuel Autran G., Vedado	CMKF 1460 50	Holguin, Cuba Libertad esq. Arias

NORTH AMERICAN B. C. STATIONS BY CALLS

CMKJ 1300 20 Guantnamo, 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, Aguiar 126 Altos	KDYL 1290 1000 Salt Lake City, Utah Ezra Thompson Bldg.
CMOK 1470 200 Havana, Cuba Rafael Valdez, Marques Gonzales 52	KECA 1430 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 Troncoso Gil, Prado 103	KELW 780 500 Burbank, Calif. 3702 Magnolia Park Blvd.
CMX 920 500 Havana, Cuba Casa "Lavini," Ave. del a Republica 99A	KERN 1370 100 Bakersfield, Calif. Eik'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. Buttrey 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
HIH 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 1300 1000 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	KKFA 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 1000 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.	KGFI 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	Elm Sts.	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. Rittenie, 113 Broadway	
KFVD 1000 250	Los Angeles, Calif.	KGHI 1200 100	Little Rock, Ark.
E. L. Cord, 645 S. Mariposa		Arkansas Brdestg. 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 Brdestg. 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. Pepper, 42 S. Calif. St.		Golden Empire Brdestg. 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 Brdestg. Co., Vance Hotel	
KGFG 1370 100	Oklahoma City, Okla.	KIEV 850 250	Glendale, Calif.
Okla. Broadcasting Co., 1113 N. Broadway		Cannon Systm. Ltd., Glendale Hotel	

NORTH AMERICAN B. C. STATIONS BY CALLS

KINY 1310	100	Juneau, Alaska	KOMA 1480	5000	Oklahoma City, Okla.
Northwest Advertising Co.			Biltmore Hotel		
KIT 1310	100	Yakima, Wash.	KOMO 920	1000	Seattle, Wash.
109 1/2 E. Yakima Ave.			Skinner Bldg.		
KIUJ 1310	100	Santa Fe, N. Mex.	KONO 1370	100	San Antonio, Texas
W. C. Irvin			Mission Broadcast. Co., St. Anthony Hotel		
KIUL 1210	100	Garden City, Kans.	KOOS 1200	250	Marshfield, Ore.
Garden City Brdcastg. Co.			H. H. Hanseth, Hall Bldg.		
KIUN 1420	100	Pecos, Texas	KORE 1420	100	Eugene, Ore.
J. H. Hawkins & B. H. Hubbs			733 Willamette St.		
KIUP 1370	100	Durango, Colo.	KOTN 1500	100	Pine Bluff, Ark.
C. Guy Shepard			Universal Brdcastg. Corp., Hotel Pines		
KJBS 1070	500	San Francisco, Calif.	KOY 1390	500	Phoenix, Ariz.
1380 Bush St.			621 N. Central Ave.		
KJR 970	5000	Seattle, Wash.	KPAC 1260	500	Port Arthur, Texas
Skinner Bldg.			Port Arthur College		
KLCN 1290	100	Blytheville, Ark.	KPCB 710	100	Seattle, Wash.
C. L. Lutzenich, Main and Division St.			Tower Bldg.		
KLO 1400	500	Ogden, Utah	KPJM 1500	100	Prescott, Ariz.
405—25th St.			Scott & Sturm, P. O. Box 782		
KLPM 1240	250	Minot, N. D.	KPLC 1500	100	Lake Charles, La.
John B. Cooley, Box 707			Calcasieu Brdcastg. Co.		
KLRA 1390	1000	Little Rock, Ark.	KPO 680	50000	San Francisco, Calif.
Arkansas Broadcasting Co., Box 550			111 Sutter St.		
KLS 1440	250	Oakland, Calif.	KPOF 880	500	Denver, Colo.
Warner Bros., 2201 Telegraph Ave.			Pillar of Fire, 1845 Champa St.		
KLUF 1370	100	Galveston, Texas	KPPC 1210	50	Pasadena, Calif.
Geo. R. Clough, Buccaneer Hotel			585 E. Colorado St.		
KLX 880	1000	Oakland, Calif.	KPQ 1500	100	Wenatchee, Wash.
Tribune Tower			KPQ Bldg.		
KLZ 560	1000	Denver, Colo.	KPRC 920	1000	Houston, Texas
Shirley-Savoy Hotel			2204 Shell Bldg.		
KMA 930	1000	Shenandoah, Iowa	KQV 1380	500	Pittsburgh, Pa.
Earl E. May Seed & Nursery Co.			KQV Broadcasting Co., Investment Bldg.		
KMAC 1370	100	San Antonio, Texas	KQW 1010	1000	San Jose, Calif.
W. W. McAllister, Blue Bonnet Hotel			87 E. San Antonio St.		
KMBC 950	1000	Kansas City, Mo.	KRE 1370	100	Berkeley, Calif.
Pickwick Hotel			2345 Channing Way		
KMED 1310	100	Medford, Ore.	KREG 1500	100	Santa Ana, Calif.
Mrs. W. J. Virgin, Sparta Bldg.			3rd & Sycamore Sts.		
KMJ 580	1000	Fresno, Calif.	KRGV 1260	500	Westlaco, Texas
Van Ness & Calaveras Sts.			KRGV Inc.		
KMLB 1200	100	Monroe, La.	KRKO 1120	1000	Los Angeles, Calif.
Francis Hotel			815 Spring Arcade Bldg.		
KMMJ 740	1000	Clay Center, Neb.	KRKO 1370	50	Everett, Wash.
The M. M. Johnson Co.			Lee Mudgett, 2814 Rucker Ave.		
KMO 1330	250	Tacoma, Wash.	KRLC 1420	100	Lewiston, Idaho
KMO, Inc., Hotel Wintthrop			H. E. Studebaker		
KMOX 1090	50000	St. Louis, Mo.	KRLD 1040	10000	Dallas, Texas
401 S. 12th St.			KRLD Radio Corp., Adolphus Hotel		
KMPC 710	500	Beverly Hills, Calif.	KRMD 1310	100	Shreveport, La.
9631 Wiltshire Blvd.			Jefferson Hotel		
KMTR 570	1000	Hollywood, Calif.	KRNT 1320	500	Des Moines, Iowa
KMTR Radio Corp., 915 N. Formosa Ave.			Des Moines Register Tribune		
KNOW 1500	100	Austin, Texas	KROC 1310	100	Rochester, Minn.
Norwood Building			Southern Minnesota Broadcasting Co.		
KNX 1050	50000	Hollywood, Calif.	KROW 930	1000	Oakland, Calif.
West. Broadcast Co., Inc., 1558 N. Vine St.			1803 Franklin St.		
KOA 830	50000	Denver, Colo.	KRSC 1120	100	Seattle, Wash.
General Electric Co., 1370 Krameria St.			Radio Sales Corp., Washington Athletic Club		
KOAC 550	1000	Corvallis, Ore.	KSAC 580	500	Manhattan, Kans.
Oregon State Agricultural College			State College of Agriculture		
KOB 1180	10000	Albuquerque, N. M.	KSCJ 1330	1000	Sioux City, Iowa
Albuquerque Journal, Box 667			Perkins Bros. Co., 415 Douglas St.		
KOH 1380	500	Reno, Nev.	KSD 550	1000	St. Louis, Mo.
440 N. Virginia St.			12th & Olive Sts.		
KOIL 1260	1000	Council Bluffs, Iowa	KSEI 900	250	Pocatello, Idaho
Mona Motor Oil Co.			Radio Service Corp., 141 S. 6th Ave.		
KOIN 940	1000	Portland, Ore.	KSFO 560	1000	San Francisco, Calif.
KOIN, Inc., New Heatman Hotel			5th & Mission Sts.		
KOL 1270	1000	Seattle, Wash.	KSL 1130	50000	Salt Lake City, Utah
Northern Life Tower			Vermont Bldg.		

