

THE FEBRUARY 1936

RADIO INDEX

The All-wave DX Log of the World



25^c

A Mystery Radio Contest
All Hours on the Air for All Stations
The Most Nearly Complete List of
Short Wave Stations Published

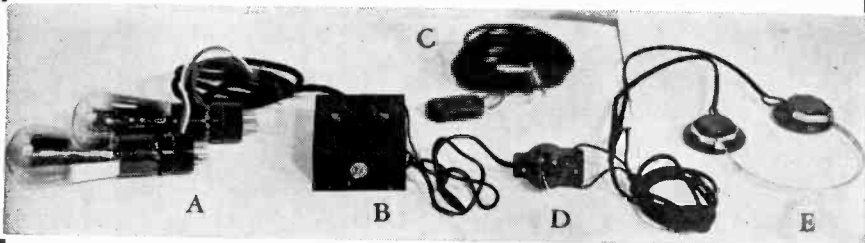
No. 96

Get Ready for "Old Man Static"

Equip Your Receiver With The "Perfect" Phone Adapter

Enjoy your radio when the rest of the family are asleep or ill. Use the phones to shut out room noises and identify those faint, far-off signals you can't quite hear on the speaker.

The Adapter positively cannot harm the set or change load or balance. While we can fit any set, a variety of models is necessary. For this reason the Adapter is not sold through dealers.



To Install

Simply remove the power tube or tubes and place the small adapters (shown at A) in the sockets. Now put the tubes in the adapters and leave them there.

To Operate

Insert the tips of phone cords in the small jacks in box (shown at B). The signals will now be picked up by the phones. The speaker may be silenced or not by small toggle-switch.

PRICES

Perfect Phone Adapter	\$ 3.95
Aadapter with 2000-ohm phones	6.70
Adapter with the very best "Featherweight" 24,000-ohm phones	12.00

All prices postpaid

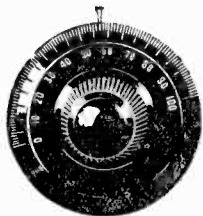
If you live in Ohio, add 3% for State sales tax.

The 2,000-ohm phones will give excellent service. The 24,000-ohm phones are perhaps the very finest made being especially light and extremely sensitive. They were developed especially for the hard of hearing, airplane pilots, short wave work, etc.

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

The Radex Press, Inc. Conneaut, Ohio

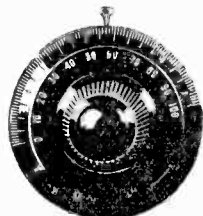
February 1, 1936



RADIO INDEX

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TWELFTH YEAR

PAGE 96

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Famous Star of Stage, Screen and Radio, CBS Fridays 8:00 p.m.

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The RADEX Mystery DX Contest

DURING the past few years, many old-timers have been of the opinion that DXing has lost some of its former appeal. Modern methods of mass-scheduling of special courtesy programs seem to have turned this popular winter pastime into a somewhat cut-and-dried affair. Given efficient receiving equipment and a fair location, most any listener will have little difficulty in building up his log to large proportions.

Much of the old thrill of successful "fishing" is lost and, with the possible exception of tuning for foreigners and I.D.A. specials, DXing today consists of the simple formula: *listening plus reporting equals verifications*.

As a possible stimulant to whet the DX appetites, we have planned something new in the way of a DX contest. On the mornings of February 22, 23 and 24, some sixty stations will transmit one-hour programs dedicated to RADEX readers. Present plans call for five stations to be on every hour between 2:00 and 6:00 a.m., EST, on those three mornings.

Unlike all other DX programs, however, *the identities of the participating stations will be kept secret* and listeners will know only the hours which the unknown stations will transmit. In other words, DXers will be obliged to do some old-time fishing and dial-twisting.

Rules—But Only A Few

Like all contests, we have some rules, and a complete list will be found following this article.

It will be noted that the contest is to be judged on a scoring system. Five points will be awarded for each and every participating station which is heard and identified. To *identify* a station, it will be necessary to give a selection or code word, and the time at which it is heard. Just to say that "XYZ was heard broadcasting for RADEX" is not enough; it is necessary

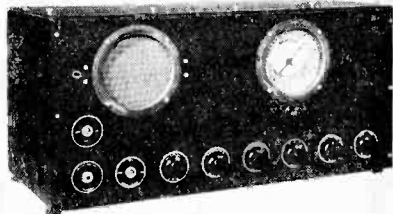
that every contestant *prove* that he heard each broadcaster which he reports. As we have said, five points will be given for each station so identified.

A bonus of fifteen additional points will be awarded for every report which gives complete details of ten consecutive minutes or which lists three successive selections. Thus, while five points will be credited for identifying a station, it is possible to receive 20 points for every report of this length. Sixty stations at 20 points each makes possible a total score of 1200 points—the maximum.

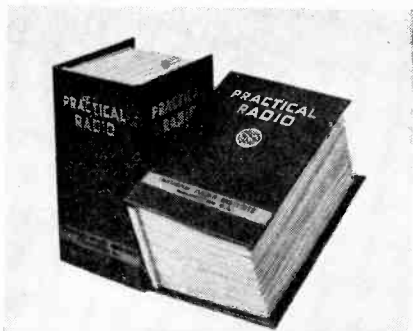
Each contestant will compute his own score on the above basis and list that score on the first page of his report. He will give the number of stations merely "identified" and multiply by five; he will multiply by 20 the number of stations for which he is to receive the maximum number of points. The total of these two products will be the final score upon which each entry will be judged.

Prizes? Most Of A Certainty!

The listener who receives the highest total of points on this basis will be awarded a 23-tube Scott All Wave receiver. DXers who read the report of R.H. Tonlinson on this Scott product in the January issue will know that this is a prize well worth striving for.



A Hallicrafters' Super Seven Receiver is the Second Prize in the Mystery DX Contest.



A complete set of study and reference texts for National Radio Institute courses in Fundamental Radio Principles and Radio Communication, is the fourth prize in the Mystery DX Contest.

Second prize will be a Hallicrafters "Super Seven" receiver, a well-known product of The Hallicrafters, Inc., of Chicago. Third prize will be a complete set of Study and Reference texts for the National Radio Institute Courses in Fundamental Radio Principles and Radio Communications. These are the identical texts furnished NRI students and should be a welcome addition to any library. Fourth prize will be a complete course in code instruction with the Candler System Company, of Asheville, N. C. DXers wishing to decipher the maze of dots and dashes picked up by their receivers will find this a most valuable award.

Additional prizes include a choice of any custom-built Lynch antenna system, a Candler course in touch typing, a set of the famous Trimm headphones, a complete replacement of as many as twelve National Union radio tubes for the receiver of a winner, five copies of the Radio Amateur Call Book Magazine (five prizes), a World Globe, a Perfect Phone Adapter, five annual subscriptions to RADEX (five prizes), and many others.

The complete list of prizes has not been determined as we go to press. Additional awards will be announced in the March issue.

Contestants are requested to list the prizes in order of preference so the

judges will be able to make the most suitable awards.

Insofar as is possible, the awarding of prizes will be governed by the preferences of the winners.

A Model Report

We have worked out a standard system of reporting for the contest and must insist that all entries conform to these specifications. Let us assume that a listener is successful in tuning and identifying 48 stations. Of these, 30 were heard for at least ten consecutive minutes and the remaining 18 were merely *identified* by one selection, code word or announcement. His entry in the contest should be worked out along these lines:

Each station should be reported on a separate sheet of paper—preferably the size of a 3x5 index card. On one side of the paper, there will be the following information: the name and address of the contestant, the call, location and frequency of the station being reported; the date on which the program was heard—February 22, 23 or 24; the details of the transmission, with the time given as *Eastern Standard*; and the number of points to be received for the report in question—5 or 20, depending upon the length.

On the reverse side of the paper, there should be all pertinent information about the reception of the station—signal strength, quality, intensity of fading, receiving equipment used, local weather conditions, etc. When we have checked the reports, they will be sent to the respective stations and we feel confident that the information thus obtained will be of great value to the broadcasters. Certainly the response should be greater than on any similar program in the past.

When all of the stations heard have been reported in this manner, the contestant should use an additional sheet of paper for the complete resume of his entry and give the following information: his own name and address, his total score for the contest and his preference as to the prizes. In the above example, the entrant would com-

pute his score as follows: 30 ten-minute reports at 20 points each—600; 18 identified stations at 5 points each—90; 600 plus 90 equals 690—the total score for the contestant.

This final sheet should be placed on top of the individual station reports and the whole mailed to the RADEX, BOX 59, CONNEAUT, OHIO.

All reports must be postmarked no later than midnight on February 25, 1936 and entries dated after this time will not be considered. Contestants should make sure that sufficient postage has been used to insure delivery to us. Any reports received with postage due will be refused.

Of Particular Importance

As we go to press, nearly two months before the date of the contest, the complete schedule of participating stations has not been completed. While the original plans calls for a total of sixty stations to take part—five every hour between 2:00 and 6:00 a.m., EST,

on the mornings of February 22, 23 and 24—the final arrangements may have to be altered somewhat.

If fewer stations participate, we will curtail the time so that there will be five stations every hour. If more stations come on, the schedule will be lengthened accordingly.

A final announcement about the contest will be distributed to the leading radio clubs for publication in their bulletins during the week of February 9-15.

For readers who do not receive these bulletins, we have decided to issue a special mimeographed sheet of our own, on or about February 14th. This will include the final announcement of the hours during which the unknown stations will broadcast and a complete list of the prizes to be awarded. To receive this bulletin, readers should send a stamped, self-addressed envelope (large size) to RADEX, BOX 59, CONNEAUT, OHIO, to reach us no later than February 10th. While we will be glad to send the bulletin to anyone desiring a copy, it will simplify our work if club members will depend upon their own bulletins for these announcements.

By Way Of Conclusion

We do not pretend that the details of the contest are perfect in every way. The rules which we have drafted may not be entirely clear or they may place some listeners at a disadvantage. If so, we are sorry and will try to do better next time.

If the general reaction to the idea of a Mystery DX Contest seems to be favorable, we will see what can be done to make it an annual feature for our readers.

In lining up the stations which have been invited to participate, we have attempted to effect a thorough distribution across the continent. On the eastern and western coastlines, more powerful stations have been selected; in the central states, many small broadcasters have been chosen. Some transmitters will be "local stuff" to contestants; others may not even be



A set of twelve replacement National Union tubes is one of the major prizes in the Mystery DX Contest.

heard. On the whole, however, we believe that every reader on the North American continent will have an equal chance at the valuable prizes. So, to all of you, Good Luck!

The Contest Rules

1. Reports for each station heard must be submitted on a separate sheet of paper (preferably the size of a 3x5 index card) and shall include the following information: name and address of contestant, call letters, location and frequency of station being reported, details of reception (signal strength, quality, fading, local weather conditions, etc.) and details of program heard, with the times given in *Eastern Standard Time*.

2. Five points will be given for every participating station which is heard and identified. A bonus of fifteen additional points will be awarded for each report which gives full details for ten or more consecutive minutes or three successive selections.

3. Each entrant will compute the number of points to be received for each station reported and will list that number *prominently* on the report sheets for the respective stations.

4. Each entrant will then add up his total score and will give that, together with his full name and address, on an additional sheet of paper which should be placed on top of the individual station reports. On this same sheet of paper, the entrant will also list, in order of preference, the prizes to be awarded in the contest.

5. In case of ties among the winners, the preference for the prizes concerned will be given to the contestant whose report is most complete and accurate. In any event, the decisions of the judges will be final.

6. All entries in the contest shall be postmarked no later than midnight, February 25, 1936, and shall be addressed to RADEX, BOX 59, CONNEAUT, OHIO. Entries which are postmarked later than this time will not be considered.

7. Care should be taken that suf-

ficient postage is used to insure delivery. Entries arriving with postage due will be disqualified, automatically.

England Dances to Orchestras in America



THROUGH the co-operation of the General Electric Co. and their short-wave station W2NAF, Schenectady, members of the Anglo-American Radio & Television Society danced to American orchestras on the evening of August 30th.

Using but a simple three-tube short wave receiver, coupled to an audio amplifier and driving a movie model dynamic speaker, engineers in charge were able to fill a large hall with music more than ample for dancing.

Speaking of the experiment, the president of the society, Leslie W. Orton, fourth from the left in the accompanying picture, said: "The broadcast proved to the British public that good short wave reception is an actuality and not, as many suppose, a chance. The fact that I was able to fix a date a month in advance and say that I was holding a dance with the music furnished by American orchestras is sure proof of the reliability of short wave reception."

The Story of The I. D. A.

● ● ● By CHARLES A. MORRISON, President

THE history of the International DXers Alliance, since its inception in November 1932, is a recording of growth and activity. We are proud of the strides taken by our club and, even though we are but on the thresholds of ever-expanding horizons, we feel that we have accomplished considerable in this short span of existence.

Our start was quite modest. The season of 1931-32 had been a period of unusual activity in the field of foreign DXing on the broadcast band. Records compiled at that time show that it was not at all uncommon for me to log up to twenty Australian and New Zealand stations in a single night at the dials. Despite very simple equipment — a 7-tube Philco TRF receiver and an ordinary inverted L antenna — a number of verifications are sufficient testimony to the excellent broadcast reception during this season. Since then, it has not been possible to duplicate this reception with even the most expensive receivers and elaborate aerial layouts.

It was an unusual thirst for information on foreign DXing on the broadcast band which furnished the incentive for the formation of the I. D. A. I was surprised to discover that data on this subject was practically unknown and that no publication officially recognized the possibilities of such reception. Being reasonably sure that I was not the only enthusiast in this field, I began to wonder if there were not others who craved the same form of knowledge for which I was searching.

I began to question the prominent DXers of the day and soon discovered

that there was an almost unanimous interest in starting a little club for the exchange of ideas and information on our subject.

The First Organ

Thus, on November 1, 1932, the I. D. A. was officially organized with twenty enthusiastic and active charter members. We decided almost immediately that it was advisable to have some sort of a bulletin for exchanging our topics of information. So, on January 1, 1933, the first Globe Circler was distributed. This was a crude, four-page mimeographed affair and 50 copies were printed. It was decided that an annual subscription price would be established, with a fee of \$2.00 for



Chas. A. Morrison, President, IDA.

foreign countries. (This was later reduced to \$1.25, or 5/-.)

It is almost unnecessary to state that, despite its crude appearance, the Globe Circler bulletin was eagerly received. Other DXers began to join our ranks and it was at about this time that we began to have the first ideas of an international organization of considerable size and importance. Accordingly, plans were laid for a careful and conservative foundation upon which a great organization later might stand.

From the outset, membership in the I. D. A. was limited by certain qualifications to enthusiasts of experience. Despite our highly specialized field, our limited service and our rigid entrance requirements, we slowly but steadily increased in size and began to attract many DXers of established reputations. By the end of our first year, our ranks included many well-known figures in the DX-ing fraternity. This had a tendency to give stability and strength to our young organization.

In March 1934, we graduated from a mimeographed bulletin into an eight-page lithographed booklet which was the forerunner of our present Globe Circler. Its neat appearance and handy size won instant approbation. In August of that year, we issued a 12-page Globe Circler and this was immediately followed in September by the first publication of sixteen pages. Coincidental with the appearance of the latter, a front cover was added and, in February 1935, the cover was dressed up in two colors. The Globe Circler is not—and we hope never will be—a finished product. Rather, it is a publication constantly changing to meet the needs of an ever-expanding organization.

The time necessary in the compilation of a booklet such as our present Globe Circler, containing from

eight to ten thousand words, is not ordinarily appreciated. Hundreds of letters, bulletins and official communications must be read, checked, sorted and dovetailed into a compact and pertinent record. Because of the limited available space, no superfluous words or fancy trimmings are possible. The future size of the Globe Circler will be regulated by the revenue received, as stenographic help will be imperative to produce a larger publication.

A Short Wave Division

Although we commenced as a strictly broadcast-band organization, some short wave notes had been included in the Globe Circler from the start. As time went on and public interest in this field grew by leaps and bounds, it was necessary to devote more and more space to the short wave section.

Finally, in August of 1934, an important change was made and the International DXers Alliance became an all-wave organization — sharing an equal responsibility for the interests of short wave and BCB DXers alike. A complete short wave list was included in the November, 1934, issue and, because of its accuracy and timeliness, it has become one of our most popular features. No attempt has been made to include all the commercial stations, because of the



*Vicomte Jean de la Brosse, Paris, France,
French Representative of the IDA.*

very obvious lack of space, but we have sincerely attempted to give a complete list of all recognized short wave transmitters operating on a regular schedule.

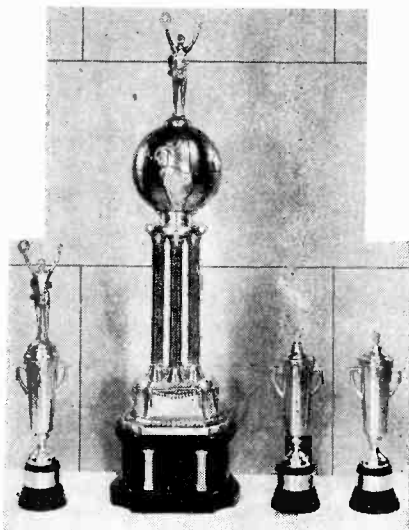
Simultaneously with the change into an all-wave organization, the I. D. A. became one of the world's most popular radio clubs and members from all sections of the globe began to enroll. Certain entrance requirements for short wave listeners were made part of our by-laws.

The Governing Body

The International DXers Alliance is governed by a president, vice-presidents, a board of directors and continental foreign representatives, each having and fulfilling very definite functions. Each director has jurisdiction over a group of states or provinces and, in some instances, they have appointed state and provincial managers to help them govern their districts. Foreign supervision is taken care of by continental representatives, one on each continent, who direct the work of the official representatives for the various foreign countries under their control. The board of foreign representatives is made up of fifty officials in all parts of the world.

In addition to this executive set-up, there is the efficient and justly-famous I. D. A. organization known as the Department of Foreign Affairs. The F. A. D. members are responsible for arranging the dozens of international, good-will programs on both broadcast band and short waves which have made the I. D. A. so popular.

An I. D. A. department which is rapidly growing in importance is under the direction of James T. Spalding, who, with his various assistants, keeps the I. D. A. in the forefront of the news in radio periodicals everywhere. The Publicity Department is doing a good job, and it gives a



The famous Randolph-IDA International DX Trophies.

member a strange feeling of satisfaction to pick up the African Radio Announcer, Egyptian Radio, The Bombay Times, the New Zealand Herald, Radio Cultura or, perhaps, World Radio and find the I. D. A. featured prominently.

Mention must be made of that famous band of old-timers, the Society of Wireless Pioneers, organized by Vice-President Michael Mickelson, of Minneapolis. Since its inception, the S. W. P. has been sponsored by and affiliated with the I. D. A.

From the outset, the International DXers Alliance has been accorded unusual support and co-operation by officials. We believe that this has been due to the fact that the I. D. A. is not *merely* a DX club. To the contrary, it is essentially an organization which is peculiarly adapted for the dissemination of the doctrine of international friendship, co-operation and cordiality, regardless of nation or race. This creed has been our watchword from the start and we

hope that we have done some good along these lines.

Our success in this field depends entirely upon the amount of enthusiasm with which we spread the ideals of the club. As we grow in size, our responsibility in maintaining these ideals increases proportionately. This is not a task to be accepted lightly, but one that we should shoulder with full knowledge of the potential good that could be accomplished under ideal conditions.

Local I. D. A. branch organizations are now taking up the challenge of our activities. In London, Manchester, Malta, Regina, New York, Calgary, Toledo, Lansing, Kalamazoo, Los Angeles, Beverly Hills and other cities, there are groups which serve as a nucleus for a bigger and better I. D. A. coverage in those areas.

The International DXers Alliance is known in almost every civilized country of the world. Over 1200 Globe Circlers go into more than fifty countries and are read from Dawson, Yukon, to Santiago de Chile, from Northern Rhodesia to Western China.

It is with a sense of sincere appreciation that we thank our enthusiastic members for their untiring efforts to provide the necessary impetus for us to carry out the ideals for which we stand.



James T. Spalding, Director of Publicity, IDA.

I. D. A. Publications and Chapters

● ● ● By James T. Spalding

IN ADDITION to the official publication, the *Globe Circler*, there are a number of I. D. A. district bulletins which are issued primarily for the use of the local members. These bulletins act as a complement to the *Globe Circler* and contain personal news and tips from members in the district.

In Europe, where there are more than 100 members, there is the *British Globe Circler*. When its first editor, A. C. Baker, left England to become engineer in charge of the British Exhibit at the Brussels Exhibition, the task of editing the paper was turned over to C. K. McConnan, of Liverpool. Regular features of the bulletin include news of special programs, short wave notes, reports of tests on new receivers, articles by members all over the world and comprehensive reports on DX in England.

In the Second District, Director Bill Ellis keeps Pacific Coast members informed with his own bulletin. In addition, a tip period over KFAC brings news of interest to DXers everywhere.

Up in northeastern Canada and New England, the Seventh District Director, E. L. Peters, has just commenced the editing of the *Northeastern I. D. A. News*. This is a hefty little bulletin, crammed full of the most helpful DX data seen in many a day. "Pete" is no mean DXer either, having several trophies to speak for his ability as a dial twister.

The Fifth District, under the direction of John Shanks and his assistant Joel Armantrout, presents the *Dixie Flash* for the benefit of the "boys in gray."

Robert Weber, Director of Central District No. 4, promises a bulletin in the near future and plans are under way for the formation of a Chicago chapter.

John DeMyer, Director of the Sixth District, teams with R. H. Tomlinson in putting out the bulletin for members in that part of the country.

Unless one has seen the results of the untiring efforts of our directors, it will be difficult to appreciate this unusual and important phase of the I. D. A.

Another important branch of I. D. A. activities cannot be overlooked. Any person with a hobby likes to talk over its particulars with others so interested. We have sponsored local chapters for this purpose, and they play a very essential part in the interest of their members.

Toledo Alpha chapter is sponsoring a Singleton Contest, while New York Beta is very active in a DX contest confined to its members. Lansing Delta is considering the use of special printed report forms by its members. Epsilon Chapter in London, England, has provided prizes for its short wave contest. Los Angeles Eta is getting a permanent club house and has arranged for its chapter news to be printed in the *California Broadcaster*. Radio Fellowship, of Beverly Hills, has acquired a fine home and bids fair to become the largest and best-equipped of all the chapters. They boast such members as Frank Andrews and, it is whispered, a screen star or two.

Our two Canadian chapters, Regina Jubilee and Calgary Foothills, are making rapid strides in membership and activities, as are our two latest additions, Kalamazoo Celery-City and Los Angeles Globe Trotters. DXers desiring information about these chapters are invited to write for details.

Radio in Malta

● ● ● By J. Mercieca



Joseph Mercieca, Sliema, Malta, IDA representative in that country.

WITH the Maltese wireless enthusiasts, DXing has become almost second nature. Malta is very far from any broadcasting station and is short of one itself. The average listener does not content himself with the nearest powerful stations, but seeks adventure on the ether by going after the most distant transmitters.

As early as 1930, when multi-tube sets were beginning to make their appearance in Malta and when short wave sets had nothing in common with the current models, the writer was conducting DX work on the medium-wave bands and was able to log several North American stations. Today, anybody with modern equipment can tune in America and the

other continents on medium waves in the small hours of the day. During the day and in the evening, DX stations can be heard well on the short waves.

The Maltese DXer never before went further than to satisfy himself with the fact that he was able to log distant stations. Asking for verifications was not in vogue and nobody seemed to care about the incredulity of his fellows. However, while the I.D.A. is comparatively young in Malta, being founded in April, 1935, some of the local members have become enthusiastic about asking for QSL's and verifications are now on hand from most of the world's stations.

Among the local listeners, multi-tube sets of the order of eight and more tubes are very popular. This is due apparently to the geographical position of Malta, where very sensitive equipment is necessary for reception of distant transmitters. Many makes of receivers find their way into the homes of local listeners, but American and British sets are in the lead. From information obtained from I.D.A. and W.R.R.L. members, I have arrived at the following figures: American models, 58%; British, 19%; Dutch, 12%; Italian, 5%; German and Japanese, 3% each.

As regards broadcast activities in Malta, the Naval Authorities have always been the sole entertainers. On special occasions, such as the Christmas speeches of H.M. the King, the launching of the "Queen Mary," and the marriage of H.R.H. the Duke of Kent, re-broadcasts of the Daventry short wave stations were effected very successfully. Since September 9, 1935, the Naval Authorities have extended the privilege to the Maltese people in general of hearing the B.B.C.'s news bulletin, which is re-broadcast daily on 230 meters. Then a translation of the news in Maltese takes place. We also have frequent talks on education, farming and public health. Recently we had the first

O. B. consisting of a relay from Valletta of the beating of the retreat by the regiment of the Duke of Wellington.

In the near future, we are going to have broadcast programs relayed on lines to the homes of subscribers. This service is entrusted to good British enterprise—the Broadcast Relay Service (Malta) Ltd.

The people of Malta are becoming more and more radio-conscious, and the time will come when radio sets and relay loudspeakers will be found in every home.

What The I. D. A. Means To Me

● ● ● By John DeMyer,
Director Sixth District

I SUPPOSE every DXer often looks back to the time when he was first bitten by the infectious bug. I know I do. It was way back in the infancy of radio, or even the Wireless Age, that I started DXing, but it was not until recent years that I considered the hobby seriously and started my collection of foreign verifications.

RADEX can take the "blame" for this, for it was there that I first read of trans-oceanic reception on the broadcast band. I must admit, however, that I had my doubts about the possibility of such reception and I started out as a pessimist of the first water.

In due course, my state of pessimism gradually turned to one of optimism. I finally heard a station from across the ocean and this was a thrill long to be remembered. Then, early in 1933, I actually received two foreign verifications.

A little later, I read in the pages of RADEX that a new organization of DXers had been started. The club was called the I. D. A. It ap-

peared to be somewhat exclusive, since a prospective member must possess a foreign verification to be eligible. I immediately decided to join this society, for wasn't I the proud possessor of *two* foreign veries?

I often look back to that time and have never regretted this decision which was the real start of my DX hobby. I have since joined several other fine DX clubs. Many interesting events have occurred during the brief three years of DX activity. With the help of the clubs and my DX correspondents, I have increased my log of foreign verifications — broadcast band and short waves — until they number in hundreds and include some sixty countries on every continent. On the BCB, my best foreign veries are VOAS, St. Johns, Nfd.; HAL, Budapest, Hungary; Radio-Alger, Algiers, Algeria; LR8, Buenos Aires, Argentina; 2HD, Newcastle, Australia; and JQAK, Dairen, Manchuria.

After six months in the I. D. A., I was elected Director of the Sixth District, comprising the East-Central states. The club was very young then and we numbered but about twelve members in the entire district. Since then, the I. D. A. has enrolled hundreds of members and, of course, our district membership has increased quite a bit.

While being most interesting, the job of a Director involves no small amount of work and it is often hard to find the necessary time for all the details, especially when other business activities limit one's spare hours. It is necessary to keep a record of all members in the district, check on their verified logs, make up the honor roll, and report all activities monthly to headquarters. Obviously, this requires considerable correspondence.

Although at times difficult, I have



John A. Shanks, Russellville, Tenn., IDA Director of the Fifth District.

found the work pleasant and can point to many, many fine friendships as a result of the duties. This is the real interest and reward of this hobby.

Often I find a great deal of pleasure going through my file of verifications and re-living the thrills I had when I heard the stations, but the greatest thrill comes when I review the host of DX friends. The verifications are mere scraps of paper when compared to this. These friends are numbered not only in the I. D. A., but in other clubs as well.

In this DX game, I feel that we are fast approaching the era when inter-club relations will be more harmonious. There is no justification for selfishness or jealousy in club relations. It is through organized effort that we reap rich rewards in our DX activities and, for this very reason, every active DXer should be a member of some good

Editorially Speaking



Wm. Ansell, Regina, Sask., Director of the First District of I.D.A.

club and strive for a better understanding among the societies.

Local organized chapters are a distinct source of enjoyment and should be encouraged wherever possible. We have one here in Lansing and certainly have a good time at our monthly meetings.

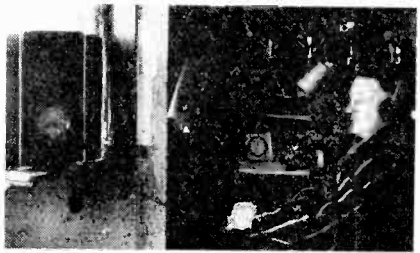
To my fellow I. D. A. members is due a vote of appreciation and sincere thanks for their co-operation in this work. Their efforts have made my work more pleasant and have afforded me the greatest means of relaxation that I have ever found — DX.

The manufacturers of the Raytheon tubes have kindly offered a set of renewal tubes as a prize in the Mystery Contest.

IN THE December issue of this magazine, we published a complete and up-to-the-minute list of the foreign broadcasting stations by frequencies, by locations and by call letters. We mentioned the fact that we had had numerous requests to publish a consolidated list of all stations in the world on the broadcast band including those in North America ordinarily covered in separate indices.

We have now received a considerable number of requests that we do *not* confuse our North American index by including the foreign stations which, after all, only a relatively small number of people can receive. Further than this, we have had demonstrated, in the most convincing way possible, that it is the short wave indices which our readers want. We have noticed that our sales of those issues containing the short wave lists have greatly exceeded the sales of those issues containing the foreign stations on the broadcast band.

The number of those interested in the short waves is being greatly augmented by the purchasers of new receivers many if not most of which



Here we glimpse Jack V. Hull, 16 Chalmers Street, Timaru, N. Z., listening to the over-seas stations in America and elsewhere. He writes: "I have been getting RADEX for the last six months and would not do without it as it is a wonderful help to me in my hobby. I cannot understand how I ever managed to do without it." Jack would like to exchange QSL cards with DXers in any part of the world and gives us his guarantee to reply to all who write and send their cards

are all-wave. RADEX wants to serve the greatest number. We have therefore decided that we must publish the short wave indices more often and the foreign broadcasters at greater intervals. In place of the latter list, therefore, we are this month printing only the changes that have been made since the complete list was published in December. We hope this will serve that fortunate group who are able to tune in foreign stations on the broadcast band. When any considerable number of changes have been made, we will publish the complete list again. In the meantime, extra copies of the December issue are available at the usual price.

Station Gossip

From the New Zealand DX Radio Association comes the information that 3MB, Birchip, Victoria, 100 watts, 1470 kcs. has been testing for the past few weeks and is now on regular schedule. That 4YA's 10-kw transmitter has been on the air after 6 a. m. EST during the past month, testing with a power of 7 k. w., later increasing to 10 k. w. The transmitter was put into regular operation on November 17th and was to have been officially opened on December 2nd.

The CRRC writes us that, while CJRC has been granted a change of frequency from 1390 to 580, the change will not actually take place for some time, perhaps six or eight weeks. The station advises us that while it changed temporarily to 580 it is still operating permanently on the 1390 channel.

Two experimental facsimile stations were authorized December 3 by the FCC on application of WOR and the Yankee network. Both stations will use the general experimental ultra-high frequencies. Facsimile reception is much simpler than television and these permits may mark the birth of a new and most intriguing phase of radio.

The FCC is evidently concerned

about the fact that the same program is found on so very many different points on the dial thus reducing the variety available to listeners. The Chief Examiner recently recommended that Clark Standiford, Visalia, Calif., be granted a construction permit for a new full-time 100-watt station on 1310 kcs. "with the understanding that the station is to remain a local station and not engage in chain broadcasting." In many cases new 100-watt stations soon go after power increases which often lead to chain affiliation. The result is that the programs lose their local character and the purpose of granting local stations is defeated.

An examiner of the FCC has recommended to the Commission that KGBZ, York, Neb., be deleted and its time given to KMA. The two stations now share time on the 930 channel.

The control of KUOA, Fayetteville, Ark., has passed to John Brown University with the approval of the FCC.

Transfer of control of WBSO from the Babson Statistical Organization was approved by the FCC on December 3. The new call is WORL and the location Needham, Mass. Efforts are being made to get studios in Boston, probably in the Miles Standish Hotel.

Two on One

Writes Alden P. Bowser, 358 Pleasant St., Brockton, Mass.: "On p. 47 of the January issue you state that KPRC and KTRH using the same transmitter for different frequencies would be a new wrinkle. WAAB and WNAC have been using the same antenna, a vertical single spire some 600 feet high, for broadcasting different programs on different frequencies at the same time from common studios in the same building. This has been very successful as witnessed by their hundreds of foreign reports."

Reports are current that WTIC, Hartford, has been sold to a Providence concern and will move to the Rhode Island capital. This is the

(Continued on page 32)

SHORT WAVES — Past, Present and Future

• • • By PAGE TAYLOR

THE Editor spent a few enjoyable hours the other day reading old issues of RADEX. The first shortwave article in this magazine was written by a Mr. Webster in the October, 1927 number, and we believe our readers may enjoy some of Mr. Webster's comments.

"There is little doubt that great discoveries are ahead of the pioneers in this field of shortwaves. One great advantage of these waves is the greater distances over which signals travel. It is possible to build a two-tube set with which we can in the course of an evening actually circumscribe the globe. The new field of shortwaves offers an opportunity to those of an experimental turn of mind to build sets with which they can explore the higher frequencies. With at least three stations broadcasting regularly and undoubtedly more to follow there is already enough to be found in this field to well repay the experimenter."

How much different the shortwave field is today! Thousands of stations exist and it is no longer necessary that one be of an "experimental turn of mind" in order to enjoy s.w. reception.

Eight and a half years have passed since that story was written and in that short length of time shortwaves have improved so much that Westinghouse describes their stations as being "locals" in India, Africa, Australia. . . . and Continental Europe. From The Westinghouse Technical Press Service comes this release:

"After the New Year, acknowledgement of shortwave reception

reports made to station W8XK Pittsburg and W1XK, Boston, will be discontinued, according to a decision made by the company's radio executives. One reason for discontinuing these reports to listeners is due to the fact that many newspapers and magazines in all parts of the world are publishing listings of shortwave transmitters and the time of their programs. Another reason is the increasing volume of mail now being received at the stations.

"Westinghouse, pioneer in the development of shortwave radio operations, has been in contact with the s.w. audience since 1922, the year in which it started its shortwave work. It is believed that the s.w. programs themselves, in future, will serve as a form of blanket acknowledgement to listeners."

A few months ago every radio periodical we know of reported that the German Broadcasting Co. was engaged in the construction of some superpowered shortwave stations to be put into service in 1936. RADEX fell into line and reported the same good news, but, we wrote to Germany at the same time seeking authentic information; the information has come, from the Riech-Rundfunk-Gesellschaft, and reads as follows:

"As to the rumors that the German Broadcasting Station is going to build several new shortwave transmitters, we like to inform you that we are broadcasting on a few new experimental stations which are partly point-to-point transmitters and which will be used for the international exchange of programs only."

Construction of the new Daven-

try transmitters is going right ahead. The British Broadcasting Corporation writes, "It is hoped that the year 1936 will witness still further developments in our short-wave broadcasting service. Contracts have already been let by the BBC for two new shortwave transmitters of high power to be erected at Daventry. When the construction of these transmitters is completed it is hoped that the quality of reception from Daventry will be vastly improved in all parts of the globe."

"Hail Colombia"

There has been some doubt about the call letters of the station known as "La Voz de Pereira," and despite the fact we wrote them for information, we still are in the dark on this question. A card was received from them on which no call letters or frequently were given, the card reading as follows: "Radiodifusora la Voz de Pereira. Proprietarios (owners), Cesar y Mario Arango M., Pereira, Caldas, Colombia. Transmissions daily from 0930 to 1100 and 1830 to 2130, EST."

From Cali, Colombia, we learn that station HJ5ABD, "La Voz del Valle," works on a frequency of 6490 kcs. with 100 watts power. 5ABD sends an attractive QSL card printed in red and blue, but the card is of no help in ascertaining their working schedule. It simply states "programas diarios," which means that programs are transmitted every day. Our most recent information on the schedule of this station is that they work daily except Sunday from 1900 to 2200, EST.

"La Voz del Choco, HJ1ABC, is the property of the Direccion de Educacion of the State of Choco," airmails Sr. V. Barrios Ferrer, the Director of Education. "HJ1ABC is a Collins transmitter of 100 watts power in the antenna. This station was installed on the 12th of Octo-



*Young Kenny Baker is the new singing-
stevoys heard with Jack Benny Sunday nights
on the NBC. Kenny is 23 and single.*

ber, 1935 and has worked with other stations in Ecuador, Venezuela and Colombia. Frequently we receive reports of reception from the United States, Canada, Cuba, Venezuela, etc., most of them giving us complete details of our transmissions and stating that our programs are marvelously received. There is no commercial advertising on this station as it transmits only educational programs. We recommend especially our special programs on Sundays from 3 to 5 pm. and also the instructive programs on Saturdays from 10 to 11 am."

Sr. Angulo, the owner of station HJ5ABC at Cali, announces the inauguration of a powerful new short-wave transmitter. "Our station, La Voz de Colombia, works on 6150 kcs. daily from 11 am until noon and on Monday and Friday

from 1900 to 2200, EST," Sr. Angulo advises us. "The Voice of Colombia broadcasts programs of selected music, songs, conferences, lectures on history, touring, etc. Orchestral entertainments consisting principally of Colombian music are provided in abundance and we have excellent speakers, both in English and Spanish." A brochure soliciting advertising tells us that Colombia consists of 14 states with a population of 8,000,000 persons, 300,000 of whom are shortwave listeners.

We have noted a tendency among many of the South and Central American stations to broadcast travel talks about their countries. These talks, of course, are always interesting, but we believe if the station would devote as much energy toward furthering the completion of the much-talked-about Pan-American Highway in their own respective countries, the touring problem would take care of itself. Thousands of us are awaiting the opportunity to "roll down to Rio" in our own cars and would be glad to spend a little "oro americano" down there if they will give us the roads. Mexico, Venezuela and the United States are the only countries that have done anything about the highway, while the plans as proposed call for a road from Alaska to Buenos Aires.

HJ4ABA, Medellin, Colombia, has a very attractive QSL card in blue and black. Sr. F. Cuartas, the Manager, tells us that HJABA works on 11710 kcs. daily from 1130 to 1300 and from 1830 until 2230, EST, using a 100-watt Collins transmitter. 4ABA is known as "Ecos de la Montana."

"Oh Canada"

Mr. Allison M. Jagoe, Manager of Canadian Station VE9BK in Vancouver, says that this station has been on the air intermittently for a period of possibly seven or eight

years, but as their power was recently increased to 250 watts they are now being heard over a wider area. "We appear to be getting through into the eastern states and Canada with very strong signals, and consistently," he continues. "No doubt within a reasonably short time we will have regular programs for the public arranged, but for the moment this station is being used to keep regular schedules in some cases with our Branch Office and for experimental purposes only. Our present schedule is, Monday, Wednesday, and Friday, 1130-1145; 1500-1515; 1930-1945 and 2000-2015, EST. Tuesdays and Thursdays, 1130-1145; 1500-1515 and 2000-2015. Saturdays, 1130-1145; 1500-1515 and 1930-1945. On Sundays we work irregularly." VE9BK is owned by Radio Sales Service, Ltd., 780 Beatty St. Vancouver, B. C.

A highly interesting shortwave flash comes from the New Zealand DX Radio Association about a new station in the South Pacific. This is "Radio Oceanie," Papeete, Tahiti, broadcasting programs of recordings and native music on 7100 megs. on Wednesdays and Saturdays from midnight until 1 am.

VUC in Calcutta, India, is reported to have shifted to 6300 megs.

ZEB at Bulawayo and ZEC at Salisbury, Southern Rhodesia, broadcast simultaneously on Tuesdays from 2 to 3:15 pm, and on Fridays from 10:15 to 11:30 am. ZEB is on 6.147 megs. and ZEC is on 6.000 megs.

Two of the telephone stations at Drummondville, P. Q., heretofore licensed for A1 (CW) operation only, apparently have had a modification of their licenses to use A3 (voice) transmission as well. Ronald Crane, 5536 Dorchester Ave., Chicago, Ill., reports hearing CGA5,

9091 kcs., and CGA8, 4905 kcs., working in parallel with GCB at Rugby, England.

The new point-to-point telephone station in San Juan, Puerto Rico, has been given the call sign WCT. This station is owned by the Radio Corporation of Puerto Rico, and will work with WNC at Hialeah, Fla.

"They'll Never Believe Me."

Two thousand stations on a one-tube radio set is a record of which Elmer Wall, R.F.D. 1, Box 116, Mountain Lake, Minn. boasts. "I have two 1-tube radios," he writes. "One is a b.c.b. only and the other is an all-wave Air Scout. Although it seems almost unbelievable, I have a log of 2001 stations. Thirteen hundred and ninety-four of these are amateurs, 477 on the b.c.b., 62 are shortwave, 55 are police and 13 are airways stations. My best s.w. stations are VUB, RKI, HVJ, JVT, VK2ME, VK3LR and KKH. The Daventrys and EAQ are heard practically every evening. These two sets operate on two dry cells and one or two "B" batteries. They cost about a penny to operate for ten hours. I use two outside aerials, one 330 feet long and the other 56 feet long. I would like to correspond with other users of midget radios."

"I am very glad to report to you that I have received my QSL card from HI1A," J. Herbert Hyde, Box 82, Elmwood, Conn., replies to our request in last month's RADEX. "I heard from them in record-breaking time, about one month. Yesterday I received a verification from XEBT in Mexico City, but the real thing of interest is the fact that this QSL verifies my report of December 11, 1934, just a little over a year ago. I have just learned that patience is a necessity in S. W., both in tuning and in waiting for answers.

"VP3MR, at Georgetown, British

Guiana, was heard here one evening at about 8:10 pm, EST, on 42.4 meters, according to their announce. This station is owned by the British Guiana Broadcasting Co."

From Iceland

From Verdun, Quebec, J. Russell Graham, 1005 Allard Ave., writes, "TFJ in Reykjavik, Iceland, on 12235 kcs. is broadcasting on Sunday from 1340 to 1400, EST, coming in with an R7 signal. A lady does the announcing. I have heard the following stations testing: TI5HH at San Ramon, Costa Rica, on 5500 kcs. near 0030 EST; DIQ at Nauen, Germany on 10290 near 1500; DJJ at Zeesen on 10042 kcs. was heard broadcasting from 1400 to 1600 on a Sunday and DJI, also at Zeesen, was heard on 9675 kcs. from 1700 to 1900." Mr. Graham would like to correspond with other DXers.

"How is this for a list of stations reported?" asks Eric Butcher, Cokeville, Wyo. "The War Department Station in Colombia HKV, HJ3ABD, CEC, YV1ORSC, HC2CW, YV8RB, HH2W, W1OXFH, and a dozen or more foreign hams. If less than 50% of these stations verify, here is one DXer who is going to satisfy himself in future with simply hearing the stations, and quit buying Reply Coupons." Mr. Butcher wishes to exchange SWL cards with other DXers.

"Why not slip a few code stations in your list, such as DIS-DFH or DIH-DIO?" asks Howard O'Day, 3814 Hillsdale Road, Baltimore, Md. "Those stations send press and it would be a big help to us old-timers to calibrate our receivers. I heard WOO talking to the S. S. Transylvania, GLKZ, evidently a new station. The S. S. Albert Ballin has been re-named the S. S. Hansa, and the Belgenland is now under American registry with the new name of Columbia.

The call letters of the Ile de France are FNTQ. The other day WNC at Hialeah was working a new station, VRR4 in Jamaica."

A home-made receiver that works well is the prized possession of H. J. Arbic, Acton, Ont. "With this receiver I have heard EAQ, DJA, B, C, D, GSA, B, C, D, E, F, G, 2RO, PHI, PCV, CT1AA, PRADO and YV3RC, as well as lots of South and Central Americans, Mexicans, etc. All these stations were heard with good volume at times."

"In 1931 I quit tuning the broadcast band and went 100% shortwave," recalls H. R. Keller, Franklin St., Schenectady, N. Y. "At the present time my s.w. log includes 212 stations, all continents being represented, including Little America." Mr. Keller's letter continues with comments on interference from South American stations, and asks for a solution to this trouble. Most of the better stations, like Zeesen and Daventry, are trying to avoid the 49-meter band as much as possible, and await the next International Shortwave Congress, when it is hoped some kind of agreement can be reached on this subject.

"School Days"

" 'We no speak da English,' seems to be the attitude of many of the foreign stations," is the familiar introduction to many letters we receive. This one is from Irving Johnson, 1926 Argyle St. Chicago, Ill. "It seems that to enjoy most of these foreign programs one must return to school and learn all the various languages. I wonder why these stations cannot have a multi-lingual recording made of their announcements and play the recording at least every half hour. Meanwhile, I am going back to my Spanish lesson in preparation for my battle tonight on the 49-meter front. Following are some Timely Tips for Tireless Tuners: HRP1 at

San Pedro Sula, Honduras, has moved over to about 6350 megs. and has an R9 signal when it is on the air. DJI is a new German on 6750 megs. The Hungarian stations HAS3 and HAT4 are good Sunday catches. HAS3 comes in well between 9 and 10 am and HAT4 between 1800 and 1900, EST. These stations are easily indentified as the lady announcer speaks perfect English."

"I am not doing much verifying but I note that the Aussies, 3ME, 3LR and 2ME, and JVT, JVN, JVM, are still coming in good," reports Lyle Stannard, 817 King St., Three Rivers, Mich. Mr. Stannard uses a Scott All-Wave 15.

Altan Magary, College Place, Wash., would like to hear from users of 18-tube Midwest sets. He has had his set only a short while but has already heard GSE and Pontoise between 9 and 11 am, PST, loud enough to hear all over his home. HRN, YV2RC and several other So. American stations are also included in his log.

Who Has Africa?

Like many other DXers, Henry Green, 3424 W. 67St., Chicago, Ill., has heard every continent except Africa. "I would appreciate it very much if any of your readers who have any dope on the Afrikanders would correspond with me, and I will answer all letters," promises Mr. Green. "Incidentally, I would like to exchange QSL cards as I have just had a new bunch printed. My s.w. log stands at a meager 105 stations, excluding police and amateurs. I have heard 44 countries, but still no African. My best catches are JVN, VPD, 2ME, 3LR, HAS3, HAT4, all the Daventrys and Zeesens, HVJ and a few others." The Editor thinks this is a pretty fine log, even if Africa is missing. There are a few good stations in Africa and one of these will come through some day; the Egyptian

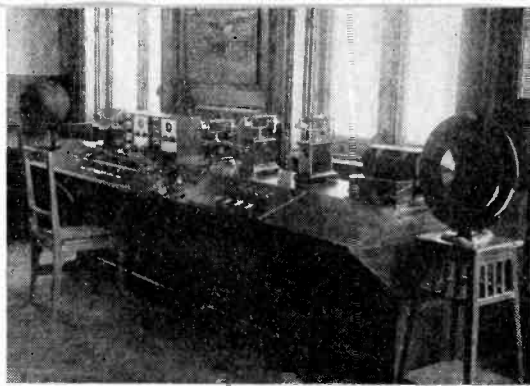
phones are about the best ones at the present time.

"The outstanding s.w. catch at this listening post was ETB at Addis Ababa on 11960 kcs," submits Nicholas Hock, 20 Burnet St., Newark, N. J. "This station broadcasts every Wednesday from 1645 to 1715, EST, and produces a very good signal here, considering the comparatively low power used. Another new station is HI1S, Puerto Plata, Dominican Republic, on 6420 kcs., 'La Voz de la Espanola.' They use three chimes as an identification signal."

Ray English, 360 Lafayette Ave., Passaic, N. J., tells us that the Mexican Government station XECR on 7380 kcs. has changed its schedule to Sundays, 1900 to 2000, EST. He also reports that the Japanese are now using JVT for their morning broadcasts and that reception of this station promises to be as reliable this winter as it was last. "They are supposed to broadcast daily from 4 to 7:45 am, EST," he adds. "JVT is on 6750 kcs. They sign off with a short English talk, but the announcer talks too fast to understand him."

In December Ray English suggested we give the times at which the various stations speak in English. Fred Baines of Sydney Mines, Cape Breton, N. S., believes this is a good idea, and adds the following to Mr. English's list: Pontoise, France reads news items in English at 8:30 am each day. PCJ, COCO, COCD, XECR and PHI use English frequently and HJ4ABE in Medellin, Colombia, devotes the final half hour of their daily program to a travel talk in English.

"Shortwave stations heard recently include GSA, TIRCC, XECR, HCJB, YNVA, CO9JQ, and quite a few amateurs. My log of standard broadcast stations on the shortwaves now stands at 74," reports Manuel Alberto Cadilla, Box 337,



Control Room of HSP-1. Radio Bangkok, 2500 watts.

San Juan, Porto Rico. Mr. Cadilla discusses at some length the question of shortwaves vs. broadcast band; he says that during the summer there is nothing to do but cling to the s.w. on account of the heavy static on other bands. In the winter, however, he prefers the BCB.

Some Short Wave Shorts

"On the s.w. I have heard about 170 stations with about 60 verifications," submits Walter L. Damkoehler, 150 S. 73rd St., Milwaukee, Wis. "The best stations in my list are W10XFH, VIZ3, and the usual run of Europeans as ORK, GBC, HBP, and I have a letter out to SPW in Poland. I would like to hear from any DXers in Milwaukee or nearby."

An un-named correspondent who resides at 315 S. Riverside, Medford, Ore., sends us a newspaper clipping about some radio stations situated at Crater Lake National Park. The Crater Lake station, KNLH, works near 3235 kcs. Another station known as PF153 is situated on the summit of Mt. Hood and works on 3385 kcs. with station KBAA at Portland daily.

"Here are a few tips for you," offers Bill Bundlie, 614 N. 6th St., Grand Forks, N. Dak. "CEC at Santiago, Chile, on 10670 kcs. is on

(Continued on page 32)

FIRST AID for Ailing Sets

••• By the TECHNICAL EDITOR

FROM Warren Hyser, of Holland, Mich., comes this query:

"What replacement tubes do you recommend for my General Electric, model K 80, receiver? Also, when my RCA double-doublet is disconnected and a short antenna used instead, the results seem better. Did my serviceman install the antenna correctly? If I use a preselector with this set will it improve DX reception?"

All tubes are made according to established specifications. Perhaps some makers use better material and more care in the construction. Any nationally advertised tube is good. You should employ the same kinds of tubes as were originally in the receiver when it came from the factory, as it is likely the set was built about the characteristics of those tubes.

In the RCA double-doublet antenna the yellow lead is the ground wire, and it is connected to the chassis of the set. The antenna coil is also grounded. Try ungrounding the antenna coil and bring a lead from it to one of the doublet leads. The other doublet should connect to the black antenna lead. If this does not remedy the trouble, have the installation checked again by your service man.

We feel certain that a good pre-selector will provide some noticeable improvement in DX reception.

Metal Tubes Again

The subject of metal tubes distracts many of our readers. So, A. W. Stowell, a resident of New Castle, Pa., asks: "Can I change my Philco 1935, model 16B, so as to use the new metal tubes? A lot of my friends

will change to metal tubes also if you so advise."

Metal tubes, in our estimation, offer no real advantage over glass tubes. Even if complications did not arise, we now doubt very much if the results would be as satisfactory in a rebuilt receiver. We also feel that a change-over would be very detrimental, due to heating of parts and a consequent change in their electrical values caused by the high heat radiation factor of metal tubes. Our experience to date favors glass tubes when revamping old circuits. Therefore a change also to the "G" or glass-counterpart tubes would show no improvement in your set.

Short-Wave Troubles

Loren W. Camp, of Keokuk, Iowa, writes about his troubles on the short waves. Says Mr. Camp: "We have 25-cycle current here for my Baird a-c and d-c set and short-wave converter. I have no good dead spot on the receiver as it is alive with police calls. They drive me out of the top of the dial and have made operation of the converter impossible. Also, what can I do about the 25-cycle ripple in my receiver?"

A re-alignment of your receiver would probably enable you to obtain a better dead spot for the converter. Now if you are not experienced in this work we earnestly suggest that you call in a good service man. Should re-alignment fail, a wave trap might give you the desired dead spot at some portion of the broadcast band. A doublet antenna will improve your short-wave reception. Under no circumstances use a shielded lead-in for short-wave work.

The use of a heavier filter choke—

perhaps about 50 henrys—and a doubling of the filter condenser capacity, should remove most of the 25-cycle hum. It is more difficult to filter out low-frequency hum; the units that handle 60 cycles very nicely will have little effect on 25 cycles. Radio sets that operate on 25 cycles are built with different filter units than those that operate on 60 cycles.

Automatic Volume Control

Old sets that do not use automatic volume control often give the owners a problem to think about. It is with this in mind that Vernon Parker, of Grand Chain, Ill., asks: "How can I put automatic volume control on my Radiola R-7 receiver? Also, this set has some noise in it which sounds like a loose connection. It appears mostly when using that part of the dial from 800 to 1500 kcs."

We consider it inadvisable to attempt the installation of a.v.c. on this set. If you wish to experiment, however, we shall be glad to prepare a diagram. It is one thing to give you a circuit on paper, and quite another to have it work out nicely after you have attempted the change. It would be rather expensive, and the present selectivity and sensitivity of the set might be changed.

For the other trouble we suggest you try a new 47 tube and check the values of the two resistors shunting the speaker field. We are also inclined to suspect trouble in the voltage-divider resistance and in the secondary of the input push-pull transformer. Check the radio-frequency by-pass condensers as the set may be oscillating at times.

Make sure the plates of the tuning condensers are not rubbing, and check the connections between the rotors of the tuning condensers and the chassis.

Hisses and boos always sound a raucous note in any broadcast, but

when a radio receiver starts hissing, it is too much. At least this is what William Baehrle, writing from Hamburg, Pa., thinks when he wails: "I have a Midwest 10 receiver that went back to the factory for repairs, then a serviceman tried to fix it, but all to no avail. It commences a boiling hiss that grows loud enough to blot out the loudest broadcast, then with a click the noise stops, but volume of sound of broadcast is reduced. If I break ground connection or switch the set on and off it sometimes peps the set up, but soon the hiss and trouble starts again. This set has a slight electrical leakage through the ground terminal. The resulting spark when breaking the ground wire circuit aids me in getting the set to playing again."

We think that the by-pass condensers or resistors can be blamed for the trouble. In the case of your condensers, we believe that they become opened. They may be checked by substitution with others of approximately the same size. A 0.1 mfd. condenser will prove satisfactory for this test. In the case of the resistors it would be necessary to have the same value. In view of the fact that it would be expensive to purchase all of these resistors, we suggest that you call in a competent service man. Although it is possible, we doubt that the defect will be found in the power unit. Your description sounds as though the receiver breaks into some form of oscillation.

The sparking at the ground wire is caused by a condenser connected from the ungrounded side of the power line to the chassis. Reversal of the line plug will bring about this sparking action. It sometimes is due merely to capacity action, but often a hot soldering iron applied to the various joints long enough to make the solder flow, will clear up the trouble you are experiencing.

All Stations Fade

From the town of Mt. Ayr, Iowa,

Mr. George H. Rains writes as follows: "I have a Philco No. 86 which fades on all stations. I took it to our local service man and had new tubes installed; also a new power transformer and condenser block. All this to no avail as we have evidently failed to locate the trouble. Can you give us some further advice?"

This trouble is a form of intermittent reception, and is about the most difficult thing to cure, and much patience and radio knowledge are required. In your particular set, we would inspect the connections in the trimmer condenser operated from the front panel. Turn the chassis upside-down. Then make sure that the panel light leads are not being shorted by the tuning condenser.

Next remove the coils from the cans and examine them, looking for broken wires or loose connections. If you will draw a picture diagram before you remove them you will know how to re-install the coils. The speaker plug should also be checked for good contact.

Poor Selectivity

A complaint that seems to be rather universal comes from Joseph Stempel, of Bridgeport, Conn. "My RCA-Victor all-wave model 128 receiver," writes Mr. Stempel. "has very poor selectivity and tone quality. I have checked up on the voltages and get results much less than the socket voltages specified for this set. (From a table submitted by this writer it appears that the voltages are about 25% less than normal). I also notice that the interstation noise usually present is weak."

From the voltages indicated as now prevailing on the tube plates we suggest that you try a new type 6D6 intermediate-frequency tube, regardless of how the present one tests. Also try a new 80 tube. In view however of the total plate current realized, we think your measurements of the 80 plate current must be wrong.

If necessary, try new tubes throughout, particularly the radio-frequency, detector-oscillator and second detector. A re-alignment of this set could help considerably. Do not neglect to check the voltage of the three resistors in the voltage divider. The one that is connected to the high-voltage side is 10,000 ohms and the next two, 5,000 ohms each. There might be an open by-pass condenser. Try shunting the various by-pass condensers with others of approximately the same value. If the trouble clears up when you shunt across one of the condensers that one must be replaced.

Discarding 15-Volt Tubes

"I have a model 30, 9-tube Sonora receiver employing the 15-volt tubes," writes Mr. C. H. Johnson, from Berkeley, Calif., "and I desire to revamp this set so as to take the low-priced standard tubes. I have not been able to secure this information. I also have a 1936 model R-136 Stewart-Warner set and wish to use headphones. Can you tell me how to do this?"

If you wish to go to some trouble and expense you can rewire the Sonora to take modern tubes. The cheapest and best thing to do is to stick to these old tubes or get a new set. The use of new tubes would require a new power transformer, new sockets, new r-f transformers (which you might not be able to get to match the present tuning condenser), and perhaps new resistors. The 15-volt tubes are still available at some mail-order houses.

The headphone adapter advertised in this magazine is the easiest scheme for using head telephones. Otherwise, you can connect the phones across the primary of the output transformer, in series with a 1.0 mfd. condenser. The output tube is the 6F6 in your Stewart-Warner set. The primary leads of the power transformer connect to the plate and

screen grid of the tube. Remove the tube and look down upon the socket. The third terminal to the left of the aligning hole is the plate, while the fourth is the screen. If in doubt, follow the leads from these points to the primary of the output transformer, which you should find mounted on the loud speaker.

A.V.C. Troubles

Mr. S. L. Peters, of Westport, N. S., Canada, is having a lot of trouble. Part of his letter follows. "I had my Victor R-54 set overhauled, but recently when I happened to touch my finger to the base of the antenna coil, red wire, and chassis, the signals were much stronger. There are two other places that, when grounded also, give great increase in volume output. I have placed a make-shift connection to the chassis at this point. I feel sure the trouble is in the A.V.C. circuit as the volume control is not working properly. There is no inter-station noise. The tubes all test satisfactory. It seems that I am not getting all the output I should, and as the serviceman is puzzled I hope RADEX can help me out."

By grounding the red wire, you are cutting out the automatic-volume-control action. In the grid circuit of the A.V.C. tube there are two resistors having a value of 2 megohms and 100,000 ohms. Replace both of these. Check the volume control device, which is a potentiometer of 50,000 ohms. Try a new set of 58 tubes, all at the same time. In the control-grid returns of these tubes there are .05 mfd. condensers—try new ones as an experiment. Originally, the antenna coil was not grounded—if you have better results in the future by doing so, ground it securely. Slightly reducing the filament voltage of the A.V.C. tube might help. A small resistor in its filament circuit will serve. We suggest that you pass these ideas on to your

serviceman. Insist on trying the new tubes mentioned, for tube testers do not always tell the entire story.

Have this service man pay particular attention to those condensers associated with the A.V.C. tubes, particularly to the one connected in the cathode of the tube—it is the one in the condenser block—brown with a red tracer color.

Westinghouse Volume Troubles

From Walter F. Reynolds, of Brockton, Mass., your editor received a trouble complaint about an old model receiver, as follows: "I have a Westinghouse type RA receiver. By running the antenna wire through the coil of this set I can increase the volume considerably. The tuner consists of a vario-coupler and condenser connected together for single tuning. There is a 'tickler' connected to the coupler. What was the original purpose of this tuner?"

The tuner you have was originally for a small three-tube battery receiver. This set was regenerative, the tapped coil being in the plate circuit of the detector and the other in the grid circuit of the same tube. We think that placing the variometer and condensers in series with your antenna will give best results. However, you should experiment until you find the connection best suited to your receiver input and particular antenna. The action you are obtaining is quite similar to the antenna tuner you have described—you are tuning your antenna to the desired frequency.

Philco 16B Slips On S-W

"The short waves do not stay when they are tuned in," advises Mr. Eugene E. Hibshman, of Altoona, Pa., "and it is necessary to get up and turn the tuning knob a bit to get the station back again. This set is a Philco 16-B, 1933 model. The condenser shaft is not loose, and the local dis-

(Continued on page 31)

This and That in the DX WORLD

••• By CARLETON LORD

PROBABLY the greatest thrill DXing can offer a devotee today is the reception and verification of a foreign station on the broadcast band. To hear and identify a transmitter in some far-away land more than makes up for weary hours at the dials, lost sleep and a barrage of static and noise.

Insinuations of doubting-Thomases to the contrary, foreign reception today is not only possible, but very probable under favorable conditions in most sections of the country.

The history of such reception as we know it today coincides almost precisely with the story of the International DXers Alliance, and much of the credit for current conditions can be given to Charles A. Morrison, founder and president of the I.D.A.

While we can hardly say that the I.D.A. picks up signals from foreign broadcasters and deposits them on the aerials of our collective receivers, few DXers will deny that the reception of these stations has been strongly enhanced by the work of this organization.

Commencing at a time when very little was known about tuning for transmitters from across the oceans, the I.D.A. has been active in distributing information on how and when and where to tune. For the DXers who desired to verify their foreign catches, the I.D.A. did true missionary work among broadcasting officials. Authoritative data on changes in the broadcast spectrum and new stations in distant lands, special programs from hard-to-get transmitters and other important activities have been included in the work of I.D.A. officers and representatives.

Following upon a tribute to the Newark News Radio Club, the pioneer

DX club, we are pleased to dedicate this issue of RADEX to the International DXers Alliance, and to extend our compliments upon the work which they have accomplished. An article by the president, Mr. Morrison, tells an inside-story of how the society was organized and traces its work down to the present. John DeMeyer, Director of the Sixth District, gives an account of his activities in behalf of the club. James T. Spalding, Publicity Director, explains the part which local chapters and supplementary bulletins play in the general scheme. Two prominent foreign members, J. Mercieca and J. L. Sullivan, tell about radio conditions in their respective countries.

Publication Deadlines

Judging from a number of recent communications, some of our readers are not familiar with the times at which each issue of RADEX goes to press. Too often we receive last-minute tips and information which arrive too late to be published in the proper issue.

To simplify, let us assume that we are making up the March issue. For proper consideration and classification, letters and news items for the attention of the Short Wave and DX Editors should reach us not later than January 20th, although last-minute tips may be included in the respective departments if received as late as the 25th. Copy goes to the printer on January 30th, by which date a few items may be squeezed in. Final data about DX specials and station changes may be included up to February 8th, when galley proofs are made up into pages. After then, any information whatsoever will be too late for inclusion in the March issue. These dates may be used in

checking the press deadlines of all other issues.

Attention to this schedule will eliminate the necessity of leaving out many valuable bits of information, as has been the case in the past.

When Readers Write

Periodically, we receive comments from DXers to the effect that the quotations from letters do not contain sufficient information for listeners at large, that readers are not particularly interested to learn that someone has "a verified log of 444 BCB stations, of which PDQ, FOB, COD and XYZ are the best," and why don't we do something about it?

In defense, Your Honor, it is necessary to point out that this particular section of RADEX is dependent entirely upon the contributions of our readers. If we receive a lot of tips on tuning, we print them; if letters merely contain resumes of logs, we print that. It is all pretty much up to the readers themselves, and a possible solution would be for every DXer to write in the type of letter he likes to read. Then there would be something to please everybody.

What we started out to do, however, was to call attention to a letter which seems to be "right down the alley" of the information-seeking commentators. The writer is James L. Black, 2252 Bellfield Ave., Cleveland, Ohio.

"New transmitters for the BCB," he pens, "will be erected at Tananarive, Madagascar; Constantine, Algeria; and Stara Zagora, Bulgaria. The latter will be a relay station, while Constantine will have high power. The new 120-KW PTT transmitter at Marseilles, France, has been heard testing on 749 kcys. Sottens, Switzerland, has been testing their new 100-KW station on 677 kcys. while OKR, Bratislava, Czechoslovakia, 1004 kcys, will jump power from 13.5 KW to 120 KW.

"A new station should now be on the air at Jerusalem, Palestine. They

are scheduled to use 868 kcys with 20 KW and announcements will be made in English, Hebrew and Arabic. A number of new transmitters are scheduled to begin operation shortly in India: VUD, Delhi, 882 kcys, 20 KW is a brand-new station, while new equipment will be installed at VUB, Bombay; VUC, Calcutta; and VUM, Madras.

"A number of unidentified stations are reported: a French-speaking broadcaster on 1020 kcys at 0200 EST; another French-speaking station on 1380 kcys; and a South American on 1055 kcys. Is the former Frenchman Rennes, and is the second one in Indo-China or Shanghai? Still another mystery station was first reported in November by Joe Enz, of Brooklyn, on 700 or 705 kcys. On December 9th, I heard this station QSA5, R7, from 0201 to 0203 EST. After a band recording of "The Star Spangled Banner," they went off the air without any announcement whatsoever.

"Several changes have taken place in the Antipodes: 7NT, Kelso, Tasmania, 7000 watts, has changed from 750 to 710; 3AR, Melbourne, 4500 watts, has changed from 630 to 580; 5CL, Adelaide, 730 kcys, will soon increase its power from 2000 to 7500 watts; and 4YA, Dunedin, has been heard testing its new 10-KW transmitter on 790 kcys.

"WJAY, Cleveland, Ohio, a 500-watt daytime station on 610 kcys, claims to be the first American BCB transmitter of such power to be heard in Africa. Recently they verified a report from the southeast corner of the dark continent."

How about it, Radexers? Is that the kind of reports you want? If so, send them in!

"When A Man Bites A Dog . . ."

"If I heard a South American on the BCB," proclaims Walter C. Birch, 22 Oneida St., East Lynn, Mass., "that is not news. If the SA verifies

my reception, it is a bit of news. But when the SA station verifies my report, states that return postage is not necessary and *returns* my IRC, I think that is news to pass along. LR1, Radio El Mundo, is the station. Reports are most welcome and DXers are requested NOT to send return postage."

"I wrote you last summer," admits Robert Hyland, 216 E. Grand Ave., Springfield, Ohio, "and since then I have heard so much DX that I thought I would write again. So far this season, I have logged 96 stations to bring my total to 658 stations heard and 300 verified. Some of the better catches include LS2, LR3, LR4, LR6, PRB9, HJ3ABH, 2BL, 4QG, JOAK1, Radio Normandie, Bordeaux and several others. While my five-tube Gloritone, Model 26, has rather poor selectivity, it is very sensitive and I can get rather remarkable results in my location. If it were not for natural static, I could boast of a perfect situation for DX. I would like to correspond with anyone using a Gloritone like mine."

"This year has been the worst of the five during which I have been DXing," complains Donald S. Voorhies, 1717 East 19th St., Brooklyn, N. Y. "Static seems to predominate at all times and my verifications so far include but CKCV, CFRC, CKNX, KSAC, WELI, WTMV, KABR and a few others. The 1934-35 season was the best encountered, when I verified 2BL, 3DB, Poste Parisien, Radio Normandie, CP4, CPX, CX26, CFCT, CKOV and quite a few 100-watters on the Coast."

"A new Peruvian station went on the air September 27th," announces Miguel A. Rivera, P.O. Box 480, Hong Kong. "It is OAX4M, Radio Sucre, 1450 keys, and belongs to Luis Suares y Hno., Calle Manuel Candamo, Lima, Peru. For those who are successful in tuning some of the South Americans, here are the addresses of a few stations in Chile: CE94, Radio Chilena Consolidada,

Casilla 627, Santiago; CE81, 840 keys Radio Chilena Consolidada, Casilla 2043, Valparaiso; CE109, 1170 keys, Radio Zenith, Casilla 4059, Valparaiso; CE105, 1050 keys, Radio Valparaiso, Prat 773, Valparaiso; CE120, 1200 keys, Diario "La Union," Casilla 2043, Valparaiso; and CE125, 1250 keys, Radio Wallace, Esmeralda 1111, Valparaiso. Addresses of a few Chinese stations are as follows: XQHB, 274 Rue Maresca, Shanghai; XQHE, No. 9, Route Doumer, Shanghai; XMHC, Radio Sales and Service, 1729 Avenue Road, Shanghai; XQHA, Radio Shanghai, 80 Love Lane, Shanghai; XMHA, 445 Race Course, Shanghai; XHHA, 128 Museum Road, Shanghai; F'FZ, Alliance Francais, 193 Avenue Joffre, Shanghai; and XGOW, Hankow Municipal Government, Hankow, China."

From A Shut-In

"Will you please put me in touch with a reliable radio club?" requests Dan Wood, 760 Adams St., Apt. 22, Memphis, Tenn. "As a result of an auto accident, I am in bed most of the time and I have lots of time to write. I would like to correspond with other DXers and will guarantee to answer all letters received. I would especially like to hear from any foreign country, as I have visited many of them in my wanderings. Come on now and give a bed-ridden DXer a break!" All right, Radexers, let's get together and swamp Dan with letters!

"Here is the most ridiculous situation in the realm of radio," offers Jack McLaren, 515 Rathgar Ave., Winnipeg, Man. "Station XEAW is interfering with our local CKY to such an extent as to make reception of CKY positively annoying these nights. Local rumors have it that XEAW has a 500,000 watt transmitter which, as yet, is not using its full power. Anyhow, CKY claims to have been refused permission to change frequency and there you are."

"Pulling in the T.A.'s has been great fun for me so far this season," preambles Donald W. Reynolds, 9 Hudson View Terrace, Newburgh, N. Y. "The results of all of my lost sleep can be summarized as, 'A Week With The Europeans.' On Sunday, November 24th, Radio Budapest was heard between 5:00 and 6:00 p.m., EST. Although one of the most powerful transmitters in Europe, this station has a very weak signal in proportion to the others. Incidentally, DXers trying for HAL should do so in the evening, as reception of the early morning transmissions is almost impossible. Cologne is next on the trip up the dials and is best between 1:00 and 2:00 a.m. Careful tuning brings in Rome on 713 kcys, and reception is possible both in the early evening and morning. At 2:15, EAJ1 comes in on 795 kcys and, providing KGO doesn't overlap too much, has a good signal for about a half hour. From here, we skip to Berlin on 840, but find that the new XERA makes reception of this station out of the question. At 3:00, Radio Toulouse puts over a weak signal with excess fading.

"The following morning, the old alarm clock goes off at 2:00 and the radio warms up just in time to hear the familiar fanfare of Poste Parisien when they sign on at 2:10. Rennes is heard on 1040 at 2:18, to be followed by Bordeaux at 2:24. On the way up to catch Radio Normandie, a faint signal on 1104 proves to be Naples, Italy.

"Signals are at a peak on November 27th. Frankfurt is heard signing on at 1:00 a.m. on 1195 with an R8 wallop. The program consists of musical selections and makes it easy to obtain data for a report. This seems to be the best of the German stations in the morning.

"Through various sleepless nights, I have sent reports to Budapest, Lyons la Doua, Berlin, Horby, Turin, and Bordeaux. Veries back include Normandie. EAJ1, Poste Parisien,

West Regional, Brussels and Leipzig."

Quantity Versus Quality

In the December issue, we commented upon what seems to be a yearly race between the Courtesy Programs Committees of the various clubs. We suggested that the idea of attempting to schedule the greatest number of specials would work a double hardship on DXer and station alike. The response to this point seems to be entirely one-sided.

"Many of us old-time DXers read your CPC write-up with grins of delight," avers Henry T. Tyndall, Jr., 285 North St., Burlington, Vt. "We are pretty well fed up on the number of useless specials that flood the channels. Just as you say, it seems to be a race for totals with little regard for quality."

"It certainly would be fine for the DXer," states Randolph Hunt, P. O. Box 275, Encinitas, Cal., "if the clubs would agree to cut the number of DXes for next season in half. Also, they might refrain from asking for a special from a station which is on the monthly frequency check schedule, other than asking that the check be dedicated to them.

"The clubs to which I belong have so many DXes that I am bowled over when the lists arrive. I can't decide which programs to listen in on, with the result that I let a majority of them go unreported. I believe that a very small percentage of members can do justice to all of the clubs to which they belong. If a club would limit itself to about 200 special programs a year, it would still be a live-wire organization and members would be able to give proper support to the club as well as the stations."

"In my opinion, the whole field of arranging DX broadcasts will have to be re-organized," asserts Charles A. Morrison, president of the International DXers Alliance, Bloom-

ton, Ill. "The idea of any club arranging several hundred broadcasts and expecting their members to support each and every one is not only futile, but nonsensical. Better have a few broadcasts that will be outstanding and which will be carefully prepared from start to finish. Then, they could be widely publicized and supported in a deserving manner by a majority of club members."

"I am of your opinion that this scheduling of DX programs isn't very exciting to members of our club," writes the president of a prominent club. "In fact, the only specials that interest the BCB boys are the I.D.A. foreign specials."

From Joel H. Armantrout, "The South Georgia Sun-Dodger," 602 E. Magnolia St., Fitzgerald, Ga., comes the following pertinent news items: "T.P.'s far below their 1934 strength, but may pick up later. XEAW now signs off at 2:00 a.m., while XERA is another addition to the list of all-nighters. Others include WNEW, except Mondays, and KFOX, on until 4:00 a.m. XEMO has the best signal here of any of the Mexicans. WKEU advises that they will not verify at all. WHEF is audible here until 8:00 p.m. WWC has never been erected; permit was granted to Woiford College, but has never been acted upon."

Doctor Brinkley Again

"Referring to Dr. Brinkley's letter to Eric Butcher, as quoted in the December issue," greets Robert D. Wade, 3704 Tyler St., Amarillo, Texas, "I do not intend to slam XERA or any individual at any time. However, when any station takes a public-be-damned attitude and relates a story as written to Mr. Butcher, you know where they can go. Any person may send thirty-five cents for some pamphlet or a dollar for a fortune-teller, and the Mexican government won't confiscate the money. About the time KOA comes on with an intelligent news report, they are

covered with QRM from XERA and 'read all about it in my little book for 35c.' The same is true of WWL, whose fine musical programs are blotted out. I think it is about time to find out if reception of WWL and KOA in the South is to be ruined in such a manner."

According to the NNRC bulletin of December 23rd, the manager of XERA has informed CPC Chairman Louis Hahn that the present power of 300,000 watts will be jumped to a million! If conditions are bad now, what will reception be like then?

While XERA and Dr. Brinkley refuse to verify reports, they are perfectly willing to accept technical data from listeners. In fact, they request it. As soon as we heard the station, we wrote to the Doctor, requested a verification and asked for information to be used in our station lists. His reply is interesting:

"The station will not verify programs. We receive between 2000 and 3000 requests a week for verification. This would require quite an extensive department to handle, added expense to us, simply to satisfy a lot of curiosity. If you have time to listen to XERA sometime during the evening, I would appreciate your telling me how its signal compares with WLW, the distance of course being considered."

In other words, we'll take all you will give us, but try and get us to do something for you.

In Puerto Rico

"If anybody figures that my southern position makes reception easy from South America," proclaims Manuel A. Cadilla, P. O. Box 337, San Juan, P. R., "they are entirely wrong. As a matter of fact, the only S. A.'s heard down here regularly are YV6RV, YV1RC, YV3RC, and YV7RMO. Only the strongest Mexicans are heard and but five Cubans come in during the evening. The

dials are populated for the most part by the strong U.S.A. stations, with an occasional signal from CKAC for the only Canadian. If anybody can tell me why I cannot hear any S.A.'s with the exception of the Venezuela stations, even during test programs, I'd appreciate it."

Program Worth Tuning

"I have just completed (successfully) the annual battle for a DX program," greets H. J. McAllister, Announcer, Radio Station KVI, Tacoma, Wash., "and would appreciate a little item in RADEX. The program will run from midnight to 8:00 a.m., PST, on February 26th. This means that we will be on the air continuously for 42 hours. The program will feature dance orchestras in and around Tacoma, an organ recital from the Music Box Theater, and studio talent. A special feature will be the rebroadcasting of any exceptional long-distance telephone calls received. It is possible that the program will be re-broadcast by KGMB and that there will be inter-station clowning between KVI and KIRO at Seattle, although this is not definite. As usual, verifications of correct reports will be sent out for return postage."

A program of this nature is certainly worthy of the support and response of DXers everywhere. One outstanding broadcast like this is worth a hundred weekly programs featuring canned music.

Questions and Answers

(Continued from page 25)

tributor tells me there is nothing to be done except turn it in and get a new set. Is there anything that can be done to overcome this difficulty?"

The trouble described is likely due to the heating of the oscillator coils and condensers by some part near them—probably a high wattage resistor. Changing the position of parts is a very difficult task, not to be at-

tempted by any one not fully experienced in such service work. It is not a mechanical slipping of the dial parts.

It is possible that your trouble could be solved by use of a new oscillator tube, new oscillator coils, new oscillator fixed padding and trimmer condensers and new resistors, all associated with the oscillator circuit. Of course, this will cost considerable and perhaps the distributor does not care to do such experimental work. If you take the matter up with the engineering department of the Philco Company, Ontario and C Streets, Philadelphia, Pa., you may easily get permission to return the set to them for repairs. We have not heard of such troubles in the 16-B, and feel sure it is an individual failing on the short-wave bands.

THE MONTH'S CHANGES IN STATION DATA

North American Broadcasting

		NEW	
820	XEMZ	Coronado Isl., L. C.	
1000	XEBH	Hermosillo, Sonora	
1140	....	Springfield, Mass.	
1160	XESL	Tijuana, L. C.	
1200	....	Hartford, Conn.	
....	....	W. Palm Beach, Fla.	
1310	....	Lakeland, Fla.	
....	KPDN	Pampa, Texas	
1370	WEOA	Evansville, Ind.	
....	WHLB	Virginia, Minn.	
1500	....	Muskogee, Okla.	
		POWER	
500	WOW	Omaha, Nebr., 1000 to 5000	
630	CJGX	Yorkton, Sask., 500 to 1000	
1210	WGCM	Gulfport, Miss., 500 to 100	
1290	WNEJ	San Juan, P. R., 500 to 1000	
1370	WAGF	Dothan, Ala., 100 to 250	
1380	CMBX	Havana, Cuba, 150 to 500	
1450	WSAR	Fall River, Mass., 250 to 1000	
		FREQUENCY	
850	WKAR	E. Lansing, Mich., from 1040	
1310	CJKL	Kirkland Lake, Ont., from 530	
....	WAML	Laurel, Miss., from 1300	
		CALL	
780	KTM	Los Angeles, Calif., from KEHE	
920	WORL	Babson Park, Mass., from WBSO	
1200	WEST	Easton, Pa., from WKJC, Lancaster	
1370	WATL	Atlanta, Ga., from WJTL	
1420	WCHV	Charlottesville, Va., from WEHC	
		LOCATION	
1200	WEST	Easton, Pa. from WKJC, Lancaster. Pa.	
		DELETED	
1210	KWEA	Shreveport, La.	
1420	WVC	Spartanburg, S. C.	
1500	KPJM	Prescott, Ariz.	
....	....	Valley City, N. Dak.	

THE MONTH'S CHANGES

In Foreign Broadcasting Stations

NEW

800	FJC	Noumea, New Caledonia, .6 kw.
900	....	Suanghai, China, .5 kw.
1050	JOHG	Kagoshima, Japan, .5 kw.
1060	JOIG	Toyama, Japan, .5 kw.
1185	....	Nice-Corse, France, 60. kw.
1249	....	Saarbruecken, Germany, .7 kw.
1310	XLIP	Suebow, China, .05 kw.
1429	....	Radio-Midi, France, 1.5 kw.
1450	XGOM	Tientsin, China, .015 kw.

POWER

690	....	Paris, France, 7000 to 120,000
740	....	Marselle, France, 5000 to 1600
760	XLHJ	Shanghai, China, 15 to 100
950	NGOP	Peiping, China, 280 to 300
968	....	Bordeaux, France, 1000 to 3000
990	XGOD	Hangechow, China, 1000 to 2000
1068	....	Paris, France, 2000 to 800
1300	OAX4C	Lima, Peru, to 1000
1393	....	Radio-Lyons, France, 5000 to 25,000
1456	....	Eiffel Tower, France, 5000 to 20,000

FREQUENCIES

580	3AR	Melbourne, from 630
620	XHHK	Shanghai, from 1420
710	7NT	Keiso, from 750
895	Limoges, from 913
968	Bordeaux, from 1345

LOCATION

720	CW9	Colonia, Uruguay, from Brazil
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CALLS

880	YV3RC	from YV2RC
1270	XLIIH	from XDYF

DELETE

580	Lisbon, Port.
620	ZEK	Hong Kong
1429	....	Bezers
....	....	Radio LI, Paris
1450	XOMO	Peiping

letters from readers who inquire why they fail to receive verifications from certain stations while others have no difficulty getting a QSL from the same station. We quote here a part of a typical letter, and although the writer probably did not realize it, the answer to his problem is included with his own question.

"Some stations that have failed to verify after two to three months are TIEP, CT1AA, HC1FG, LU5CZ, YVQ, HIZ, DJC, and many others. VP2CD, an amateur, refused my CARD and returned it." All these stations are very good at answering listeners' correct reports so the trouble must be the fact that they do not like to read postal cards.

With the Editor

(Continued from page 15)

Cherry & Webb department store which already operates WPRO.

Continental Radio Co., owned by the Scripps-Howard Newspapers, has applied for the assignment of the license of WNOX, Knoxville, Tenn. The station was purchased recently for around \$75,000.

Carl Sylvester, Box 213, Yale, Mich., writes that all of our readers should try to tune in CFCO, Chatham, Ont., on their regular Sunday morning DX broadcasts from 10:15 to 10:45 EST. Items from RADEX are read and discussed. Carl reports that it is a fine program.

A Few "Ifs"

If two stations are on the same frequency and both are strong enough to be received, no set can separate them.

If a station fades badly, noise will rise and fall, even though automatic volume control keeps the level up.

If electrical noise at the antenna is as strong as the signal, no radio can eliminate it.

The Short Waves

(Continued from page 21)

nearly every evening with a strong signal from about 1815 to 1845 CST, playing music and calling other stations. JVN is heard well at 11 pm, 2300 CST, on the Overseas Broadcast. I have heard WTR at Albrook Field, Canal Zone, and IS3 at Bolling Field, Va."

"I receive the D-stations the year around on my two-year old Stewart-Warner radio," reports Carl Goulet, Box 195, Dalhousie, N. B. "I wonder if any readers have heard the 100 kw. Paris station yet." Mr. Goulet plans to own a radio broadcasting station and would like to correspond with someone in broadcasting.

A large part of our mail includes

The First Prize

The winner of the Mystery Contest will be an exceedingly lucky man. The Scott Radio Laboratories have offered to the Grand Winner of this Contest, one of their famous radio receivers.

The Scott set was described in these pages by Mr. Dashiell in the October, 1935, issue. In the last number, January, 1936, R. H. Tomlinson of Port

Chester, New York, described the results he had achieved with his new Scott High Fidelity.

Anyone who reads these two articles will go after this wonderful first prize with might and main.

As we go to press, word comes from the manufacturers of Raytheon tubes that they will award a full replacement set of these famous tubes to one of the contestants.

Change in Frequency Check Schedule

A SWEEPING revision of the monthly frequency check schedule has been announced by the Federal Communications Commission. Advancing the regular series of monitoring tests to the **SECOND WEEK** of each month, the F. C. C. has also **eliminated** all Sunday check programs. Of particular interest to DXers is the consolidation of test broadcasts into a more compact schedule, with the result that western stations which formerly transmitted between 6:00 and 8:00 a.m., EST, may now be heard before sunrise in the eastern states.

RADEX is indebted to the NNRC and NRC for the following complete schedule, and it is suggested that readers keep this list for future reference.

Monday Mornings

February 10

2:00-2:20	WLNH 1310	Laconia, N. H.
	WJBO 1420	Baton Rouge, La.
2:10-2:30	WBRB 1210	Red Bank, N. J.
	WHBB 1500	Selma, Alabama
2:20-2:40	WMAS 1420	Springfield, Mass.
	WIOD 1300	Miami, Fla.
2:30-2:50	WWRL 1500	Woodside, N. Y.
	WJBW 1200	New Orleans, La.
2:40-3:00	WORO 1430	Albany, N. Y.
	WMBR 1370	Jacksonville, Fla.
2:50-3:10	WCAX 1200	Burlington, Vt.
	WOPJ 1500	Hristol, Tenn.
3:00-3:20	KTRH 1290	Houston, Texas
	WMBO 1310	Auburn, N. Y.
	WNRA 1420	Sheffield, Ala.
3:10-3:30	WOC 1370	Davenport, Ia.
	WCAD 1220	Canton, N. Y.
	WMFN 1210	Clarksdale, Miss.
3:20-3:40	KWLC 1270	Decorah, Iowa
	WMBQ 1500	Brooklyn, N. Y.
	WNBR 1430	Memphis, Tenn.
3:30-3:50	KFPW 1210	Fort Smith, Ark.
	WMFF 1310	Plattsburg, N. Y.
	WDBO 580	Orlando, Fla.