NORTH AMERICAN B. C. STATIONS BY CALLS

KSLM 1370 100 Salem, Ore. Oregon Radio, Inc.	KWLC 1270 100 Decorah, Iowa Luther College
KSO 1430 250 Des Moines, Iowa Des Moines Register & Tribune	KWSC 1220 1000 Pullman, Wash. State College of Washington
KSOO 1110 2500 Sioux Falls, S. D. Sioux Falls Brdcast. Assn., Carpenter Hotel	KWTN 1210 100 Watertown, S. D. Citizens Bank Bldg.
KSTP 1460 10000 St. Paul, Minn. St. Paul Hotel	KWTO 560 5000 Springfield, Mo. KGBX Inc.
KSUN 1200 100 Lowell, Ariz. Copper Electrical Co., Drawer C	KWYO 1370 100 Sheridan, Wyo. Big Horn Brdcastg. Co.
KTAR 620 1000 Phoenix, Ariz. 116 N. Central Ave.	KXA 760 250 Seattle, Wash. American Radio Tel. Co., 218 Bigelow Bldg.
KTAT 1240 1000 Fort Worth, Texas Ft. Worth Natl. Bank Bldg	KXL 1420 100 Portland, Ore. KXL Broadcasters, Multnomah Hotel
KTBS 1450 1000 Shreveport, La. Box 1642	KXO 1500 100 El Centro, Calif. F. M. Howles, Box 140
KTFI 1240 1000 Twin Falls, Idaho Radio Broadcasting Corp., Box 521	KXRO 1310 100 Aberdeen, Wash. KXRO, Inc., Hotel Moreck
KTHS 1060 10000 Hot Springs, Ark. Chamber of Commerce, Box 886	KXYZ 1440 1000 Houston, Texas Fannin & Rusk Sts.
KTRB 740 250 Modesto, Calif. McTammany & Bates	KYA 1230 1000 San Francisco, Calif. 988 Market St.
KTRH 1290 1000 Houston, Texas KTRH Broadcasting Co., Rice Hotel	KYW 1020 10000 Philadelphia, Pa. 1622 Chestnut Street
KTSA 550 1000 San Antonio, Texas Southwest Broadcasting Co., Plaza Hotel	NAA 690 1000 Arlington, Va. United States Navy
KTSM 1310 100 El Paso, Texas P. O. Box 1976	RDN 706 500 San Salvador, E. S. Republic of El Salvador
KTUL 1400 500 Tulsa, Okla. National Bank of Tulsa Bldg.	TGW 565 10000 Guatemala, Gua. Gobierno de Guatemala
KTW 1220 1000 Seattle, Wash. 77th Ave. & Spring St.	TGX 1400 150 Guatemala City
KUJ 1370 100 Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel	TIEP 850 500 San Jose, C. R.
KUMA 1420 100 Yuma, Ariz. Dr. A. H. Schermann, Box 267	TIFA 1050 75 San Jose, C. R.
KUOA 1260 1000 Fayetteville, Ark. KUOA, Inc., Washington Hotel	TIFS 1441 7.5 Cartago, C. R.
KUSD 890 500 Vermillion, S. D. University of South Dakota	TIGA 1014 30 Cartago, C. R.
KVI 570 1000 Tacoma, Wash. W. R. Rust Bldg.	TIGH 1000 500 San Jose, C. R.
KVL 1370 100 Seattle, Wash. KVL, Inc., 5th and Virginia St.	TIRC 1190 75 San Jose, C. R. Perry Gilton, Aptd. 225
KVOA 1260 500 Tucson, Ariz. Cons. Natl. Bank Bldg.	TIRH 930 50 San Jose, C. R.
KVOD 920 500 Denver, Colo. Continental Oil Bldg.	VAS 685 2000 Glace Bay, N. S. Canadian Marconi Co., Ltd.
KVOL 1310 100 Lafayette, La. Evangeline Brdcastg. Co	VE9EK 1185 10 Montmagny, Que. J. A. Marquis, P. O. Box 52
KVOO 1140 25000 Tulsa, Okla. Wright Bldg.	VOAC 1065 40 St. John's, Nfld.
KVOR 1270 1000 Colorado Spg., Colo. Mining Exchange Bldg.	VOAS 940 100 St. John's, N. F. Ayre & Sons, Ltd., Water St.
KVOS 1290 100 Bellingham, Wash. 115 W. Magnolia St.	VOGY 840 400 St. John's, N. F. Newfoundland Hotel
KVSD 1210 100 Ardmore, Okla. Ardmoreite Pub. Co., Inc.	VONF 1190 5000 St. John's, N. F. Dominion Broadcasting Co., Ltd., Box 135
KWBG 1420 100 Hutchinson, Kans. W. B. Greenwald	VOWR 681 500 St. John's, N. F. Wesley United Church, Box 157
KWEA 1210 100 Shreveport, La. Spring & Fannin Sts., Times Pub. Co	WAAB 1410 500 Boston, Mass. 21 Brookline Ave.
KWG 1200 100 Stockton, Calif. Medico-Dental Bldg	WAAF 920 500 Chicago, Ill. Plamer House
KWJJ 1040 500 Portland, Ore. 622 S. W. Salmon St.	WAAT 940 500 Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq.
KWK 1350 1000 St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase	WAAW 660 500 Omaha, Neb. Omaha Grain Exchange