3:40-4:00	KABC 1420	San Antonio, Tex.
	WQDM 1370	St. Albans, Vt.
	WSMB 1320	New Orleans, La.
3:50-5:10	KADA 1200	Ada, Okla.
	WHEF 1500	Kosciusko, Miss.
4:00-4:20	KFDM 560	Beaumont, Tex.
	WCAP 1280	Asbury Park, N. J.
	KLS 1440	Oakland, Cal.
	WAGF 1370	Dothan, Ala.
4:10-4:30	WHDL 1420	Olean, N. Y.
	KORJ 1310	Jerome, Ariz.
	KMLB 1300	Monroe, La.
4:20-4:40	KLUF 1370	Galveston, Tex.
	WDEV 550	Waterbury, Vt.
	KQDM 1100	Stockton, Calif.
	WDNC 1500	Durham, N. C.
4:30-4:50	KROC 1310	Rochester, Minn.
	WFAS 1210	White Plains, N. Y.
	KGAR 1370	Tucson, Ariz.
	KALB 1420	Alexandria, La.
4:40-5:00	KGMB 1320	Honolulu, T. H.
	WBNO 1200	New Orleans, La.
4:50-5:10	KRE 1370	Berkeley, Calif.
	WJBR 1420	Gastonia, N. C.
5:00-5:20	KIEM 1450	Eureka, Calif.
	WGCM 1120	Gulfport, Miss.
5:10-5:30	KDON 1210	Del Monte, Calif.
	WTAL 1310	Tallahassee, Fla.
5:20-5:40	KUMA 1420	Yuma, Ariz.
5:30-5:50	KWG 1200	Stockton, Calif.

Tuesday Mornings

February 11

2:00-2:20	WBAX 1210	Wilkes-Barre, Pa.
2:10-2:30	WDAS 1370	Philadelphia, Pa.
2:20-2:40	WBBL 1210	Richmond, Va.
2:30-2:50	WPBG 1310	Altamaha, Pa.
2:40-3:00	WMBG 1210	Richmond, Va.
2:50-3:10	WEBR 1310	Buffalo, N. Y.
3:00-3:20	KGFK 1500	Moorhead, Minn.
	KFIZ 1420	Fond du Lac, Wisc.
	WLVA 1200	Lynchburg, Va.
3:10-3:30	KPAC 1260	Port Arthur, Tex.
	WOMT 1210	Manitowoc, Wisc.
	WBTM 1370	Danville, Va.
3:20-3:40	WKRC 550	Cincinnati, Ohio
	WHEC 1430	Rochester, N. Y.
3:30-3:50	WNAD 1010	Norman, Okla.
	WMBC 1420	Detroit, Mich.
	WRAK 1370	Williamsport, Pa.
3:40-4:00	KFVS 1210	Cape Girardeau, Mo.
	WTAD 900	Quincy, Ill.
	WJAC 1310	Johnstown, Pa.
3:50-4:10	WTAW 1120	College Station, Tex.
	WBNS 1430	Columbus, Ohio
	WBNY 1370	Buffalo, N. Y.
4:00-4:20	WCOL 1210	Columbus, Ohio
	KOOS 1390	Marshfield, Ore.
	WBRE 1310	Wilkes-Barre, Pa.

4:10-4:30	KLPM 1240	Minot, N. D.	3:00-3:20	KGKO 570	Wichita Falls, Tex.
	WPAY 1370	Portsmouth, Ohio		WCPO 1200	Cincinnati, Ohio
	KPQ 1500	Wenatchee, Wash.		WQAN 880	Seranton, Pa.
	WPAR 1420	Parkersburg, W. Va.	3:10-3:30	KFYO 1310	Lubbock, Tex.
4:30-4:40	KRMD 1310	Shreveport, La.		WGL 1370	Fort Wayne, Ind.
	WCLO 1200	Janesville, Wis.		WLEU 1420	Erle, Pa.
	KFIO 1120	Spokane, Wash.	3:20-3:40	KGFI 1500	Corpus Christi, Tex.
	WSYR 570	Syracuse, N. Y.		WIBU 1210	Poyhette, Wisc.
4:30-4:50	KGCA 1270	Decorah, Iowa	3:30-3:50	KGFL 1370	Roswell, N. M.
	WJAY 610	Cleveland, Ohio		WBCM 1410	Bay City, Mich.
	KORE 1420	Eugene, Ore.		WSAJ 1310	Grove City, Pa.
	WNBF 1500	Binghamton, N. Y.	3:40-4:00	KGGM 1230	Albuquerque, N. M.
4:40-5:00	KFJMS 1370	Grand Forks, N. D.		WJBC 1200	Bloomington, Ill.
	WHBC 1200	Canton, Ohio	3:50-4:10	KGHF 1320	Pueblo, Colo.
	KGBU 900	Ketchikan, Alaska		WLAP 1420	Lexington, Ky.
	WGH 1310	Newport News, Va.	4:00-4:20	KGHI 1200	Little Rock, Ark.
4:50-5:10	KRLH 1420	Midland, Texas		WSMK 1380	Dayton, Ohio
	WHK 1390	Cleveland, Ohio		KXO 1500	El Centro, Calif.
	KGVO 1260	Missoula, Mont.	4:10-4:30	KGIV 1420	Alamosa, Colo.
	WWSW 1500	Pittsburgh, Pa.		WJIM 1210	Lansing, Mich.
5:00-5:20	WSPD 1340	Toledo, Ohio		KJBS 1070	San Francisco, Calif.
	KMED 1310	Medford, Ore.	4:20-4:40	KGKB 1500	Tyler, Texas
	WSAY 1210	Rochester, N. Y.		WBOW 1210	Terre Haute, Ind.
5:10-5:30	KNET 1420	Palestine, Texas		KGU 750	Honolulu, T. H.
	WAVE 940	Louisville, Ky.	4:30-4:50	KGKL 1370	San Angelo, Tex.
	KAST 1370	Astoria, Ore.		WCBS 1420	Springfield, Ill.
5:20-5:40	KWKK 1370	Kansas City, Mo.		KSUN 1200	Lowell, Ariz.
	WXYZ 1240	Detroit, Mich.	4:40-5:00	WDAH 1310	El Paso, Texas
	KFJL 1210	Klamath Falls, Ore.		WTMV 1500	E. St. Louis, Ill.
5:30-5:50	KIDW 1420	Lamar, Colo.		KHSL 950	Chicago, Calif.
	WGAR 1450	Cleveland, Ohio	4:50-5:10	WHBF 1210	Rock Island, Ill.
	KGCC 1310	Wolf Point, Mont.		KERN 1370	Bakersfield, Calif.
5:40-6:00	WCAT 1200	Rapid City, S. D.	5:00-5:20	WTRC 1310	Elkhart, Ind.
	KQV 1380	Pittsburgh, Pa.		KHBC 1420	Hilo, T. H.
			5:10-5:30	WWAE 1200	Hammond, Ind.
			5:20-5:40	WIBM 1370	Jackson, Mich.
			5:30-5:50	WALR 1210	Zanesville, Ohio

Wednesday Mornings

February 12

2:00-2:20	WMFJ 1420	Daytona Beach, Fla.
2:10-2:30	WAIM 1200	Anderson, S. C.
2:30-2:40	KVOL 1310	Lafayette, La.
2:50-2:50	WHBQ 1370	Memphis, Tenn.
2:40-3:00	WKAQ 1240	San Juan, P. R.
2:50-3:10	WSJS 1310	Winston-Salem, N. C.
3:00-3:20	KABR 1420	Aberdeen, S. D.
	WFAN 1200	South Bend, Ind.
	WMFD 1370	Wilmington, N. C.
3:10-3:30	KLCN 1290	Blytheville, Ark.
	WPAX 1210	Thomasville, Ga.
3:20-3:40	KFPL 1310	Dublin, Tex.
	WKBN 570	Youngstown, Ohio
	WRDW 1500	Augusta, Ga.
3:30-3:50	KGBX 1230	Springfield, Mo.
	WELL 1420	Battle Creek, Mich.
	WQBC 1360	Vicksburg, Miss.
3:40-4:00	KFXJ 1200	Grand Jet, Colo.
	WADC 1320	Akron, Ohio
	KPLC 1500	Lake Charles, La.
3:50-4:10	KARK 890	Little Rock, Ark.
	WOSU 570	Columbus, Ohio
	WGPC 1420	Albany, Ga.
4:00-4:20	KFJZ 1370	Fort Worth, Tex.
	WHBU 1210	Anderson, Ind.
4:10-4:30	WLB 1250	Minneapolis, Minn.
	WBEO 1310	Marquette, Mich.
4:20-4:40	KSO 1430	Des Moines, Ia.
	WMPC 1200	Lapeer, Mich.
4:30-4:50	WHLB 1370	Virginia, Minn.
	WEXL 1310	Royal Oak, Mich.
4:40-5:00	WJMS 1420	Ironwood, Mich.
4:50-5:10	KFXR 1310	Oklahoma City, Okla.
	WTAX 1210	Springfield, Ill.
5:00-5:20	KFJB 1200	Marshalltown, Ia.
	WEOA 1370	Evansville, Ind.
5:10-5:30	WDLZ 1020	Tuscola, Ill.
5:20-5:40	KELD 1370	El Dorado, Ark.
5:30-5:50	KDLR 1210	Devils Lake, N. D.

Thursday Mornings

February 13

2:00-2:20	WBSV 1270	Buffalo, N. Y.
2:10-2:30	WKOK 1210	Sunbury, Pa.
2:20-2:40	WRAW 1310	Reading, Pa.
2:30-2:50	WOCL 1210	Jamestown, N. Y.
2:40-3:00	WTEL 1310	Philadelphia, Pa.
2:50-3:10	WHIS 1410	Bluefield, W. Va.

Friday Mornings

February 14

2:00-2:20	WGNV 1210	Chester, N. Y.
2:10-2:30	WCNW 1500	Brooklyn, N. Y.
2:20-2:40	WGBB 1210	Freeport, N. Y.
2:30-2:50	WABY 1370	Albany, N. Y.
2:40-3:00	WNRI 1200	Newport, R. I.
2:50-3:10	WSYB 1500	Rutland, Vt.
3:00-3:20	KICA 1370	Cloviss, N. M.
	WHBQ 1210	Harrisburg, Ill.
3:10-3:30	WACO 1420	Waco, Texas
	WLBC 1310	Muncie, Ind.
3:20-3:40	WEW 760	St. Louis, Mo.
	WKBB 1500	E. Dubuque, Ill.
	WLBX 1200	Utica, N. Y.
3:30-3:50	KUOA 1420	Fayetteville, Ark.
	WHDF 1370	Calumet, Mich.
	WAGM 1420	Presque Isle, Mich.
3:40-4:00	KIUI 1310	Santa Fe, N. M.
	WJW 1210	Akron, Ohio
	WNBZ 1290	Saranac Lake, N. Y.
3:50-4:10	WMBH 1420	Joplin, Mo.
	WJBK 1500	Detroit, Mich.
	WRDO 1370	Augusta, Me.
4:00-4:20	KIUL 1210	Garden City, Kans.
	WCOM 1310	Ashland, Ky.
4:10-4:30	WLBK 1420	Kansas City, Kans.
	WCAZ 1070	Carthage, Ill.
4:20-4:40	WMPG 1210	Hibbing, Minn.
	WTAQ 1330	Eau Claire, Wisc.
4:30-4:50	KIUP 1370	Durango, Colo.
	WPAD 1420	Paducah, Ky.
4:40-5:00	KNOW 1500	Austin, Tex.
4:50-5:10	EGDE 1200	Fergus Falls, Minn.
5:00-5:20	KIUN 1420	Pecos, Texas
5:10-5:30	KGEB 1200	Sterling, Colo.
5:20-5:40	KMAC 1370	San Antonio, Tex.
5:30-5:50	WTL 1200	St. Louis, Mo.
5:40-6:00	KGFG 1370	Oklahoma City, Okla.

Saturday Mornings

February 15

2:00-2:20	WMFR 1200	High Point, N. C.
2:10-2:30	WMFO 1270	Decatur, Ala.
2:20-2:40	WBOC 1310	Charlotte, N. C.
2:30-2:50	WTJS 1310	Jackson, Tenn.

2:40-3:00	WSIX	1210	Springfield, Tenn.	4:10-4:30	KFQD	780	Anchorage, Alaska
2:50-3:10	WROL	1310	Knoxville, Tenn.		KONO	1370	San Antonio, Texas
3:00-3:20	KOTN	1500	Pine Bluffs, Ark.		WKBZ	1500	Muskegon, Mich.
	WQAM	560	Miami, Fla.		KVOS	1200	Bellingham, Wash.
3:10-3:30	KWYO	1370	Sheridan, Wyo.	4:20-4:40	KTSM	1310	El Paso, Texas
	WCLS	1310	Joliet, Ill.		KRLC	1420	Lewiston, Idaho
	WPRP	1420	Ponce, P. R.	4:30-4:50	KWEA	1210	Shreveport, La.
3:20-3:40	KGCU	1240	Mandan, N. D.		KUJ	1370	Walla Walla, Wash.
	WHBY	1200	Green Bay, Wis.	4:40-5:00	KCMC	1420	Texarkana, Ark.
	WNEL	1200	San Juan, P. R.		KRRR	1500	Roseburg, Ore.
3:30-3:50	KXYZ	1440	Houston, Texas	4:50-5:10	KWTN	1210	Watertown, S. D.
	WKBV	1500	Richmond, Ind.		KVL	1370	Seattle, Wash.
	WAML	1310	Laurel, Miss.	5:00-5:20	KGGF	1420	Shawnee, Okla.
3:40-4:00	KRGV	1260	Weslaco, Texas		KIT	1310	Yakima, Wash.
	WJBL	1200	Decatur, Ill.	5:10-5:30	KBTM	1200	Jonesboro, Ark.
	WPFB	1370	Hattiesburg, Miss.		KRKO	1370	Everett, Wash.
3:50-4:10	KNEL	1500	Brady, Texas	5:20-5:40	KFRQ	1370	Longview, Texas
	WGBF	630	Evansville, Ind.		KGNZ	1310	Kallispell, Mont.
	WEED	1420	Rocky Mount, N. C.	5:30-5:50	KPXD	1200	Nampa, Idaho
4:00-4:20	KVSO	1210	Ardmore, Okla.	5:40-6:00	KXRO	1310	Aberdeen, Wash.
	WFDF	1310	Filnt, Mich.	5:50-6:10	KGY	1210	Olympia, Wash.
				6:00-6:20	KINY	1310	Juneau, Alaska

The February DX Calendar

Special programs arranged by the stations for the benefit of distant listeners. The list of F. C. C. frequency check programs in detail may be found in the December issue. All times are in Eastern Standard in order that the programs may be arranged chronologically.

Sunday Mornings			
February 2			
2:00- 3:00	CJLS	1310	Yarmouth, N.S. NNRC
2:00- 4:00	CHAB	1200	Moose Jaw, Sask. NNRC
2:00- 4:00	WMMN	890	Fairmont, W. Va.
3:00- 4:00	CHSJ	1120	St. John, N.B. NRC
3:00- 4:00	XEFL	1150	Tijuana, L.C. URDXC
3:00- 6:00	FCC		Frequency Check
February 9			
1:00- 2:00	CMKC	1250	Santiago, Cuba URDXC
1:00- 2:00	KGGC	1420	San Francisco, Cal.
2:00- 3:00	KIUN	1420	Pecos, Texas
2:30- 4:30	KID	1320	Idaho Falls, Idaho NNRC
3:00- 4:00	KI'RO	1370	Longview, Texas NNRC
3:00- 5:00	CFCT	1450	Victoria, B.C. CDXR
3:00- 5:00	WEEU	830	Reading, Pa.
4:00- 5:00	CFJC	880	Kamloops, B. C. NNRC
4:00- 6:00	KVOL	1310	Lafayette, La. CDXR
4:00- 6:00	WTRC	1310	Elkhart, Ind.
February 16			
1:00- 1:30	WICC	600	Bridgeport, Conn. CDXR
1:00- 2:00	WHAZ	1300	Troy, N. Y. UDNC
1:00- 5:00	CMBX	1350	Havana, Cuba UDNC
2:00- 3:00	WPFB	1370	Hattiesburg, Miss. NNRC
2:30- 3:30	KFRQ	1370	Longview, Texas CDXR
3:00- 4:00	KGW	620	Portland, Ore. CDXR
3:00 on	KVI	570	Tacoma, Wash.
4:00- 5:00	CHML	1010	Hamilton, Ont. CDXR
4:00- 5:00	WGBF	630	Evansville, Ind. CDXR
4:00- 6:00	WTRC	1310	Elkhart, Ind.
February 23			
12:01- 3:00	WPAR	1420	Parkersburg, W. Va. CDXR
1:00- 2:00	CMKC	1250	Santiago, Cuba NRC
2:00- 3:00	CP4	1040	La Paz, Bolivia NNRC
2:00- 6:00	RADEX		MYSTERY DX CONTEST
3:00- 4:00	XEFL	1150	Tijuana, L.C.
3:00- 4:30	WBIR	1300	Brooklyn, N.Y.
4:00- 6:00	KVOL	1310	Lafayette, La.
February 23			
2:00- 4:00	WJBO	1420	Baton Rouge, La.
February 2, 9, 16, 23			
1:00- 3:00	CMFA	1010	Camaguey, Cuba
1:00- 5:00	KIUP	1370	Ourango, Colo.
2:00- 4:00	XEWZ	1150	Mexico City, D.F.
3:00- 4:00	CKWX	1010	Vancouver, B. C.
3:00- 4:30	KROV	630	Kelowna, B.C.
Monday Mornings			
February 3			
2:45- 3:00	KUJ	1370	Walla Walla, Wash.
3:00- 4:00	XEFI	1440	Chihuahua, Chi. CDXR
5:00 on	WSYR	570	Syracuse, N. Y. URDXC

February 10			
2:00- 8:30	FCC		Frequency Checks
3:00- 3:30	KID	1320	Idaho Falls, Idaho
4:30- 6:00	CKNX	1200	Wingham, Ont.
6:00- 6:30	KFBT	1050	Ablene, Kans.
February 24			
2:00- 6:00	RADEX		MYSTERY DX CONTEST
February 3, 10, 17, 24			
12:01- 2:00	CMHW	810	Cienfuegos, Cuba
1:00- 2:00	WGES	1360	Chicago, Illinois
Tuesday Mornings			
February 4			
3:00- 4:00	WNEL	1290	San Juan, P.R.
February 11			
2:00- 7:20	FCC		Frequency Checks
3:00- 4:00	KRE	1370	Berkeley, Cal. NNRC
February 18			
1:00- 4:00	WDAY	940	Fargo, N. D.
1:41- 1:49	CFGY	630	Charlottetown, P.E.I.
2:00- 3:30	KIUL	1210	Garden City, Kans.
February 25			
2:30- 4:00	KADA	1200	Ada, Oklahoma
February 4, 11, 18, 25			
1:00- 2:00	WLEP	1500	Kosciusko, Miss.
2:00- 3:00	XEFB	1420	Monterrey, N. L.
3:00- 4:00	KFKM	1210	San Bernardino, Cal.
5:00- 5:15	WBNS	1430	Columbus, Ohio
Wednesday Mornings			
February 5			
1:00- 1:30	WEBC	1290	Superior, Wis.
2:15- 2:45	WTBO	800	Cumberland, Md.
3:00- 5:10	WIRE	1400	Indianapolis, Ind.
February 12			
2:00- 6:00	FCC		Frequency Checks
2:30- 3:00	WHBQ	1370	Memphis, Tenn. NNRC
February 19			
1:01- 1:09	CRCS	950	Chicoutimi, P.Q.
1:11- 1:19	CJCB	1210	Sydney, N.S.
1:21- 1:29	CHNS	930	Halifax, N.S.
1:31- 1:39	CHRC	580	Quebec, P.Q.
1:41- 1:49	CFCY	630	Charlottetown, P.E.I.
1:51- 1:59	CJLS	1310	Yarmouth, N.S.
2:00- 2:30	KWTO	560	Springfield, Mo.
2:11- 2:19	CHSJ	1120	St. John, N.B.
2:30- 3:00	WCMI	1310	Ashland, Ky.
2:31- 2:39	CKCW	1370	Moncton, N.B.
3:00- 4:00	WAZL	1420	Hazleton, Pa.
3:00- 6:00	WOPI	1500	Bristol, Tenn. CDXR
3:01- 3:09	CHNC	1410	New Carlisle, P.Q.
4:00- 5:00	WIL	1200	St. Louis, Mo.

February 26
 2:00-3:00 WOC 1370 Davenport, Ia. NNRC
 3:00-4:00 WLXBS 1530 Waterbury, Conn.
 3:00-4:00 WNEL 1290 San Juan, P.R.

February 12, 26
 6:00-6:30 WOOD 1270 Grand Rapids, Mic. COXR

February 5, 12, 19, 26
 12:01-1:00 WOWO 1160 Fort Wayne, Ind.
 1:30-2:00 WKBB 1500 East Dubuque, Ill.
 4:30-4:45 WCAL 1250 Northfield, Minn.

Thursday Mornings
February 6
 2:00-3:00 KFRO 1370 Longview, Texas NNRC

February 13
 2:00-6:20 FCC Frequency Checks
 2:15-2:30 WLLH 1370 Lowell, Mass.

February 20
 1:01-1:09 CRCS 950 Chicoutimi, P.Q.
 1:11-1:19 CJCJ 1240 Sydney, N.S.
 1:21-1:29 CHNS 930 Halifax, N.S.
 1:31-1:39 CHRC 580 Quebec, P.Q.
 1:51-1:59 CJLS 1310 Yarmouth, N.S.
 2:00-3:00 WRUF 830 Gainesville, Fla. UDNC
 2:01-2:09 CFNB 550 Fredericton, N. B.
 2:11-2:19 CHSJ 1120 St. John, N.B.
 3:00-4:00 CMHJ 1160 Cienfuegos, Cuba UDNC
 3:01-3:09 CHNC 1410 New Carlisle, P.Q.
 3:15-3:30 KGGM 1230 Albuquerque, N.M.

February 27
 4:00-4:30 KGKY 1500 Scottsbluff, Neb.
 5:10-6:00 WFLA 620 Clearwater, Fla.
 5:30-6:00 WRAW 1310 Reading, Pa. GCDXC

February 6, 13, 20, 27
 12:30-1:15 KLRA 1390 Little Rock, Ark. MCDNE

Friday Mornings
February 7
 2:00-3:00 KDYL 1290 Salt Lake City CDXR

February 14
 2:15-2:45 KPof 880 Denver, Colo.
 3:00-6:30 FCC Frequency Checks

February 21
 1:31-1:39 CJKL 530 Kirkland Lake, Ont.
 2:01-2:09 CFNB 580 Fredericton, N.B.

February 28
 1:00-1:15 KPFC 920 Houston, Texas
 1:00-1:15 WLLH 1370 Lowell, Mass.
 2:15-2:30 WCSH 940 Portland, Me.
 4:00-5:00 WKAQ 1240 San Juan, P.R. NNRC

February 7, 14, 21, 28
 12:01-2:00 CFNC 1030 Calgary, Alta.

Saturday Mornings
February 1
 3:00-4:00 CHAB 1200 Moose Jaw, Sask. CDXR
 3:00-4:00 WOI 640 Ames, Iowa CDXR
 4:30-5:30 CKNX 1200 Wingham, Ont. CDXR

February 8
 5:00-6:00 WOV 1130 New York, N. Y. CDXR

February 15
 Frequency Checks
 2:30-4:00 CX26 1050 Montevideo, Ur. NNRC
 3:30-4:30 KIDW 1420 Lamar, Colo.
 4:00-4:30 KFNF 890 Shenandoah, Iowa

February 22
 2:00-6:00 RADEX MYSTERY DX CONTEST
 3:00-4:00 KYA 1230 San Francisco, Cal. CDXC
 4:00-5:00 WHJB 620 Greensburg, Pa. GDXR

February 29
 2:00-3:00 WHP 1430 Harrisburg, Pa. CDXR
 2:30-3:30 WTFI 1450 Athens, Ga. CDXB

February 1, 8, 15, 22, 29
 12:30-3:00 KLRA 1390 Little Rock, Ark. MCDNE
 2:00-3:00 XFFB 1420 Monterrey, N. L.
 5:00-6:00 WMFO 1370 Decatur, Ala. NNRC
 6:00-7:00 WHDL 1420 Olean, N. Y.
 7:00-8:00 WBCB 1210 Chicago, Ill. NNRC

WHAT'S ON THE AIR TONIGHT

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

COLUMBIA (C)	
Call	Dial

NATIONAL, Red (R)	
Call	Dial

NATIONAL, Blue (B)	
Call	Dial

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

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

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

MONDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
C — The Goldbergs
 KFJH KGKO KMBC KRDL KRNT
 KSCJ KTRH KTSK KVOR KWKH
 WAAB WABC WACO WBNS WBRC
 WBT WCAO WCCO WHAS WBBW
 WJAS WJR WKBW WKRC WMBD
 WOC WREC

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Buck Rogers 25th Century
 KFAH KMBC KMOM KRDL KINT
 WAAB WABC WBBM WCAO WCAU
 WCCO WFBL WHAS WHK WJAS

WJR WJSV WKBW WKRC WOKO
E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Bobby Benson—Sunny Jim
 WAAB WABC WCAU WDRC WEAN
 WFBL WGR WHEC WOKO

E-6:45 p.m., C-5:45, M-4:45, P-3:45
B — Lowell Thomas
 CRCT KDKA WBAL WBZ WBZA
 WFLA WIOD WJAX WJZ WLW
 WMAL WOOD WRVA WSYR WTAM
 WXYZ

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge
 WABC WADC WBT WCAO WCAU

WDAE WDBO WDRC WEAN WFBL
 WGR WHK WJAS WJR WJSV WKRC
 WNAC WOKO WQAM WSPD, WTOC
 WWVA

C — Buck Rogers 25th Century
 KDB KERN KFBK KFPY KFRC
 KGH KHJ KLZ KMJ KOIN KOL
 KSL KVI KWG

R — Amos 'n' Andy
 CRCT KSD KYW WBBN WCAE
 WCSH WEAF WEEI WFBR WGY
 WJAR WLW WRC WTAG WTAM
 WTIC WWJ

MONDAY (Continued)

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

C — Ted Husling and Characters
CFRB KDB KERN KFAB KFBK
KFPY KPRC KGB KHJ KLZ KMJ
KQIN KOI KSL KVI KWG WABC
WBBM WCAO WCAU WCCO WEAN
WFBL WFBM WGR WJAS WJSV
WKRC WNAC WOKO

R — Uncle Ezra's Radio Station
KYW WBNB WCAE WCSH WDAF
WDAF WEEF WFBL WGY WHIO
WIRE WJAR WMAQ WOW WRC
WSAI WTAG WTAM

B — Ivory Stamp Club
KDKA KOIL KSO KWK WBAL WBZ
WBZA WCKY WENR WFL WGAR
WHAM WJZ WMAL WMT WSYR
WXYZ

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

C — Singing Sam
KFAB KMOX KRNT WABC WADC
WBBM WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WHAS
WIK WJAS WJR WJSV WKRC
WNAC WOKO WSPD

B — Lum and Abner
WBZ WBZA WENR WGAR WJZ
WLV WSYR

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

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

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

C — Guy Lombardo and Orchestra
KLRA KWKH WABC WBIG WBT
WCAO WCAU WCHS WCSW WDBJ
WDNC WDOD WDRC WEAN WFBL
WFBL WGR WHBC WHP WHBZ
WICC WJAS WJSV WLAC WLZ
WMAS WMBG WNAC WNBW WNOX
WOKO WORC WPG WRDC WSJS
WVL WVVVA

R — Hammerstein's Music Hall
KSD KYW WBNB WCAE WCSH
WDAF WDAF WEEF WFBM WGY
WHIO WHIO WJAR WMAQ WOW
WRC WSAI WTAG WTAM WTIC
WWJ

B — Fibber McGee and Molly
KDKA KDYL KFI KFSB KFYR
KGW KHQ KOA KOIL KOMO KPO
KPRC KSO KSTP KTBS KVOO
WAVE WBAL WBBZ WBZA WCKY
WDAY WEBC WFAA WFIL WGAR
WHAM WIBA WIRE WJDX WJZ
WKY WLS WMAL WMC WMT
WOAI WREN WSB WSM WSMB
WSYR WTAM WXYZ

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

C — Pick and Pat
KFAB KMBK KMOX KRNT KSCJ
WABC WADC WBBM WCAO WCAU
WDRG WEAN WFBL WFBM WGR
WGST WHAS WHBC WIK WJAS
WJR WJSV WKRC WMAS WNAC
WOKO WORC WSPD

R — Voice of Firestone
CFRC CRCT KFYR KPRC KSD
KSTP KTBS KVOO KYW WAVE
WBNB WCAE WCSH WDAF WDAY
WEAF WEBC WEEF WFAA WFBM
WFLA WGY WHO WHIO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOW WPTF WRC WRVA WSB

WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

B — Evening in Paris

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

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

C — Lux Radio Theatre
CFRB CKAC KDB KERN KFAB
KFBK KFPY KPRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KQIN KOL KOMA KRLD KRNT
KSL KTRH KTSa KTUL KVI KWG
WABC WADC WBBM WBNB WBRG
WBT WCAO WCAU WCCO WDAE
WDBJ WDRC WEAN WFBL WFBM
WGST WHAS WHBC WIK WICC
WISN WJAS WJR WJSV WKBW
WKRC WLAC WNAC WNAK WOKO
WORC WQAM WRFC WSPD WWL

R — A. & P. Gypsies

KSD KYW WBNB WCAE WCSH
WDAF WDAF WEEF WGY WHIO
WHIO WIRE WJAR WMAQ WOW
WRC WSAI WTAG WTAM WTIC
WWJ

B — Sinclair Greater Minstrels

KDKA KDYL KFYR KOA KOIL
KPRC KSO KSTP KTBS KTHS
KVOO KWK WHAL WBZ WBZA
WDAY WEBC WFAA WFLA WGAR
WHAM WIBA WIOD WIS WJAX
WJDX WJZ WKY WLS WLW WMAL
WMC WMT WOAI WPTF WREN
WRVA WSB WSM WSMB WSOC
WSUN WSYR WTAR WTMJ WWNC
WXYZ

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

R — Grace Moore
KDYL KFI KFSB KFYR KGHL
KGRH KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KVOO KYW WAVE WBNB WCAE
WCSH WDAF WDAY WEAF WEHC
WEEF WFBR WFLA WGY WHO
WHIO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WLW
WMAQ WMC WOAI WOW WPTF
WRC WRVA WSB WSM WSMB
WSOC WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

B — Princess Pat Players

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

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

C — Wayne King and Orchestra
KDB KERN KFAB KFBK KFPY
KPRC KGB KHJ KLZ KMBC KMJ
KMOX KQIN KOL KRLD KSL KVI
KWG WAAB WABC WADC WBBM
WBNB WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WHAS WIK
WIBW WJAS WJR WJSV WKBW
WKRC WOKO WSPD WWL

R — Contented Program
CFRC CRCT KDYL KFI KGW KHQ
KOA KOMO KPO KPRC KSD KYW
WBNB WCAE WCSH WDAF WEAF
WEEF WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WKY
WMAQ WMC WOAI WOW WPTF
WRC WRVA WSAI WSB WSM
WTAG WTAM WTAR WTIC WWJ
WWNC

E-10:45 p.m., C-9:45, M-8:45, P-7:45

C — Clyde Barrie and Orchestra
CFRB CKAC KFH KHJ KLRA

KRNT KSCJ KTRH KTSa KVOR
KWKH WAAB WABC WACO WADC
WALA WBBM WBIG WBNB WBRG
WBT WCAO WCAU WDAE WDBJ
WDNC WDOD WDRC WFBM
WFBM WFEA WGR WHAS WHEC
WHF WHW WIRX WISN WJAS
WJSV WKBW WKRC WLAC WLZ
WMAS WMBD WMBR WMMN
WNAK WNOX WOC WOKO WORC
WPG WQAM WRFC WSBT WSJS
WSMK WSPD WTOC

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

C — Dance Orchestra
CFRB CKAC WAAB WABC WADC
WCAO WCAU WDRC WPBL WFEA
WHEC WHK WIBX WJAS WKBW
KHFW WLZB WMAS WOKO WORC
WPG WSBT WSPD

C — Myrt and Marge

KDB KERN KFAB KFBK KFPY
KPRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KQIN KOL KOMA
KRLD KSL KTRH KVI KWG WALA
WBBM WBRG WCCO WFBM WGST
WHAS WLAC WRFC WSAF WWL

R — Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTHS WPAB
WDAF WHO WKY WMAQ WMC
WOAI WOW WSB WSM WSMB

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

C — Singing Sam
KDB KERN KFBK KFPY KPRC
KGB KHJ KLZ KMJ KQIN KOL
KSL KVI KWG

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

C — Dance Orchestra
CFRB CKAC KLRA WAAB WABC
WADC WALA WBNB WBRG WBT
WCAO WCAU WDAE WDBJ WDOD
WDNC WDOD WDRC WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBX WICC WJAS WJR
WJSV WKBW WKBW WKRC WLAC
WLZB WMAS WMBG WMBR WNOX
WOKO WORC WQAM WRFC WSBT
WSJS WSMK WSPD WTOC

C — Pick and Pat

KDB KERN KFBK KFPY KPRC
KGB KHJ KLZ KMJ KQIN KOL
KSL KVI KWG

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

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

B — Helen Hayes; Drama
KDYL KFI KGW KHQ KOA KOMO
KPO

TUESDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45

C — The Goldbergs, See Monday

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

C — Benay Venuta
KFB KGKO KLRA KLZ KMBC
KOMA KRLD KSCJ KTRH KTSa
KVOR KWKH WAAB WABC WACO
WALA WBBM WBIG WBRG WCAO
WCAU WDAE WDBJ WDOD WDNC
WDOD WDRC WESB WFL WFBM
WFEA WGR WGST WHEC WIBX
WJR WRVA WLAC WLZB WMAS
WMBD WMBG WMBR WNOX WOC
WOKO WORC WQAM WRFC WSBT
WSJS WSMK WSPD WTOC WWL

TUESDAY (Continued)

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

C — Understanding Opera

KLRA WABC WADC WALA WBIG
WBRC WCAO WDAE WDEJ WLBO
WDNC WDDO WFBL WGBT WJBX
WJSV WKBN WLAC WLZB WMAS
WXPB WORC WQAM WREC WBSJ
WSPD

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

B — Lowell Thomas, See Monday

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

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

— Easy Aces

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO K80 KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WJZ WMAL WMT
WBYR WXYZ

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

R — Popeye, The Sailor

KFYR KSD KSTP KYW WBNB
WCAE WCBH WDAF WDAY WEAF
WEBC WEEL WFBR WGY WHIO
WIBA WIRE WJAR WMAQ WOW
WVC WSAI WTAG WTAM WWJ

C — Krueger Musical Toast

WABC WBIG WBT WDAE WDBJ
WBDO WDNC WDDO WDRG WEAN
WFBL WFEA WGR WGST WJBX
WICC WJ8V WLZB WMAS WMBG
WMBR WNAC WNBW WNOX WOKO
WORC WQAM WTOG

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

C — Kate Smith

KFAB KMBC KMOX KRLD KRNT
KTRH WABC WADC WBBM WBNS
WBRC WBT WCAO WCAU WDCO
WDAE WDRG WEAN WFBL WFBM
WGR WGST WHAS WHK WIEN
WJAS WJR WJSV WKBN WKRC
WLZB WMAS WMBG WMBR WNAC
WOKO WWL WYVA

B — Lum and Abner, See Monday

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

C — Boake Carter, See Monday

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

C — Frank Munn; Lucy Menroe

KFAB KMBC KMOX KRNT WABC
WADC WBBM WCAO WCAU WDRG
WEAN WFBL WFBM WGR WHAS
WIK WJAS WJR WJSV WKRC
WNAC WOKO WSPD

R — Leo Relsman and Orchestra

KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAP WBNB
WCAE WCBH WDAF WDAY WEAF
WEBC WEEL WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WMOI WOW WPTF WRC
WRVA WSB WM WMBS WWSJ
WTAG WTAM WTAR WTIC WTMJ
WVJ WWCN

B — Eno Crilne Clues

KDKA KOIL K80 WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WBYR WXYZ

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

C — Lawrence Tibbett

CFRB CRCM KDB KERN KFAB
KFBC KFH KFPY KPRC KGB
KGOX KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA

KRLD KRNT KSCJ KSL KTRH
KTBA KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDDO WDRG WEAN
WFBL WFBM WGR WGST WHAS
WHBC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKRC WLAC WMAS WMBG
WMBR WNAC WNAX WNOX WOKO
WOKO WORC WQAM WREC WFC
WJ8V WSPD WTOG WWL

R — Wayne King and Orchestra

KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAP WBNB
WCAE WCBH WDAF WDAY WEAF
WEEL WGY WHO WIBA WIRE
WJAR WJDX WKY WMAQ WMC
WMOI WOW WHK WSAI WSB WMBG
WTAG WTAM WTAR WTIC WTMJ
WVJ

B — Edgar Guest, Welcome Valley

KDKA KOIL K80 KWK WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WBYR WXYZ

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

C — Walter O'Keefe; Glen Gray

KFAB KFH KGO KLRA KMBC
KMOX KOMA KRLD KRNT KSCJ
KTRH KPSA KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDDO WDNC
WDDO WDRG WEAN WFBL WFBM
WFEA WGST WHAS WHBC WHK
WHP WIBW WIBX WIGC WHK
WJR WJSV WKBN WKBW WKRC
WLAC WLZB WMAS WMBG WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WOW WPG WQAM WRCB
WSBT WSFA WSJS WSPD WTOG
WWL

R — N. T. G. and His Girls

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KYW WAVE WBNB
WCAE WCBH WYAF WEEL WFBR
WGY WHO WHIO WIRE WJAR
WJDX WMAQ WMC WOW WRC
WSAI WSB WSM WSMB WTAG
WTAM WTIC WWJ

B — Ben Bernie and Orchestra

KDKA KOIL KPRC K80 KTBS
KTBS KVOO KWK WBAL WBAP
WBZ WBZA WFIL WFLA WGAR
WHAM WIOD WIS WJAX WJZ WKY
WLS WLW WMAL WMT WOAI
WPTF WREN WRVA WSOB WBYR
WTAR WBNB WXYZ

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

C — Fred Waring's Pennsylvanians

CFRB CKAC KFAB KFH KGO
KLRA KLZ KMBC KMOX KOH
KOMA KRLD KSCJ KSL KTRH
KTBA KTUL KVOR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WCBH WDAE WDBJ
WDBO WDNC WDDO WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHBC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBN WKBW WKRC WLAC
WLZB WMAS WMBG WMBR WNAC
WNAX WNBW WNOX WOC WOKO
WORC WOW WPG WQAM WREC
WSBT WSFA WSJS WSPD WTOG
WWL

R — Jumbo-Fire Chief Show

KDYL KFI KFSB KFYR KGH

KGHR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KTIS KVOO KYW WAVE WBAP
WBNB WCAE WCBH WDAF WDAY
WEAF WEBC WEEL WFBR WFLA
WGY WHO WHIO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOAI
WOW WPTF WRG WRVA WSB WSM
WSMB WSOB WTAG WTAM WTAR
WTIC WTMJ WJZ WWCN

B — Helen Hayes, Drama

KDKA KOIL K80 KWK WBAL WBZ
WBZA WCKY WENR WFIL WGAR
WHAM WJZ WMAL WMT WREN
WBYR WXYZ

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

R — Swift Studio Party

CRCT KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP KTBS
KTIS KYW WBAP WBNB WCAE
WCBH WDAF WDAY WEAF WEBC
WEEL WFBR WGY WHO WHIO
WIBA WJAR WKY WLW WMAQ
WOAI WOW WRC WTAG WTAM
WTIC WTMJ WWJ

B — Wendell Hall

CFCF KDKA KOIL K80 KWK
WBAL WBZ WBZA WCKY WENR
WFIL WGAR WHAM WIRE WJZ
WMAL WMT WOOD WREN WBYR
WXYZ

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

C — On the Air with Lud Gluskin

KDB KERN KFAB KFBC KFPY
KPRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WABC WADC
WBBM WBNS WCAO WCAU WCCO
WDRG WEAN WFBL WFBM WGST
WHAS WHBC WHK WJAS WJR
WJSV WKBW WKRC WNAC WOKO
WSPD WWL

R — Jimmy Fidler; Hollywood Gossip

KDYL KFI KGW KHQ KOMO KPO
KPRC KSD KTBS KTIS KYW
WAPI WAVE WBNB WCAE WCKY
WCBH WDAF WEAF WEEL WFAA
WFRB WGY WJAR WJDX WKY
WMC WOAI WOW WRC WSB WSM
WSMB WTAG WTAM WTIC WWJ

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

C — Dance Orchestra

CKAC WAAB WABC WADC WCAO
WCAU WDHC WFBL WFEA WHBC
WHK WBY WJAS WJSV WKBW
WLZB WMAS WOKO WORC WBSJ
WSPD

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

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

C — Dance Orchestra

CFRB CKAC KLRA KSCJ WAAB
WABC WADC WALA WBBM WBNS
WBRC WBT WCAU WCCO WDAE
WDBJ WDBO WDNC WDDO WDRG
WEAN WFBL WFBM WFEA WGST
WHAS WHBC WHK WIBX WICC
WISN WJAS WJR WJSV WKBW
WKRC WLAC WLZB WMAS WMBG
WMBG WMBR WNAX WNOX WOC
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOG

C — Walter O'Keefe; Glen Gray

KDB KERN KFH KFPY KPRC
KGB KHJ KLZ KMJ KOH KOIN
KOL KSL KVI KVOR KWG

TUESDAY (Continued)

R — Leo Reisman and Orchestra
KDYL KFI KPMD KGHJ KGRH
KGW KHQ KOA KOMO KPO KTAR

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C — Fred Waring's Pennsylvanians
KDB KERN KFBC KFPY KFRC
KGB KHJ KMJ KOH KOIN KOL
KVI KWG

WEDNESDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
C — The Goldbergs; See Monday

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

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

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

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge; See Monday

C — Buck Rogers; See Monday
R — Ames 'n' Andy; See Monday

B — Easy Aces; See Tuesday

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Imperial Hawaiian Band

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

R — Uncle Ezra; See Monday
B — Ivory Stamp Club; See Monday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Kate Smith; See Tuesday

B — Lum and Abner; See Monday

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

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

KDB KERN KFAB KFBC KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WAHC WACO
WBBM WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRC WLAC WMBG WNAC
WOKO WSPD WWL

R — One Man's Family
KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KTBS KVOO KYW WAVE
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WEEL WFAA WFBF
WFLA WGY WHO WHIO WIRA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WQAI WOW WPTF WRC WRVA
WBB WSM WSBM WTAG WTAM
WTIC WTMJ WWJ WWNC

B — Rendezvous; Phil Ducey
CRCT KDKA KOIL KBO KWK
WBAL WBZ WBZA WCKY WFIL
WGAR WHAM WJZ WLS WMAJ
WMT WREN WSYR WXYZ

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

CFRB CKAC KFAB KFH KLRA
KMBC KMOX KOMA KRLD KRNT
KFCJ KTRH KTSR KLZ KWKH
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL

WFBN WFEA WGR WGST WHAS
WHBC WHK WHF WIBW WIBX
WICC WJAS WJR WJSV WKRC
WLAC WLBB WMAA WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WPG WQAM WREX WSPD
WWL

R — Wayne King; See Tuesday
B — Armco Iron Master Program
KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFIL WGAR WHAM
WJZ WLW WMAJ WMT WREN
WSYR WXYZ

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

KDB KERN KFAB KFBC KFH
KFPY KFRC KGB KGKO KGMB
KHJ KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSR
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDDO WDFC WFEAN
WFBL WFBM WFEA WGST WHAS
WHBC WHK WHF WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBB WKWB WKRC WLAC WLBB
WMAA WMBD WMBG WMBR
WNAC WNAX WNBW WNOX WOC
WOKO WORC WOWO WPG WQAM
WREX WSPA WSJS WSPD WTOC
WWL

R — Town Hall; Fred Allen
KFYR KPRC KSD KSTP KTBS
KTBS KVOO KYW WAVE WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEL WFAA WFBF WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WQAI WOW WPTF WRC WSB
WSM WSBM WSBM WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Ray Noble and Orchestra

CFRB KDB KERN KFAB KFBC
KFH KFYR KFRC KGB KGKO KHJ
KLRA KLZ KMBC KMJ KMOX KOH
KOIN KOL KOMA KRLD KRNT
KSCJ KSL KTRH KTSR KTUL KVI
KWG KWKH WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WCCO WCOA
WDAE WDBJ WDBO WDDO WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHBC WHK WHF WIBW
WIBX WICC WJAS WJR WJSV
WKBB WKWB WKRC WLAC WLBB
WMBD WMBG WMBR WNAC
WNAX WOC WOKO WORC WOWO
WPG WQAM WREX WSPA WSPD
WTOC WWL

B — Warden Lawes, Sing-Sing Drama
KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WIRE WJZ WMAJ
WMT WREN WSYR WXYZ

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

KFAB KLZ KMBC KMOX KOMA
KRLD KRNT KSL KTRH KTSR
KTUL KWHH WAAB WABC WBBM
WBNS WBRC WBT WCAO WCAU
WDBJ WDBO WDAE WDBJ WDBO
WDRC WEAN WFBL WFBM WGST
WHAS WHBC WHK WJAS WJR
WJSV WKWB WKRC WLAC WMBG
WMBR WOKO WORC WOWO
WQAM WREX WTOC WWL

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
WMAJ WMT WREN WSYR

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Myrt and Marge; See Monday

R — Ames 'n' Andy; See Monday

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

CKAC KLRA WAAB WABC WADC
WALA WBRC WBT WCAO WCAU
WDAE WDBJ WDBO WDNC WDDO
WDRC WEAN WFBL WFBM WFEA
WGST WHAS WHBC WHK WICC
WJAS WJR WJSV WKBB WKRC
WLAC WLBB WMBG WMBR WNOX
WOKO WORC WQAM WREX WSPD
WTOC

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

E-12:00 p.m., C-11:00, M-10:00, P-9:00
R — Town Hall; Fred Allen
KDYL KFI KGW KHQ KOA KOMO
KPO

THURSDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
C — The Goldbergs; See Monday

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Patti Chapin, Songs

KFH KGKO KLRA KMBC KMOX
KOMA KRLD KRNT KSCJ KTRH
KTSR KVOR KWKH WAAB WABC
WALA WBIG WBNS WBRC WBT
WCAO WCAU WDAE WDBO WDNC
WDDO WFBL WFBM WGST WHK
WISN WJAS WJR WJSV WKBB
WLAC WMBG WMBR WNOX
WOKO WQAM WREX WSJS WTOC

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

KLRA WAAB WABC WADC WALA
WBIG WBRC WCAO WDAE WDBJ
WDBO WDNC WDDO WFBL WGST
WHBC WBIX WJWS WLAC WBLZ
WMAA WORC WQAM WREX WSJS
WSPD

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

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge; See Monday

R — Ames 'n' Andy; See Monday
B — Easy Aces; See Tuesday

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

C — Musical Teast; See Tuesday

B — Nine to Five; Comedy Sketch
KDKA KOIL KSO KWK WBAL
WBZ WBZA WENR WFIL WGAR
WHAM WJZ WMAJ WMT WREN
WSAJ WSYR WXYZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Kate Smith; See Tuesday

B — Lum and Abner; See Monday

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

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Harry and Esther
KFAB KMBC KMOX KRNT WABC

THURSDAY (Continued)

WADC WBBM WBNS WCAO WCAU
WCCO WDRC WEAN WFBL WFBM
WGR WHAS WHK WJAX WJRW WJSV
WKRC WMAS WNAO WOKO WSPD

R — Rudy Vallee's Variety Hour
CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KSR
KSTP KTAR KYW WBBN WCAE
WCBS WDAF WDAY WEAF WECB
WEEI WFBR WGY WHO WJAR
WLW WMAQ WOV WRC WTAG
WTAM WTCM WTMJ WJJ

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

C — The March of Time
KFAB KLZ KMBC KMOX KRLL
KRNT KSL WABC WADC WBBM
WBNS WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGST WHAS
WHEC WHK WJAX WJR WJSV
WKBW WKRC WNAO WOKO
WSPD WWL

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

C — Walter O'Keefe, See Tuesday

R — Maxwell House Show Boat

KDYL KFI KFSD KFYR KGH
KGR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KYW WAPI WAVE WBPB WBBN
WCAE WCBS WDAF WDAY WEAF
WIBC WEEI WFBR WFLA WGY
WHO WHIO WIBA WIOD WIRE WJZ
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WROA WSAI WSM WSM WSMB
WSOC WTAG WTAM WTR WTCM
WTMJ WJJ WNNC

B — Death Valley Days

KDKA KOIL KPO KWK WBAL WJZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR WXYZ

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

C — Dramatic Guild

KDB KERN KFAB KFBK KFH
KFPY KPRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLL KRNT KSL KTRH KTSB
KTUL KVI KWG KWK WAHC WABC
WBBM WBNS WBRD WBT WCAO
WCAU WCCO WDD WDRG WEAN
WFBL WFBM WGST WHAS WHEC
WHK WHP WISN WJAX WJR WJSV
WKBW WKRC WLAC WMBG
WMBR WNAO WOKO WOWO WREC
WSPD WTCM WWL

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

C — Harace Heidt and Orchestra

KDB KERN KFAB KFBK KFH
KFPY KPRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLL
KRNT KSL KTRH KTSB
KTUL KVI KWG WABC WBBM
WBNS WBRD WBT WCAO WCAU
WCCO WDD WDRG WEAN WFBM
WGST WHAS WHK WISN WJAX
WJR WJSV WKBW WKRC WLAC
WMBG WNAO WNAO WOC WOKO
WQAM WREC WWL

R — Bing Crosby; Jimmy Dorsey

CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KV00 KYW WAVE WBPB WBBN
WCAE WCBS WDAF WDAY WEAF
WECB WEEI WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC

WVVA WSB WSM WSMB WSOC
WTAG WTAM WTR WTCM WTMJ
WVJ WNNC

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

C — Just Another Amateur; Phil Cook

KDB KERN KFAB KFBK KFPY
KPRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLL KRNT
KSL KVI KWG WABC WADC
WBBM WBNS WCAO WCAU WCCO
WDRG WEAN WFBL WFBM WGST
WHAS WHEC WHK WJAX WJR
WJSV WKBW WKRC WNAO WOKO
WSPD WWL

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

C — Dance Orchestra

WAAB WABC WADC WCAO WCAU
WFBL WHK WIBX WJSV WKBW
WKBW WLZ WMAS WOKO WORC
WPG WSBT WSPD

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

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

C — Dance Orchestra

CFRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRD WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDDO WDRG WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBX WICC WJAX WJR
WJSV WKBW WKBW WKRC WLAC
WLZ WMAS WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTCM

C — Walter O'Keefe, See Tuesday

FRIDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45

C — The Goldbergs; See Monday

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

C — Buck Rogers; See Monday

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

C — Bobby Benson, See Monday

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

C — Kaiterborn Edits News

CFRB CKAC KHJ KLRA KLZ
KMOX KOMA KRNT KSCJ KTRH
KTSB KYOR KWKH WAAB WABC
WADC WALA WBRD WDAE WDBJ
WDBO WDNC WDDO WDRG WEAN
WFBL WFBM WGST WHAS WHEC
WHK WISV WKBW WKRC WLAC
WLZ WMAS WMBG WMBR WOKO
WORC WQAM WREC WSJS WSMK
WSPD

B — Lowell Thomas, See Monday

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

C — Myrt and Marge, See Monday

C — Buck Rogers, See Monday

R — Amos 'n' Andy, See Monday

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

C — Lazy Dan, Minstrel Man

CKAC KFAB KMOX KOMA KRNT
WABC WADC WBBM WBNS WBRD
WBT WCAO WCAU WCCO WDRG
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAX WJR WJSV
WKRC WMAS WMBG WNAO
WOKO WSPD WWL

R — Uncle Ezra, See Monday

B — Ivory Stamp Club, See Monday

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

B — Lum and Abner, See Monday

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

C — Boake Carter, See Monday

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

C — Flying Red Horse Tavern

KFAB KHJ KMBC KMOX KRNT
WABC WADC WBBM WBNS WCAO
WCAU WCCO WDRG WEAN WFBL
WFBM WGR WHAS WHEC WHK
WIBW WICC WJAX WJR WJSV
WKRC WLZ WMAS WMBD WNAO
WOC WOKO WORC WSPD

R — Cities Service Concert

CRCT KOA KPRC KSD KSTP KTBS
KTIS KYW WBBN WCAE WCBW
WDAF WEAF WECB WEEI WFAA
WFBM WGY WHO WHIO WIOD
WJAR WKY WMAQ WOAI WOW
WRC WRVA WSAI WTAG WTAM
WTCM WTMJ WJJ

B — Irene Rich; Drama

KDKA KDYL KFI KFSD KGW KHQ
KOIL KOMO KSO KTAR KWK WAVE
WBAL WBZ WBAZ WFIL WGAR
WHAM WIRE WJZ WJS WML
WML WMC WMT WREN WSB
WSM WSYR WXYZ

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

C — Broadway Varieties

KDB KERN KFAB KFBK KFPY
KPRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRNT
KSL KVI KWG WAHC WADC
WBBM WBNS WBRD WBT WCAO
WCAU WCCO WDRG WEAN WFBL
WFBM WGR WGST WHAS WHK
WJAX WJR WJSV WKRC WMAS
WMBG WNAO WOKO WSPD WWL

B — Red Nichols and Orchestra

KDKA KDYL KFI KFSD KGW KHQ
KOIL KOMO KPO KSO KTAR KWK
WBAL WBZ WBAZ WFIL WGAR
WHAM WJZ WIS WLW WMAL
WMT WREN WSYR WXYZ

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

C — Hollywood Hotel

CFRB CKAC KDB KERN KFAB
KFBK KFI KFPY KPRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLL KRNT
KSCJ KSL KTRH KTSB KTUL KVI
KVOR KWG KWKH WABC WADC
WBBM WBNS WBRD WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRC WEAN WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAX WJR
WJSV WKBW WKRC WLAC WLZ
WMAS WMBD WMBG WMBR
WNAO WNAO WNOX WOKO WORC
WPG WQAM WREC WSPD WWL

R — Frank Munn; Bernice Claire

KSD KYW WREN WCAE WCBW
WDAF WEAF WEEI WFBR WGY
WJAR WLW WMAQ WOW WRC
WTAG WTAM WJJ

B — Al Pearce and his Gang

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBAZ WBAZ WFIL WGAR
WHAM WHO WIRE WJZ WJS
WML WMT WREN WSYR WXYZ

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

R — True Story Court

KDYL KFI KFSD KGW KOA KOMO
KPO KSD KTAR KYW WBBN
WCAE WCBS WEAF WEEI WFBR
WGY WHO WHIO WJAR WMAQ
WOW WRC WTAG WTAM WTCM
WVJ

FRIDAY (Continued)

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Richard Himber and Orchestra
 KFAB KFH KLZ KMBC KMOX
 KOMA KRLL KRNT KSL KTRH
 KTSB KTUL WAAB WABC WADC
 WBBM WBNS WCAO WCAU WCCO
 WDBJ WDRC WFBL WFBM WGST
 WHAS WHK WIBX WJAS WJR
 WJSV WKBW WKRC WOKO WORC
 WSPD WTSF

R — Compana's First Nighter
 KDYL KFI KFSD KGW KHQ KOA
 KOMO KPO KPRC KSD KSTP
 KTAR KVOO KYW WBNB WCAE
 WGSB WDAF WFAF WIBC WEEL
 WFAA WFBR WFLA WGY WHQ
 WIOD WJAR WJAX WKY WLW
 WMAQ WMC WOAI WOW WRC
 WRVA WSB WSN WSMW WTAC
 WTAM WTC WTMJ WWJ WWNC

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Myrt and Margie, See Monday

R — Ames 'n' Andy, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15
C — Dance Orchestra
 CFRB CKAC KLRA KSCJ WAAB
 WABC WADC WALA WBNS WBRC
 WBT WCAO WCAU WDAE WDBJ
 WDBO WDNC WDDO WDRC WFBL
 WFEA WGST WHEC WHK WIBX
 WISN WJAS WJR WKBW WLAC
 WLZB WMAS WMBD WMBG
 WMBR WNAX WNOX WOKO WORO
 WPG WQAM WRC WSBT WSJS
 WSMK WSPD WTOC

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

SATURDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Frederic William Wile
 KFH KGEO KLRA KLZ KMBC
 KMOX KOMA KRLL KSCJ KSL
 KTRH KTSB KVOR KWKH WAAB
 WABC WACO WADC WALA WBBM
 WBIG WBRC WBT WCAO WCCO
 WDAE WDBJ WDBO WDNC WDDO
 WDSB WFBL WFBM WGST WHEC
 WHK WIBW WIBX WISN WJAS
 WJR WJSV WKBW WKRC WLAC
 WLZB WMBG WMBR WNOX WOKO
 WORO WQAM WRC WSBT WSJS
 WSMK WSPD WTOC

E-6:30 p.m., C-5:30, M-4:30, P-3:30
C — Three Little Words
 CFRB KFH KGEO KLRA KLZ
 KMBC KMOX KOMA KRLL KSCJ
 KTRH KVOR KWKH WAAB WABC
 WACO WADC WALA WBBM WBIG
 WBRC WCAO WCAU WDAE WDBJ
 WDBO WDNC WDDO WDRC WDSB
 WFBL WFBM WFEA WGST WHEC
 WHK WIBW WIBX WICC WISN
 WJR WJSV WKBW WLAC WLZB
 WMAS WMBD WMBG WMBR
 WNOX WOC WOKO WORC WQAM
 WREC WSBT WSJS WSMK WSPD
 WTOC WWL

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Atlantic Family; Frank Parker
 WABC WADC WBIG WBNS WBRE
 WBT WCAO WCAU WCBM WDAE
 WDBJ WDBO WDRC WEAN WFBG
 WFBM WGBI WGR WGST WHEC
 WHK WHP WIBX WICC WJAS
 WMAS WMBG WMBR WNAC
 WNEF WOKO WORC WORK WQAM
 WRAK WSJS WTOC WWVA

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

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Carborundum Band
 KFAB KMBC KMOX WABC WBBM
 WBT WCAO WCAU WCCO WEAN
 WFBM WGR WHAS WHK WJAS
 WJR WKRC WNAC

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Palmolive Beauty Box Theater
 CKAC KFAB KLC KMBC KMOX
 KOMA KRLL KRNT KSL KTRH
 KTSB KTUL KWKH WABC WBBM
 WBNS WBRC WBT WCAO WCAU
 WCCO WDAE WDBD WDBJ WDRC
 WEAN WFBL WFBM WGR WGST
 WHAS WHEC WHK WJAS WJR
 WJSV WKRC WLAC WLBC WMHG
 WMBR WNAC WOKO WORC WQAM
 WREC WTOC WWL

R — The Hit Parade
 KDYL KFI KFSD KFYR KGHL
 KGIR KGW KHQ KOA KOMO
 KPO KPRC KSD KSTP KTAR KTSB
 KYW WAPI WAVE WBAF WBNB
 WCAE WCSI WDAF WDAY WFAF
 WFCB WEEL WFBM WFLA WGY
 WHO WHQ WIBX WIOD WIRE
 WIS WJAR WJAX WJDX WKY
 WLW WMAQ WMC WOAI WOW
 WPTF WRC WRVA WSB WSM
 WSMB WSOB WTAC WTAM WJAR
 WTC WTMJ WWJ WWNC

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

R — Chevrolet Program
 KDYL KFI KFSD KFYR KGHL
 KGIR KGW KHQ KOA KOMO KPO
 KPRC KSD KSTP KTAR KTSB
 KTHS KYW WAPI WAVE WBAF
 WBNB WCAE WCSI WDAF WDAY
 WFAF WFCB WEEL WFBM WFLA
 WGY WIBA WIOD WIRE WIS
 WJAR WJAX WJDX WKY WLW
 WMAQ WMC WOAI WOW WPTF
 WRC WRVA WSB WSMB WSOB
 WTAC WTAM WJAR WTC WTMJ
 WWJ WWNC

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Along Rialto Row; Variety
 CFRB KFH KGEO KLRA KLZ
 KMBC KMOX KOL KOMA KRLL
 KRNT KSCJ KSL KTRH KTSB
 KFOR KWKH WABC WACO WADC
 WALA WBBM WBIG WBNS WBRC
 WBT WCAO WCAU WDAE WDBJ
 WDBO WDNC WDDO WDRC WFBL
 WFBM WFEA WGST WHAS WHEC
 WHK WIBW WIBX WICC WISN
 WJAS WJR WJSV WKBW WKRC
 WLAC WLZB WMAS WMBD WMBG
 WMBR WNAC WNOX WOC WOKO
 WORO WPG WQAM WRC WSBT
 WSJS WSPD WTOC

R — Shell Chateau; Al Jolson
 KDYL KFI KFSD KFYR KGHL
 KGIR KGW KHQ KOA KOMO KPO
 KSD KSTP KTAR KYW WBNB
 WCAE WCSI WDAF WDAY WFAF

WFCB WEEL WFBM WGY WIBA
 WJAR WLW WMAQ WOW WRC
 WTAC WTAM WTC WTMJ WWJ

B — National Barn Dance
 KDKA KOIL KPRC KSO KTBS
 KPMS KVOO KWK WAPI WAVE
 WBAF WBAF WBZ WBZA WFEL
 WGAR WIAM WIRE WJDX WJZ
 WKY WLS WMAL WMC WMT
 WOAI WOOD WREN WSB WSMB
 WSYR WXYZ

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

CFRB CKAC KFH KGEO KLRA
 KLZ KMBC KMOX KOMA KSCJ
 KTRH KTSB KVOR KWKH WABC
 WACO WADC WALA WBBM WBIG
 WBNS WBRC WBT WCAO WCAU
 WCCO WDAE WDBJ WDBO WDNC
 WDDO WDRC WEAN WFBL WFBM
 WFEA WHAS WHEC WHK WIBW
 WIBX WICC WISN WJAS WJR
 WJSV WKBW WKRC WLAC WLZB
 WMAS WMBD WMBG WMBR
 WNAX WNOX WOC WOKO WORC
 WPG WQAM WRC WSBT WSJS
 WSMK WSPD WTOC

R — Corn Cob Pipe Club
 KDYL KFI KGA KGW KJR KOA
 KPO KSD KYW WBNB WCAE
 WCKY WCSI WDAF WFAF WEEL
 WFBM WGY WHQ WIRE WJAR
 WMAQ WOW WRC WRVA WTAC
 WTAM WTC WWJ

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

CFRB CKAC KFH KGEO KLRA
 KLZ KMBC KMOX KOMA KRLL
 KSCJ KSL KTRH KTSB KVOR
 KWKH WABC WACO WADC WALA
 WBBM WBNS WBRC WBT WCAO
 WCAU WCCO WDAE WDBJ WDBO
 WDNC WDDO WDRC WFBL WFBM
 WFEA WGST WHAS WHEC WHK
 WIBW WIBX WICC WISN WJAS
 WJR WJSV WKBW WKRC WLAC
 WLZB WMAS WMBD WMBG
 WMBR WNAX WNOX WOC WOKO
 WORO WQAM WREC WSBT WSJS
 WSMK WSPD WTOC

C — Palmolive Beauty Box Theater
 KDJ KERN FEBK KFYR KERC
 KMB KOIN KOL KVI KWG

B — National Barn Dance
 KDYL KFI KFSD KFYR KGHL
 KGIR KGW KHQ KOA KOMO
 KPO KSTP KPIA WDAY WFCB
 WIBA WLW WTMJ

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

CFRB CKAC KFH KGEO KLRA
 KLZ KMBC KMOX KOMA KSL
 KTRH KTSB KVOR KWKH WABC
 WACO WADC WALA WBNS WBRC
 WBT WCAO WCAU WDAE WDBJ
 WDBO WDNC WDDO WDRC WEAN
 WFBL WFBM WFEA WGST WHAS
 WHEC WHK WIBW WIBX WICC
 WJAS WJR WKBW WKRC WLAC
 WLZB WMAS WMBG WMBR WNOX
 WOKO WORO WQAM WRC WSBT
 WSJS WSMK WSPD WTOC

E-12:00 p.m., C-11:00, M-10:00, P-9:30
C — Dance Orchestra

CKAC KFH KLRA KMBC KMOX
 KOMA KRLL KSCJ KSL KTRH
 KTSB KVOR KWKH WABC WBBM
 WBNS WBRC WCAU WCCO WDNC
 WDDO WEAN WFBL WFBM WGST

SATURDAY (Continued)

WBW WBX WICC WISN WJR
WBW WKRC WLAC WMBD
WMBR WNOX WOC WOKO WQAM
WBBT WSMK WSPD

SUNDAY

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

C — Salt Lake Tabernacle Choir
KFH KGKO KLRA KLZ KMBC
KOMA KRLD KSCJ KSL KTRH
KTSa KWKH WACO WADC WALA
WBIG WBNS WBRC WBT WCCO
WDBO WDNC WDOD WDRC WFBL
WFBM WFEA WGST WHAS WBW
WBX WISN WJAS WJR WJSV
WKBN WKRC WLAC WLWBZWMAS
WMBD WMBR WNAC WNAS
WNOX WOKO WORC WQAM WREC
WBBT WSMK WSPD WTCO

R — Major Bowes' Capital Family
KDYL KFYR KOA KPRC KSTP
KTBS KVoo WAPI WCAE WDAF
WDAY WEAf WECB WFAA WFBF
WFLA WGY WHO WHIO WJAR
WJAX WKY WMAQ WMC WOAI
WRC WRVA WSAI WSBM WTAG
WTAM WWNC

E-12:30 p.m. C-11:30, M-10:30, P-9:20

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

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

C — Trans-Atlantic Broadcast
CFRB CKAC KFH KGKO KLRA
KLZ KMBC KRLD KSCJ KTRH
KTSa KVOR WABC WACO WADC
WALA WBIG WBRC WCAO WCAU
WCCO WDAE WDBJ WDBO WDRC
WEAN WESG WFBL WFBM WFEA
WGR WHAS WBX WJAS WJR
WKBN WLAC WLWBZ WMBD WMBR
WNAC WOC WOKO WORC WPG
WQAM WREC WSJS WSMK WSPD
WTCO WWL

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

C — Church of the Air
KFH KGKO KLRA KOMA KRLD
KSCJ KSL KTRH KTSa KVOR
KWKH WABC WACO WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDOD WESG WFBM WGR
WHAS WHEC WBW WBX WJAS
WJSV WKBN WKRC WLAC WLWBZ
WMBD WMBR WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSPD

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

C — Musical Festivities
KMBC KMOX KRNT WABC WBBM
WBNS WCAU WCCO WHAS WHK
WJAS WJR WJSV WKBW WKRC
WREC

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

C — Leslie Howard's Matinee
KLRA KLZ KMOX KOA KRLD
KRNT KSL KTRH KTUL WABC
WADC WBBM WBNS WBRC WBT
WCAO WCCO WDRC WEAN WFBM
WHAS WHEC WHK WJR WJSV
WKBW WKRC WLAC WNAC WOKO
WOWO WREC WWL

B — Magic Key of RCA

CFRC CRCT KDKA KDYL KFI
KFYR KGU KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP KTBS
KTHS KVoo KWK WAPI WAVE
WBAL WBZ WBZA WCKY WDAY
WECB WENR WFAA WFIL WFLA
WGAR WHAM WHIO WIBA WIOD
WIRE WIS WJAX WJDX WJZ WKY
WMAL WMC WMT WOAI WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTAM WYCN
WXYZ

E-2:30 p.m., C-1:30, M-12:30, P-11:30

C — Jose Manzanares and Orchestra
KFAB KMBC KMOX KOMA KRLD
KRNT KTRH WABC WADC WBBM
WBT WCAO WCAU WCCO WDAE
WDRC WEAN WFBL WFBM WHAS
WIK WISN WJAS WJR WJSV
WKBW WKRC WMBR WNAC
WOKO WQAM WREC WSPD WWL

R — Vox Pop; Sidewalk Interviews

KSD KYW WBEN WCAE WCSH
WEAF WEEL WFBR WGY WHO
WHIO WIRE WJAR WMAQ WOW
WRC WSAI WTAG WTAM WTIC
WVJ

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

C — Philharmonic Symphony
CFRB CKAC KFH KGKO KLRA
KLZ KOMA KRLD KSCJ KSL KTRH
KTSa KVOR KWKH WABC WACO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCCO WDAE
WDBJ WDBO WDNC WDOD WDRC
WEAN WESG WFBL WFBM WFEA
WGST WHAS WHEC WHK WIRW
WBX WICC WISN WJAS WJR
WKBN WKBW WKRC WLAC WLWBZ
WMAS WMBD WMBG WMBR
WNAC WNOX WOC WOKO WORC
WQAM WREC WSBT WSJS WSMK
WSPD WTCO

B — Your English

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KPRC KSO KSTP
KTHS KVoo KWK WAPI WAVE
WBAL WBZ WBZA WDAY WECB
WENR WFAA WFIL WFLA WGAR
WHAM WIQD WJAX WJZ WKY
WLW WMAL WMC WMT WOAI
WPTF WREN WRVA WSB WSM
WSMB WSYR WXYZ

E-3:15 p.m., C-2:15, M-1:15, P-12:15

B — Pine Mountain Merry-makers
KDKA KFYR KOIL KSO KSTP KWK
WBAL WBZ WBZA WDAY WECB
WENR WFIL WGAR WHAM WIBA
WJZ WLW WMAL WMT WREN
WSYR WXYZ

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

R — Metropolitan Opera Auditions
KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KBD KTBS KTHS
KVoo KYW WAPI WAVE WBEN
WCAE WCKY WCSH WDAF WEAf
WEEL WFAA WFBR WFLA WGY
WHO WHIO WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WVJ
WVNC

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

Rev. Charles E. Coughlin
KFEL KNX KSFO KSTP KVOD
KWK WATR WCAO WCAU WDRC
WEAN WFBL WFEA WGAR WGR

WHB WHO WICC WISN WJAS
WJJD WJR WLBZ WLLH WLW
WMAS WNAC WNBH WOKO WOL
WOR WORC WOW WRDO

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

C — Abe Lyman and Orchestra
CFRB KFAB KMBC KMOX KRNT
WAAB WABC WADC WBBM WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WHAS WHEC WHK WJAS
WJR WJSV WKBW WKRC WOKO
WSPD

R — Penthouse Serenade

CFRC KDYL KFI KFYR KGW KHQ
KOA KOMO KPO KPRC KSTP
KTBS KTHS KVoo KYW WAPI
WAVE WBAP WBEN WCAE WCSH
WDAF WDAY WEAf WECB WEEI
WFBR WFLA WGY WHIO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOW
WPTF WRC WRVA WSAI WSB WSM
WSMB WSOC WTAG WTAM WTAR
WTIC WVJ WWNC

R — Rees and Drums

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

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

C — Frank Crumit; Julia Sanderson
KFH KMBC KMOX KOMA KTUL
WAAB WABC WADC WBNS WCAO
WCAU WDRC WEAN WFBL WFBM
WGR WHAS WHEC WHK WBX
WICC WJR WJSV WMAS WOKO
WORC WBPFD WWL WWVA

C — Jose Manzanares and Orchestra

KDB KERN KFBK KFYR KPRC
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

R — Dream Drama

KYW WBEN WCAE WCSH WDAF
WEAF WEEL WFBR WGY WJAR
WMAQ WRC WSAI WTAG WTAM
WTIC WVJ

B — Bob Becker's Dog Chats

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

E-5:45 p.m., C-4:45, M-3:45, P-2:45

R — Richard Himmer and Orchestra
KSD KYW WBEN WCAE WCSH
WDAF WEAf WEEL WFBR WGY
WHO WHIO WIRE WJAR WMAQ
WOW WRC WSAI WTAG WTAM
WTIC WVJ

B — Gabriel Heatter, News Review

KDKA KOIL KSO KWK WAPI
WAVE WBAL WBZ WBZA WCKY
WENR WFIL WGAR WHAM WJDX
WJZ WMAL WMC WMT WREN
WSB WSM WSMB WSYR WXYZ

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

C — National Amateur Night
CFRB CKAC KDB KERN KFAB
KFBK KIFY KPRC KGB KHJ KLZ
KMBC KMJ KMOX KOIN KOL
KRLD KSL KVI KWG WAAB WABC
WBBM WBNS WBT WCAO WCAU
WCCO WDRC WFBL WFBM WGST
WHAS WHEC WHK WJAS WJR
WJSV WKBW WKRC WLAC WOKO
WREC WWL

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

C — Smiling Ed McConnell
KDB KERN KFAB KFBK KFH

SUNDAY (Continued)

KFPY KFRC KGB KHJ KLZ KMJ
KMOX KOIN KOL KRLL KRNT
KSL KVI KWG WAAB WABC
WBMM WBNS WBRC WBT WCAO
WCAU WCCO WDBJ WDRG WEAN
WFBL WHAS WHFC WHK WJAS
WJR WJSV WKBW WKRC WLAC
WWL WWVA

B — Compana's Grand Hotel

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

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

C — Voice of Experience

KMOX WAAB WABC WADC WBMM
WBT WCAO WCAU WCCO WDRG
WEAN WFBL WFBM WHAS WHFC
WHK WJAS WJR WKBW WKRC
WSPD WWVA

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

C — Eddie Cantor

KFAB KFH KLRA KLZ KMBC
KMOX KOMA KRLL KRNT KTRH
K TSA KTUL KWKH WABC WADC
WBMM WBNS WBRC WBT WCAO
WCAU WCCO WDDO WDRG WEAN
WFBL WFBM WGR WGST WHAS
WHFC WHK WHC WJAS WJR
WJSV WKRC WLAC WNAC WOKO
WOWO WREC WSPD WWL

B — Jack Benny; Johnny Green

CFCF CRCT KDKA KFYR KOIL
KPRC KSO KSTP KTBS KVOO KWK
WAVE WBAL WBZ WBZA WDAY
WEBC WENR WFAP WFIL WFLA
WGAR WHAM WIBA WIOD WIS
WJAX WJDX WJZ WKY WLW
WMAL WMT WWT WQAI WPTP
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WWNC
WXYZ

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

C — Phil Baker; Hal Kemp

KLRA KLZ KRLL KTRH K TSA
KWKH WABC WADC WADC WALA
WBG WBNS WBRC WBT WCAO
WCAU WCOA WDAE WDBJ WDBO
WDNC WDDO WDRG WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHFC WHK WHP WIRX WJAX
WJDX WJR WJSV WKRN WKRC
WLAC WLWB WMAS WMBR WNAC
WNBF WNOX WOKO WORC WQAM
WREC WSBT WSPA WSJS WSMK
WSPD WTOC WWL WWVA

R — Fireside Recitals

KSD KYW WBEN WCAE WCSH
WDAF WEAF WFR WGY WHIO
WIRE WJR WMAQ WOW WRC
WSAI WTAG WTAM WTMJ WWJ

B — Ozzie Nelson; Rabt. L. Ripley

KDKA KDYL KFI KFYR KGW
KHQ KOA KOIL KOMO KPO KPRC
KSO KSTP KTAR KVOO KWK
WBAL WBZ WBZA WCKY WDAY
WEBC WFAP WFLA WGAR WHAM
WIBA WIOD WJAX WJDX WJZ
WKY WLW WMAL WMC WMT
WQAI WPTF WREN WRVA WSB
WSM WSMB WSYR WTMJ WWNC
WXYZ

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

R — Sunset Dreams; Morin Sisters
CFCF CRCT KSD KYW WBEN

WCAE WCSH WDAF WEAF WFBR
WGY WHO WHIO WIRE WJAR
WLW WMAQ WOAI WOOD WOW
WRC WTAG WTAM WTMJ WWJ

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

R — Major Bowes' Amateur Hour

CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KVOO KYW
WAVE WBEN WBZ WBZA WCAE
WCSH WDAF WDAY WEAF WEBC
WFAP WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOAI
WOW WPTF WRC WRVA WSB
WSM WSMB WTAG WTAM WTA
WTMJ WTMJ WWJ WWNC

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

C — Ford Concert

CERF CKAC KDB KERN KFAB
KFBB KFH KFPY KFRC KGB
KGKO KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLL KRNT KSCJ KSL KTRH
K TSA KTUL KVI KYOR KWG
KWKH WABC WACO WADC WALA
WBMM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDNC WDDO WDRG
WEAN WFBL WFBM WFEA WGST
WHAS WHFC WHK WHP WIRB
WIRX WJAX WJDX WJZ WJR
WJSV WKBH WKBN WKRW WKRC
WLAC WLWB WMAS WMBD WMBR
WNAC WNAX WNOX WOC WOKO
WORC WOWO WQAM WREC WSBT
WSPA WSJS WSMK WSPD WTOC
WWL

R — Manhattan Merry-Go-Round

CFCF CRCT KDYL KFI KFYR KGW KHQ
KOA KOMO KPO KSD KSTP KYW
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WFBR WGY WHO
WHIO WHA WJAR WMAQ WOW
WRC WSAI WTAG WTAM WTMJ
WTMJ WWJ

B — Charles Previn; Olga Albani

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

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

R — Album of Familiar Music

CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KYW WAF
WAVE WBEN WCAE WCSH WDAF
WDAY WEAF WEBC WEEI WFAP
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 WTA WTMJ WWJ WWNC

B — Walter Winchell

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

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

B — Paul Whiteman's Musical Varieties

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

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

C — Wayne King and Orchestra

KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLL KSL KVI
KWG WAAB WABC WADC WBMM
WBNS WCAO WCAU WCCO WDRG
WFBL WFBM WHAS WHK WIRB
WJAS WJR WJSV WKBW WKRC
WOKO WSPD WWL

R — General Motors Concert

CFCF CRCT KDYL KFI KFSF
KFYR KGHL KGIR KGU KGW
KHQ KOA KOMO KPO KPRC KSTP
KTAR KTBS KTHS KYW WAPI
WAVE WBAP WBEN WCAE WCSH
WDAF WDAY WEAF WEBC WEEI
WFBR WFLA WGY WHO WHIO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSAI WSB WSM WSMB WSOC
WTAG WTAM WTA WTMJ WTMJ
WWJ WWNC

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

C — Freddie Rich and Orchestra

KLRA WABC WALA WBZ WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDDO WDRG WEAN
WFLA WGST WICC WJSV WLAC
WLWB WMAS WMBG WMBR WNAC
WORC WQAM WREC WSJS WTOC

C — Jack Hylton and Orchestra

KFAB KFH KLZ KMBC KMOX
KRNT KSCJ KVOO WBMM WCCO
WFBM WIRB WISN WJSV WKBH
WMBD WOC WOWO WSBT

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

C — Eddie Cantor

KDB KERN KFAB KFPY KFRC
KGB KHJ KMJ KOIN KOL KSL
KVI KWG

R — The Melody Master

KYW WBEN WCAE WEAF WEEI
WFBR WGY WJAR WMAQ WRC
WTAG WTAM WTMJ WWJ

R — Sunset Dreams; Morin Sisters

KDYL KFI KFSF KGW KHQ KOA
KOMO KPO KPRC KTAR KTBS
KTHS WBAP WDAF WJZ

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

B — Walter Winchell

KDYL KFI KFSF KGHL KGIR
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTHS WAPI WAVE
WBAP WJDX WKY WMC WOAI
WSB WSM WSMB

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

C — Voice of Experience

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

B — Jack Benny; Johnny Green

KDYL KFI KFSF KGHL KGIR
KGU KGW KHQ KOA KOMO KPO
KTAR

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

B — Charles Previn; Olga Albani

KDYL KFI KGW KHQ KOA KOMO
KPO

C — Leslie Howard; Drama

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

CLASSIFIED INDEX TO CHAIN PROGRAM

Time in Eastern Standard

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

Armco Iron Master, 8:30 p.m. Wednesday, B
Ford Concert, 9:00 p.m. Sunday, C
General Motors Concert, 10:00 p.m. Sunday, R
Metropolitan Opera Auditions, 3:30 p.m. Sunday, R
Philharmonic Symphony, 3:00 p.m. Sunday, C
Radio City Music Hall, 12:30 p.m. Sunday, B

DANCE BANDS

Victor Arden, 8:00 p.m. Thursday; 8:30 p.m. Friday, C
Ben Bernie, 9:00 p.m. Tuesday, B
Ray Block, 7:15 p.m. Tues. and Thurs., C
Jimmy Dorsey, 10:00 p.m. Thursday, R
Lud Gluskin, 10:30 p.m. Tuesday, C
Al Goodman, 8:00 p.m. Saturday, R
Glen Gray, 9:00 and 11:30 p.m. Tuesday and Thursday, C
Johnny Green, 7:00 and 11:30 p.m. Sunday, B
Louis Gress, 7:00 p.m. Sunday, C
Horace Heidt, 10:00 p.m. Thursday, C
Richard Himber, 5:45 p.m. Sun., R; 10:30 p.m. Fri., C
Jack Hylton, 10:30 p.m. Sunday, C
Hal Kemp, 7:30 p.m. Sunday, C
Wayne King, 10:00 p.m. Sunday and Monday, C;
8:30 p.m. Tuesday and Wednesday, R
Guy Lombardo, 8:00 p.m. Monday, C
Abe Lyman, 5:00 p.m. Sunday, C; 9:00 p.m. Friday, R
Rico Manzanara, 2:30 and 5:30 p.m. Sunday, C
Ozzie Nelson, 7:30 p.m. Sunday, B
Red Nichols, 8:30 p.m. Friday, B
Ray Noble, 9:30 p.m. Wednesday, C
Raymond Paige, 9:00 p.m. Friday, C
Charles Previn, 9:00 and 12:00 p.m. Sunday, B
Leo Reisman, 8:00 and 11:30 p.m. Tuesday, R
Harry Reser, 3:30 p.m. Sunday, R
Freddie Rich, 10:30 p.m. Sunday; 8:00 p.m. Friday, C
Rudy Vallee, 8:00 p.m. Thursday, R
Fred Waring, 9:30 and 12:00 p.m. Tuesday, C; 9:30 p.m. Friday, B
Paul Whiteman, 9:45 p.m. Sunday, B
Victor Young, 9:30 p.m. Saturday, R

DIALOG

Fred Allen, 9:00 and 12:00 p.m. Wednesday, R
Amos 'n' Andy, 7:00 and 11:00 p.m. daily, except Sat. and Sun., R
Phil Baker, 7:30 p.m. Sunday, C
Jack Benny, 7:00 and 11:30 p.m. Sunday, B
Burns and Allen, 8:30 and 11:30 p.m. Wednesday, C
Eddie Cantor, 7:00 and 11:00 p.m. Sunday, C
Phil Cook, 10:30 p.m. Thursday, C
Easy Aces, 7:00 p.m. Tues., Wed., and Thurs., B
Fibber McGee and Molly, 8:00 p.m. Monday, B
Harry and Esther, 8:00 p.m. Thursday, C
Lum and Abner, 7:30 p.m. daily, except Sat. and Sun., B
Nine to Five, 7:15 p.m. Thursday, B
Walter O'Keefe, 9:00 and 11:30 p.m. Tues. and Thurs., C
Plek and Pat, 8:30 and 11:30 p.m. Monday, C
Popeye, The Sailor, 7:15 p.m. Tues., Thurs and Sat., R

DRAMA

Cavalcade of America, 8:00 p.m. Wednesday, C
Crime Crusade, 10:00 p.m. Wednesday, C
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
Goldbergs, 5:45 p.m. daily exc. Sat. and Sun., C

Grand Hotel, 6:30 p.m. Sunday, B
Helen Hayes, 12:00 mid. Monday, 9:30 p.m. Tues., B
Leslie Howard, 2:00 p.m. and 12 mid. Sunday, C
Warden Lawes, 9:30 p.m. Wednesday, B
Phillips Lord, 10:00 p.m. Wednesday, C
Lux Radio Theatre, 9:00 p.m. Monday, C
March of Time, 8:30 p.m. Thursday, C
Myrt and Marge, 7:00 and 11:00 p.m. daily, except Sat. and Sun., 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 and 7:00 p.m. Mon., Wed., and Fri., C
Roses and Drums, 5:00 p.m. Sunday, B
True Story Court, 9:30 p.m. Friday, R
Welcome Valley, 8:30 p.m. Tuesday, B

POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m. Monday, R
Album of Familiar Music, 9:30 p.m. Sunday, R
Along Rialto Row, 9:30 p.m. Saturday, C
Atlantic Family, 7:00 p.m. Saturday, C
Major Bowes, 11:30 a.m. and 8:00 p.m. Sunday, R
Broadway Varieties, 8:30 p.m. Friday, C
Camel Program, 9:00 and 11:30 p.m. Tues. and Thurs., C
Carborundum Band, 7:30 p.m. Saturday, C
Chesterfield Program, 9:00 p.m. Wed. and Sat., C
Chevrolet Program, 9:00 p.m. Saturday, R
Cities Service Concert, 8:00 p.m. Friday, R
Contented Program, 10:00 p.m. Monday, R
Corn Cob Pipe Club, 10:30 p.m. Saturday, R
Evening in Paris, 8:30 p.m. Monday, B
Fireside Recitals, 7:30 p.m. Sunday, R
Fleischmann Variety Hour, 8:00 p.m. Thursday, R
Flying Red Horse Tavern, 8:00 p.m. Friday, C
Hammerstein's Music Hall, 8:00 p.m. Monday, R
Hit Parade, 8:00 p.m. Saturday, R
Hollywood Hotel, 9:00 p.m. Friday, C
Imperial Hawaiian Band, 7:15 p.m. Wednesday, C
Jumbo-Fire Chief Show, 9:30 p.m. Tuesday, R
Krueger Musical, 7:15 p.m. Tuesday and Thursday, C
Magie Key of RCA, 2:00 p.m. Sunday, B
Manhattan Merry-Go-Round, 9:00 p.m. Sunday, R
Maxwell House Show Boat, 9:00 p.m. Thursday, R
Melody Master, 11:00 p.m. Sunday, R
Musical Footnotes, 1:30 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, R
Palmolive Beauty Box, 8:00 and 11:00 p.m., Sat., C
Al Pearce and Gang, 9:00 p.m. Friday, B
Penthouse Serenade, 5:00 p.m. Sunday, R
Pine Mountain Merry-makers, 3:15 p.m. Sunday, B
Shell Chateau, 9:30 p.m. Saturday, R
Sherwin-Williams Program, 3:30 p.m. Sunday, R
Sinclair Minstrels, 9:00 p.m. Monday, B
Swift Studio Party, 10:00 p.m. Tuesday, R
Town Hall Tonight, 9:00 and 12:00 p.m. Wednesday, R
Uncle Ezra, 7:15 p.m. Mon., Wed., and Fri., R
Voice of Firestone, 8:30 and 11:30 p.m., Monday, R

SINGERS

Countess Olga Albani, 9:00 and 12:00 p.m. Sunday, B
Clyde Barrie, 10:45 p.m. Monday, C
Connie Boswell, 9:30 p.m. Wednesday, C
Charlottees, 7:15 p.m. Monday, C
Vivian Della Chiesa, 1:30 p.m. Sunday, C
Bernice Claire, 5:00 p.m. Sunday, C, and 9:00 p.m. Friday, R

Jerry Cooper, 7:15 p.m. Tuesday and Thursday, C
 Bing Crosby, 10:00 p.m. Thursday, R
 Crumit-Sanderson, 5:30 p.m. Sunday, C
 Jessica Dragonette, 8:00 p.m. Friday, R
 Phil Ducey, 8:00 and 11:30 p.m. Tuesday, R; 8:00 p.m. Wednesday, B
 Mary Eastman, 10:45 p.m. Friday, C
 Jack Fulton, 5:00 p.m. Sunday, R
 Wendell Hall, 10:00 p.m. Tuesday, B
 Al Jolson, 9:30 p.m. Saturday, R
 Frances Langford, 9:00 p.m. Friday, C
 Lazy Dan, 7:15 p.m. Friday, C
 Elizabeth Lennox, 8:30 p.m. Friday, C
 Nino Martini, 9:00 p.m. Saturday, C
 Lucy Monroe, 8:00 p.m. Tuesday, C and 9:30 p.m. Sunday, R
 Grace Moore, 9:30 p.m. Monday, R
 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
 Frank Parker, 7:00 p.m. Saturday, C
 Pickens Sisters, 8:30 p.m. Monday, B
 Lily Pons, 9:00 p.m. Wednesday, C
 Carmella Ponselle, 8:30 p.m. Friday, C
 Dick Powell, 9:00 p.m. Friday, C
 Eleanor Powell, 8:00 p.m. Friday, C
 Virginia Rea, 9:00 p.m. Saturday, R
 Lanny Ross, 9:00 p.m. Thursday, R

Fritzl Scheff, 8:00 p.m. Tuesday, C
 Oscar Shaw, 8:30 p.m. Friday, C
 Singin' Sam, 7:30 and 11:15 p.m. Monday, C
 Smiling Ed McConnell, 6:30 p.m. Sunday, C
 Kate Smith, 7:30 p.m. Tues., Wed., and Thurs., C
 Oliver Smith, 5 p.m. Sunday, C
 John Charles Thomas, 10:00 p.m. Wednesday, B
 Three Little Words, 6:30 p.m. Saturday, C
 Lawrence Tibbett, 8:30 p.m. Tuesday, 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
 Rev. Charles E. Coughlin, 4:00 p.m. Sunday
 Jimmy Fidler, 10:30 p.m. Tuesday, R
 Gabriel Heatter, 5:45 p.m. Sunday, B
 Ted Husing, 7:15 p.m. Monday, C
 Ivory Stamp Club, 7:15 p.m. Mon., Wed., and Fri., B
 H. V. Kaltenborn, 6:45 p.m. Friday, C
 Public Opinion, 10:30 p.m. Saturday, C
 Robert L. Ripley, 7:30 p.m. Sunday, B
 Sidewalk Interviews, 2:30 p.m. Sunday, R
 Lowell Thomas, 6:45 p.m. daily except Sat. and Sun., B
 Trans-Atlantic Broadcast, 12:45 p.m. Sunday, C
 Voice of Experience, 6:45 and 11:30 p.m. Sunday, C
 Frederic William Wile, 6:00 p.m. Saturday, C
 Walter Winchell, 9:30 and 11:15 p.m. Sunday, B
 Your English, 3:00 p.m. Sunday, B

Short Wave Stations By Frequencies

Police broadcasters shown in Italics.