KWKK 1370 100 Kansas City, Mo. 5th & Main Sts.	WABC 860 50000 New York, N. Y. 485 Madison Ave.
KWKH 850 10000 Shreveport, La. Spring & Fannin Sts., Times Pub. Co.	WABI 1200 100 Bangor, Maine Community Brdcastg., 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	Wacc, 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. Aroostook 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 Deshier-Wallick Hotel	WBZA 990	1000	Springfield, Mass. Hotel Kimball
WALA 1380	500	Mobile, Ala. Pape Brdstg. 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. 606 Lake Shore Drive
WBBR 1300	1000	Brooklyn, N. Y. 124 Columbia Heights	WCBS 580	500	Charleston, W. Va. WOBU, Inc., Ruffner Hotel
WBBZ 1200	100	Ponca City, Okla. C. L. Carrell, 407 W. South Ave.	WCKY 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 Statler	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 Marion Hotel
WBRB 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 Brdstrg. 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	WFBR 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. WFL 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.
WDD 1280 1000 Chattanooga, Tenn. WDD 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 Montealeone	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 Denemark, 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 Goelert (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. Ansley 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. WHB Broadcasting Co., Scarritt Bldg.
WFAA 800 50000 Dallas, Texas Baker Hotel	WHBC 1200 100 Canton, Ohio Edw. P. Graham, 319 Tusce. 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	
WHBU 1210 100	Anderson, Ind.
Anderson Broadcasting Corp., Box 816	
WHBY 1200 100	Green Bay, Wis.
WHBY, Inc., Bellin Bldg.	
WHDF 1370 100	Calumet, Mich.
Box 643	
WHDH 830 1000	Boston, Mass.
Matheson Radio Co., 62 Boylston	
WHDL 1420 100	Olean, N. Y.
Exchange Natl. Bank Bldg.	
WHEB 740 250	Portsmouth, N. H.
Box 522, 39 Congress St.	
WHEC 1430 500	Rochester, N. Y.
WHEC, Inc., 40 Franklin St.	
WHEF 1500 100	Kosciusko, Miss.
417 W. Adams St.	
WHFC 1420 100	Cicero, Ill.
WHFC, Inc., 6138 W. Cermak Road	
WHIO 1260 1000	Dayton, Ohio
39 S. Ludlow St.	
WHIS 1410 250	Bluefield, W. Va.
Bland St.	
WHJB 620 250	Greensburg, Pa.
Penn-Albert Hotel, 128 Pa. Ave.	
WHK 1390 1000	Cleveland, Ohio
1311 Terminal Tower	
WHN 1010 1000	New York, N. Y.
1540 Broadway	
WHO 1000 50000	Des Moines, Iowa
Central Brdestg. Co., 914 Walnut St.	
WHOM 1450 250	Jersey City, N. J.
2870 Boulevard	
WHP 1430 500	Harrisburg, Pa.
WHP, Inc., 216 Locust St.	
WIBA 1280 1000	Madison, Wis.
111 King St.	
WIBG 970 100	Glenside, Pa.
Seaboard Radio Brdestg. Corp.	
WIBM 1370 100	Jackson, Mich.
WIBM, Inc., 306 W. Michigan Ave.	
WIBU 1210 100	Poynette, Wis.
Wm. C. Forrest, R. F. D. No. 3	
WIBW 580 1000	Topeka, Kans.
11th & Topeka Blvd.	
WIBX 1200 100	Utica, N. Y.
WIBX, Inc., 1st Natl. Bank Bldg.	
WICC 600 500	Bridgeport, Conn.
Southern Conn. Broadcasting Corp.	
WIL 1200 100	St. Louis, Mo.
Melbourne Hotel	
WILL 890 1000	Urbana, Ill.
University of Illinois	
WILM 1420 100	Wilmington, Del.
920 King St.	
WIND 560 1000	Gary, Ind.
504 Broadway	
WINS 1180 1000	New York, N. Y.
110 E. 58th St., Hearst Radio, Inc.	
WIOD 1300 1000	Miami, Fla.
Herald Bldg., Metropolis Pub. Co.	
WIP 610 500	Philadelphia, Pa.
Gimbel Bldg.	
WIRE 1400 500	Indianapolis, Ind.
540 N. Meridian St.	
WIS 1010 500	Columbia, S. C.
Station WIS, Inc., 1811 Main St.	
WISC 1310 100	Milwaukee, Wis.
Milwaukee Brdestg. Co.	
WISN 1120 250	Milwaukee, Wis.
123 W. Michigan St., Hearst Radio, Inc.	