Time indicated is Eastern Standard.

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 Moetschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. Daily, 0530-1100; 1745-1845; 2230-0130.

 1.520 megs. 197.25 m.
VIA, Adelaide, Australia. 175 w. *Police*
VKO, Sydney, Australia. 1.4 kW. *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.

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

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

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

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

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

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

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

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

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

 1.606 megs. 186.69 m.
KGXW, Port Alexander, Alaska. Karl Hansen.
KIGA, Broadcast pickup. 7.5 watts. KSTP, St. Paul Hotel, St. Paul, Minn.
KNED, Broadcast pickup. 50 watts. WBAP, Carter publications, Ft. Worth, Tex.
WHER, Broadcast pickup. (KDKA) Grant Bldg., Pittsburgh.
WIEO, Broadcast pickup. 50 watts. NBC, 30 Rockefeller Plaza, N. Y. City.
WIEW, Broadcast pickup. National Broadcasting Co.

SHORT WAVE STATIONS BY FREQUENCIES

WIEX, Broadcast pickup. National Broadcasting Co.	....., Indianapolis, Ind. 100 watts. State police.
WJER, Broadcast pickup. WTMJ, The Milwaukee Journal, 333 W. State St., Milwaukee, Wisc.	
WMEF, Broadcast pickup. 150 W. National Broadcasting Co.	
....., Funtler Bay Camp, Alaska.	
1.610 megs. 186.22 m.	
....., Chicago, Ill.	
....., DeQuoin, Ill.	
....., Effingham, Ill.	
....., Macomb, Ill.	
....., Pontiac, Ill.	
....., Springfield, Ill.	
....., Sterling, Ill.	
1.615 megs. 185.65 m.	
YDB4, Tjopoe, N. E. I. 25 W. N. V. Nederlandsche Indische Radio Omroep Meatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	
1.620 megs. 185.97 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. Felicien, P. Q. 100 W. Address CFL above.	
1.622 megs. 184.85 m.	
KGXU, Port Armstrong, Alaska. Buchan & Heinen. KHP, Deep Cove, Alaska. (KIJV) Atlas Packing Co.	
KIED, Broadcast pickup. (KFWS, Warner Bros., Hollywood, Calif.)	
KIFI, Broadcast pickup. (WDGY, Dr. Young, 909 W. Broadway, Minneapolis, Minn.)	
KIIQ, Broadcast pickup. (KMTR Radio Corp., Hollywood.)	
KIJI, Port Conclusion, Alaska. Northwestern Herring Co.	
KIJK, Washington Bay, Alaska. Storfold & Grondahl.	
KIJO, Port Herbert, Alaska. P. H. Packing Co.	
KIJS, Newport Walter, Alaska. Chatham Strait Fish Co.	
KIJV, Deep Cove, Alaska. 50 watts. (KHP) Atlas Packing Co.	
KILU, Broadcast pickup. (KARK, N.S.L. Bldg., Little Rock, Ark.)	
KIOG, Red Bluff, Alaska. 50 watts. Richmond Fisheries Co.	
WIEH, Broadcast pickup. (WMCA, 1697 Broadway, N. Y. City)	
WKEM, Broadcast pickup. (WINS, Hearst Radio, 110 E. 58th St., N. Y. City)	
1.630 megs. 183.94 m.	
WEY, Boston, Mass. Marine Fire Station.	
WKDT, Detroit, Mich. Marine Fire Station.	
YDD2, Bandoeng, Java, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Meatschappij, Tegallegh O. 23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.	
1.634 megs. 183.48 m.	
WPHE, Marion County, Ind. 1 kW. Indiana State Police.	
WPHS, Culver, Ind. 1 kW. Municipal police.	
WPIIU, Jasper, Ind. 1 kW. State of Ind., Dept. of Safety.	
WQFE, Seymour, Ind. 1 kW. State of Ind., Dept. of Public Safety.	
WQFW, Columbia City, Ind. 1 kW. State of Ind.	
1.640 megs. 182.82 m.	
YDA3, Buitenszorg, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Meatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	
1.642 megs. 182.59 m.	
WRDS, E. Lansing, Mich. 1 kW. night; 5 kW. day. State police.	
1.646 megs. 182.15 m.	
KNEC, Broadcast pickup. 40 w. KVI, Puget Sound Brdcstg. Co.	
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.	
1.650 megs. 181.71 m.	
VBV, Lunenburg, N. S. Works ships. Lunenburg Sea Products Ltd. Operated by Canadian Marconi.	
1.658 megs. 180.83 m.	
KNHD, Redwood Falls, Minn. 400 w. State of Minn.	
KSW, Berkeley, Calif. Municipal police.	
WPCC, S. Schenectady, N. Y. 1 kW. night; 5 kW. day. State police.	
....., Redwood Falls, Minn. 500 watts.	
1.660 megs. 180.62 m.	
YDB3, Djokja, N. E. I. 100 watts. N. V. Nederlandsch Indische Radio Omroep Meatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	
1.666 megs. 179.96 m.	
WMP, Frammingham, Mass. 1 kW. State police.	
WPFL, W. Bridgewater, Mass. 1 kW. State police.	
WPEV, Portable in Mass. 50 watts. State police.	
WPEW, Northampton, Mass. 1 kW. State police.	
....., Nashville, Tenn. Municipal police.	
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-Cresse, Sask. Address CFC above.	
VYP, Prince Albert, Sask. Address CFC above.	
1.674 megs. 179.10 m.	
KGHK, Palo Alto, Calif. 20 watts. Municipal police.	
KGZT, Santa Cruz, Calif. 100 watts.	
KIUR, Jefferson City, Mo. State police.	
WPSP, Harrisburg, Pa. 1 kW. State police.	
1.682 megs. 178.25 m.	
KACC, Fairfield, Iowa. 500 w. State of Iowa.	
KACD, Atlantic, Iowa. 500 w. State of Iowa.	
KGHO, Des Moines, Ia. State of Iowa, Bureau of Investigation.	
KNFN, Waterloo, Iowa. 400 watts.	
KNFO, Storm Lake, Iowa. 400 watts.	
W3XA, Portable in Ohio. 50 watts. Dept. of Highways, Div. of State Highway Patrol.	
1.692 megs. 177.19 m.	
WQFT, Portable in Ohio. 100 w.	

SHORT WAVE STATIONS BY FREQUENCIES

1.698 megs. 176.57 m.
KNGG, Phoenix, Ariz. 1 kW. Arizona State Highway Dept.

1.766 megs. 175.74 m.
KGPC, St. Louis, Mo. City of St. Louis.
WKDU, Cincinnati, Ohio. City of C.
WPET, Lexington, Ky. City of L.

1.712 megs. 175.13 m.
CPMN, Havana, Cuba Police.
CZG, Prince Rupert, B. C., 150 watts. B. C. Provincial police.

KCHY, Whittier, Calif. 30 watts. City of W.
KGJN, Pasadena, Calif. 400 watts. City of P.
KGPI, Beaumont, Tex. City of B.
KGPL, Los Angeles, Calif. City of Los A.
KGPQ, Honolulu, T. H. 500 w. City and County of H.

KGPR, Fort Worth, Texas. City of Ft. W.
KGZN, Houston, Tex. City of H.
KGZL, Shreveport, La. City of S.
KGZO, Waco, Texas. City of W.
KGZY, San Bernardino, Calif. 50 watts. City of San. B.

KNFJ, Pomona, Calif. 50 watts. City of P.
KNGE, Cleburne, Tex. 50 watts. City of C.
KNGI, Galveston, Tex. 50 watts. City of G.
KNHF, Denton, Texas. 50 w. City of D.
KYP, Dallas, Tex. 500 watts. City of D.
VYR, Montreal, P. Q. 400 watts. Police calls in French and English. City of M. Police Dept.

WPDB, Chicago, Ill. City of C.
WPDC, Chicago, Ill. City of C.
WPDD, Chicago, Ill. City of C.
WPDU, Pittsburgh, Pa. City of P.
WPED, Arlington, Mass. Town of A.
WPEH, Somerville, Mass. City of S.
WPEI, E. Providence, R. I. E. Prov. Police Dept.

WPEJ, Brookline, Mass. City of B.
WPEA, Newton, Mass. City of N.
WPFN, Fairhaven, Mass. Address: City of New Bedford Police.

WPGF, Providence, R. I.
WPGY, Boston, Mass. 500 watts. City of B.
WPHG, Medford, Mass. 50 watts. City of M.
WQEL, Oak Park, Ill. City of O. P.
WQFX, Waukegan, Ill.

1.715 megs. to 2.080 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 159.99 meters). Australia, Argentina, Canada, Ecuador, Estonia, Union of South Africa, United States of America.

1.840 megs. 162.95 m.
YDJ4, Cheribon, N. E. I. Batavia Radio Vereeniging.

1.850 megs. 162.06 m.
YDUS, Randjermasin, Borneo, N. E. I. Owner: "Eureka."

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.

1.980 megs. 157.80 m.
YDGG, 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.
YDHS, Bandseng, N.E.I. Owner: v. d. Hayden.

1.980 megs. 151.42 m.
YD08, Soerabaja, N.E.I. Owner: Gazallehuis.

2.820 megs. 148.43 m.
KNED, Broadcast pickup. 50 watts. (WBAP, Blackstone Hotel, Ft. Worth, Texas).
WIEO, Broadcast pickup. 50 watts. N. B. C., 38 Rockefeller Plaza, N. Y. City.
WMEF, Broadcast pickup. 150 watts. Address WIEO above.

2.850 megs. 146.25 m.
W9XAK, Manhattan, Kans. Television. Mon., 1945-2030. Wed. 2100-2200.

2.060 megs. 145.54 m.
KIFO, Broadcast pickup. 200 watts.
KIIQ, Broadcast pickup. (KMTR Radio Corp., Hollywood).
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.

2.890 megs. 143.45 m.
KNEC, Broadcast pickup. KVI, Puget Sound Broadcast Co., Tacoma.
YDGS, 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.
KNED, Broadcast pickup. 50 watts. (WBAP, Blackstone Hotel, Ft. Worth, Texas)
WHER, Broadcast pickup. (KDKA, Grant Bldg., Pittsburgh).

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.

2.110 megs. 142.09 m.
W1XH, Boston, Mass.
YD12, Soekabeemi, N. E. I., Batavia Radio Vereeniging.

2.150 megs. 139.45 m.
KIED, Broadcast pickup. KFWB, Warner Bros., Hollywood, Calif.

KIEO, Broadcast pickup. KFSD, U. S. Grant Hotel San Diego, Calif.

KIFI, Broadcast pickup. WDGY, Dr. Young, 989 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.

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.

WLEZ, Broadcast pickup. WJAG, Norfolk Daily News, Norfolk, Nebr.

2.190 megs. 136.90 m.
KIHH, Broadcast pickup. KFAB, Cornhusker Hotel, Lincoln, Nebr.

KNEC, Broadcast pickup. 40 w. KVI, Puget Sound Broadcast Co., Tacoma.

SHORT WAVE STATIONS BY FREQUENCIES

WIEK , Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., New York City.	WIEK , Broadcast pickup. 50 watts. Address WIED above.
WIEL , Broadcast pickup. Address WIEK above.	
2.212 megas. 135.54 m.	2.396 megas. 125.14 m.
VYZ , High Falls, P. Q. 50 watts. James McLaren Co., Ltd.	YVW , Winnipeg, Man. 600 watts. Board of Police Commissioners. Tests 15, 35 and 55 minutes past each hour.
2.284 megas. 131.22 m.	2.406 megas. 124.61 m.
CFT , Leamington, Ont. 14 watts. Dept. of Public Works.	KGHZ , Little Rock, Ark. City of L. R. Police.
CFX , Pelee Island, Ont. 22 watts. Dept. of Public Works.	KGPW , Salt Lake City, Utah. City of S. L. C. Police.
CKB , Pictou, N. S. 15 watts. Dept. of Public Works.	....., Fort Smith, Ark.
CKO , Crane Island, P. Q. 15 watts. Dept. of Public Works.	2.414 megas. 124.20 m.
CKP , Montmagny, P. Q. 15 watts. Dept. of Public Works.	KACE , Olympia, Wash. 50 w. City of O.
CKU , Pictou Island, N. S. 15 watts. Dept. of Public Works.	KGHW , Centralia, Wash. 15 watts. City of C. Police.
2.290 megas. 130.93 m.	KGPA , Seattle, Wash. Seattle Police Dept.
CFV , Namu, B. C. 100 watts. British Columbia Packers, Ltd.	KGPF , Santa Fe, N. Mex. 25 watts. Police.
CFW , Bones Bay, B. C. 100 watts. Canadian Fishing Co., Ltd.	KGPS , Bakersfield, Calif. City of B. Police.
CJE , Cecepeece, B. C. 10 watts. Canadian Packing Corp.	KGZA , Fresno, Calif. 500 watts. City of F. Police.
CJX , Margaret Bay, B. C. Canadian Fishing Co., Ltd.	KGZM , El Paso, Texas. City of E. P. Police.
CZL , Humpback Bay, B. C. 100 watts. Chatham Sound Fishing & Packing Co., Ltd.	KGZN , Tacoma, Wash. City of T. Police.
VFJ , Homalke, B. C. 100 watts. Homalke Logging Co., Ltd.	KGZO , Santa Barbara, Calif. City of S. B. Police.
2.304 megas. 130.13 m.	KGZY , Aberdeen, Wash. 150 watts. City of A. Police.
KBAI , Ketchikan, Alaska. Forestry.	KGZX , Albuquerque, N. Mex. City of A. Police.
KMYA , Juneau, Alaska. Forestry.	KNFA , Clovis, N. Mex. 50 watts. City of C. Police.
2.342 megas. 128.02 m.	KNFI , Mt. Vernon, Wash. 50 watts. Skagit County Police.
CGZ , Vancouver, B. C. 400 w. Corp. of the City of V.	KNFP , Everett, Wash. 50 watts. City of E. Police.
2.350 megas. 127.58 m.	KNGU , Yakima, Wash. 100 watts.
VBQ , Halifax, N. S. 25 watts. Works ships in harbor.	WCK , Detroit, Mich. D. City Police.
YDES , Djokjakarta, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java. 0530-1100; 1745-1845; 2230-0130.	WMO , Highland Park, Mich. City of H. P. Police.
2.366 megas. 126.72 m.	WPDA , Tulare, Calif. 150 watts.
WAKC , Freehold, N. J. 100 w. Monmouth County Welfare House, Brier Hill Rd.	WPDJ , Passaic, N. J.
2.382 megas. 125.87 m.	WPDX , Detroit, Mich. City of D. Police.
KGHT , Brownsville, Tex. 25 watts. City of B.	WPDY , Atlanta, Ga. City of A. Police.
KGHV , Corpus Christi, Texas. 50 watts. City of C. C.	WPFH , Baltimore, Md. City of B. Police.
KNFE , Duluth, Minn. City of D. Police.	WPFJ , Columbus, Ga. City of C. Police.
KNBH , Green Bay, Wisc. 50 w. City of G. B.	WPGH , Albany, N. Y. 300 watts. City of A. Police.
WPDN , Auburn, N. Y. Police.	WPGJ , Utica, N. Y. 100 watts. City of U. Police.
WPEA , Syracuse, N. Y. City of S. Police.	WPGM , La Grange, Ga. 50 watts.
WPFM , Birmingham, Ala. 400 watts. City of B. Police.	WQFB , Macon, Ga. 50 watts.
WPGW , Mobile, Ala. 400 watts. City of M. Police.	WQFJ , Oneonta, N. Y. 50 w. City of O.
....., Hibbing, Minn.	WQFV , Augusta, Ga. 250 w. City Council of A.
2.385 megas. 125.71 m.	WRDR , Grosse Pointe, Mich. Township of G. P.
YDA2 , Batavia (C), Java, N. E. I. 15 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia Centrum, Java, N.E.I. 0530-1100 1745-1845 2230-0130.	....., Bakersfield, Calif.
2.390 megas. 125.45 m.	....., Lodi, Calif.
CJW , Saint John, N. B. 15 watts. Dept. of Public Safety.	2.415 megas. 124.15 m.
CJZ , Verdun, P. Q. 20 watts. City of V. Police.	YDEA , 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.
WIED , Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.	2.416 megas. 124.09 m.
	CZG , Prince Rupert, B. C. 150 watts. B. C. Provincial Police.
	2.422 megas. 123.79 m.
	KCPK , Kansas City, Mo. City of K. C. Police.
	KCPG , Vallejo, Calif. City of V. Police.
	KGZC , Topeka, Kans. City of T. Police.
	KNFL , Leavenworth, Kans. 100 watts. City of L.
	KNFC , Sacramento, Calif. 500 watts.
	KNGV , Salina, Kans., 50 w. City of S.
	....., Eureka, Calif.
	WMJ , Buffalo, N. Y. City of B. Police, 757 E. Perry St.

SHORT WAVE STATIONS BY FREQUENCIES

WNFP, Niagara Falls, N. Y. 135 watts. City of N. F.
WPDR, Rochester, N. Y. City of R. Police.
WPDW, Washington, D. C. Municipal Police.
WPFU, Portland, Me. City of P. Police.
WPHB, Nashua, N. H. 50 watts. City of N. Police.
 , Atchison, Kans. 50 w.

2.430 megs.	123.38 m.
KCHX , Santa Ana, Calif. 400 watts. Orange county Police.	
KGPB , Minneapolis, Minn. 500 watts. City of M.	
KGZJ , Phoenix, Ariz. Municipal Police.	
KNGP , Shreveport, La. 100 watts.	
WPDI , Columbus, Ohio. Franklin County Police.	
WPDN , Dayton, Ohio. City of D. Police.	
WPDH , St. Paul, Minn. City of S. P. Police.	
WPEK , New Orleans, La. 250 watts. City of N. O. Police.	
WPFJ , Highland Park, Ill.	
WPFK , Hackensack, N. J. Bergen County Police Dept.	
WPGI , Portsmouth, Ohio. 50 watts. City of P. Police.	
WPHO , Zanesville, Ohio. 50 watts.	
WQFO , Lancaster, Ohio. 50 watts. City of L. Police.	
..... , Prescott, Ariz.	

2.442 megs.	122.77 m.
KGHU , Austin, Texas, 100 watts. City of A. Police.	
KGPP , Portland, Ore. City of P. Police.	
KGPX , Denver, Colo. City and County of D. Police.	
KGZH , Klamath Falls, Ore. City of K. F. Police.	
KGZR , Salem, Ore. 50 watts. City of S. Police.	
KNHM , Fargo, N. Dak. 50 w. City of F.	
WMDZ , Indianapolis, Ind. Municipal Police.	
WPDZ , Louisville, Ky. City of L. Police.	
WPDF , Flint, Mich. City of F. Police.	
WPDH , Richmond, Ind. City of R. Police.	
WPDL , Lansing, Mich. City of L. Police.	
WPEJ , Grand Rapids, Mich. 500 watts. City of G. R.	
WPES , Saginaw, Mich. City of S. Police.	
WPFK , Muskegon, Mich. City of M. Police.	
WFFE , Reading, Pa. City of R. Police.	
WPFJ , Jacksonville, Fla. City of J. Police.	
WFFT , Lakeland, Fla. 50 watts. City of L. Police.	
WPFX , Palm Beach, Fla. 50 watts. Town of P. B.	
WPFY , Yonkers, N. Y. 400 watts. City of Y. Police.	
WPFZ , Miami, Fla. 100 watts. City of M. Police.	
WPGL , Binghamton, N. Y. 400 watts. City of B.	
WPGP , Muncie, Ind. 100 watts. City of M. Police.	
WPHM , Orlando, Fla. 50 watts. City of O. Police.	
WQFM , Wilkes-Barre, Pa. 50 w. City of W.-B.	
WQFO , Lafayette, Ind., 50 w. City of L.	
..... , Winter Haven, Pa.	

2.450 megs.	122.38 m.
KACF , Chickasha, Okla., 50 w. City of C.	
KGHN , Hutchinson, Kas. 50 w. City of H.	
KGHP , Lawton, Okla. 50 w. City of L.	
KGPH , Oklahoma City, Okla.	
KGPO , Tulsa, Okla. City of Tulsa Police.	
KGPZ , Wichita, Kans. 250 watts. City of W. Police.	
KGZF , Chanute, Kans. 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.
KNGO, Mobile in Airplane, Oklahoma State Police.
 50 watts.
KNGT, Muskogee, Okla. 50 watts.
KNHC, Ada, Okla., 25 w. City of A.
WPKK, 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.
WQFC, Roanoke, Va. 100 watts.
WQFH, Lynchburg, Va. 50 watts. City of L.
WQFI, Petersburg, Va. 50 w. City of P.
YDB2, Semarang, N. E. I. 150 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-2100; 1745-1845; 2230-0130.
 , Milwaukee, Wis.

2.458 megs.	121.97 m.
KGHS , Spokane, Wash. 100 w. City of S. Police	
KGZI , Wichita Falls, Tex. City of W. F. Police	
KGZW , Lubbock, Tex. 150 w. City of L. Police.	
KNFB , Idaho Falls, Idaho. 500 watts.	
KNGW , Brownwood, Tex. 50 watts.	
WPDZ , Youngstown, Ohio. 250 w. City of Y.	
WPDO , Akron, Ohio. 250 w. City of A. Police	
WPDY , Charlotte, N. C. City of C. Police.	
WPFJ , Asheville, N. C. 200 watts. Buncombe County Police.	
WPCD , Rockford, Ill. City of R. Police.	
WPHD , Steubenville, Ohio. 100 watts.	
WQFZ , Ottawa, Ill. 250 w. La Salle County Police.	
WRBH , Cleveland, Ohio. City of C.	

2.466 megs.	121.58 m.
KGOZ , Cedar Rapids, Iowa. 50 watts. City of C. R.	
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.	
KGZC , Des Moines, Iowa. City of D. M. Police.	
WAKB , New London, Conn. 50 w. City of N. L.	
WPEC , Memphis, Tenn. City of M. Police.	
WPEM , Woonsocket, R. I. City of W. Police.	
WPEV , Pautucket, R. I. City of P. Police.	
WPFW , Bridgeport, Conn. 50 w. City of B. Police.	
WPG-A , Bay City, Mich. City of B. C. Police.	
WPGB , Port Huron Mich. City of P. H. Police.	
WPGC , Cranston, R. I. 50 w. City of C. Police.	
WPGD , Worcester, Mass. 100 watts. City of W. Police.	
WPHA , Fitchburg, Mass. 50 watts. City of F. Police.	
WPHN , Tampa, Fla. 100 w. City of T. Police.	
WPHP , Jackson, Mich. 50 w. City of J. Police.	
WQFC , New Haven, Conn. 100 watts.	
WQFC , Gainesville, Fla. 50 watts.	
WQFK , Clearwater, Fla. 50 w. City of C.	

2.474 megs.	121.19 m.
KGIG , Las Vegas, Nev. 50 watts.	
KGHM , Reno, Nev. 50 w. City of R. Police.	
KNFH , Garden City, Kans. 50 w. City of G. C.	
KNGH , Dodge City, Kans. 50 watts.	
WPPD , Philadelphia, Pa. City of P. Police.	
WPFQ , Knoxville, Tenn. City of K. Police.	
WPFQ , Swarthmore, Pa. Borough of S. Police	

SHORT WAVE STATIONS BY FREQUENCIES

WPFS, Asheville, N. C. 200 watts. Buncombe County Police.
WPGZ, Johnson City, Tenn. 50 w. City of J. C.
WPHY, Elizabethton, Tenn. 100 watts. Carter County Police.
WQFY, Mansfield, Ohio. 50 w. City of M.
WRDQ, Toledo, Ohio. 400 watts. City of T. 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.
WQFF, Monessen, Pa. 50 watts.
 , Sharon, Pa.

2.490 megs. 120.41 m.

KGHA, Snowplow No. A232, 10 watts. State of Wash.
KGHB, Snowplow No. A227, 10 watts. State of Wash.
KGHC, Portable in Washington. 10 watts. State of W.
KGHD, Seattle Wash. 50 w. State of Wash.
KGHE, Snoqualmie Pass, Wash. State of W., Highway & Police Dept.
KGHC, 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, Neb. City of L. Police.
KNFC, Pt. Angeles, Wash. State Highway.
KNFG, Olympia, Wash. 50 watts. State of W. Police.
KNFK, Bellingham, Wash. 50 watts. State of Wash.
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 w. State of W.
KNFX, Ellenburg, Wash. 10 watts. Address KNFS above.
KNFY, Bear Camp, Wash.
KNFZ, Bells 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.
KNGJ, El Centro, Calif. 50 watts.
KNGN, Norfolk, Nebr. 25 watts.
KNQG, Wenttchee, Wash. 50 watts. Address KNFS.
KNCR, Spokane, Wash. 50 w. Address KNFS.
KNCZ, Ephrata, Wash. 10 w. State of W.
WAKA, Huntington, Ind. 50 w. City of H.
WPDZ, Kokomo, Ind. City of K. Police.
WPDZ, Fort Wayne, Ind. City of F.W. Police.
WPFQ, 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.
WPCS, 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.

2.586 megs. 119.64 m.

KLH, San Rafael, Calif. Pacific Telephone & Telegraph Co.
WOU, Marshfield, Mass. Phones fishing vessels.

2.512 megs. 119.35 m.

KGM, Ketchikan, Alaska. Alaska Pacific Salmon Co.
KLB, Port Altherp, Alaska. Address KGM above.
KLC, Kake, Alaska. Address KGM above.
KLE, Rose Inlet, Alaska. Address KGM.
SHIPS owned by Alaska Pacific Salmon Co. as follows:
KGJK, Jeannette E.; KGNM, Doris E.;
KGNX, Yes Bay; WDEM, Wm. T. Muir;
WFFR, Frances E.; WIDL, Leonine; WIDM, Sally S.; WIDN, Virginia E.; WNFM, Alice.

2.522 megs. 118.88 m.

KOW, Edmonds, Wash. Pacific Telephone & Telegraph Co.

2.538 megs. 118.13 m.

KDH, Port Alexander, Alaska. Karl Hansen.
KDK, Wrangell, Alaska. Works KIJJ, KLA, KFF, KLD daily at 0130. Owner: A. R. Brueger.
KDV, Cordova (Eyak River), Alaska. Pletcher Sea Foods Co.
WNFG, M. S. Arb No. 3. Owner: A. R. Eureger.

2.550 megs. 117.58 m.

WMES, Lorain, Ohio. 500 watts. Public Coastal Station. Lorain County Radio Corp.

2.566 megs. 116.84 m.

KFF, Union Bay, Alaska. Works KDK. Nakat Packing Corp.
KHV, Nakeen, Alaska. Nakat Packing Corp.
KLA, Waterfall, Alaska. Works KDK. Address above.
KLD, Hidden Inlet, Alaska. Works KDK. Address above.
KOU, Wilmington, Calif. Southern Calif. Telephone Co.
WLFP, M. S. "Alaskan". Works KDK.
 A number of Motorships owned by the Nakat Packing Corp. work on this frequency

2.590 megs. 115.76 m.

WOX, St. George, Staten Island, N. Y. Harborphone. New York Telephone Co.

2.604 megs. 115.14 m.

KNIA, Glacier National Park, Montana.
KNKS, Yosemite National Park, Calif.
KNKU, Yosemite National Park, Calif.
KNKX, Deer Camp, Yosemite, Calif.
KNKY, Devil's Post Pile Nat'l Monument, Calif.
WVD, Seattle, Wash. 500 watts. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.
WXH, Ketchikan, Alaska. Works WVD.
WYBF, Napeleen, Mo. 500 watts. United States Army.

2.616 megs. 114.61 m.

KAEB, Hyadaburg, Alaska. 40 w. Territory of A.
KAED, Angoon, Alaska. 40 w. Territory of A.
KAEF, Jack Wade, Alaska. 40 w. Territory of A.
KION, Tin City, Alaska. 200 w. American Tin Fields, Inc.
KIUQ, Igloo, Alaska. 50 w. H. H. Burkher.
 , Deering, Alaska.
 , Kaslof, Alaska.
 , Kenal, Alaska.
 , Wales, Alaska.

2.632 megs. 113.91 m.

KGI, Nellie Juan, Alaska. (KIOD) Copper River Packing Co.
KGX, Port Wakefield, Alaska. (KIOC) Apex Fish Co.
KIJW, Shearwater Bay, Alaska. Kadiak Fisheries Co.
KIJX, Kadlak Island, Alaska. Kadiak Fisheries.
KIMA, Port Hobron, Alaska. American Pacific Whaling Co.

SHORT WAVE STATIONS BY FREQUENCIES

KIOC, Port Wakefield, Alaska. (KGX) Apex Fish Co.
 KIOD, Nellie Juan, Alaska. 50 watts. Phones Anchorage and ships. Copper River Packing Co.
 KIOH, Iron Creek (Rasberry Straits), Alaska. 50 watts. Southwestern Herring Co.
 KIOD, Akutan, Alaska. 50 watts. American Pacific Whaling Co.
 , Funtar Bay Camp, Alaska.

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

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

NMN, Cape Henry, Va. 200 watts. U. S. Coast Guard.
 NMP, Wilmette, Ill. 200 watts.
 NMV, Fort Lauderdale, Fla. 200 watts. U. S. Coast Guard.

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

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

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

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

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

NOR, Sault Ste. Marie, Mich. 200 watts.
 NOU, New London, Conn. 200 watts. U. S. Coast Guard.

NOV, Cape May, N. J. 200 watts. U. S. Coast Guard.
 NOY, Galveston, Texas. 200 watts.
 NOZ, Port Townsend, Wash. 200 watts.
 , Yaquina Bay, Ore. U. S. C. G.

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

NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.
 NOR, Sault Ste. Marie, Mich. 200 watts.
 , Arena Cove, Calif. Works NMC, U. S. C. G.

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

2.726 megs. 105.98 m.
 KIIV, San Gabriel Dam No. 2, Calif. 200 watts. Los Angeles County Flood Control District.

KIIX, Tujunga Dam No. 1, Calif. Address KIIV above.

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

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

2.728 megs. 109.90 m.
 KIYJ, Hood River, Ore. 100 watts. Special emergency station owned by Cray Rats, Inc., a mountain-climbing organization.

KIJZ, Portable in Oregon. See above.

2.738 megs. 109.50 m.
 KLGK, M. S. La Merced. Alaska Southern Packing Co.

VGBQ, Yacht Seyelyn II. Capt. Paul F. Johnson.
 WDDQ, "Zapora". Wills Navigation Co
 WDFL, "El Ferrito". Ben S. McGlashan, KGfJ, 1417 S. Figueroa, Los Angeles.

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

WLFJ, "Onawa", C. M. Poncin.
 WLFQ, Yacht "Heljim". 40 w. J. V. Griffith, Tacoma, Wash.

WLFS, "Uganik." San Juan Fishing & Packing Co.
 WOFM, "Principia." L. A. Macomber.

WOFW, Yacht "Gallant Lady," 40 w. M. C. Riggs. Tacoma, Wash.

2.750 megs. 109.03 m.
 YDL6, Djekjakarta, N. E. I. Owner: v. Wingen.

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

WMEF, Broadcast pickup. 150 watts. Address WIEO above.

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

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

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

2.830 megs. 105.94 m.
 KNEC, Broadcast pickup. 40 w. Puget Sound Broadcasting Co., Tacoma, Wash.

KNEF, Broadcast pickup. 200 w. KSL, Salt Lake City.
 YDU4, Medan, Sumatra, N. E. I. Owner: Avrom.

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

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

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

2.912 megs. 102.96 m.
 KHW, Akutan, Alaska. American Pacific Whaling Co.
 KHZ, Port Hobron, Alaska. Address KHW.

2.930 megs. 102.93 m.
 WMEP, Suffield, Ohio. 400 watts.
 WMEU, St. Petersburg, Fla. 400 watts.
 WMEV, Opa Lecka, Fla. (Goodyear Zeppelin Base). 400 watts.

WDO5, Seerabaja, N. E. I. Owner: Goldberg.

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

2.980 megs. 100.61 m.
 CZA, Drummondville, P. Q. 4 kW. Phones ships. Canadian Marconi Co., Box 1630, Montreal, P. Q.

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

KGQ, Todd, Alaska. Peril Straits Packing Co.
 KIJP, Uganik, Alaska. Works KIJR, KIJU. San Juan Fishing & Packing Co.

KIJR, Port San Juan, Alaska. Works KIJP, KIJU. Address KIJP.

KIJU, Todd, Alaska. Works KIJR, KIJP. Peril Straits Packing Co.
 WNFJ, M. S. Sunset. Alaska Southern Packing Co. , Kenai, Alaska.

2.994 megs. 100.14 m.
 KAEF, Jack Wade, Alaska. 40 w. Territory of A.
 KDY, Pillar Bay, Alaska. Fidalgo Island Packing Co
 KIEJ, Poorman, Alaska. 50 watts. Owner: W. N. Grawden.

KIJJ, Tanana, Alaska. Northern Commercial Co.
 KIJK, Circle, Alaska. 50 watts. Phones Fairbanks, Anchorage, etc. Northern Commercial Co.

KIIL, Fort Yukon, Alaska. 50 watts. Phones WXP

SHORT WAVE STATIONS BY FREQUENCIES

Fairbanks, and WXE Anchorage. Northern Commercial Co.		3.200 megs.	93.69 m.
KIIM, Hot Springs, Alaska. 50 watts. See KIIL above.		KBAL, North Bend, Wash. Forestry.	
KIIN, Eagle, Alaska. 50 watts. See KIIL above.		KBAP, Seattle, Wash. Forestry.	
KIIO, McGrath, Alaska. 50 watts. See KIIL above.		KBCC, Mt. Shasta, Calif. Forestry.	
KIJB, Cape Pole, Alaska. 50 watts. R. Brueger.		3.210 megs.	93.40 m.
KI LY, Excursion Inlet, Alaska. 50 w. Astoria & Puget Sound Cannng Co.		YDL5, Djokjakarta, N. E. I. Owner: Helant Muller.	
KNBZ, Pillar Bay, Alaska. (KDY) Address KDY above.		3.230 megs.	92.82 m.
3.040 megs.	98.62 m.	YDQ4, Malang, N. E. I. Owner: Radinova.	
CFQ, Edmonton, Alta. Edmonton Journal, Ltd.		3.250 megs.	92.25 m.
CGE, Calgary, Alta. 100 watts. Calgary Herald Ltd., Southam Bldg.		YDH5, Garoet, Java, N. E. I. Bandoeng Radio Vereeniging.	
CKS, Portable. 100 watts. Calgary Herald; see above.		3.265 megs.	91.83 m.
YDA, Tandjongpriok, N. E. I. 10 kW. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.		KAEB, Hydarburg, Alaska. 40 w. Territory of A.	
3.070 megs.	97.66 m.	KIBZ, Waterfall, Alaska. Nakat Packing Corp.	
CJU, Winnipeg, Man. Canadian Airways, Ltd. (Western Lines), 60 Brock St., Winnipeg.		KICE, Nakeen, Alaska. Nakat Packing Corp.	
WKDL, Miami, Fla. (airway).		KICC, Union Bay, Alaska. Nakat Packing Corp.	
WMDU, San Juan, Puerto Rico. (airway).		KIDE, Hidden Inlet, Alaska. Nakat Packing Corp.	
3.093 megs.	96.94 m.	KIKY, Saldovia, Alaska. 40 watts. Adam W. Lipke.	
KAED, Angoon, Alaska. 40 w. Territory of A.		3.270 megs.	91.69 m.
KIAP, Rose Inlet, Alaska. 100 watts. Alaska Pacific Salmon Co.		YDAT, Pekalongan, N. E. I. 15 watts.	
KIAW, Port Althorp, Alaska. Address KIAP above.		YDJ2, Pekalongan, N. E. I. Owner: v. Wingen.	
KIAY, Ketchikan, Alaska. Address KIAP above.		YDK4, Magelang, N. E. I. Owner: v. Wingen.	
KIBA, Kake, Alaska. Address KIAP above.		3.290 megs.	91.13 m.
KICI, View Cove, Dall Island, Alaska. 50 watts. Superior Portland Cement Co.		YD03, Soerabaja, N. E. I. Owner: Radio Electric.	
KIIP, Willow Creek Mines, Luckyshot, Alaska. 30 watts. Phones Anchorage. Owner: W. E. Dunkle.		3.300 megs.	90.85 m.
KIKN, Eyak River, Alaska. 50 watts. Pioneer Sea Foods Co.		CVZ, Waterloo Mine, B. C. Waterloo Gold Mines Ltd.	
KIUZ, Hoonah, Alaska. 40 w. Territory of A.		KBAT, Olympia, Wash. Forestry.	
3.125 megs.	95.94 m.	KBAU, Quilcene, Wash. Forestry.	
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.		KBCQ, Boise, Idaho. Forestry.	
3.130 megs.	95.79 m.	YDG7, Batavia, Java, N. E. I. Owner: Pianohandel Kok.	
YDH6, Bandoeng, N. E. I. Owner: Prot. Kerk.		3.310 megs.	90.58 m.
3.150 megs.	95.18 m.	YDH4, Bandoeng, Java, N. E. I. Owner: Luyks.	
YDG3, Batavia, Java, N. E. I. Owner: Luyks.		3.320 megs.	90.31 m.
3.152 megs.	95.12 m.	YDM2, Tjopoe, N. E. I. Radio Vereeniging.	
CGM, Montreal, P. Q. Canadian Marconi Co., Box 1690, M. Phones CGY		3.330 megs.	90.04 m.
CGY, Yamachiche, P. Q. Phones CGM. Address CGM above.		YDV2, Bandjermasin, Borneo, N. E. I. Owner: Eureka.	
3.155 megs.	95.03 m.	3.340 megs.	89.77 m.
KBCJ, San Francisco, Calif. Weather Bureau.		CGD, Drummondville, P. Q. Private station of Canadian Marconi Co., P. O. Box 1690, Montreal, P. Q.	
3.170 megs.	94.58 m.	CGM, Montreal, P. Q. Private CMC station. Address CGD above.	
YD04, Soerabaja, N. E. I. Owner: Jarico.		3.345 megs.	89.63 m.
3.190 megs.	93.99 m.	SP33, Weaverville, Calif. Forestry.	
KIIL, Tanana, Alaska. Northern Commercial Co.		3.350 megs.	89.50 m.
KIIK, Circle, Alaska. 50 watts. Phones Fairbanks and Anchorage. Northern Commercial Co.		YDQ3, Malang, N. E. I., operated by Malangsche Radio Vereeniging. Owner: W. Lammerce, c/o Radio-Technisch Bureau Lammerce, Bromostraat 21a, Malang.	
KIIL, Fort Yukon, Alaska. 50 watts. See KIIL above.		3.385 megs.	88.57 m.
KIIM, Hot Springs, Alaska. 50 watts. See KIIL above.		KBAA, Portland, Ore. Forestry.	
KIIN, Eagle, Alaska. 50 watts. See KIIL above.		KBCA, Santa Barbara, Calif.	
KIIO, McGrath, Alaska. 50 watts. See KIIL above.		KBCB, Santa Barbara, Calif.	
YDK2, Semarang, N. E. I. Owner: Wels.		KBCC, Yreka, Calif.	
		KBCH, Oakland, Calif.	
		3.387 megs.	89.50 m.
		KGYA, Longmire, Wash. Forestry station. Address Mr. R. D. Waterhouse, Mount Ranier National Park, Longmire.	
		KG YB, Longmire, Wash. Address KGYA above.	
		KG YC, Paradise Inn, Mt. Ranier National Park, Longmire, Wash.	
		KG YD, Sunrise Lodge, Mt. Ranier Park, Longmire, Wash.	