WJAC 1310 100	Johnstown, Pa.
WJAC, Inc., Locust St.	
WJAG 1060 1000	Norfolk, Neb.
Norfolk Daily News	
WJAR 890 500	Providence, R. I.
Outlet Co., Weybossett St.	
WJAS 1290 1000	Pittsburgh, Pa.
Chamber of Commerce Bldg.	
WJAX 900 1000	Jacksonville, Fla.
City of Jacksonville	
WJAY 610 500	Cleveland, Ohio
1224 Huron Road	
WJRC 1200 100	Bloomington, Ill.
Kaskaskia Broadcasting Co.	
WJBK 1500 100	Detroit, Mich.
6559 Hamilton Ave	
WJBL 1200 100	Decatur, Ill.
Gushard Bldg.	
WJBO 1420 100	Baton Rouge, La.
Baton Rouge Broadcasting Co., Inc.	
WJBW 1200 100	New Orleans, La.
C. C. Carlson, Godeaux Bldg.	
WJBY 1210 100	Gadsden, Ala.
Gadsden Broadcasting Co., 112 N. 8th St..	
WJDX 1270 1000	Jackson, Miss.
Lamar Life Bldg.	
WJEF 1210 100	Hagerstown, Md.
Lovely Dame Bldg.	
WJIM 1210 100	Lansing, Mich.
Capital City Brdestg. Co.	
WJJD 1130 20000	Chicago, Ill.
WJJD, Inc., 201 N. Velis St.	
WJMS 1420 100	Ironwood, Mich.
WJMS, Inc., St. James Hotel	
WJR 750 50000	Detroit, Mich.
WJR, Inc., Fisher Bldg.	
WJSV 1460 10000	Washington, D. C.
Earle Building	
WJTL 1370 100	Atlanta, Ga.
Volunteer Life Bldg.	
WJW 1210 100	Akron, Ohio
WJW, Inc., 41 S. High St.	
WJZ 760 50000	New York, N. Y.
30 Rockefeller Plaza	
WKAQ 1240 1000	San Juan, P. R.
Radio Corp. of Porto Rico, P. O. Box 358	
WKAR 1040 1000	East Lansing, Mich.
Michigan State College	
WKBB 1500 100	East Dubuque, Ill.
Sanders Bros. Radio Station	
WKBH 1380 1000	LaCrosse, Wis.
WKBH, Inc., 409 Main St.	
WKBI 1420 100	Cicero, Ill.
WKBI, Inc., 6138 W. Cermak Road	
WKBN 570 500	Youngstown, Ohio
17 N. Champion St.	
WKBO 1200 100	Harrisburg, Pa.
Penn Harris Hotel	
WKBV 1500 100	Richmond, Ind.
Knox Radio Corp., Box 308	
WKBW 1480 5000	Buffalo, N. Y.
Rand Bldg.	
WKBZ 1500 100	Muskegon, Mich.
Karl L. Ashbauer & Sons	
WKEU 1500 100	Griffin, Ga.
Radio Station WKEU, 906 Hill St.	
WKJC 1200 100	Lancaster, Pa.
16 W. King St.	
WKOK 1210 100	Sunbury, Pa.
1150 N. Front St.	
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, Burdick Hotel
WLAC 1470 5000	Nashville, Tenn. W.L.A.C., 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 Brdcastg Co., Box D
WLNH 1310 100	Laconia, N. H. 523 Main St.
WLS 870 5000	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 5000	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 5000	Chicago, Ill. Merchandise Mart
WMAS 1420 100	Springfield, Mass. WMAS, Inc., 70 Chestnut St.
WMAZ 1180 1000	Macon, Ga. 211 Cotton Ave.
WMBE 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. W.M.B.O., Inc., Metcalf Bldg.
WMBQ 1500 100	Brooklyn, N. Y. Metropolitan Brdcastg. Corp., 95 Leonard St.
WMBR 1370 100	Jacksonville, Fla. F. J. Reynolds, Carling Hotel
WMC 780 1000	Memphis, Tenn. W.M.C., 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 Duntae
WMFF 1310 100	Plattsburg, N. Y. Plattsburg Broadcasting Corp.
WMFG 1210 100	Hibbing, Minn. Head of the Lakes Brdcastg. 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 Brdcastg. Corp.
WMFO 1370 100	Decatur, Ala. James R. Doss, Jr.
WMFR 1200 100	High Point, N. C. Hart & Nelson
WMMN 890 500	Fairmount, W. Va. West Va. Brdcastg. 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.
WNBF 1500 100	Binghamton, N. Y. Arlington Hotel
WNBH 1310 100	New Bedford, Mass. 251 Union St.
WNBR 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 & Mae, 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 5000	San Antonio, Texas Southland Industries, Inc., 1038 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 Eyek
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 5000	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
WOV 1130 1000	New York, N. Y. 132 West 43rd St.
WOW 590 1000	Omaha, Neb. Woodmen of the World, 4th and Farnam
WOWO 1160 10000	Fort Wayne, Ind. Main Auto Supply Co., 213 W. Main
WPAD 1420 100	Paducah, Ky. 2201 Broadway
WPAR 1420 100	Parkersburg, W. Va. Ohio Valley Brdstg. Corp.
WPAX 1210 250	Thomasville, Ga. H. Wimpy, 135 E. Jackson St.
WPAY 1370 100	Portsmouth, Ohio F. P. Moler
WPEN 920 250	Philadelphia, Pa. 22nd & Walnut Sts.
WPFB 1370 100	Hattiesburg, Miss. Forest Brdstg. Co.
WPG 1100 5000	Atlantic City, N. J. City of Atlantic City, Convention Hall
WPHR 880 500	Petersburg, Va. WLBG, Inc., Medical Arts Bldg.
WPRO 630 250	Providence, R. I. Cherry & Webb Brdstg. Co., 15 Chestnut
WPRP 1420 100	Ponce, P. R. Julio M. Conesa
WPTF 680 1000	Raleigh, N. C. 324 Fayetteville St.
WQAM 560 1000	Miami, Fla. Miami Brdstg. Co., Inc., 327 N. E. 1st Ave.
WQAN 880 250	Scranton, Pa. Scranton Times, 149 Penn Ave.
WQBC 1360 1000	Vicksburg, Miss. Delta Broadcasting Co., Hotel Vicksburg
WQDM 1370 100	St. Albans, Vt. 42 N. Main St.
WRAC 1370 100	Williamsport, Pa. WRAC, Inc., 244 W. 4th St.
WRAP 1310 100	Reading, Pa. Reading Broadcasting Co., 533 Penn St.
WRAX 920 250	Philadelphia, Pa. WRAX Broadcasting Co., 217 S. Broad St.
WRBL 1200 100	Columbus, Ga. Royal Theatre Bldg.
WRBX 1410 250	Roanoke, Va. P. O. Box 2389
WRC 950 500	Washington, D. C. National Press Bldg.
WRDO 1370 100	Augusta, Me. WRDO, Inc., Augusta House
WRDW 1500 100	Augusta, Ga. Augusta Brdstg. Co., 309 8th St.
WREC 600 1000	Memphis, Tenn. WREC, Inc., Hotel Peabody
WREN 1220 1000	Lawrence, Kans. WREN Brdstg. Co., 8th and Vermont St.
WRGA 1500 100	Rome, Ga. 10 Third Ave.
WRJN 1370 100	Racine, Wis. Racine Broadcasting Corp., Hotel Racine
WROK 1410 500	Rockford, Ill. 109 So. Water St.
WROL 1310 100	Knoxville, Tenn. Stuart Broadcasting Corp., 524 S. Gay
WRR 1280 500	Dallas, Texas City of Dallas, Southland Life Bldg.
WRUF 830 5000	Gainesville, Fla. State University
WRVA 1110 5000	Richmond, Va. Larus & Bros Co., Inc., 22nd and Gary St.