SHORT WAVE STATIONS BY FREQUENCIES

KGYE, White River, Wash. Address KGYA above. KGYF, Carbon River, Wash. Address KGYA above. KGYG, Portable station of the Forestry Dept. of the State of Washington. KGYH, same as KGYG above. KGYI, Seattle, Wash. Forestry. KNDK, Mt. Olympus Natl. Mon., Wash. Forestry. KNDL, Mt. Olympus Natl. Mon., Wash. Forestry. KNDM, Mt. Olympus Natl. Mon., Wash. KNDP, Anderson Park, Mt. Olympus Mon., Wash. KNDI, Pt. Angeles, Wash. KNDS, Low Divide, Mt. Olympus Mon., Wash. KNDT, Mt. Olympus Natl. Mon., Wash. KNLS, Gobblers Knob, Mt. Ranier Park, Wash. KNLT, Cataract Creek, Wash. Forestry. KNLU, Tolmie Peak, Mt. Ranier Park, Wash. KNLV, Fremont, Wash. Forestry. KNLX, Shriners Peak, Mt. Ranier Natl. Park, Wash.	3,490 megs. 85.91 m. YDH3, Bandoeng, Java, N. E. I. Owner: de Kort.
	3,493 megs. 85.83 m. W7XK, Seattle, Wash. 80 watts. Northern Radio Co., Kulien Bldg.
	AMATEURS WORK BETWEEN 3,500 and 4,000 megs. (74.96 to 85.56 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 Friere 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.
	4,122 megs. 72.74 m. AIRWAY GROUND STATIONS, as follows: WEEA Atlanta; WEEB, Baltimore; WEEC, Charleston; WEEF, Spartanburg, S. C. WEEH, McRae, Ga.; WEEJ, Jacksonville; WEEM, Miami; WEEN, Linden, N. J.; WEEO, Orlando; WEER, Richmond; WNEZ, Camden; WOER, Raleigh; WOES, Savannah; WOET, Charlotte; WOEV, Louisville.
	4,124 megs. 72.70 m. KIFM, Fairbanks, Alaska. Airway.
	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 , Tavernier, Fla.
	4,200 megs. 71.39 m. YT2, Fort Lewis, Wash. Army Airway.
	4,243 megs. 70.66 m. , Tavernier, Fla.
	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. 30 kW. Works Port-au-Prince, Santo Domingo. Address R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. C.
	4,280 megs. 70.05 m. IBEJ, S. S. Conte Rosso. Works IAC, WOO. IBGI, S. S. Conte Verde. Works IAC, WOO. IBLI, S. S. Conte di Savoia. Works IAC, WOO. ICEJ, S. S. Rex. Works IAC, WOO.
	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.
3,390 megs. 88.44 m. YDQ2, Djember, N. E. I. Owner: v. Wingen.	
3,410 megs. 87.92 m. KBAD, Spokane, Wash. KNKG, Ash Mt., Sequoia Natl. Park, Calif. KNLO, Death Valley National Monument, Calif. KNLP, Wild Rose Canyon, Death Valley, Calif. KNLU, Trona, Death Valley, Calif. KNLR, Lone Pine, Death Valley, Calif. WRJ, Poe Reef Lighthouse, Mich. Dept. of Commerce, Bureau of Lighthouses. WST, Dry Tortugas Lighthouse, Fla. Address WRJ above. WWAJ, Manitou Island Lighthouse, Mich. Address WRJ above. WWAL, Passage Island Lighthouse, Mich. Address WRJ above. WWAM, Rock of Ages Lighthouse, Mich. Address WRJ above. WWAO, Huron Island Lighthouse, Mich. Address WRJ above. WWE, Fourteen Foot Shoals Lighthouse, Mich. Address WRJ. WWG, 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., N. Y. C.	
3,430 megs. 87.41 m. YDQ2, Soerabaya, N. E. I. Owner: Soekaradio.	
3,445 megs. 87.03 m. KBAM, Grants Pass, Ore. Forestry. KBCE, North Fork, Calif. KBCE, North Fork, Calif. KBCF, North Fork, Calif.	
3,450 megs. 86.90 m. YDL3, Solo, N. E. I.	
3,452 megs. 86.85 m. CJU, Winnipeg, Man. Canadian Airways Ltd. (Western Lines), 60 Brock St., Winnipeg.	
3,470 megs. 86.40 m. YDG2, Batavia, Java, N. E. I. Owner: Batavia Radio Vereeniging.	

SHORT WAVE STATIONS BY FREQUENCIES

4.320 megs. 69.40 m. DAF, Norden, Germany. Phones ships. Hauptfunkstelle Norddeich, Nordon-Land, Germany.	4.505 megs. 66.55 m. CGO, Ocean Falls, B. C. North-West Telephone Co. CZO, Prince George, B. C. Address CGO above. CZP, Claydon Bay, B. C. Address CGO above.
4.348 megs. 68.92 m. CGA9, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	4.512 megs. 66.44 m. ZFS, Nassau, Bahamas. Works WNC Hialeah. Office of Supt. of Telegraphs, Central Bay St., Nassau N. P., Bahamas.
4.355 megs. 68.84 m. IAC, Caltano, Italy. 56 kW. Phones ships. Radiomarittimo Caltano Radio IAC, Piza, Italy.	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.
4.390 megs. 68.30 m. FNSK, S. S. Normandie. Works Paris. French Lines, Pier 88, North River, Foot of W. 48th St., N. Y. C.	4.550 megs. 65.89 m. WDN (W2XB), Rocky Point, N. Y. Address WDG, 4.535 megs.
4.400 megs. 68.14 m. RRZ, Moscow, U. S. S. R. 1 kW.	4.580 megs. 65.46 m. DJG, Zeecon, Germany. Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9, Germany.
4.410 megs. 67.99 m. FNSK, S. S. Normandie. Works WOO. Address 4390 megs.	4.600 megs. 65.18 m. HC2ET, Guayaquil, Ecuador. Interval sig.: 12 chimes. P. O. Box 249. Fri., Sat., 2130-2300.
4.413 megs. 67.94 m. All these ships work with WOO. The German ships also work DAF; British ships with GBC: DDBR, S. S. Berlin. North German Lloyd, Pier 42, North River. Foot of Morton St., N. Y. City. DDCP, S. S. Cap Pelonio. DDFF, S. S. Reliance. DDFT, S. S. Oceana. DHAO, S. S. Hansa. Hamburg American Lines, Pier 86, North River, W. 46th St., N. Y. C. DHDL, S. S. Cap Arcona. DHEY, S. S. Deutschland. DHJZ, S. S. Hamburg. Address DHAO above. DHRJ, S. S. New York. Address DHAO above. DOAH, S. S. Bremen. North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y. DOAI, S. S. Europa. Address DOAH, above. FNSM, S. S. Paris. French Lines, Pier 57, Hudson River, New York City. FTNQ, S. S. Ile de France. Address FNSM above. GFWW, S. S. Majestic. Address GBZW above. GMBJ, S. S. Empress of Britain.	4.610 megs. 65.05 m. KMYA, Juneau, Alaska. Forestry.
4.415 megs. 67.91 m. GBZW, S. S. Berengaria. International Marine Radio Co., Ltd., Connaught House, 63 Aldwych, London WC2, England. GLRZ, S. S. Aquitania. Address GBZW.	4.710 megs. 63.66 m. YDU2, Medan, Sumatra, N. E. I. Owner: Avrom.
4.430 megs. 67.68 m. GBC, Rugby, England. Works ships. Address GDB, 4.320 megs. GDLJ, S. S. Hemeric. VQJM, S. S. Menarch of Bermuda. VQJP, S. S. Queen of Bermuda.	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.
4.436 megs. 67.59 m. VDO, Vancouver, B. C. 400 w. North-West Telephone Co., 768 Seymour St.	4.755 megs. 63.05 m. CFU, Rossland, B. C. Consolidated Mining & Smelting Co.
4.465 megs. 67.14 m. CFA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	4.785 megs. 62.66 m. CZA, Drummondville, P. Q. Phones ships. Canadian Marconi, Box 1690, Montreal.
4.470 megs. 67.07 m. YDB, Soerabaja, N. E. I. 1 kW.	4.810 megs. 62.33 m. YDE2, Solo, N. E. I. 100 watts. YDL2, Solo, N. E. I. Owner: Solesche Radie Vereeniging.
4.490 megs. 66.78 m. VDC, Calgary, Alta. Two Bros. Valley Gold Mines, Ltd. VDV, Two Brothers Lake, B. C. Address VDC, Calgary.	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.
	4.840 megs. 61.95 m. CZV, Waterloo Mines, B. C. Waterloo Gold Mines, Inc.
	4.865 megs. 61.63 m. CGT, Campbell River, B. C. North-West Telephone VDO, Vancouver, B. C. 400 w. North-West Telephone Co., 768 Seymour St.
	4.875 megs. 61.50 m. RKF, Moscow, USSR. 20 kW.
	4.975 megs. 60.27 m. GBC, Rugby, England. 5kW. Phones ships. Address GDW, 4.820 megs.
	4.988 megs. 60.11 m. WWAD, S. S. Violet. Works Lighthouses on Great Lakes.
	5.000 megs. 59.96 m. WWV, Beltsville, Md. 1 kW. Standard frequency service, Wed., 1430-1530. Nat'l Bureau of Standards, Washington, D. C.

SHORT WAVE STATIONS BY FREQUENCIES

5.015 mcs. 59.78 m.
IS3, Bolling Field, Va. United States Army airport.

5.025 mcs. 59.67 m.
ZFA, St. George (Hamilton) Bermuda. 1.5 kW.
Phones WOB nights.

5.040 mcs. 59.59 m.
RIR, Tiflis, USSR. 4 kW.

5.078 mcs. 59.86 m.
WCN, Lawranceville, N. J. Works GDW nites. AT&T,
32 Sixth Ave., N. Y. C.
....., Big Pine Key, Fla.

5.138 mcs. 58.35 m.
KIIO, McGrath, Alaska. Northern Commercial Co.

5.140 mcs. 58.33 m.
PMY, Bandoeng, N. E. I. 600 watts. Bandoeng Radio
Vereeniging, Nilmy Bldg., Bandoeng. 0040-
0240; 0640-0940.

5.198 mcs. 57.68 m.
....., Big Pine Key, Fla.

5.260 mcs. 57.00 m.
YDU3, Medan, Sumatra, N. E. I. Owner: Meyer.

5.265 mcs. 56.96 m.
WQN, Rocky Point, N. Y. Address WDG, 4.535 mcs.

5.300 mcs. 57.57 m.
ZFO, Cat Cay, Bahamas. 50 watts. Address ZFS,
4.512 mcs.

5.375 mcs. 55.78 m.
RSB, Stalinsk, USSR. 2 kW.

5.400 mcs. 55.52 m.
CGP, Prince Rupert, B. C. North-West Telephone
Co., 788 Seymour St., Vancouver.

CZQ, Anyex, B. C. Address CGP above.
HAT, Szekesfehervar, Hungary. 6 kW. "Justice for
Hungary!" Announcements French, English,
Hungarian by lady. Address: Magyar Kiralyi
Postakiserleti Allomas, IX Kerulet Gyali Ut
22, Budapest, Hungary.

HJAT, Cucuta, Colombia. Colombian Petroleum
Corporation.

5.405 mcs. 55.47 m.
VXX, Sage Creek, B. C. N. W. Telephone Co., 768
Seymour St., Vancouver.

WKDL, Miami, Fla. Airways.
WMDU, San Juan, Puerto Rico. Airways.

5.415 mcs. 55.37 m.
IAF, Fiumicino, Italy. 5 kW.

5.435 mcs. 55.16 m.
LSH, Buenos Aires, Argentina. Compania Radiotele-
grafica Arg., San Martin 301-329.

5.440 mcs. 55.11 m.
RSN, Sverdlovsk, USSR. 10 kW.

5.490 mcs. 54.61 m.
ROI, Sverdlovsk, USSR. 15 kW.

5.505 mcs. 54.48 m.
WQN, Rocky Point, N. Y. Address WDG, 4.535 mcs.

5.520 mcs. 54.32 m.
TI5HH, San Ramon, Costa Rica. 200 w. "La Voz de
San Ramon." Address Sres. Herrera. Daily
1530-1700; 2000-2130.

5.540 mcs. 54.11 m.
VXU, Regina, Sask. Dept. of Natural Resources,
Govt. of the Province of Sask.

VXV, Hudson Bay Junction, Sask. Address VXU
VXW, Portable. Address VXU above.

5.550 mcs. 54.02 m.
I2RO, Rome Italy. Ente Italiano per le Audizioni
Radiofoniche, Via Montello 5, Rome.

5.860 mcs. 52.97 m.
CFD, Kenora, Ont. 150 watts. Ont. Dept. of Lands
and Forests.

CFJ, Red Lake, Ont. Address CFD above.
CFN, Slate Creek, B. C. Consolidated Mining &
Smelting Co. of Canada, Ltd.
CFU, Rossland, B. C. Address CFN above.

5.710 mcs. 52.51 m.
JDZ, Darien. Works JVU Nazaki.

5.720 mcs. 52.42 m.
YV1ORSC, San Cristobal, Venezuela. "La Voz de
Tachira." Jesus M. Diaz Gonzalez.

5.725 mcs. 52.37 m.
I2RO, Rome Italy. Address EIAR, 5.550 mcs.

5.730 mcs. 52.32 m.
JVJ, Nazaki, Japan. Works JIA, JIB, JIC at Taiwan.
Address: Kokusai-Denwa Kaisha, Ltd., Osaka
Bldg., Keijimachiku, Tokyo.

5.765 mcs. 52.00 m.
KZGF, Manila, P. I. Inter-Island phone. Philippine
Long Distance Telephone Co.

5.780 mcs. 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.

5.790 mcs. 51.78 m.
JVU, Nazaki, Japan. 10 kW. Works JZA-B-C. Ad-
dress JVJ, 5.730 mcs.

5.795 mcs. 51.74 m.
KZGH, Iloilo, P. I. (Iloilo Island). Inter-Island
phone. Philippine Long Distance Tele. Co.

5.800 mcs. 51.69 m.
YV2RC, Caracas, Venezuela. 1kW. "Broadcasting
Caracas." "La Habla a la Nacion." Int sig:
4 chimes. sign off: "March 1BC" Address:
Apartado 2009.

5.810 mcs. 51.60 m.
YV7RMO, Maracaibo, Venez. "Radiodifusora Mara-
caibo."

5.815 mcs. 51.56 m.
HCK, Quito, Ecuador.

5.820 mcs. 51.52 m.
CEC, La Granja (Santiago) Chile. Compania Inter-
nacional de Radio, Casilla 16-D, Santiago de
Chile.

TIGPH, San Jose, Costa Rica. "Alma Tica." 1900,
2200.

5.825 mcs. 51.47 m.
HJA2, Bogota, Colombia.
KZGG, 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.

5.830 mcs. 51.43 m.
CWD, Montevideo, (Carrito), Uruguay. 1.5 kW.
JZC, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works
JVJ, JVO, JVU. Address: Manchukuo Tele-
phone & Telegraph Co., Ltd.

SHORT WAVE STATIONS BY FREQUENCIES

5.845 mags.	51.30 m.		
KRO , Kahuku, Oahu, T. H. (Off the air?), Kahuku, T. H. To work GMBJ.			cional" Relays TGW. address: Ministerio de Fomento.
5.850 mags.	51.25 m.		XEBT , Mexico City, D. F. 1kW. Interval sig.: cuckoo, rooster, bugle, auto horn, fire bell. Relays XEB. Add: El Buen Tono S. A., Apartado 79-44. Daily 1000 to 0115.
WOB , Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.			XGOX , Nanking, China (proposed). Administration of Central Broadcasting Stations, Central Executive Committee of Kuomintang, Nanking.
YVSRMO , Maracaibo, Venezuela. "Ecos del Caribe" (member Gadona Indo-Americana.) One gong precedes station announcement. Programs close with Blue Danube March. Address: Sr. Santiago M. Vegas, Apartado 214. Daily exc. Sun., 1130-1300; 1730-2130.			6.005 mags.
5.865 mags.	51.12 m.		VE9DN , Drummondville, P. Q. Canadian Marconi Co., P. O. Box 1690, Montreal.
H11J , San Pedro de Macoris, D. R. Daily 1700-2030.			VE9DR , Montreal, P. Q. Address VE9DN above.
5.875 mags.	51.03 m.		6.006 mags.
HRN , Tegucigalpa, Honduras. 400 w. "La Voz de Honduras." Daily 2000-2200.			HJ1ABJ , Santa Marta, Colombia. 50 watts. "La Voz de Santa Marta." Member Cadena Indo-Americana. Sr. Julio A. Sanchez T.
YV8RB , Barquisimeto, Venezuela. "La Voz de Lara."			6.010 mags.
5.890 mags.	50.90 m.		COCO , 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).
JIC , Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.			HJ1ABC , Quidbo, Colombia.
5.900 mags.	50.82 m.		6.012 mags.
HJ4ABE , Medellin, Colombia. 1 kW. (relays HJ4ABK) "La Voz de Antioquia." Daily, 1900-2300 Owner: Jose M. Acevedo F.			HJ3ABH Booota, 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.
5.940 mags.	50.47 m.		6.020 mags.
TG2X , Guatemala City, Guat. 200 w. "Policia Nacional."			DJC , Zeesen, Germany. 8 kW. Programs close with "Deutschland Ueber alles" and "Horst Wesselied." Programs preceded by a music box tune, "Ever be True and Honest." Add: Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9.
5.970 mags.	50.22 m.		XEUW , Veracruz, Mexico. 50 w. "El eco de Sotavento des de Veracruz." Radiodifusora Comercial XEU, Independencia 98.
HVJ , Vatican City. 10 kW. Interval sig: clock ticking for 10 minutes preceding mission; 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-Vaticano, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: Sundays and holidays, 0500-0530. Daily, 1400-1415.			6.030 mags.
5.975 mags.	50.18 m.		HP5B , Panama City, Panama. 100 watts. "Estacion Miramar." Address: Estacion Radiodifusora Miramar de la Radio Panama S. A., Apartado 910. Daily, 1900-2200.
HJ2ABC , Cucuta, Colombia. 250 watts. "La Voz de Cucuta." Interval sig: chimes C-D-E-F-C. Address, J. Alejandro Sanchez. Week days, 1100-1200; 1830-2100.			VE9CA , Calgary, Alta. 100 watts (input). "The Voice of the Prairie." Add: Voice of P., Ltd. Calgary. Thurs., 0900-0200; Sun., 1200-2400; other days, 0900-2400.
5.980 mags.	50.14 m.		6.040 mags.
HIX , Santo Domingo, D. R. Mr. J. R. Saladin Director HIX. Tues., Fri., 2000-2200.			PRA8 , Pernambuco, Brazil. 3 kW. "A Vox do Norte." Radio Club Pernambuco, Ave. Cruz Cabaga 394.
HJ2ABD , Bucaramanga, Colombia. 100 watts. Sr. Hector McCormick.			W1XAL , Boston, Mass. Address: Educational Director, University Club, Boston. Tues., Thurs., 1930-2130; Sun., 1700-1900.
XEBI , Mexico City, D. F. Apartado 2874.			W4XB , Miami, Fla. (transmitter on Collins Island). 2500 watts. Relays WIOD. Isle of Dreams Broadcasting Co. Sun., 1130-1500; 1700-2400. Weekdays, 1200-1400; 1730-2400.
5.995 mags.	50.01 m.		YDA , Tandjongprieok, 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.
RPT , Tashkent, USSR. 1 kW.			6.042 mags.
WVD , Seattle, Wash. 500 watts. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.			HJ1ABG , Barranquilla, Colombia. 150 watts. "Emisora Atlantico." Member, Cadena Indo-Americana. Interval sig: 4-note chime. Address: Sr. Andres Jimeno, Apartado 445.
5.996 mags.	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: "Internationale. Add: Inna Marr, Central Radio Committee Petrovka 12, Moscow.			
6.000 mags.	49.97 m.		
TGWA , Guatemala City, Guat. 300 w. "Radio Nac-			

SHORT WAVE STATIONS BY FREQUENCIES

6.050 megs.	49.56 m.		
GSA, Daventry, England. 20 kW. "A for Aerial." Interval sigs: Bow Bells and Big Ben. Sign off: God Save the King. British Broadcasting Corp., Broadcasting House, London W. 1, England.			
6.060 megs.	49.48 m.		
HJ4ABD, Medellin, Colombia. "La Voz de Catia." OXY, Skamlebaek, Denmark (Copenhagen). 500 watts. Chimes at 6 p.m. EST. Add: Harold J. Rud, Press Secretary, Statsradiofonlen, Heibergsgade 7, Copenhagen. Daily 1300-1830.			
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.			
W3XAU, Philadelphia (Newton Square), Pa. Relays WCAU, CBS, WCAU Building, 1622 Chestnut St. 2100-2300.			
W8XAL, Cincinnati (Mason), Ohio. 10 kW. Relays NBC-WLW. Crosley Radio Corp., 1329 Arlington St. Daily exc. Sun., 0630-2000; Sun., 0800-2000; daily exc. Sat., 2300-0200; Sat., 2300-0300.			
ZK1, 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.			
6.065 megs.	49.43 m.		
HH2F, Port au Prince, Haiti.			
6.070 megs.	49.39 m.		
HH2S, Port au Prince, Haiti.			
HP5H, Colon, Panama.			
IRA, Rome, Italy. Address EIAR, 5.550 megs.			
VE9CS, Vancouver, B. C. 2-10 watts. Radio Service Engineers Ltd., 734 Davie St. Daily 2000-2200.			
6.072 megs.	49.37 m.		
CQN, Macau. 500 watts. Ann: Portuguese and English. Mon., Fri., 0300-0500.			
OER2, Vienna, Austria. 1.5 kW. Oesterr. Radio-verkehrs A. G., Wien I, Johannesgasse 4b. Sat., 0900-1800; Sun., silent; other days, 0900-1700.			
6.080 megs.	49.31 m.		
CP5, La Paz, Bolivia. "Radio Illimani." Compania Radio Boliviana, Casilla 637. Daily, 2000-2100.			
DJM, Zeosen, Germany. Address, DJC, 6.020 megs.			
HJN, Bogota, Colombia. Sr. Luis Ramirez Arana Jefe del Servicio de Inalambricos, Ministerio de Correos y Telegrafos.			
VE9EH, Charlottetown, P. E. I. 250 watts. Relays CFXY. Island Radio Broadcasting Co., Ltd., 143 Great George St.			
W9XAA, Chicago, Ill. 500 watts. Relays NBC-WCFB. Daily exc. Sun., 0930-1800; Sun., 1130-2100. Mr. Maynard Marquardt, Chicago Federation of Labor, 666 Lake Shore Drive.			
ZHJ, Penang, Straits Settlements. 49 watts. Hon. Secy., Penang Wireless Society, 40 Perak Road. Daily exc. Sun., 0640-0840.			
6.085 megs.	49.27 m.		
12R0, Rome, Italy. Address EIAR, 5.550 megs.			
6.090 megs.	49.23 m.		
CRCX, Toronto, Ont. 1 kw. Relays Canadian Radio Commission-CRCT. Address: R. R. No. 4. Daily 1830-2330.			
VE9BJ, St. John, N. B. 50 watts. C. A. Munro, Ltd., Canterbury Street.			
6.100 megs.	49.16 m.		
HJ4ABL, Manizales, Colombia. 150 watts. "L for Lady." "Ecos del Occidente." Chimes at			
		midnight.	Apartado 50. Sat., 2300-0100.
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.			
W9XF, Chicago (Downers Grove), Ill. 5 kW. Relays NBC-WENR, N. B. C., Merchandise Mart, Chicago.			
ZTJ, Johannesburg, U. of So. Africa. 5 kW. African Brdctg. Co., Box 4559, Johannesburg.			
6.110 megs.	49.07 m.		
CHNX, Halifax, N. S. Maritime Broadcasting Co., Ltd., Box 998.			
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.			
HJ4ABB, Manizales, Colombia. 300 watts. "Radio Manizales." Sr. Ernesto Villegas.			
VE9CG, Calgary, Alta. Calgary Herald, Ltd.			
6.112 megs.	49.05 m.		
VUC, Calcutta, India. Indian State Broadcasting Service, 1 Garstin Place.			
6.115 megs.	49.03 m.		
HJ1ABE, Cartagena, Colombia. 180 watts. "La Voz de los Laboratorios Fuentes." Address: Laboratorios Fuentes L., Apartado 31.			
6.120 megs.	48.99 m.		
W2XE, New York, N. Y. (Wayne, N. J.) 10 kW. Relays CBS-WABC. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., N. Y. C. Daily, 1800-2300.			
XEFT, Veracruz, Ver. 20 w. "La Voz de Veracruz." Jose Rodriguez Lopez, Manager, Av. Independencia 28.			
YDAS, Bandoeng, Java, N. E. I. 1.5 kW. N. V. Nederlandsch Indische Radio Omroep Maatschappij, Tegallegh 0.23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.			
6.125 megs.	48.95 m.		
ZGE, Kuala Lumpur, Federated Malay States. 180 watts. Hon. Secy., the Malayan Amateur Radio Society, Mercantile Bank Bldg., K. L. Sun., Tues., Fri., 0640-0840.			
6.130 megs.	48.91 m.		
COCD, Vedado, Havana, Cuba. 350 watts. "La Voz del Alre." Int. sig.: 4 chimes. Relays CMCD. Address: Hotel Palace, Calle 25 y G. Vedado, Havana. Sun., 1700-2300. Week-days, 1100-2400.			
LCL, Jely, Norway. Director General, Administration des Telegraphes du Royaume de Norvege, Oslo, Norway.			
TGXA, Guatemala City, Guat. 20 w. Liberal Progresista.			
XEOK, Tijuana, L. C., Mex. Relays XEOK. Carlos de la Sierra, Box 1441, San Diego, Calif.			
6.132 megs.	48.89 m.		
CT1GO, Paredo, Portugal. Sun., 1130-1300; Sun., Tues., Wed., Thurs., Fri., 1200-2030.			
6.135 megs.	48.87 m.		
RKK, Moscow, USSR. 20 kW.			
6.140 megs.	48.83 m.		
W8XK, Pittsburgh (Saxenburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh. Daily, 2100-0100.			
6.145 megs.	48.79 m.		
....., Villejust, France. 120 kW. (Under constr.)			

SHORT WAVE STATIONS BY FREQUENCIES

6.150 megs. 48.75 m. CJRO, Winnipeg, Man. (Middlechurch). Relays CRC programs. James Richardson & Sons, Ltd., Royal Alexandria Hotel, Winnipeg. Daily, 2090-2460.	6.170 megs. 48.60 m. HJ2ABA, Tunja, Colombia. 50 watts. "Ecos de Boyaca." Member: Cadena Indo-Americana Sr. Pampelio Sanchez.	6.185 megs. 48.48 m. H11A, Santiago de los Caballeros, D. R. "La Voz de Yaque."	6.200 megs. 48.36 m. HJ3ABF, Bogota, Colombia. 50 watts. "La Voz de Bogota." Interval sig.: 6 chimes. Daily 1900-2300.	6.230 megs. 48.13 m. OAX4G, Lima, Peru. Relays OAX4B. R. Grellaud y Cia.	6.285 megs. 47.70 m. CZA, Drummondville, P. Q. Works ships.	6.300 megs. 47.59 m. HJ1ABH, Cienaga, Colombia. 48 watts. Sergio Martinez Aparicio, Jr. Tues., Fri., 1945-2200. YV12RM, Maracay, Venezuela.	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.	6.330 megs. 47.36 m. JZG, Nazaki, Japan. 10 kW. Works ships. Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	6.356 megs. 47.17 m. HRP1, San Pedro Sula, Honduras.	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.	6.385 megs. 46.94 m. W09, Mitchell Field, Mineola, Long Island. Army airport. WTR, Albrook Field, Canal Zone. Army airport.	6.400 megs. 46.85 m. YV9RC, Caracas, Venez. "Ondas Populares."	6.410 megs. 46.77 m. T1PG (T1ZPG), San Jose, Costa Rica. 1 kW. "La Voz de la Victor." Perry Girton, Apartado 224. Sun., 0600-0700; 1100-2230. Weekdays 1100-1300; 1730-2230.	6.425 megs. 46.66 m. CZG, Prince Rupert, B. C. B. C. Provincial Police. VE3AS, Fredericton, N. B. Address, C/o Electrical Engineering Dept., University of New Brunswick. VK1, Selfridge Field, Mt. Clemens, Mich. Army airport.	6.440 megs. 46.56 m. RTA, Novosibirsk, USSR. 15 kW.	6.445 megs. 46.52 m. PD1, Maxwell Field, Montgomery, Ala. Army airport. PE2, Wright Field, Dayton, Ohio. Army airport.	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.	6.450 megs. 46.48 m. HJ4ABC, Ibague, Colombia. "Ecos de Combeima." Mario M. Barrios, Aptdo. 39.	6.490 megs. 46.20 m. HJ5ABD, Cali, Colombia. "La Voz del Valle." Apartado 270. Thurs., Sat., Sun., 1900-2100.	6.500 megs. 46.13 m. H1L, Santo Domingo, D. R. Mr. J. C. Pellicer, Box 623. H14D, Santo Domingo, D. R. "La Voz de Quisqueya." 1300-1340; 1640-1940; daily exc. Sun.	6.520 megs. 45.98 m. YV6RV, Valencia, Carabobo, Venezuela. "La Voz de Carabobo." Sres. Hermann y Williams Degwitz.	6.550 megs. 45.76 m. T1RCC, San Jose, Costa Rica. 500 watts. "Radioemisora Catolica Costaricense." Box 1064.	6.590 megs. 45.50 m. ZEA, Salisbury, Southern Rhodesia. 500 watts. Works ZEB. ZEB, Bulawayo, Southern Rhodesia. 500 watts. Works ZEA.	6.610 megs. 45.36 m. CWE, Corrito (Montevideo) Uruguay. 1.5 kW.	6.615 megs. 45.32 m. K1KL, Los Angeles, Calif. WMEP, Suffield, Ohio. 400 watts. Airways. WMEQ, Wheeling, Ill. Airways. WMEU, St. Petersburg, Fla. 400 watts. Airways. WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts. WNEK, Jackson Heights, L. I.	6.618 megs. 45.31 m. WVD, Seattle, Wash. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg.	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.	6.645 megs. 45.12 m. FG7, Langley Field, Va. Army airport.	6.650 megs. 45.09 m. HC2RL, Guayaquil, Ecuador. "Quinta Piedad." Address: Dr. Roberto Levi, Apartado 759. Tues., 2114-2314; Sun. 1745-1945. IAC, Coltano, Italy. 14 kW. Works ships. Address IAC, 4.355 megs.
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SHORT WAVE STATIONS BY FREQUENCIES

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.

6.682 mags. 45.00 m.
WXH, Ketchikan, Alaska. Phones Seattle.

6.666 mags. 44.98 m.
ZP10, Asuncion, Paraguay.

6.672 mags. 44.96 m.
YVQ, Maracay (Santa Rita), Venezuela. Address: Estados Unidos de Venez., Servicio Radio-telegrafico.

6.675 mags. 44.91 m.
DGK, Nauen, Germany. Address: Reichspostzentramt, Telegraphentechnisches Reichsamst, Schoneberger Strasse 11-15, Berlin-Tempelhof.

6.690 mags. 44.82 m.
CGAG, Drummondville, P. Q. Address VE9DN, 6.005 mags.

6.710 mags. 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.

6.718 mags. 44.62 m.
KBK, Manila, P. I. 50 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.
WDB, Rocky Point, N. Y. Works Havana. Radio Corp. of A., Central Frequency Bureau, 66 Broad St., N. Y. City.

6.720 mags. 44.62 m.
CFU, Rossland, B. C. Consolidated Mining & Smelting Co.

6.725 mags. 44.57 m.
WQO, Rocky Point, N. Y. Address WDB, 6.718 mags.

6.735 mags. 44.53 m.
KEQ, Kahuku, Oahu, Hawaii. Works California.

6.750 mags. 44.42 m.
JVT, Nazaki, Japan. 20 kW. Works Dixon and broadcasts. Address JZG, 6.330 mags.

6.755 mags. 44.38 m.
WOA, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.

6.760 mags. 44.35 m.
CJA6, Drummondville, P. Q. Address VE9DN, 6.005 mags.

6.790 mags. 44.16 m.
GDB, Rugby, England. Address GDW, 4.820 mags.

6.796 mags. 44.12 m.
HIH, San Pedro de Macoris, D. R. 158 w. "La Voz del Higuamo." Sr. Domingo Dominguez.

6.860 mags. 43.71 m.
KEL, Bolinas, Calif. RCA Communications, Inc. Pacific Division, 28 Geary St., San Francisco, Calif.

6.870 mags. 43.64 m.
RKF, Moscow, USSR. 20 kW.

6.880 mags. 43.58 m.
CGA7, Drummondville, P. Q. Address VE9DN, 6.005 mags.

RKF, Moscow, USSR. 20 kW.

6.900 mags. 43.45 m.
RKF, Moscow, USSR. 20 kW.

6.905 mags. 43.42 m.
GDS, Rugby, England. 15 kW. Phones N. Y. nights Address GDW, 4.820 mags.

6.928 mags. 43.27 m.
WEZ, Rocky Point, N. Y. Address WDB, 6.718 mags.

6.935 mags. 43.23 m.
WEB, Rocky Point, N. Y. Works Paris. Address WDB, 6.718 mags.

6.950 mags. 43.13 m.
WKP, Rocky Point, N. Y. Address WDB, 6.718 mags.

6.976 mags. 42.98 m.
HCETC, Quito, Ecuador. "del Teatro Bolivar."

6.990 mags. 42.89 m.
JVS, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 mags.

7.000 mags. 7.300 m.
 41.07 meters to 42.83 meters. Amateur Band. Foreign amateurs use phone in this band. USA, code only.

7.005 mags. 42.80 m.
HB9H, Berne, Switzerland. Swiss Shortwave Association, 30 Neuengasse, Berne. First Monday each month, 1500-1615.

7.080 mags. 42.35 m.
VP3MR, Georgetown, Br. Guiana. "The Voice of Guiana." Sun., 0745-1015; Mon., 1545-1645; Thurs., 1700-1845; Mon., Wed., Sat., 1845-1945.

7.090 mags. 42.29 m.
HKE, Bogota, Colombia. 138 watts. Observatorio Nacional de San Bartolome.

7.175 mags. 41.78 m.
CR6AA, Lobito, Portuguese West Africa. "Radio Eddystone." The Manica Trading Co., Ltd., Caixa Postal 118, Lobito.

7.220 mags. 41.53 m.
HAT2, Szekeferharvar, Hungary. 6 kW. "Justice for Hungary!" Announcements Hungarian, French, English by lady. Address: Magyar Kiralyi Postakiserletli Allomas, IX Kerulet Gyali Ut 22, Budapest.

7.225 mags. 41.50 m.
RPK, Moscow, USSR. 20 kW.

7.260 mags. 41.30 m.
RFF, Kharkov, USSR. 1kW.

7.275 mags. 41.23 m.
RTZ, Irkutsk, USSR. 15 kW.

7.280 mags. 41.18 m.
HJ1ABD, Cartagena, Colombia. 50 watts. "Ondas de la Heroica." Jzd. Villarreal, Director, Apartado 252. Daily, 1945-2115.

7.370 mags. 40.68 m.
WJN, Rocky Point, N. Y. Address WDB, 6.718 mags.

7.380 mags. 40.63 m.
XECR, Mexico City, D. F. Announcements: Spanish, English. Address: Departamento de Publicidad de la Secretario de Relaciones Exteriores. Sunday, 1800-1900.

7.390 mags. 40.57 m.
HJ3ABD, Bogota, Colombia. 50 watts. "Colombia

SHORT WAVE STATIONS BY FREQUENCIES

Broadcasting." Apartado 509. Daily, 1930-2300.	7.820 megs.	38.34 m.
JVR, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megs.	7.830 megs.	38.29 m.
ZLT2, Wellington, N. Z. 1 kW. Works VLJ. Address: Supt. of Post and Telegraphs, G. P. O.	7.880 megs.	38.05 m.
7.400 megs. 40.51 m.	7.920 megs.	37.86 m.
WEM, Rocky Point, N. Y. Works London, Honolulu. Address WDB, 6.718 megs.	7.960 megs.	37.67 m.
7.465 megs. 40.16 m.	7.960 megs.	37.67 m.
HJP, Bogota, Colombia. Works Hialeah nights.	7.960 megs.	37.67 m.
7.470 megs. 40.14 m.	7.960 megs.	37.67 m.
JVQ, Nazaki, Japan. 10 kW. Works PLE, PLV. Address JZG, 6.330 megs.	7.960 megs.	37.67 m.
7.510 megs. 39.92 m.	7.960 megs.	37.67 m.
JVP, Nazaki, Japan. 20 kW. Works Europe. Address JZG, 6.330 megs.	7.968 megs.	37.63 m.
7.520 megs. 39.87 m.	7.968 megs.	37.63 m.
KKH, Kahuku, Oahu, Hawaii. Works Dixon.	7.980 megs.	37.57 m.
RKI, Moscow, USSR. 20 kW.	7.980 megs.	37.57 m.
....., Kahuku, Oahu, Hawaii. Works GMBJ.	7.980 megs.	37.57 m.
7.550 megs. 39.71 m.	7.980 megs.	37.57 m.
CFQ, Edmonton, Alta. The E. Journal, Ltd.	7.980 megs.	37.57 m.
CGE, Calgary, Alta. The Calgary Herald, Southam Bldg.	7.980 megs.	37.57 m.
CKS, Portable. Address CGE above.	7.980 megs.	37.57 m.
T18WS, Puntarenas, Costa Rica. "Ecos del Pacifico." Apto. 75.	7.980 megs.	37.57 m.
7.565 megs. 39.63 m.	7.980 megs.	37.57 m.
KWY (W6XN), Dixon, Calif. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco.	7.980 megs.	37.57 m.
7.575 megs. 39.58 m.	7.980 megs.	37.57 m.
XGO, Shanghai, China. Chinese Govt. Radio Administration, Sassoon House, Jinkee Road.	7.980 megs.	37.57 m.
7.610 megs. 39.40 m.	7.980 megs.	37.57 m.
KWX (W6XN), Dixon, Calif. Address KWY, 7.565 megs.	7.980 megs.	37.57 m.
7.620 megs. 39.35 m.	7.980 megs.	37.57 m.
ETA, Addis Ababa, Ethiopia. 2 kW. Frank A. Hammar, Chief Wireless Engineer, Dept. of Communications.	7.980 megs.	37.57 m.
7.626 megs. 39.32 m.	7.980 megs.	37.57 m.
RIM, Tashkent, USSR. Works RKI. 20 kW.	7.980 megs.	37.57 m.
7.680 megs. 39.04 m.	7.980 megs.	37.57 m.
YBZ, Menado, Celebes, N. E. I. Works PNI, Macassar. Address: Mr. H. Van der Veen, Engineer-in-charge, Post-Telegraafn Telefoonidienst, Bedrijf der Radiostations op Java, Bandoeng.	7.980 megs.	37.57 m.
7.685 megs. 39.01 m.	7.980 megs.	37.57 m.
HJA3, Barranquilla, Colombia.	7.980 megs.	37.57 m.
TIR, Cartago, Costa Rica. Address: Compania Radio-grafica Internacional de C. R., San Jose.	7.980 megs.	37.57 m.
7.715 megs. 38.86 m.	7.980 megs.	37.57 m.
KEE, Bolinas, Calif. Address KEL, 6.860 megs.	7.980 megs.	37.57 m.
7.740 megs. 38.74 m.	7.980 megs.	37.57 m.
CEC, La Granja (Santiago) Chile. Address CEC, 5.820 megs.	7.980 megs.	37.57 m.
7.797 megs. 38.47 m.	7.980 megs.	37.57 m.
HBP, Prangins (Geneva) Switzerland. 20 kW. "Radio Nations." Works USA and broadcasts. Programs consist of talks in English, French, Spanish. Address: M. G. Gallarati, Information Section, League of Nations, Geneva. Sat., 1730-1815.	7.980 megs.	37.57 m.
OCO, Lima (Valverde), Peru.	7.980 megs.	37.57 m.
7.830 megs. 38.29 m.	7.980 megs.	37.57 m.
HC2JSE, Guayaquil, Ecuador. Interval sig.: one gong.	7.980 megs.	37.57 m.
LQP, Buenos Aires, Arg.	7.980 megs.	37.57 m.
7.880 megs. 38.05 m.	7.980 megs.	37.57 m.
JYR, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW. Experimental.	7.980 megs.	37.57 m.
7.920 megs. 37.86 m.	7.980 megs.	37.57 m.
GCP, Rugby, England. Address GDW, 4.820 megs.	7.980 megs.	37.57 m.
7.960 megs. 37.67 m.	7.980 megs.	37.57 m.
VLZ (VK2ME), Pennant Hills (Sydney), N. S. W., Australia. 3.5 kW. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney.	7.980 megs.	37.57 m.
XGL, Shanghai, China. Address: XGO, 7.575 megs.	7.980 megs.	37.57 m.
7.968 megs. 37.63 m.	7.980 megs.	37.57 m.
HSP, Bangkok, Siam. 20 kW. Address Post and Telegraph Dept.	7.980 megs.	37.57 m.
7.980 megs. 37.57 m.	7.980 megs.	37.57 m.
VLZ (VK2ME), Pennant Hills (Sydney), Australia. Address VLZ, 7.960 megs.	7.980 megs.	37.57 m.
8.020 megs. 37.38 m.	7.980 megs.	37.57 m.
HSJ, Bangkok, Siam. 20 kW. Address HSP, 7.968 megs.	7.980 megs.	37.57 m.
8.035 megs. 37.31 m.	7.980 megs.	37.57 m.
CNR, Rabat, Morocco. 12 kW. Phones Paris. Direction de l'Office des Postes, des Telegraphes et des Telephones du Maroc, Rabat.	7.980 megs.	37.57 m.
8.050 megs. 37.24 m.	7.980 megs.	37.57 m.
WXA, Juneau, Alaska. Works WVD at 2400.	7.980 megs.	37.57 m.
8.070 megs. 37.15 m.	7.980 megs.	37.57 m.
IRF, Rome, Italy. Works N. Y. Societe Italo Radio. Servizi Radioelectrici, Via Calabria No. 46-48. Roma 125, Italy.	7.980 megs.	37.57 m.
8.095 megs. 37.04 m.	7.980 megs.	37.57 m.
VLK, Pennant Hills (Sydney) Australia. Address VLZ, 7.960 megs.	7.980 megs.	37.57 m.
8.120 megs. 36.92 m.	7.980 megs.	37.57 m.
KTP, Manila, P. I. Phones Dixon near 1000. Address KBK, 6.718 megs.	7.980 megs.	37.57 m.
8.180 megs. 36.65 m.	7.980 megs.	37.57 m.
PSK, Rio de Janeiro (Marapicu) Brazil. Phones N. Y. and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709. Rio de Janeiro.	7.980 megs.	37.57 m.
8.214 megs. 36.50 m.	7.980 megs.	37.57 m.
HCJB, Quito, Ecuador. 150 watts. "La Voz de los Andes." Interval sig.: 4 strokes on gong. Address Clarence W. Jones, Casilla 691, Quito. Sun., 1615-2245; Mon., silent; other days, 1915-2315.	7.980 megs.	37.57 m.
8.220 megs. 36.47 m.	7.980 megs.	37.57 m.
WNED, Tampa, Fla. Pan American Airways, Inc. ZSV, Walvis Bay, Union of South Africa. 1 kW.	7.980 megs.	37.57 m.
8.225 megs. 36.45 m.	7.980 megs.	37.57 m.
RRD, Moscow USSR. 20 kW.	7.980 megs.	37.57 m.
8.396 megs. 35.71 m.	7.980 megs.	37.57 m.
HSP, Bangkok, Siam. 20 kW. Address HSP, 7.968 megs.	7.980 megs.	37.57 m.
8.455 megs. 35.46 m.	7.980 megs.	37.57 m.
CWF, Montevideo (Cerrito) Uruguay. 1.5 kW.	7.980 megs.	37.57 m.