WSAI 1330 1000	Cincinnati, Ohio Crosley Radio Corp., 1329 Arlington
WSAJ 1310 100	Grove City, Pa. Grove City College, 418 Popular St.
WSAN 1440 500	Allentown, Pa. WSAN, Inc., 39 10th St.
WSAR 1450 250	Fall River, Mass. Academy of Music Bldg.
WSAZ 1190 1000	Huntington, W. Va. WSAZ, Inc., P. O. Box 729
WSB 740 50000	Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St.
WSBC 1210 100	Chicago, Ill. Gene T. Dyer, 1258 S. Michigan Ave.
WSBT 1360 500	South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave
WSFA 1410 500	Montgomery, Ala. Jefferson Davis Hotel
WSGN 1310 100	Birmingham, Ala. Ormond O. & Mary C. Black
WSIX 1210 100	Springfield, Tenn. 638 Tire & Vulcanizing Co.
WSJS 1310 100	Winston-Salem, N.C. Winston-Salem Journal Co., 416 N. Marshall
WSM 605 50000	Nashville, Tenn. 301—7th Ave. No.
WSMB 1320 1000	New Orleans, La. WSMB, Inc., Maison Blanche Bldg.
WSMK 1380 200	Dayton, Ohio WSMK, Inc., Loew Theatre Bldg.
WSOC 1210 100	Charlotte, N. C. WSOC, Inc., Box 730
WSPA 920 1000	Spartanburg, S. C. Virgil V. Evans, Ravenel and Avant St.
WSPD 1340 1000	Toledo, Ohio Toledo Broadcasting Co., 505 Jefferson
WSUI 880 500	Iowa City, Iowa State University of Iowa
WSUN 620 1000	St. Petersburg, Fla. Chamber of Commerce
WSVA 550 500	Harrisonburg, Va. Shenandoah Valley Brdstg. Corp.
WSVS 1370 50	Buffalo, N. Y. 666 E. Delavan Ave.
WSYB 1500 100	Rutland, Vt. Philip Weiss Music Co., 80 West St.
WSYR 570 250	Syracuse, N. Y. E. Onondaga & S. Warren Sts.
WTAD 900 500	Quincy, Ill. Illinois Brdstg. Corp., State and 6th
WTAG 580 500	Worcester, Mass. 18 Franklin St.
WTAL 1310 100	Tallahassee, Fla. Florida Capitol Broadcasters, Inc.
WTAM 1070 50000	Cleveland, Ohio 1367 E. 6th St.
WTAQ 1330 1000	Eau Claire, Wis. Gillette Rubber Co., Hotel Eau Claire
WTAR 780 500	Norfolk, Va. WTAR Radio Corp., Wainwright Bldg.
WTAW 1120 500	College Station, Tex. Agricultural and Mechanical College
WTAX 1210 100	Springfield, Ill. WTAX, Inc., 416 E. Capitol Ave.
WTBO 800 250	Cumberland, Md. Associated Brdstg. Corp., Box 794
WTCN 1250 1000	Minneapolis, Minn. Wesley Temple Bldg.
WTEL 1310 100	Philadelphia, Pa. Broad & Erie Ave.
WTFI 1450 500	Athens, Ga. Liberty Brdstg. Co., 133 E. Washington St.