SHORT WAVE STATIONS BY FREQUENCIES

8.464 megs.	35.42 m.	
DAF, Norden, Germany.	Works ships.	Address Hauptfunkstelle Norddeich, Norden-Land.
8.500 megs.	35.47 m.	
JZF, Nazaki, Japan.	10 kW.	Works ships. Address JZG, 6.330 megs.
8.560 megs.	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 megs.	35.00 m.	
HAT3, Szekesfehar, Hungary.	20 kW.	"Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7.220 megs.
8.575 megs.	34.96 m.	
TYD2, Pontoise, Franco.	Phones Rabat.	
YCP, Balikpapan, N. E. I.	3 kW.	Address YBZ, 7.680 megs.
8.620 megs.	34.78 m.	
WVD, Seattle, Wash.	Works Alaska at 2400.	Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.
8.625 megs.	34.76 m.	
HC2CW, Gyaquil, Ecuador.		"Ondas del Pacifico."
8.665 megs.	34.60 m.	
CO9JQ, Camaguey, Cuba.	150 watts.	Rafael Grimany, Calle General Gomez No. 4.
8.680 megs.	34.54 m.	
GBC, Rugby, England.	Works ships.	Address GDW, 4.820 megs.
8.690 megs.	34.50 m.	
VWZ, Kirkee, Poona, India.	10 kW.	Works also on freqs. 8.691, 8.693, 8.700 megs. Phones London.
8.708 megs.	34.43 m.	
VWZ, Kirkee, Poona, India.	10 kW.	Phones London.
8.710 megs.	34.42 m.	
CEC, La Granja, (Santiago) Chile.	800 watts.	Address CEC, 5.820 megs.
8.750 megs.	34.26 m.	
ZBW, Hong Kong, 500 w.	The Secy..	Hong Kong Brdctg. Committee, P. O. Box 200.
8.770 megs.	34.19 m.	
RSZ, Irkutsk, USSR.	15 kW.	Tests with RNE.
8.775 megs.	34.16 m.	
PNI, Macassar, Celebes, N. E. I.	3 kW.	Phones Bandoeng. Address YBZ, 7.680 megs.
8.790 megs.	34.11 m.	
HJA3, Barranquilla, Colombia.		
8.810 megs.	34.03 m.	
FNSK, S. S. Normandie.	Works Paris nights.	French Lines, Pier 88, North River, Foot of W. 48th St., N. Y. C.
8.830 megs.	33.95 m.	
SHIPS.	For address of these ships refer to 4.413 megs., 4.415 megs and 4.430 megs. All these ships work with WOO. The German ships work also DAF; British ships with GBC and CZA; Furness-Bermuda ships with ZFA-B	
DDBR, S. S. Berlin.		
DDCP, S. S. Cap Polonia.		
DDFF, S. S. Reliance.		
DDFT, S. S. Oceana.		
DHAO, S. S. Hansa.		
DHDL, S. S. Cap Arcona		
DHEY, S. S. Deutschland.		
DHJZ, S. S. Hamburg.		
DHRL, S. S. New York.		
DOAH, S. S. Bremen.		
DOAI, S. S. Europa.		
FNSK, S. S. Normandie.	Works WOO nights.	Address 8.810 megs.
FNSM, S. S. Paris.		
FNTQ, S. S. Ile de France.		
GBZW, S. S. Berengaria.		
GDLJ, S. S. Homeric.		
GFVV, S. S. Majestic.		
GLRZ, S. S. Aquitania.		
GMBJ, S. S. Empress of Britain.		
VQJM, S. S. Monarch of Bermuda.		
VQJP, S. S. Queen of Bermuda.		
8.900 megs.	33.69 m.	
ZLS, Wellington, N. Z.	Address Supt. of Post and Telegraphs, GPO.	
8.930 megs.	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 megs.	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 megs.	
8.950 megs.	33.50 m.	
WEL, Rocky Point, N. Y.	Address WAD, 8.930 megs.	
8.975 megs.	33.41 m.	
VWY, Kirkee, Poona, India.	Phones London.	
9.010 megs.	33.28 m.	
KEJ, Bolinas, Calif.	20-40 kW.	Address KEL, 6.860 megs.
9.020 megs.	33.24 m.	
GCS, Rugby, England.	15 kW.	Phones N. Y. night.
9.040 megs.	33.17 m.	
TYA2, Pontoise, France.	Phones Algeria.	
9.050 megs.	33.13 m.	
TFK, Reykjavik, Iceland.	8.5 kW.	
9.120 megs.	32.88 m.	
CP6, La Paz, Bolivia.	"Illimani Radio." Compania Radio Boliviana, Casilla 637.	
9.125 megs.	32.86 m.	
HAT4, Szekesfehar, Hungary.	20 kW.	"Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7.220 megs.
9.168 megs.	32.70 m.	
YVR, Santa Rita, Maracay, Venezuela.	Address YVQ, 6.672 megs.	
9.170 megs.	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 megs.	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 megs.	32.13 m.	
CGA4, Drummondville, P. Q.	Phones London. Address VE9DN, 6.005 megs.	

SHORT WAVE STATIONS BY FREQUENCIES

9.415 megs. 31.84 m. PLV, Bandoeng, Java, N. E. I. 80 kW. Works Dixon and JVB, JVE, JVQ. Address Mr. H. Van der Veen, Post-Telegraafen Telefoon dienst, Bedrijf der Radiostat tens op Java, Bandoeng.	LKJ1, Jeloy, Norway. 500 watts. Address LCL, 6.138 megs. Daily, 0500-0800.
9.428 megs. 31.80 m. COCH, 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.	9.550 megs. 31.39 m. HH2R, Port au Prince, Haiti.
9.448 megs. 31.74 m. WES, Rocky Point, N. Y. Address WAD, 8.930 megs.	9.555 megs. 31.38 m. VE9DN, Drummendville, P. Q. Canadian Marconi Co., Box 1698, Montreal, P. Q.
9.450 megs. 31.73 m. TG1X, Guatemala City, Guat. 200 watts. Ministerio de Fomento.	9.568 megs. 31.36 m. DJA, Zeesen, Germany. For details see DJN, 9.540 megs.
9.460 megs. 31.69 m. WKJ, New Brunswick, N. J. Address WNA, 9.170 megs.	9.565 megs. 31.35 m. VUB, Bombay, India. Indian State Broadcasting Service, Irwin House, Spratts Road, Ballard Estate, Bombay. Sun., 0700-0900 approximately.
9.470 megs. 31.66 m. WET, Rocky Point, N. Y. Werks Buenos Aires, Caracas. Address WAD, 8.930 megs.	9.570 megs. 31.33 m. W1XK, Mills (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.
9.480 megs. 31.63 m. KES, Bolinas, Calif. RCA Communications, Inc.	9.57X, Pittsburg (Saxenburg), Pa. This frequency loaned to W1XK.
9.490 megs. 31.59 m. KZQH, Ileile, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	9.575 megs. 31.31 m. VUC, Calcutta, India. Refer to VUC, 6.112 megs.
OXY, Copenhagen, Denmark. Not used at present.	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.
SR1, Peznan, Poland. 1 kW. Tues., 1300-1500; Wed., 0800-0900. Radio Pozanski, Plac Wolnosce 11, Rozglosnia, Peznan. (This station is probably off the air).	VE9DR, Montreal, P. Q. Address VE9DN, 9.555 megs.
9.500 megs. 31.56 m. XGOX, Nanking, China. See 6.000 megs.	VK3LR, Melbourne, Australia. Research Section, P. M. G. Dept., 61 Little Collins St., C1, Melbourne. Daily, 0400-0800.
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.	XGBD, Shanghai, China. 13.5 kW. (Existence doubtful.)
9.505 megs. 31.54 m. PRF5, Rio de Janeiro, Brazil. "Radio Journal." Program consists of talks in Portuguese, Spanish, English and sometimes French, German. Address: Director of the Imprensa Nacional. Daily, 1730-1815.	9.585 megs. 31.28 m. VK2ME, Sydney (Penmant 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.
9.510 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.	....., Villejust, France. 120 kW. (Under construction.)
9.520 megs. 31.49 m. XEDQ, Guadalajara, Jal. Relays XED. Address Cia. Radiofonografica, Apartado 137. Daily, 0800-0900; 1200-2400.	9.590 megs. 31.26 m. HP5J, Panama City, Panama. 1 kW. "La Voz de Panama." Manuel Diaz Doce, Apartado 867. Daily, 1145-1300; 1930-2200.
9.530 megs. 31.48 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.	W3XAU, Philadelphia (Newton Square), Pa. Relays CBS-WCAU. 750 watts. Address W3XAU, 6.060 megs. Daily, 1200-2000.
9.540 megs. 31.43 m. DJN, Zeesen, Germany, 8 kW. Programs close with "Deutschland ueber alles" and "Horst Wessellied." Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 megs.	9.595 megs. 31.25 m. HBL, Prangins (Geneva), Switzerland. 18 kW. "Radio Nations." Werks USA and broadcasts. Programs consist of talks in English, French, Spanish. Address HBP, 7.797 megs. Sat., 1730-1815.
	9.600 megs. 31.23 m. CT1AA, Lisbon, Portugal. 2kW. "Radio Colonial." Interval sig.: 3 cuckoos. Address: Senhor Abilio Nunes dos Santos, Jr., Av. Antonio d'Aguiar 144. Tues., Thurs., Sat., 1630-1900.
	LQA, Buenos Aires, Argentina. Compania Internacional de Radio. Defensa 143, B. A.
	9.609 megs. 31.20 m. DGU, Nauen, Germany. Phones Egypt irreg. Address DGK, 6.675 megs.

SHORT WAVE STATIONS BY FREQUENCIES

12RO, Rome, Italy. Address Ente Italiano Audizioni Radiefoniche, Via Montello 5, Rome. American Hour broadcast Mon., Wed., Fri., 1800-1930.	9.635 mags.	31.12 m.
DJI, Zeesen, Germany.	9.675 mags.	30.99 m.
GCA, Rugby, England. 15 kW. Phones N. Y. and Buenos Aires. Address GCB, 9.280 mags.	9.710 mags.	30.88 m.
RKF, Moscow, USSR. 20 kW. VLJ, Sydney (Pennant Hills), Australia. 3.5 kW. Phones Bandoeng. Address VK2ME, 9.585 mags. WOF, Lawrenceville, N. J. Address WNA, 9.170 mags.	9.750 mags.	30.75 m.
GCW, Rugby, England. 15 kW. Phones N. Y. evenings. Address GCB, 9.280 mags.	9.790 mags.	30.63 m.
IRM, Rome, Italy. "Itale Radio"	9.830 mags.	30.50 m.
JYS, Komikawa-Cho, Chiba-Ken, Japan. Experimental. 10 kW.	9.840 mags.	30.47 m.
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.	9.862 mags.	30.40 m.
WON, Lawrenceville, N. J. 20 kW. Works London. Add: WNA, 9.170.	9.870 mags.	30.38 m.
LSN2, Buenos Aires (Hurlingham), Argentina. Address LQA, 9.600 mags.	9.890 mags.	30.32 m.
LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address LQA, 9.600 mags.	9.895 mags.	30.30 m.
JDY, Darien. Works JVU, Nazaki.	9.920 mags.	30.22 m.
HJY, Bogota, Colombia. Phones CEC, OCI evenings.	9.930 mags.	30.19 m.
GCU, Rugby, England. 15 kW. Works N. Y. nights. Address GCB, 9.280 mags.	9.950 mags.	30.13 m.
KAZ, Manila, P. I. 40 kW. Works Dixon. Radio Corp. of the Philippines, Plaza Moraga. LSL, Buenos Aires, Argentina. Address LQA, 9.600 mags.	9.990 mags.	30.01 m.
WWV, Beltsville, Md. 20 kW. Standard Frequency Station. Dept. of Commerce, National Bureau of Standards, Washington, D. C. Tues., Fri., 1315-1415.	10.000 mags.	29.96 m.
HII, Santo Domingo, D. R.	10.040 mags.	29.86 m.
DJJ, Zeesen, Germany.	10.042 mags.	29.85 m.
SUV, Cairo (Abu Zabal), Egypt. 10 kW. Marconi	10.055 mags.	29.82 m.

Radio Telegraph Co., of Egypt, S. A., Box 795, Cairo. ZFB, Hamilton (St. George) Bermuda. 1.5 kW. Phones N. Y. days.	10.070 mags.	29.77 m.
EHY, Madrid (Pazuela del Rey), Spain. Phones YVR afternoons. Compania Telefonica Nacional de Espana, S. A., Margall 2, Madrid.	10.080 mags.	29.74 m.
RIR, Tiflis, USSR. Works RIO, RNE mornings.	10.135 mags.	29.58 m.
OPM, Leopoldville, Belgian Congo. 12 kW. Works ORK. Address Leopoldville Radio Station.	10.160 mags.	29.51 m.
RIO, Baku, USSR. Works RIR, RNE mornings.	10.200 mags.	29.34 m.
PSH, Rio de Janeiro (Marapicu), Brazil. 12 kW. Works Buenos Aires. Cia. Radiotelegraphica Brasileira, Caixa Postal 500.	10.250 mags.	29.25 m.
LSL, Buenos Aires (Hurlingham), Argentina. 5 kW.	10.260 mags.	29.22 m.
PMN, Bandoeng, N. E. I. 3 kW. Works Sydney. Address PLV, 9.415.	10.285 mags.	29.15 m.
DIQ, Koenigsusterhausen, Germany. Address DGK, 6.675 mags.	10.290 mags.	29.14 m.
HPC, Panama City, Panama.	10.300 mags.	29.11 m.
LSL2, Buenos Aires, Arg. 5 kW. Phones Europe.	10.310 mags.	29.08 m.
PPM, Rio de Janeiro, Brazil. Works LSX, WCG. WET irreg.	10.330 mags.	29.02 m.
ORK, Brussels (Ruyssede), Belgium. 11 kW. Works OPM irregularly; broadcasts daily. Ann.: Radio I.N.R. Sign off: La Brabaconne. Address: Regie des Telegraphes et des Telephones, Direction des Radiocommunications, Bruxelles.	10.335 mags.	29.01 m.
ZFD, St. George, Bermuda. 1.5 kW. Address reports on special transmissions to Town Clerk, St. George.	10.350 mags.	28.97 m.
LSX, Buenos Aires (Monte Grande), Argentina. 20 kW. Transradio Internacional, Compania Radiotelegrafica Argentina S. A. San Martin 329.	10.370 mags.	28.91 m.
EHZ, El Tablero, Canaries. Works EHX. WCG (W2XBJ), Tuckerton, N. J.	10.375 mags.	28.89 m.
JVO, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC, Harbin. Address JZG, 6.330 mags.	10.400 mags.	28.83 m.
KEZ, Bolinas, Calif. 40 kW. RCA Communications, Inc., Pacific Division, 28 Geary St., San Francisco, Calif.	10.410 mags.	28.80 m.
....., Bolinas, Calif. 40 kW. Address KEZ. 10.400 mags.		

SHORT WAVE STATIONS BY FREQUENCIES

PDK, Kootwijk, Netherlands. 60 kW. Address Radio-laboratory, Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.		Int. sig.: 4 chimes. National Bank of Mexico. Box 2825.	
10.420 megs.	28.77 m.	11.140 megs.	26.91 m.
XGW, Shanghai, China. 20 kW. Address XGO 7.575 megs.		XGB, Shanghai, China. 15 kW. (Existence doubtful).	
10.430 megs.	28.75 m.	11.370 megs.	26.38 m.
YBG, Medan, Sumatra, N. E. I. 3 kW. Works Bandoeng. Director of Govt. Radio Service, Telegraaf en Telefoondienst, Serdangweg 2, Medan. Daily, 0430-0530; 2030-2300.		CWG, Cerrito (Montevideo), Uruguay. 1.5 kW.	
10.465 megs.	28.64 m.	11.495 megs.	26.08 m.
WKC, Rocky Point, N. Y. 100 kW. Address WAD, 8.930 megs.		VIZ3, Rockbank (Melbourne), Australia. Tests with Canada. Address VK3ME, 9.503 megs.	
10.520 megs.	28.50 m.	11.660 megs.	25.71 m.
VLK, Pennant Hills (Sydney), Australia. 16 kW. Address VK2ME, 9.585 megs.		JVL, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address JZG, 6.330 megs.	
10.530 megs.	28.47 m.	11.670 megs.	25.69 m.
GBX, Rugby, England. 8 kW. Address GCB, 9.280 megs.		PPQ, Rio de Janeiro (Sepetiba), Brazil. 5 kW. Address, see PSH, 10.220 megs.	
JIB, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.		11.680 megs.	25.67 m.
10.550 megs.	28.42 m.	KIO, Kahuku, Oahu, Hawaii. Works Bolinas. Kahuku, Oahu, T. H. Works GMBJ.	
WOK, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 megs.		11.720 megs.	25.58 m.
10.610 megs.	28.25 m.	CJRX, Winnipeg, Man. (Middlechurch). James Richardson & Sons, Royal Alexandra Hotel. Daily, 2000-2400.	
WEA, Rocky Point N. Y. 40 kW. Address WAD, 8.930 megs.		HJ4ABA, Medellin, Colombia. "Ecos de la Montana." "Radio Coloniale," Pontaise, France. 15 kW. Address: Ministere des Postes, Telegraphes et Telephones, Direction de la Radiodiffusion, 98 bis, Blvd. Haussmann, Paris. Daily, 1900-2200; 2300-0100.	
10.620 megs.	28.23 m.	11.725 megs.	25.57 m.
EHX, Madrid (Pozuelo del Rey), Spain.		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.	
10.660 megs.	28.13 m.	11.750 megs.	25.52 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.		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.	
10.670 megs.	28.10 m.	11.770 megs.	25.47 m.
CEC, La Granja, (Santiago) Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago. Broadcasting irregularly.		DJD, Zeesen, Germany. 8 kW. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 megs.	
PLQ, Bandoeng, N. E. I. 60 kW.		11.790 megs.	25.43 m.
10.675 megs.	28.09 m.	DJO, Zeesen, Germany. Address DJC, 6.020 megs. HH2T, Port-au-Prince, Haiti.	
WNB, Lawrenceville, N. J. 500 watts. Phones Bermuda. Address, WNA, 9.170 megs.		WIXAL, Boston, Mass. 5 kW.	
10.740 megs.	27.92 m.	11.800 megs.	25.37 m.
JVM, Nazaki, Ibaraki-Ken, Japan. 20 kW. Other details identical JVN, 10.660.		CO9WR, Sancti-Spiritus, Cuba. 150 watts. V. E. Weiss y O. Ramirez, Apartado 85.	
10.770 megs.	27.84 m.	11.810 megs.	25.39 m.
GBP, Rugby, England. 15 kW. Address GCB, 9.280 megs.		VE9GW, Toronto (Bowmanville), Ont.	
10.840 megs.	27.66 m.	11.811 megs.	25.38 m.
KWV (W6XN), Dixon, Calif. 20 kW. Address: Trans-pacific Communication Co., Ltd., 140 New Montgomery St., San Francisco, Calif.		IRE, Rome, Italy. Address I2RO, 9.630 megs. Daily, 0815-0900; 0915-1015; 1200-1300; 1345-1430.	
10.850 megs.	27.63 m.	11.830 megs.	25.34 m.
DFL, Nauen, Germany.		W2XE, New York, N. Y. (Wayne, N. J.) Relays CBS, WABC. 10 kW. Address W2XE, 6.120 megs. Daily, 1500-1700.	
10.960 megs.	27.36 m.	W9XAA, Chicago, Ill.	
JZB, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVV. Add: Manchukuo Telephone & Telegraph Co., Ltd., Shinkio.		11.845 megs.	25.31 m.
11.000 megs.	27.26 m.	Villejust, France. 120 kW. Under construction.	
PLP, Bandoeng, Java, N. E. I. 3 kW.			
XBJQ, Mexico City, Mexico. Relays XEW irreg.			

SHORT WAVE STATIONS BY FREQUENCIES

11.860 mags. GSE, Daventry, England. 20 kW. "E for Empire." Interval signal: Westminster Chimes and Big Ben. Sign off: God Save the King. Address: see GSA, 6.050 mags. Daily, 1100-1200.	25.28 m. 24.33 m. DAF, Norden, Germany. 5 kW. Phones ships, mornings. For address see DAF, 8.464 mags.
11.870 mags. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh, Pa. Daily, 1700-2100.	12.500 mags. RKF, Moscow, USSR. 20 kW. ZSV, Walvis Bay, Union of South Africa. 1 kW.
11.880 mags. "Radio Coloniale," Pointoise, France. 15 kW. Address, see 11.720 mags. Daily, 1115-1415; 1500-1800.	12.745 mags. DAF, Norden, Germany. 5 kW. Works ships. Address DAF, 8.464 mags.
11.940 mags. FTA, Ste. Assise, France. Works Saigon. Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris VIII. (ETA-ETB?), Addis Ababa, Ethiopia. 2 kW. Frank A. Hammar, Chief Wireless Engineer, Dept. of Communications.	12.780 mags. GBC, Rugby, England. 5 kW. Works ships. Address GCB, 9.280 mags.
11.950 mags. KKQ, Bolinas, Calif. Address KEZ, 10.400 mags.	12.795 mags. IAC, Caltano, Italy. 14 kW. Works ships. Address IAC, 4.355 mags.
11.990 mags. FZS2, Saigon, French Indo-China. 15 kW. Phones Paris. Cie Generale de Telegraphie Sans Fil, Boite Postale 238.	12.830 mags. CNR, Rabat, Morocco. Works Paris. Address, CNR, 8.035 mags. HJA3, Barranquilla, Colombia.
12.000 mags. 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, Central Radio Committee, Petrovka 12, Moscow.	12.840 mags. WOO, Ocean Gate, N. J. 20 kW. Works ships. Address WNA, 9.170 mags. WOY, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 mags.
12.020 mags. JVK, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 mags.	12.862 mags. WOEH, Broadcast pickup. NBC, 30 Rockefeller Plaza, NYC.
12.030 mags. HBO, Prangins, (Geneva), Switzerland. 20 kW. "Radio Nations." Address: see HBP, 7.797 mags.	12.930 mags. WAW, Hialeah, Fla.
12.035 mags. DJK, Nauem, Germany. 7.2 kW. Address DGK, 6.675 mags.	12.955 mags. GMBJ, S. S. Empress of Britain. Works WOO, IAC, DAF, GBC, CZA, etc.
12.050 mags. PDV, Kootwijk, Netherlands. 60 kW. Address: PDK, 10.410 mags.	13.020 mags. JZE, Nazaki, Japan. 10 kW. Works ships. Address, JZG, 6.330 mags.
12.150 mags. GBS, Rugby, England. 15 kW. Phones N. Y. afternoons. Address: GCB, 9.280 mags.	13.040 mags. SHIPS. For address of these ships refer to 4413, 4415 and 4430 mags. All these ships work with WOO, and DAF. DDBR, S. S. Berlin. DDCP, S. S. Cap Polonia. DDFF, S. S. Relianca. DDFT, S. S. Oceana. DHAO, S. S. Hansa. DHDL, S. S. Cap Arcona. DHEY, S. S. Deutschland. DHJZ, S. S. Hamburg. DHRL, S. S. New York. DOAH, S. S. Bremen. DOAI, S. S. Europa.
12.215 mags. TYA, Paris, France. Phones Algeria. Address: FTA, 11.940 mags.	13.050 mags. 22.97 m. These ships work with IAC and WOO. All owned by the Italian Line, 1 State St., N. Y. C. IBEJ, S.S. Conte Rosso. IBGI, S. S. Conte Verde. IBLI, S. S. Conte di Savoia. ICEJ, S. S. Rex.
12.225 mags. TFK, Reykjavik, Iceland. 8.5 kW.	13.075 mags. 22.93 m. VPD, Suva, Fiji. "Radio Suva." Amalgamated Wireless (A/sia) Ltd., Suva. Daily exc. Sunday. 0030-0130.
12.240 mags. GBU, Rugby, England. Phones N. Y. Address: GCB, 9.280 mags.	13.105 mags. 22.88 m. IRJ, Rome, Italy.
12.250 mags. TYB, Pointoise, France. Works JVH and Ships.	13.140 mags. 22.82 m. CWH, Montevideo (Cerrito), Uruguay. 1.5 kW.
12.260 mags. FTN, Ste. Assise, France. Address: FTA, 11.940 mags.	
12.270 mags. JVJ, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 mags.	
RKK, Moscow, USSR. 20 kW.	

SHORT WAVE STATIONS BY FREQUENCIES

13.190 mags. FNSK, S. S. Normandie. Works Paris afternoons. Address FNSK, 8.810 mags.	22.73 m.	13.900 mags. WQP (W2XBJ), Rocky Point, N. Y. Address: WPE, 13.840 mags.	21.57 m.
13.200 mags. CFU, Rossland, B. C. Consolidated Mining & Smelt- ing Co.	22.71 m.	13.980 mags. LCO, Jely, Norway. 1kW. Address LCL, 6.130 mags.	21.45 m.
13.210 mags. FNSK, S. S. Normandie. Works WOO, afternoons. Address FNSK, 8.810 mags.	22.70 m.	13.984 mags. GBA, Rugby, England. Address GCB, 9.280 mags.	21.44 m.
13.320 mags. GBZW, S. S. Berengarla. GDLJ, S. S. Hemicic. GFWV, S. S. Majestic. GLRZ, S. S. Aquitania.	22.51 m.	14.000 to 14.400 mags. 20.82 to 21.42 meters. AMATEURS. Phones work between 14.150 and 14.250 mags.	21.42 m.
13.337 mags. YVQ, Maracay (Santa Rita), Venezuela. Phones Hialeah days.	22.48 m.	14.000 mags. HJSABE, Cali, Colombia. Apartado 50. Daily 1900- 2200.	21.06 m.
13.390 mags. WMA, Lawrenceville, N. J. Works London. Address WNA, 9.170 mags.	22.39 m.	14.236 mags. HB9B, Berne, Switzerland. Swiss Shortwave Associa- tion, 30 Neuengasse, Berne. First Monday every month 1510-1615; 1800-1900.	20.99 m.
13.398 mags. FNSM, S. S. Paris. FNTQ, S. S. Ile de France.	22.39 m.	14.290 mags. HB9AT, Berne, Switzerland. Address HB9B above. First Monday each month, 1800-1900.	20.82 m.
13.410 mags. WCT, San Juan, Puerto Rico. 400 w. Phones WNC. Radio Corp. of P. R.	22.36 m.	14.400 mags. HB9J, Berne, Switzerland. Address HB9B above. First Monday each month, 1510-1615.	20.81 m.
13.415 mags. GCJ, Rugby, England. Works JVH, Nazaki. Address GCB 9.280 mags., 0300-0300.	22.35 m.	14.410 mags. DIP, Zeesen, Germany.	20.76 m.
TIEP, San Jose, Costa Rica. "La Voz del Tropic". Sr. Eduarde Pinto Hernandez, Apartado 257. Sunday at 1300.	22.35 m.	14.440 mags. GBW, Rugby, England. 15 kW. Address GCB, 9.280 mags.	20.72 m.
13.435 mags. WEL, Rocky Point, N. Y. Phones London. Address WAD, 8.930 mags.	22.31 m.	14.470 mags. WMF, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.	20.70 m.
13.500 mags. GBB, Rugby, England. Phones Canada and Egypt days. Address: GCB, 9.280 mags.	22.21 m.	14.480 mags. LSN, Buenos Aires (Hurlingham), Argentina. Phones N. Y. Address: Compania Internacional de Radio, Defensa 143.	20.63 m.
13.560 mags. JVI, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC, Harbin. Address: Kekusai-Denwa Kaisha, Ltd., Osaka Bldg., Keijimachiku, Tokyo.	22.11 m.	14.535 mags. HBJ, Frangins (Geneva), Switzerland. 20 kW. "Radio Nations." Address: M. Gallarati, Information Section, League of Nations, Geneva.	20.69 m.
13.000 mags. JYK, Kemikawa-Cho, Chiba-Ken, Japan. Esperim- ental.	22.05 m.	14.545 mags. HPF, Panama City, Panama. Phones Hialeah days. TGF, Guatomala City, Guat. Phones Hialeah days. TIN, Cartago, Costa Rica. Phones Hialeah days. Compania Radiografica Internacional de C. R., San Jose.	20.55 m.
13.630 mags. SPW, Warsaw, Poland. 10 kW. Minister of Post and Telegraphs, Mazowiecka 5, Warsaw.	22.00 m.	14.590 mags. WMN, Lawrenceville, N. J. 20 kW. Address WMF, 14.470 mags.	20.42 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.	20.41 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. Compania Radio Inter- nacional do Brasil, Caixa Postal 709.	20.34 m.
13.780 mags. KKW, Bolinas, Calif. Address: KEZ, 10.400 mags.	21.75 m.	14.740 mags. IRG, Massawa, Eritrea.	20.27 m.
13.810 mags. HRM, Tela, Honduras. Tela Railroad Co. SUZ, Cairo (Abu Zabal), Egypt. 10 kW. Uses any freq. between 13.810 and 13.830 mags. Ad- dress SUV, 10.055 mags.	21.71 m.	14.790 mags. ROU, Omsk, USSR.	
13.870 mags. WIY, Rocky Point, N. Y. Address: WPE, 13.840 mags.	21.61 m.		

SHORT WAVE STATIONS BY FREQUENCIES

14.800 megs. 29.26 m. WQV, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.	15.220 megs. 19.70 m. PCJ, Hilversum, Netherlands. Philips' Omroep Holland-Indio, Emmasingel 29, Eindhoven. Announcements in Dutch, English, French, German, Malay, Portuguese, Spanish. Sign off: Dutch National Anthem. Irregular in operation.
14.830 megs. 28.21 m. WKU, Rocky Point, N. Y. 40 kW. Address WPE 13.840 megs.	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.
14.845 megs. 28.20 m. OCJ2, Lima (Valverde) Peru.	15.260 megs. 19.65 m. GSI, Daventry, England. "I for Island." For other details see GSF, 15.140 megs.
14.910 megs. 28.11 m. JVG, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address: JVI, 13.560 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 1108-1300.
14.930 megs. 28.08 m. HJB, Bogota, Colombia. Phones Hialeah, days.	15.280 megs. 19.62 m. DJQ, Zeesen, Germany.
14.935 megs. 28.07 m. PSE, Rio de Janeiro, Brazil. Phones Buenos Aires and Madrid. Address: PSF, 14.690 megs.	15.295 megs. 19.60 m., Villejust, France. 120 kW. Under construction.
14.980 megs. 28.01 m. KAY, Manila, P. I. 40 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.	15.300 megs. 19.60 m. CPT, La Paz, Bolivia. Compania Radio Boliviana, Casilla 637. OXY, Copenhagen, Denmark.
15.000 megs. 19.99 m. WWV, Beltsville, Md. 1kW. National Bureau of Standards, Washington, D. C. Wed, 1200-1300.	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 man-made lightning. Sunday, 1030-1600; other days, 1400-1500.
15.040 megs. 19.93 m. RKI, Moscow, USSR. 20 kW. Works RIM Tashkent.	15.340 megs. 19.55 m. DJR, Zeesen, Germany.
15.055 megs. 19.91 m. WNC, Hialeah, Fla. 400 watts. Works HJB, HJP, HPF, HRM, TGF, TIN, TIU, YNA, YVQ and ZFS daily; other S. Americans irregularly.	15.350 megs. 19.53 m. CT1AA, Lisbon, Portugal. 2kW. Int. Sig.: 3 cuckoos. Address CT1AA, 9.600 megs.
15.070 megs. 19.89 m. PSD, Rio de Janeiro (Marapicu), Brazil. 12 kW. Works Madrid and Buenos Aires mornings. Address: PSF, 14.690 megs.	15.355 megs. 19.52 m. KWU (W6XN), Dixon, Calif. 20 kW. Address KWV, 10.840 megs.
15.090 megs. 19.87 m. RKI, Moscow, USSR. 20 kW. Works Rocky Point.	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.
15.104 megs. 19.85 m. RAU, Tashkent, USSR. Phones Moscow mornings.	15.415 megs. 19.45 m. KWO (W6XN), Dixon, Calif. 20 kW. Address KWV, 10.840 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: Stazioe Radio-Vaticana, Pontificia Accademia Della Scienza, Roma-Castina Pio IV, Citta del Vaticano. Schedule: 1000-1045.	15.440 megs. 19.42 m. PRADO, Riobamba, Ecuador. "Estacion El Prado." Apartado 98. This freq. used in summer only, Sundays, 1780-1800.
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., Broadcast'ing House, London W.1. Daily, 0900-1200; daily exc. Sun., 0600-0845; Sun., 0630-0845.	15.445 megs. 19.41 m. WKW, Rocky Point, N. Y. Address WPE, 13.840.
15.200 megs. 19.73 m. DJB, Zeesen, Germany. 8 kW. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC 6.020 megs.	15.454 megs. 19.40 m., Pontoise, France. (Proposed).
15.210 megs. 19.71 m. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg. Daily 0900-1900.	15.475 megs. 19.37 m. KKL, Bolinas, Calif. Address KEZ, 10.400 megs.
	15.510 megs. 19.33 m. JDX, Darien. Works JVU Nazaki.

SHORT WAVE STATIONS BY FREQUENCIES

15.620 megs. 19.19 m. JVF, Nazaki, Japan. 20 kW. Works Dixon, nights. Address JVI, 13.560 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.
15.660 megs. 19.15 m. JVE, Nazaki, Japan. 10 kW. Works Bandoeng nights. Address JVI 13.560 megs.	17.260 megs. 17.37 m. DAF, Norden, Germany, 5 kW. Works ships. Ad- dress DAF, 8.464 megs.
15.680 megs. 19.12 m. JZA, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVV. Ad.: Manchukuo Tele- phone & Telegraph Co., Shinkio.	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 Broad- casting Co., 30 Rockefeller Plaza, N. Y. C.
15.750 megs. 19.04 m. JIA, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.	17.480 megs. 17.15 m. VWY, Kirkee, Poona, India. Phones London.
15.760 megs. 19.02 m. JYT, Kemikawa-Cho. Chiba-Ken, Japan. 5 kW.	17.520 megs. 17.11 m. DFB, Nauen, Germany. Works S. America mornings. Address DGK, 6.675 megs.
15.860 megs. 18.90 m. CEC, La Granja (Santiago), Chilo. 800 watts. Phones Peru, afternoons. Address CEC, 10.670 megs. JVD, Nazaki, Japan. Works Shanghai. Address JVI, 13.560 megs.	17.710 megs. 16.93 m. CJA3, Drummondville, P. Q. Works London. Ad- dress CGA2, 13.745 megs.
15.863 megs. 18.90 m. FTK, Ste. Assise, France. Phones Saigon. Address FTA, 11.940 megs.	17.740 megs. 16.90 m. HSP, Bangkok, Siam. 20 kW. Post & Telegraph Dept.
15.950 megs. 18.80 m. PLG, Bandoeng, Java, N. E. I.	17.760 megs. 16.88 m. DJE, Zeesen, Germany. 5 kW.
15.970 megs. 18.77 m. WKO, Rocky Point, N. Y. Address WPE, 13.840 megs.	17.765 megs. 16.88 m., Villejust, France. 120 kW. Under con- struction.
16.030 megs. 18.71 m. KKP, Kahuku, Oahu, Hawaii., Kahuku, Oahu, T. H. Phones GMBJ.	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.
16.050 megs. 18.68 m. JVC, Nazaki, Japan. Works Hongkong. Address JVI, 13.560 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. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Not used at present. W9XAA, Chicago, Ill. Not used at pres.
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.	17.790 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.
16.200 megs. 18.51 m. FZR, Saigon, French Indo-china. Phones Paris. Address FZS2, 11.990 megs.	17.830 megs. 16.82 m. PCV, Kootwijk Netherlands. Works Java, mornings. Radiolaboratory Neth. State Telegraphs. Parkstraat 29, S'Gravenhage.
16.240 megs. 18.49 m. KTO, Manila, P. I. Phones Dixon. Radio Corp. of the Philippines, Plaza Moraga, Manila.	17.850 megs. 16.80 m. PLF, Bandoeng, Java, N. E. I.
16.270 megs. 18.48 m. WLK, Lawrenceville, N. J. Works London. Address WMF, 14.470 megs.	17.900 megs. 16.75 m. WLL, Rocky Point, N. Y. 20 kW. Address WPE. 13.840 megs.
16.380 megs. 18.30 m. XGN, Shanghai, China. Address XGO, 7.575 megs.	17.920 megs. 16.73 m. WQF, Rocky Point, N. Y. 40 kW. Address WPE. 13.840 megs.
16.460 megs. 18.22 m. DHEY, S. S. Deutschland. Works WOO, DAF. Ad- dress, North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.	17.940 megs. 16.71 m. WQB (W2XBJ), Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.
16.600 megs. 18.06 m. DOAI, S. S. Europa. Phones WOO, DAF. Address DHEY above.	18.020 megs. 16.64 m. KQJ, Bolinas, Calif. 40 kW. Address KEZ, 10.400 megs.
16.910 megs. 17.73 m. JZD, Nazaki, Japan. 20 kW. Works ships. Address JVI, 13.560 megs.	
17.080 megs. 17.55 m. GBC, Rugby, England. 5 kW. Works ships. Ad- dress GBX, 16.150 megs.	

SHORT WAVE STATIONS BY FREQUENCIES

18.115 megs.	16.55 m.	18.890 megs.	15.87 m.
LSY3, Buenos Aires (Monte Grande), Argentina. Transradio Internacional, San Martin 329, B. A.		ZSS, Capetown (Klipheue), Union of South Africa. SkW. Works London. Overseas Communication Co., Kodak House, Shortmarket St., Capetown.	
18.135 megs.	16.53 m.	18.900 megs.	15.86 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 Telefoonienst, Bedrijf der Radiostations op Java, Bandoeng.		WDS, Rocky Point, N. Y. Address WKM, 18.860 megs..	
18.180 megs.	16.49 m.	18.910 megs.	15.86 m.
CGA, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.		JVA, Nazaki, Japan. 20 kW. Works Europe. Address JVB, 18.190.	
18.190 megs.	16.48 m.	18.920 megs.	15.84 m.
JVB, Nazaki, Japan. 10 kW. Works PLE, PLV. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.		WQE, Rocky Point, N. Y. Address WKM, 18.860 megs..	
18.260 megs.	16.47 m.	18.950 megs.	15.82 m.
GAW, Rugby, England. 15 kW. Werks N. Y. Address: GBX, 16.150 megs.		HBF, Prangins (Geneva), Switzerland. 20 kW. Address HBJ, 14.535 megs.	
18.270 megs.	16.41 m.	18.970 megs.	15.80 m.
ETA, Addis Ababa, Ethiopia. 2 kW.		GAQ, Rugby, England. Works Capetown 0800. Address GBX, 16.150 megs.	
18.296 megs.	16.39 m.	19.120 megs.	15.68 m.
YVR, Maracay (Santa Rita), Venezuela. Works Berlin, Estados Unidos de Venezuela, Servicio Radiotelegrafico.		LSM, Buenos Aires, Argentina. Works Europe.	
18.304 megs.	16.38 m.	19.200 megs.	15.62 m.
GAS, Rugby, England. Works N. Y. mornings. Address: GBX, 16.150 megs.		ORG, Brussels (Ruyssede), Belgium. 8 kW. Works Leopoldville. Address ORK, 10.330 megs.	
18.330 megs.	16.36 m.	19.220 megs.	15.60 m.
FTE, Ste. Assise, France. Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris VIII.		WKF, Lawrenceville, N. J. 20 kW. Address WLA, 18.359 megs.	
18.342 megs.	16.35 m.	19.270 megs.	15.57 m.
FZS, Saigon, French Indo-China. Works Paris. Address: FZS2, 11.990 megs.		PPU, Rio de Janeiro, Brazil. Works Paris. 13.5 kW. Address: Cia Radiotelegrafica Brasileira, Caixa Postal 500, Rio de Janeiro.	
18.350 megs.	16.34 m.	19.345 megs.	15.50 m.
WLA, Lawrenceville, N. J. A. T. & T. Long Lines Dept., 32 Sixth Ave., N. Y. City.		PMA, Bandoeng, Java, N. E. I. 40 kW. Address: PMC, 18.135 megs.	
18.400 megs.	16.25 m.	19.355 megs.	15.46 m.
PCK, Kootwijk, Netherlands. Works Java. Address: PCV, 17.830 megs.		FTM, Ste. Assise, France. Address: FTE, 18.330 megs.	
18.444 megs.	16.25 m.	19.520 megs.	15.36 m.
HJY, Bogota, Colombia. Works CEC, LSR, OCI days.		IRW, Rome, Italy. Works Argentina. 20 kW. Address: Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125.	
18.450 megs.	16.25 m.	19.600 megs.	15.30 m.
HBH, Prangins, Switzerland. 20 kW. Address: HBJ, 14.535 megs.		LSF, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.	
18.600 megs.	16.12 m.	19.680 megs.	15.24 m.
PCM, Kootwijk, Netherlands. Address: PCV, 17.830 megs.		CEC, La Granja (Santiago), Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago.	
18.620 megs.	16.10 m.	19.820 megs.	15.13 m.
GAU, Rugby, England. 15 kW. Address: GBX, 16.150 megs.		WKN, Lawrenceville, N. J. Address: WLA, 18.350.	
18.670 megs.	16.06 m.	19.900 megs.	15.06 m.
OCI, Lima (Valverde), Peru. Works HJY, CEC, LSR, WNC days. Compania Peruana de Telefonos, Apartado 986, Lima.		LSG, Euenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs..	
18.830 megs.	15.92 m.	19.980 megs.	15.01 m.
PLE, Bandoeng, Java, N. E. I. 40 kW. Works Dixon nights, Tokyo mornings. Address: PMC, 18.135 megs.		KAX, Manila, P. I. Radio Corp of the Philippines, Plaza Moraga, Manila.	
18.860 megs.	15.89 m.	20.020 megs.	14.98 m.
WKM, Rocky Point, N. Y. 40 kW. Address: R. C. A., 66 Broad St., N. Y. City.		DHO, Nauen, Germany. 7.2 kW. Works S. America. Reichspost-zentralamt, Telegraphentechnisches Reichsamt, Schonoberger Strasse 11-15, Berlin-Tempelhof.	
		20.040 megs.	14.97 m.
		OPL, Leopoldville, Belgian Congo. 9 kW. Works ORG.	