NORTH AMERICAN B. C. STATIONS BY CALLS

WTIC 1040 50000 Hartford, Conn. 26 Grove St.	XEFA 1180 500 Mexico City, D. F. Eduardo Limon 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 Brdsg. Co.	XEFE 920 250 Laredo, Tams. R. T. Carrauz, Km. 4 Carretera Laredo Mt
WTNJ 1280 500 Trenton, N. J. Trenton Brdsg. Co., Stacy Trent Hotel	XEFG 1100 250 Mexico City, D. F. Ricardo Gonzales Montero, Tepic 48
WTOC 1260 1000 Savannah, Ga. Savannah Brdsg. 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 Brdsg. 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 Brdsg. 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 Sehenley	XEI 1370 125 Morelia, Mich. Carlos Gutierrez M., F. I. Madero 345
WWVA 1160 5000 Wheeling, W. Va. Hawley Bldg.	XEJ 1020 1250 Jaurez, 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
WZXR 1550 1000 Long Island City, N.Y. Scientific Brdsg. Serv., 41 Park Row, N. Y.	XELA 1240 50 Saultillo, Coah. Enrique Gomez, Chautemos 28 Sur
W6XA 1550 1000 Bakersfield, Calif. Pioneer Mercantile Co.	XELC 740 100 Mexico City, D. F. Manuel Valdes Bravo, C. Central 112
W9XB 1530 1000 Kansas City, Mo. First National Television Inc.	XELM 1310 15 Mineral del Monte, Dgo. Jose Sanchez, Abesoio 1-A
XEA 1060 125 Guadalajara, Jal. Alberto Paos Souza, Apdo. 197	XELO 1110 10000 Piedras Negras, Coah. Piedras Negras Brdsg. Co.
XEAA 920 200 Mexicali, B. C. Carlos Blando, Apto. 42	XEMA 1080 50 Tampico, Tams. Manuel M. Pier, Aretanos 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. Cihuela, 3a, Gurroro 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 Saultillo, 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 Brdsg. 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. Chicossein 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.

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CONNEAUT, OHIO

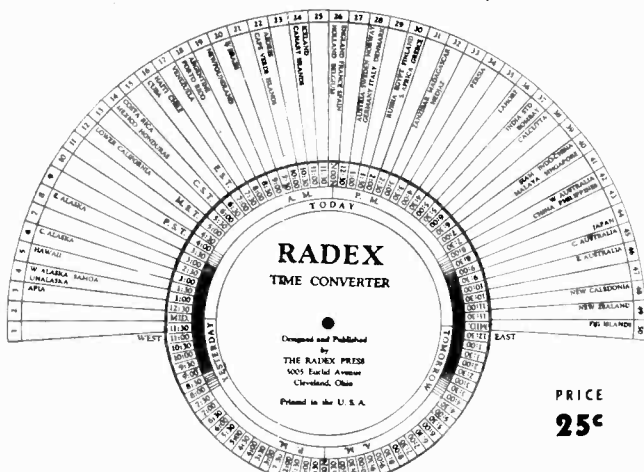
BEST SHORTWAVE BROADCASTING STATIONS BY CALL LETTERS

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.	HIC2ET. 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.
COCD. Havana, Cuba, 6.130. Nights until midnight.	GSF. 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, 9.428. 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.	H1J1AB. Barranquilla, Colombia, 6.447. 1700-2200.
DJA. Berlin, Germany, 9.560. 0030-0215; 1705-2115.	HAS3. Budapest, Hungary, 15.370. Sun., 0900-1000.	H1J1ABD. Cartagena, Colombia, 7.280. 1945-2115.
DJB. Berlin, Germany, 15.200. 0345-0715; 0800-1130.	HAT4. Budapest, Hungary, 9.125. Sun., 1800-1900.	H1J1ABE. 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., 9.505. Sat., 1730-1815.	H1J1ABG. Barranquilla, Colombia, 6.042. 1900-2200.
DJD. Berlin, Germany, 11.770. 1200-1630; 1705-2245.	HBP. Geneva, Switz., 7.797. Sat., 1730-1815.	H1J1ABH. Cienaga, Colombia, 6.300. Tues., Fri., 1945-2200.
DJE. Berlin, Germany, 17.760. 0800-1130.	HCJBB. Quito, Ecuador, 8.214. Daily exc. Mon., 1915-2315.	H1J2ABC. Cuenca, 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



PRICE
25¢

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.

DIRECTIONS—Turn the dial to the hour, either A.M. or P.M., in the sector marked "TODAY" opposite your own zone and the correct 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 daylight, darkness and dawn is graphically shown. Or, if you desire to tune in a New Zealand program, turn the hour of the program (say 9:00 p.m.) to the New Zealand sector and you will find that it is 4:30 A.M. some day in Eastern Standard Time or 11 P.M. yesterday in London.

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.
I2R0, Rome, Italy, 9.630. Mon., Wed., Fri., 1800-1930.
JVH, Nazaki, Japan, 14.640. 0000-0100.
LKJ1, Jeloy, Norway, 9.540. 0500-0500.
OAX4B, 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.
PRA1D0, Riobamba, Ecuador, 6.620. Thurs., 2100-2330.
PRP5, 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, 9.563. Wed., Thurs., Fri., Sat., 0500-0700.
VPD, Suva, Fiji, 13.045. 0030-0130.
VUB, Bombay, India, 9.565. Sun., near 7 a.m.
W1XAI, 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.
W3XLI, 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, Maracalbo, Venezuela, 5.850. Daily exc. Sun., 1700-2130.
YV6RV, Valencia, Venezuela, 6.520. 1700-2200.

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SEND THIS BLANK TODAY**

The Radex Press Inc.,
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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

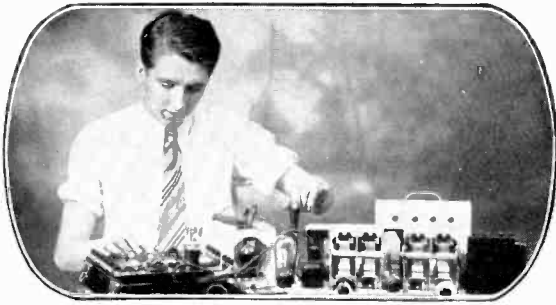
(If you live in Ohio, add 3% for State Sales Tax. No tax on Subscriptions.)

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

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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
4 1/2 TO 2,400 METERS.

30 Days FREE Trial!



PUSH-BUTTON TUNING
 (Noises Suppressed)

Now, Push-Button Silent Tuning is offered for the first time! Simply pushing Silent Button knobs set between stations suppresses noises. Pushing Station Finder Button automatically indicates proper dial position for tuning in stations only at six stations.

Acousti-Tone V-Spread Design
 (Patent Pending)

Establishes new radio style overnight! The V-Front Diverging 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 harkwork of the "high" throughout the entire room in a scientific 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... in four colors.

FULL SCORE HIGH FIDELITY
 Brilliant



Concert Tone
 Now, get complete range of audible frequencies from 20 to 16,000 cycles, being transmitted by four new High Fidelity Broadcasting stations—WTKS, WSKY, WXR and WEXAL. 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 16-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!) Out-performs \$270.00 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.

80 ADVANCED 1936 FEATURES

Scores of marvelous features, many exclusive, explain Midwest super performance and world-wide reputation. Enable Midwest to bring in weak distant foreign stations, with full loud speaker volume, on channels adjacent to local. They pose why many orchestra leaders use Midwest radios to study types of harmony and rhythmic beats followed by leading American and foreign orchestras. Only Midwest tubes as low as 4¢, 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 die-cast 18-tube set the equivalent of six different radios... offer tuning ranges not obtainable in other radios at any price.

DEAL DIRECT WITH LABORATORIES
 No middlemen's profits to pay—you buy at wholesale price direct from laboratories

SAVE UP TO 50%



... 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 values. You can order your 1936 Full Scope High Fidelity Acousti-Tone radio from the storage catalog with as much certainty of satisfaction as if you were to come yourself to our great radio laboratories. You save 10% to 50%... as you get 30 days FREE trial... as little as \$1.00 plus a Midwest radio in your home. Satisfaction guaranteed or money back. Write today, for FREE catalog.

18 Tube
SIX-IN-ONE Radio
 ALL WAVE
 6 TUNING RANGES

WORLD'S GREATEST RADIO VALUE

\$59.50
 WITH New
THEATRE-SONIC
 (LOSS TUBES) **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 smacking one over the fence to bring in distant foreign stations like Italy! Midwest radios are the best obtainable and have two strikes on any other make.
Long Mitchell "Gabby" Hartwick
 (Chicago Club)



England, Spain, Italy, Most Every Night

Washington, D. C.—We are more pleased with our Midwest every day. We tune in GBR, London—EASY, Spain—DJC, Germany—TRO, Rome, etc., most every evening with local volume.
 Robert H. Gerhardt



METAL TUBES

This Midwest is furnished with the new glass metal counterpart 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

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User-Agents Make Easy Extra Money Check How Many You Want

Name _____
 Address _____
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 Check here, if interested in a Midwest Auto Radio.

MIDWEST RADIO CORP.

DEPT. 81-C CINCINNATI, OHIO U.S.A.

Established 1920 Cable Address MIRACO All Codes