SHORT WAVE STATIONS BY FREQUENCIES

<p>20.100 mags. 14.91 m. WQY, Rocky Point, N. Y. 40 kW. Address: WKM, 18.860 mags.</p> <hr/> <p>20.368 mags. 14.72 m. GAA, Rugby, England. 15 kW. Address: GBX, 16.150 mags.</p> <hr/> <p>20.686 mags. 14.55 m. PMB, Bandoeng, Java, N. E. I. Works PCK. Address: PMC, 18.135 mags.</p> <hr/> <p>21.020 mags. 14.27 m. LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address: LSN, 14.480 mags.</p> <hr/> <p>21.060 mags. 14.24 m. KWN, (W6XN), Dixon, Calif. 20 kW. Address: KWV, 10.840 mags. WKA, Lawrenceville, N. J. 20 kW. Address: WLA, 18.350 mags.</p> <hr/> <p>21.870 mags. 14.23 m. PSA, Rio de Janeiro (Marapicu), Brazil. 10 kW. Works N. Y. Address: PSF, 14.690 mags.</p> <hr/> <p>21.128 mags. 14.19 m. LSM, Buenos Aires (Monte Grande), Argentina. Address: LSY3, 18.115 mags.</p> <hr/> <p>21.410 mags. 14.00 m. WKK, Lawrenceville, N. J. Address: WLA, 18.250 mags.</p>	<p>21.460 mags. 13.97 m. W1XAL, Boston, Mass. 5 kW.</p> <hr/> <p>21.470 mags. 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 mags. 13.95 m. Villejust, France. 120 kW. Under construction.</p> <hr/> <p>21.530 mags. 13.93 m. GSJ, Daventry, England. "J for Justice." See GSH, 21.470 mags.</p> <hr/> <p>21.540 mags. 13.92 m. W8XK, Pittsburgh (Saxenburg), Pa. 40 kW. Relays NBC-KDKA. Grant Building. 0700-0900.</p> <hr/> <p>22.290 mags. 13.45 m. GBU, Rugby, England, Works N. Y. Address: GBX, 16.150 mags.</p> <hr/> <p>26.100 mags. 11.49 m. GSK, Daventry, England. "K for King." See GSH, 21.470 mags.</p> <hr/> <p>29.820 mags. 10.05 m. IAF, Fiumicino, Italy, 5 kW.</p> <hr/> <p>30.604 mags. 9.80 m. IAG, Golfo Aranci, Sardinia. 5 kW.</p>
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SHORT WAVE STATIONS BY LOCATIONS

<p>ALASKA (K)</p> <p>Akutan</p> <p>KHW 2.912 KIOT 2.632</p> <p>Angoon</p> <p>KAED 2.616 KAED 3.093</p> <p>Cape Pole</p> <p>KIJB 2.994</p> <p>Circle</p> <p>KIKK 2.994 KIKK 3.190</p> <p>Cordeva</p> <p>KDV 2.538 Deep Cove KHP 1.622 KHP 1.622</p> <p>Eagle</p> <p>KIIN 2.994 KIIN 3.190 Excursion Inlet KILY 2.994</p> <p>Eyak River</p> <p>KIKN 3.893 Fairbanks</p> <p>KIFM 4.124</p> <p>False Pass</p> <p>KDX 2.986</p> <p>Fort Yukon</p> <p>KIIL 2.994 KIIL 3.190</p> <p>Hidden Inlet</p> <p>KIDE 3.265 KLD 2.566</p>	<p>Heonah</p> <p>KIUZ 3.093 Hot Springs</p> <p>KIIM 2.994 KIIM 3.190</p> <p>Hydaburg</p> <p>KAEB 2.616 KAEB 3.265</p> <p>Igloo</p> <p>KIUQ 2.616 Iron Creek</p> <p>KIOH 2.632 Jack Wade</p> <p>KAEF 2.616 KAEF 2.994</p> <p>Juneau</p> <p>KMYA 2.304 KMYA 4.610 WXA 8.050 Kadiak Island KIJX 2.632</p> <p>Kake</p> <p>KIBA 3.893 KLC 2.512</p> <p>Ketchikan</p> <p>KBAI 2.304 KGM 2.512 KIAY 3.093 WXH 2.684 WXH 6.662</p> <p>Luckyshot</p> <p>KIIP 3.093 McGrath</p> <p>KHO 2.994 KHO 3.190</p> <p>Nakeen</p> <p>KHV 2.566 KICE 3.265</p>	<p>Nellie Juan</p> <p>KGI 2.632 KIOD 2.632</p> <p>Newport Walter</p> <p>KIJS 1.622</p> <p>Pillar Bay</p> <p>KDY 2.994 KNBZ 2.994</p> <p>Poorman</p> <p>KIEJ 2.994</p> <p>Port Alexander</p> <p>KDH 2.538 KGXW 1.606</p> <p>Port Althorp</p> <p>KIAW 3.093 KLB 2.512</p> <p>Port Armstrong</p> <p>KGXU 1.622 Port Conclusion KIJJ 1.622 Port Herbert</p> <p>KIJO 1.622 Port Hobart</p> <p>KHZ 2.912 KIMA 2.632</p> <p>Port San Juan</p> <p>KIJR 2.986</p> <p>P. Wakefield</p> <p>KGX 2.632 KIOC 2.632</p> <p>Red Bluff</p> <p>KIOG 1.622 Rose Inlet</p> <p>KIAP 3.093 KLE 2.512</p> <p>Saldovia</p> <p>KIKY 3.265 Shearwater Bay</p>	<p>KIJW 2.632</p> <p>Tanana</p> <p>KIJJ 2.994 KIJJ 3.190</p> <p>Tin City</p> <p>KION 2.616</p> <p>Tedd</p> <p>KGQ 2.986 KIJU 2.986</p> <p>Uganik</p> <p>KIJP 2.986</p> <p>Union Bay</p> <p>KFF 2.566 KICG 3.265</p> <p>View Cove</p> <p>KICI 3.093 Washington Bay KIKK 1.622</p> <p>Waterfall</p> <p>KIBZ 3.265 KLA 2.566</p> <p>Wrangell</p> <p>KDK 2.538</p> <p>ARGENTINA (LOA-LVZ)</p> <p>Buenos Aires</p> <p>LQA 9.600 LSF 19.600 LSG 19.900 LSL 9.990 LSL 10.250 LSM 19.120 LSM 21.128 LSN 9.895 LSN 14.488 LSN 21.020</p> <p>LSN2 9.890 LSR 18.958 LSX 10.350 LSY3 18.115</p> <p>AUSTRALIA (VHA-VMZ)</p> <p>Adelaide</p> <p>VIA 1.520</p> <p>Fiskville</p> <p>VIZ3 11.495</p> <p>Melbourne</p> <p>VK3LR 9.580 VK3ME 9.503</p> <p>Sydney</p> <p>VKO 1.520 VK2ME 9.585 VLJ 9.750 VLK 8.095 VLK 10.520 VLZ 7.969 VLZ 7.980</p> <p>AUSTRIA (OAE-OEZ)</p> <p>Vienna</p> <p>OER2 6.072</p> <p>AZORES (CT2-)</p> <p>Ponta Delgada CT2AJ 4.000</p>	<p>BAHAMAS (ZF-)</p> <p>Cat Cay</p> <p>ZFO 5.300</p> <p>Nassau</p> <p>ZFS 4.512</p> <p>BELGIAN CONGO (OP-)</p> <p>Leopoldville</p> <p>OPL 20.040 OPM 10.135</p> <p>BELGIUM (ONA-OTZ)</p> <p>Brussels</p> <p>ORG 19.280 ORK 10.330</p> <p>BERMUDA (ZF-)</p> <p>Hamilton</p> <p>ZFA 5.025 ZFB 10.055</p> <p>St. George</p> <p>ZFD 10.335</p> <p>BOLIVIA (CPA-CPZ)</p> <p>La Paz</p> <p>CP5 6.080</p>
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SHORT WAVE STATIONS BY LOCATIONS

CP6 9.120 CP7 15.300	CZG 6.425	QUEBEC		CANARIES		COSTA RICA (TIA-TIZ)		EGYPT (STA-SUZ)	
BRAZIL (PPA-PYZ)	Rosland	Belleveu	CZB 1.620	El Tablero	Cartago		Cairo	SUV 10.055	SUZ 13.810 to 13.830
Rio de Janeiro	CFU 4.755	Crane Island	CZU 2.284	EHZ 10.370	TIN 14.545		TIU 14.545	TIR 7.685	
PPQ 11.679	CFU 5.668	Drummondville	CFA2 4.465	CHILE (CAA-CEZ)	Puntarenas		TI8WS 7.550		ERITREA
PPU 19.270	CFU 6.720	CFA4 10.520	CGA 18.180	Santiago		San Jose	TIEP 6.710		Massawa
PRF5 9.505	CFU 13.200	CGA2 13.745	CGA4 9.332	CEC 5.820	CEC 7.740	TIEP 13.415	TIGPH 5.820		IRG 14.740
PSA 21.078	Sage Creek	CGA6 6.690	CGA7 6.880	CEC 10.670	CEC 15.860	TIPG 6.410	TIRCC 6.550		ETHIOPIA
PSD 15.070	VXX 5.405	CGA9 4.348	CGD 3.340	CEC 19.680		San Ramon	TI5HH 5.520		Addis Ababa
PSE 14.935	Slate Creek	CJA3 17.710	CJA6 2.760	CHINA (XGA-XUZ)	CUBA (CLA-CMZ; COA-COZ)				ETA 7.620
PSF 14.690	CFN 5.705	CZA 4.785	CZA 6.285	Nanking		Camaguey			ETA 18.270
PSH 10.220	Two Brothers	CZA 8.515	CZA 12.660	XGOX 6.000	XOX 9.500	Havana			ETB 11.945
PSK 8.180	VDF 4.490	VE9DN 6.005	VE9DN 9.555	XGOX 11.900	XGOX 17.800	CO9JQ 8.665			FEDERATED MALAY STATES (ZG-)
BRITISH GUIANA (VP3)	Vancouver	VE9DN 11.780	VE9DN 11.780	XGB 11.140	XGBD 9.580	CMB 5.780			Kuala Lumpur
Georgetown	CGZ 2.452	High Falls	VYZ 2.212	XGK 18.690	XGL 7.968	CMFN 1.712			ZGE 6.125
VP3MR 7.080	VDO 4.436	Manicouagan	CFM 1.620	XGN 16.388	XGO 7.575	CO9WR 11.800			FIJI (VPA-VSZ)
CANADA (CFA-CXZ; CYA-CZZ; VAA-VGZ; VXA-VYZ)	VDO 4.865	Montmagny	CFK 2.284	XGW 10.420		Santiago			Suva
ALBERTA	VE9CS 6.070	Mentreal	CGM 3.152	COLOMBIA (HJA-HKZ)	DARIEN (J)				VPD 13.075
Calgary	Waterloo Mine	VE9DR 9.580	VE9DR 9.580	Barranquilla	HJA3 7.685	Darien			FRANCE (F;TYA-TZZ)
CGE 3.040	CZV 4.840	VYR 1.712	VYR 1.712	HJA3 8.790	HJA3 12.830	JDJ 15.510			Pontoise
CGE 7.550	MANITOBA	Riviere du Chef	CZY 1.620	HJA3 12.830	HJ1AB 6.447	JDY 9.920			TYB 12.250
CKS 3.040	Witnipeg	St. Felecion	CZZ 1.620	HJ1ABG 6.042	HJ1ABG 6.042	JDZ 5.710			5.585; 11.720;
CKS 7.550	CJRO 6.150	Tabouret	CFL 1.620	Bogota	HJA2 5.825				11.880; 15.250;
VDC 4.498	CJRX 11.720	Verdun	CJZ 2.452	HJA2 5.825	HJB 14.930	DENMARK (OUA-OZZ)			15.454
VE9CA 6.030	CJU 3.070	CJZ 2.452	CGY 3.152	HJB 14.930	HJN 6.880	Copenhagen			Ste. Assise
VE9CA 11.660	CJU 3.452	Yamachiche	SASKATCHEWAN	HJN 6.880	HJP 7.465	OXY 6.060			18.330
Edmonton	VYV 2.396	CGY 3.152	Cub Lake	HJY 9.930	HJY 18.444	OXY 9.490			FTI 9.840
CFQ 3.048	NEW BRUNSWICK	Emma Lake	CFC 1.596	HJY 18.444	HJ3ABD 7.390	OXY 15.300			FTM 19.355
CFQ 7.550	Fredericton	CGV 1.596	CGV 1.596	HJ3ABD 7.390	HJ3ABF 6.200	DOMINICAN REPUBLIC (HIA-HIZ)			FTN 12.260
BRITISH COLUMBIA	VE9AS 6.425	CGV 1.668	CGV 1.668	HJ3ABH 6.012	HKE 7.090	San Pedro de Macoris			Villejust
Alert Bay	St. John	Hudson Bay Junct.	VXV 5.540	HKE 7.090	Bucaramanga	Macoris			6.145; 9.585;
VAF 1.510	CJW 2.416	Isle-a-la-Crosse	Isle-a-la-Crosse	HJ2ABC 5.975	HJ2ABC 5.975	Santiago de los Caballeros			11.845; 15.295;
Anyox	VE9BJ 6.090	CZJ 1.596	CZJ 1.668	Ibague	HJ4BC 6.450	HI-1-A 6.240			17.765; 21.490
Bones Bay	NOVA SCOTIA	CJZ 1.668	Lac la Ronge	Cartagena	HJ5ABD 6.490	Santo Domingo			FRENCH INDO-CHINA (F)
CFW 2.290	Halifax	CGQ 1.596	CGQ 1.668	HJ5ABE 14.000	HJ5ABE 14.000	HI 10.040			Saigon
Campbell River	CHNX 6.110	Prince Albert	VYP 1.596	HJ5ABE 14.000	HJ5ABE 14.000	HIL 6.518			FZR 16.280
CGT 4.865	VBN 1.540	VYP 1.668	VXU 5.540	HJ5ABE 14.000	HJ5ABE 14.000	HIX 5.980			FZS 18.342
CJD 1.510	VBY 1.658	Regina	Portable	HJ5ABE 14.000	HJ5ABE 14.000	HIZ 6.340			FZS2 11.990
CJD 1.540	PKTou 2.284	Portable	VXW 5.540	HJ5ABE 14.000	HJ5ABE 14.000	HI4D 6.500			GERMANY (D)
Cape Lazo	CKB 2.284	Qibdo	CANAL ZONE (W)	HJ5ABE 14.000	HJ5ABE 14.000	ECUADOR (HCA-HCZ)			Nauen
VAC 1.510	CKU 2.284	HJ1ABC 6.010	Albrook Field	HJ5ABE 14.000	HJ5ABE 14.000	Guayaquil			DFA 19.240
Ceepeece	ONTARIO	HJ1ABJ 6.006	WTR 6.385	HJ5ABE 14.000	HJ5ABE 14.000	HC2CW 8.625			DFB 17.520
CJE 2.298	Bewmanville	HJ1ABK 6.100		HJ5ABE 14.000	HJ5ABE 14.000	HC2ET 4.600			DFC 12.980
Claydon Bay	VE9GW 11.810	HJ1ABL 6.100		HJ5ABE 14.000	HJ5ABE 14.000	HC2JSB 4.283			DFD 14.665
CZP 4.505	Kenora	HJ1ABM 6.300		HJ5ABE 14.000	HJ5ABE 14.000	HC2RL 6.659			DFF 9.810
Homalko	CFD 1.620	HJ2ABC 5.975		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			DFL 10.850
VFJ 2.290	CFD 5.660	Ibague		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			DGK 6.675
Humpback Bay	CFT 2.284	Manizales		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			DGU 9.609
CZL 2.290	Pelee Island	HJ2ABC 5.975		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			DHO 20.820
Knight Inlet	CFX 2.284	Ibague		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			DJK 12.035
CJK 1.510	Red Lake	Manizales		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			Norden
Margaret Bay	CFJ 1.620	HJ2ABC 5.975		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			DAF 4.320
CJX 2.290	CFJ 5.660	Ibague		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			DAF 8.464
Namu	CRCX 6.890	Manizales		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			DAF 12.325
CFV 2.290	PRINCE EDWARD ISLAND	HJ2ABC 5.975		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			
Ocean Falls	Borden	Ibague		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			
CGO 4.505	CJM 1.580	Manizales		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			
Prince George	Charlottetown	HJ2ABC 5.975		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			
CZO 4.585	VE9EH 6.080	Ibague		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			
Prince Rupert		Manizales		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			
CGP 5.400		HJ2ABC 5.975		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			
CZG 1.712		Ibague		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			
CZG 2.416		Manizales		HJ5ABE 14.000	HJ5ABE 14.000	HC2ZL 6.659			

SHORT WAVE STATIONS BY LOCATIONS

DAF 17.260 Zeesen	ICELAND (TFA-TFZ) Reykjavik TFJ 12.225 TFK 9.050	KENYA (VQ7-) Nairobi VQ7LO 6.060	Bandoeng PLE 18.330 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 YDAS 6.120 YDD2 1.630 YDH3 3.490 YDH4 3.310 YDH6 3.130 YDH8 1.960	YD04 3.170 YD05 2.930 YD06 2.770 YD07 2.070 YD08 1.989 YD09 1.880 Tandjongprik YDA 3.040 YDA 6.040 YDA8 1.510	Ilelle KZGH 5.795 KZGH 9.490 Manila KAX 19.980 KAY 14.980 KAZ 9.990 KKB 6.718 KKT 16.240 KTP 8.120 KZGF 5.765 KZGF 9.170
DIA 10.285 DJQ 9.560 DJB 15.200 DJC 6.020 DJD 11.779 DJE 17.760 DJG 4.580 DJI 9.675 DJJ 10.042 DJL 15.110 DJM 6.080 DJN 9.540 DJO 11.790 DJP 11.850 DJQ 15.280 DJR 15.340	INDIA (VTA-VWZ) Bombay VUB 9.565 Calcutta VUC 6.112 VUC 9.575 Kirke VWY 8.975 VWY 17.480 VWZ 8.690 VWZ 8.693 VWZ 8.700 VWZ 8.708	MACAU Macau CQN 6.073	MADAGASCAR (F) Tananarive 5.996	Tegal YDJ3 2.870	Poland (SOA-SRZ) Poznan SRI 9.490
GUATEMALA (TGA-TGZ) Guatemala City TGF 14.545 TGWA 6.000 TCXA 6.130 TG1X 9.459 TG2X 5.940	ITALY (I) Coltano IAC 4.355 IAC 6.650 IAC 12.795 Fuimicino IAF 5.415 IAF 29.820 Golfo Aranci IAG 30.604 Rome IRA 6.070 IRE 11.810 IRF 8.070 IRM 9.823 IRO 9.780 IRW 19.520 I2R0 5.550 I2R0 5.725 I2R0 6.685 I2R0 6.980 I2R0 9.630	MANCHUKUO (J) Shinkio JZA 15.680 JZB 10.960 JZC 5.830	Batavia YDA2 2.385 YDD3 1.855 YDG2 3.470 YDG3 3.150 YDG4 2.850 YDG5 2.090 YDG5 1.900 YDG7 3.300	Sumatra Medan YBG 10.430 YDU2 4.710 YDU3 5.260 YDU4 2.830	Warsaw (SOA-SRZ) Warsaw SPW 13.630
HAITI Port au Prince HH2F 14.545 HH2R 9.550 HH2S 6.070 HH2T 11.790	HAWAII (K) Honolulu KGQK 1.712 Kahuku KEQ 6.733 KIO 11.680 KKH 7.520 KKP 16.030 KRO 5.845 5.845 7.520 11.680 16.030	MEXICO (XAA-XFZ) Guadalajara XEDQ 9.520	Buitenzorg YDA3 1.640 YDH9 1.920	NEW ZEALAND (ZKA-ZMZ) Wellington ZLS 8.900 ZLT 11.050 ZLT2 7.390 ZLU 12.300	Portugal (CSA-CUZ) Lisbon CSL 6.150 CT1AA 9.608 CT1AA 15.350 CT1C 3.750 CT1CT 12.223 Paredo CT1GO 6.132
HONDURAS (HRA-HRZ) San Pedro Sula HRP1 6.356 Tegucigalpa HRN 5.375 Tela HRM 13.810	JAPAN (J) Kemikawa-Cho JYK 13.600 JYR 7.880 JYS 9.840 JYT 15.760 Nazaki JVA 18.910 JVB 18.190 JVC 16.050 JVD 15.860 JVE 15.660 JVF 15.620 JVG 14.910 JVH 14.640 JVI 13.560 JVJ 12.270 JVK 12.020 JVL 11.660 JVM 10.740 JVN 10.660 JVO 10.275 JVP 10.710 JVQ 7.470 JVR 7.390 JVS 6.990 JVT 6.750 JVU 5.790 JVW 5.730 JZD 16.910 JZE 13.020 JZF 8.500 JZG 6.338	MEXICO CITY Mexico City XBJQ 11.000 XEBI 5.980 XEBT 6.000 XECR 7.380 Tiaguana XEOK 6.130 Veracruz XEFT 6.120 XEUV 6.020	Cheribon YDA6 2.870 YDJ4 1.840	NICARAGUA (YNA-YNZ) Managua YNA 14.480	Puerto Rico San Juan WCT 13.410 WMDU 3.070 WMDU 5.405
HONGKONG (Z) Honkong ZBW 8.750	HUNGARY (HAA-HAZ) Budapest HAS3 15.370 HAT 5.400 HAT2 7.220 HAT3 8.565 HAT4 9.125	MOROCCO (CNA-CNZ) Rabat CNR 8.035 CNR 12.820	Djember YDQ2 3.390 Djocjarta YDB3 1.660 YDES 2.350 YDL4 3.410 YDL5 3.210 YDL6 2.750	NORWAY (LAA-LNZ) Jeloy LCL 6.130 LCO 13.980 LKJ1 9.540	SIAM (HSA-HSZ) Bangkok HSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.730
		NETHERLANDS (PAA-PIZ) Hilversum PCJ 15.220 PHI 11.725 PHI 17.775 Kootwijk PCK 18.400 PCM 18.600 PCV 17.830 PDK 10.410 PDV 12.050	Garoet YDH5 3.250	PARAGUAY (ZPA-ZPZ) Asuncion ZP10 6.666 ZP11 3.800	Southern Rhodesia (ZE-) Bulawayo ZEB 6.590 Salisbury ZEA 6.590
		NETHERLAND EAST INDIES (PKA-POZ; YBA-YHZ) Borneo Bandjermasin YDUS 1.850 YDV2 3.338 Celebes Macassar PNI 8.775 Menado YBZ 7.680 Java Balikpapan YCP 8.575	Madioen YDN2 1.940 YDN3 2.790 Mageland YDK4 3.270 Malang YDB6 1.570 YDQ3 3.350 YDQ4 3.230 YDQ5 2.950 YDQ6 2.810 Pekalongan YDA7 3.270 YDJ2 3.270 Semarang YDB2 2.450 YDE3 2.910 YDK2 3.190 YDK3 2.910 YDK5 2.710 YDKS 1.860 Soekaboemi YDA4 1.550 YDI2 2.110 Solo YDB5 1.595 YDE2 4.810 YDL2 4.810 YDL3 3.450 Sourabaya YDB 4.480 YDB7 1.530 YDE4 2.415 YD02 3.430 YD03 3.290	PERU (OAA-OCZ) Lima OAX4B 6.230 OAX4D 5.780 OCI 10.962 OCI 18.670 OCJ 15.625 OCO 7.820	Spain (EAA-EHZ) Madrid EAQ 9.862
			Sumatra YD02 3.290	PHILIPPINE ISLANDS (K) Cebu KZGG 5.825 KZGG 8.940	Switzerland (HBA-HBZ) Berne HB9AT 14.290 HB9B 14.236 HB9H 7.005

SHORT WAVE STATIONS BY LOCATIONS

HB9J 14.400 Geneva	GSC 9.580 GSE 11.750 GSD 11.860 GSE 15.140 GSG 17.790 GSH 21.470 GSI 15.260 GSGJ 26.100 GSK 6.110 GSL 20.368	KKL 1.575 KKQ 11.950 KKW 13.780 KKZ 13.690 KQJ 18.028 Compton KNFM 2.490 Death Valley KNLO 3.410 KNLP 3.410 KNLQ 3.410 KNLR 3.410 Devils Post Pile KNKY 2.604 Dixon	Whittier KGHY 1.712 Wilmington KOU 2.566 Yosemite KNKS 2.604 KNKU 2.604 KNKX 2.604 KBCG 2.385	Macon WQFB 2.414 IDAHO Boise KBCQ 3.300 Idaho Falls KNFB 2.458 ILLINDIS Chicago WPDB 1.712 WPDC 1.712 WPDD 1.712 WSXAA 6.080 WSXAA 11.830 WSXAA 17.780 Highland Park WPFD 2.430 Oak Park WQFL 1.712 Ottawa WQFZ 2.458 Rockford WPGD 2.458 Waukegan WQFX 1.712 Wheeling WMEO 6.615 Wilmette NMP 2.670 NMP 2.698	Storm Lake KNFO 1.682 Waterloo KNFN 1.682 KANSAS Chanute KGFZ 2.450 Coffeyville KGZP 2.450 Dodge City KNGH 2.474 Garden City KNFH 2.474 Hutchinson KGHN 2.450 Leavenworth KNFF 2.422 Manhattan WSXAK 2.050 Salina KNGV 2.422 Topeka KGZG 2.422 Wichita KGPZ 2.450 KENTUCKY Lexington WPET 1.706 Louisville WPDE 2.442 LOUISIANA Baton Rouge WPEQ 1.570 New Orleans WPEK 2.430 Shreveport KGPY 1.574 KGZL 1.712 KNGP 2.430 MAINE Portland WPHU 2.422 MARYLAND Baltimore WPFH 2.414 Beltsville WWW 5.000 WWW 10.000 WWW 15.000 MASSA-CHUSETTS Arlington WPED 1.712 Boston WEY 1.630 WPGV 1.712 WIXAL 6.040 WIXAL 11.790 WIXAL 15.250 WIXAL 21.460 WIXH 2.110 Brookline WPEJ 1.712 Fairhaven WPFN 1.712 Fitchburg WPHA 2.466 Framingham WMP 1.666
TAIWAN (J) Talhoku JIA 15.750 JIB 10.530 JIC 5.890 UNION OF SOCIALIST SOVIET REPUBLICS (R; U) Baku RIO 10.160 Irkutsk RSZ 8.770 RTZ 7.275 Khabarovsk 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 15.098 RKK 6.135 RKK 12.270 RNE 12.000 RPK 7.225 RRD 8.225 RV59 5.996 Novosibirsk RTA 6.440 Stalinsk RSB 5.375 Sverdlovsk ROI 5.490 RSN 5.440 Tachkent RAU 15.104 RIM 7.626 RPT 5.995 Tiflis RIR 5.340 RIR 10.080 UNION OF SOUTH AFRICA (ZSA-ZUZ) Capetown ZSS 18.890 Johannesburg ZTJ 6.100 Walvis Bay ZV 8.220 ZSV 12.500 UNITED KINGDOM (G; M.) Daventry GSA 6.050 GSB 9.510	Rugby GAA 20.368 GAQ 18.970 GAS 18.304 GAU 18.520 GAW 18.200 GBA 13.984 GBB 13.500 GBC 4.430 GBC 4.975 GBC 8.680 GBC 12.788 GBC 17.088 GBP 10.770 GBS 12.150 GBU 12.240 GBU 22.290 GBW 14.440 GBX 10.530 GBX 16.150 GCA 9.710 GCB 9.280 GCJ 13.415 GCP 7.920 GCS 9.020 GCU 9.950 GCW 9.790 GDB 6.790 GDS 6.905 GDW 4.820 GGRX 4.320 UNITED STATES (K; N; W) ALABAMA Birmingham WPFM 2.382 Maxwell Field PDI 6.445 Mobile NMG 2.670 WPGW 2.382 ARIZONA Phoenix KNGG 1.698 KNZJ 2.430 ARKANSAS Fort Smith KNHE 2.406 Little Rock KGHZ 2.406 CALIFORNIA Bakersfield KGPS 2.414 Berkeley KSW 1.658 Bolinas KEE 7.715 KEJ 9.010 KEL 6.860 KET 10.410 KEZ 10.400	FLORIDA Clearwater WQFK 2.466 Dry Tortugas WST 3.410 Ft. Lauderdale NMV 2.670 Gainesville WQFC 2.466 Hialeah WND 4.098 WAW 12.930 WNC 15.055 Jacksonville WPFJ 2.442 Key West WWZ 3.410 Lakeland WPFT 2.442 Miami NOM 2.670 WPFZ 2.442 W4XB 6.040 Opa Locka WMEV 2.930 WMEV 6.615 Orlando WPHM 2.442 Palm Beach WPFX 2.442 St. Petersburg NOF 2.670 WMEU 2.930 WMEU 6.615 Tampa WPHN 2.466 GEORGIA Atlanta WPDY 2.414 Augusta WQFV 2.414 Columbus WFFI 2.414 La Grange WPGM 2.414			

SHORT WAVE STATIONS BY LOCATIONS

Gloucester	MINNESOTA	WOY 8.560	WKC 10.465	WMEP 6.615	Providence
NOG 2.670	Duluth	WOY 12.840	WKL 8.940	Toledo	WPGF 1.712
Marshfield	KNFE 2.382	WOY 17.120	WKM 18.860	WRDQ 2.474	Woonsocket
WOU 2.506	Minneapolis	New Brunswick	WKO 15.970	Wilmington	WPEM 2.466
Medford	KGFB 2.430	WKJ 9.460	WKP 6.950	WPHK 1.596	SOUTH DAKOTA
WPHG 1.712	Redwood Falls	Ocean Gate	WKU 14.830	Wright Field	
Millis	KNHD 1.658	WOG 4.253	WKW 15.445	PE2 6.445	
W1XK 9.570	St. Paul	WOO 4.178	WLL 17.900	Youngstown	
Newton	WPDS 2.430	WOO 4.753	WQB 19.990	WPDG 2.458	Rapid City
WPFA 1.712	MISSOURI	WOO 8.560	WQE 18.920	Zanesville	KNGM 2.450
Northampton		WOO 12.840	WQF 17.920	WPHO 2.430	TENNESSEE
WPEU 1.666	Passaic	WOO 17.120	WQN 5.265		
Somerville	Jefferson City	WPDJ 2.414	WQN 5.595	OKLAHOMA	Elizabethton
WPEH 1.712	KIUK 1.674	Tuckerton	WQN 5.825	Ada	WPHY 2.474
W. Bridgewater	Kansas City	WCG 10.370	WQD 6.725	KNHC 2.450	Johnson City
WPEL 1.666	KGPE 2.422	Wayne	WQP 13.900	Chickasha	WPGZ 2.474
Winthrop	Napoleon	W2XE 6.120	WQV 14.800	KACF 2.450	Knoxville
NMF 2.670	WYFB 2.604	W2XE 11.830	WQY 20.100	Duncan	WFO 2.474
Woods Hole	St. Louis	W2XE 15.270	Schenectady	KNKG 2.450	Memphis
NOP 2.670	KGPC 1.706	NEW MEXICO	W2XAD 15.336	Lawton	WPEC 2.466
Worcester			W2XAF 9.530	KGHP 2.466	
WPGX 2.466			S. Schenectady	Muskogee	
MICHIGAN	MONTANA		WPGC 1.658	KNGT 2.450	TEXAS
Bay City	Glacier Nat'l Park	Albuquerque	WQX 5.290	Oklahoma City	Austin
WPGA 2.466	KNIA 2.604	KGZX 2.414	WQY 5.990	KGPH 2.450	KGHU 2.442
Cheboygan	NEBRASKA	Clovis	Syracuse	Tulsa	Beaumont
Range		KNFA 2.414	WPEA 2.382	KGPO 2.450	KG PJ 1.712
WWG 3.410		Santa Fe	Utica		Brownsville
Detroit		KGPF 2.414	WPGJ 2.414	OREGON	KGHT 2.382
WCK 2.414	Lincoln	NEW YORK	Yankers	Hood River	Brownwood
WKDT 1.630	KGZU 2.490		WPFY 2.442	KIJY 2.728	KNGW 2.458
WPDX 2.414	Narfolk	Albany	NORTH CAROLINA	Klamath Falls	Cleburne
WWN 3.410	KNGN 2.490	WPGH 2.414		KGZH 2.442	KNGE 1.712
WWR 3.410	Omaha	Auburn	Asheville	Portland	Corpus Christi
E. Lansing	KGPI 2.466	WPDN 2.382	WFS 2.458	KGPF 2.442	KGHV 2.382
WRDS 1.642	NEVADA	Binghamton	WFS 2.474	Salem	Dallas
Flint	Reno	WPGJ 2.442	Charlotte	KGZR 2.442	KVP 1.712
WPDF 2.442	KGHM 2.474	Eronx	WPDV 2.458	PENN-SYLVANIA	Denton
Fourteen Foot Shoals	NEW HAMPSHIRE	WPEF 2.450	NORTH DAKOTA	Harrisburg	KNHF 1.712
WWE 3.410		WPEE 2.450		WPSF 1.674	El Paso
Grand Rapids	Nashua	Buffalo	Fargo	Monessen	KGZM 2.414
WPEB 2.442	WPHB 2.422	NOB 2.670	KNHM 2.442	WQFF 2.482	Fort Worth
Grosse Pointe	NEW JERSEY	NOB 2.698	OHIO	New Castle	KGPR 1.712
WRDR 2.414		WMJ 2.422	Akron	WPGT 2.482	Galveston
Highland Park	Baund Brook	Huntington	WPDQ 2.458	Oil City	KNGL 1.712
WMO 2.414	W3XAL 6.100	WPGO 2.490	Cambridge	WPHZ 2.482	NOY 2.670
Huron Island	W3XL 17.788	Mineola	WPHT 1.596	Philadelphia	Houston
WVAO 3.410	W3XL 6.425	Mitchell Field	Cincinnati	WPDW 2.474	KGEB 1.712
Jackson	W3XL 17.320	WOS 6.385	WKU 1.706	WPHJ 3.410	Lubbock
WPHP 2.466	Cape May	Woz 3.423	W8XAL 6.069	W3XAU 0.860	KGZW 2.458
Lansing	NOV 2.670	WPEG 2.450	Cleveland	W3XAU 9.590	KGZE 2.482
WFDL 2.442	Freehold	WPNF 2.422	NMD 2.670	Pittsburgh	Waco
Manitou Island	WAK 2.366	Onesota	NMD 2.698	WPDU 1.712	KGZQ 1.712
WVAJ 3.410	Hackensack	WQFJ 2.414	WRBH 2.458	W8XK 6.140	Wichita Falls
Marquette	WPFK 2.430	Rochester	Columbus	W8XK 9.570	KGZI 2.458
WWM 3.410	Lawrenceville	WPR 2.422	WPD1 2.430	W8XK 11.870	UTAH
Muskegon	WKA 21.060	Rockaway Point	WPGQ 1.596	W8XK 15.210	Salt Lake City
WPF 2.442	WKF 4.253	NMY 2.670	Dayton	W8XK 17.780	KGPW 2.406
Passage Island	WKK 19.220	Rocky Point	WPDN 2.430	W8XK 21.540	VIRGINIA
WWAL 3.410	WKN 21.418	WAD 8.930	Findlay	Reading	Bolling Field
Poe Reef	WLN 18.350	WDB 6.718	WPGG 1.596	WPF 2.442	IS3 5.015
WRJ 3.410	WLA 16.270	WDG 4.535	Lancaster	WPFQ 2.474	Cape Henry
Port Huron	WMA 13.398	WDN 4.550	WQFO 2.430	Wilkes-Barre	NMN 2.670
WPGB 2.466	WOF 14.470	WDS 18.960	Lorain	WQFM 2.442	Langlely Field
Rock of Ages	WMI 14.590	WEA 10.610	WMS 2.550	RHODE ISLAND	FG7 6.645
WWAM 3.410	WNA 9.170	WEB 6.935	Mansfield	Cranston	Lynchburg
Saginaw	WNB 10.675	WEC 8.930	WQFY 2.474	WPGK 2.466	WQFH 2.450
WPE5 2.442	WOA 6.755	WEL 8.950	Massillon	E. Providence	WQFI 2.450
Sault Ste. Marie	WOB 5.850	WEL 13.435	WPHC 1.596	WPEI 1.712	Richmond
NOR 2.670	WOF 9.750	WEM 7.400	Portsmouth	Pawtucket	WPHF 2.450
NOR 2.698	WOK 10.550	WES 9.448	WPGI 2.430	WPFV 2.466	Reanoke
Selfridge Field	WON 9.870	WET 9.470	Steubenville		WQFG 2.450
VK1 6.625	WOY 4.178	WEZ 6.928	WPHD 2.458		
Stannard Rock	WOY 4.753	WIR 4.276	Suffield		
WWH 3.410		W1Y 13.870	WMEP 2.930		
		WJN 7.370			

SHORT WAVE STATIONS BY LOCATIONS

WASHINGTON Aberdeen KGZV 2.414 Bear River Camp KNFY 2.490 Bellingham KNFK 2.490 Cataract Creek KNLT 3.387 Centralia KGHW 2.414 Chinoak Pass KGHQ 2.490 Edmonds KOW 2.522 Ellenburg KNFX 2.490 Ephrata KNGZ 2.490 Everett KNFP 2.414 Ft. Lewis YTZ 4.200 Fremont KNLV 3.387 Grays Harbor NMW 2.670	Hells Crossing Camp KNFZ 2.490 Longmire KGYA 3.387 KGYB 3.387 Mt. Olympus KNDI 3.387 KNDK 3.387 KNDL 3.387 KNDM 3.387 KNDP 3.387 KNDS 3.387 KNDT 3.387 Mt. Ranier KGYC 3.387 KFVD 3.387 KGYF 3.387 KNLS 3.387 KNLX 3.387 KNLU 3.387 Mt. Vernon KNFI 2.414 North Bend KBAL 3.200 Olympia KACE 2.414 KABT 3.300 KNFG 2.490	Port Townsend NOZ 2.670 Ft. Angeles KNFC 2.490 Quilcene KBAU 3.300 Satus Pass Camp KNGA 2.490 Seattle KBAP 3.200 KGHG 2.490 KGPA 2.414 KGYI 3.387 WVD 2.604 WVD 5.995 WVD 6.618 WVD 8.620 W7XK 3.493 Shuksan Camp KNFL 2.490 Skykomish KNFU 2.490 Snaqualmie Pass KGHE 2.490 Spokane KGH5 2.414 KGH5 2.458	Tacoma KGZN 2.414 Vancouver KNGC 2.490 Walla Walla KNGD 2.490 Wenatchee KNGQ 2.490 White River WGYE 3.387 Yakima KNGB 2.490 KNGU 2.414	Kenosha WPEP 2.450 Milwaukee WPKD 2.450 URUGUAY (CVA-CXA) Montevideo CWD 5.830 CWE 6.618 CWF 8.455 CWG 11.370 CWH 13.140 VATICAN STATE (HVA-HVZ) Vatican City HVJ 5.970 HVJ 15.120 VENEZUELA (YVA-YWZ) Barquisimeto YV8RB 5.875	Caracas YV2RC 6.112 YV3RC 6.150 YV4RC 6.375 YV5RC 6.400 Maracaibo YV5RMO 5.850 Maracay YVQ 6.672 YVQ 13.337 YVR 9.168 YVR 18.296 YV12RM 6.300 San Cristobal YV10RSC 5.720 Valencia YV6RV 6.520 VIRGIN ISLANDS (W) St. Thomas WTDV 4.295 St. Croix WTDW 4.295 St. John WTDX 4.295
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SHORT WAVE STATIONS BY CALLS

CEC 5.828	CGZ 2.452	CWG 11.370	DHDL 13.040	FNSK 13.190	GDW 4.820	HI4D 6.500
CEC 7.740	CJA3 17.710	CWH 13.140	DHEY 4.413	FNSK 13.210	GLRZ 4.415	HJ2A 5.825
CEC 8.710	CJA6 6.760	CZA 2.980	DHEY 8.830	FNSM 4.413	GMBJ 4.413	HJ3A 7.685
CEC 10.670	CJD 1.510	CZA 4.785	DHEY 13.040	FNSM 8.830	GMBJ 12.955	HJ3A 8.790
CEC 15.860	CJD 1.540	CZA 17.310	DHEY 16.460	FNSM 13.395	GSA 6.050	HJ43 12.830
CEC 19.680	CJE 2.290	CZB 1.620	DHJZ 4.413	FNTQ 4.413	GSB 9.510	HJ7A 5.400
CFCA2 4.465	CJK 1.510	CZG 1.712	DHJZ 8.830	FNTQ 8.830	GSC 9.580	HJ8 14.930
CFC 1.596	CJM 1.580	CZG 2.416	DHJZ 13.040	FNTQ 13.305	GSD 11.750	HJN 6.080
CFC 1.668	CJRO 1.510	CZG 6.425	DHO 20.020	FZR 16.200	GE 11.860	HJP 9.465
CFD 1.620	CJRX 16.720	CZJ 1.596	DHRL 4.413	FZS 18.342	GSF 15.140	HJY 9.930
CFD 5.660	CJU 3.070	CZJ 1.668	DHRL 8.830	FZS2 11.990	GG 17.790	HJY 18.444
CFJ 1.620	CJU 3.452	CZL 2.290	DHRL 13.040	GAA 20.368	GSH 21.470	HJ1ABB 6.447
CFJ 5.660	CJW 2.416	CZO 4.595	DHTY 4.413	GAQ 18.970	GS 15.268	HJ2AB 7.280
CFL 1.620	CJX 2.290	CZP 4.505	DHTY 8.830	GAU 18.304	GSJ 21.530	HJ1ABE 6.115
CFM 1.620	CJZ 2.452	CZQ 5.400	DHTY 13.040	GAU 18.620	GSK 26.100	HJ1ABG 6.042
CFQ 3.040	CKB 2.284	CZV 3.300	DHTY 16.765	GAW 18.200	GSL 6.110	HJ1ABH 6.300
CFQ 7.550	CKP 2.284	CZV 4.840	DIQ 10.285	GBA 13.984	GGRX 4.320	HJ1ABJ 6.006
CFT 2.284	CKS 3.840	CZY 1.620	DJA 9.560	GBB 13.500	HAS3 15.376	HJ2BA 6.170
CFU 4.755	CKS 7.550	CZZ 1.620	DJB 15.200	GBC 4.430	HAT 5.400	HJ2ABC 5.975
CFU 5.660	CKU 2.284	DAF 4.320	DJC 6.020	GBC 4.975	HAT2 7.220	HJ2ABD 5.980
CFU 6.720	CMB 5.780	DAF 8.464	DJD 11.770	GBC 8.680	HAT3 8.565	HJ3ABD 7.390
CFU 13.200	CNR 8.035	DAF 12.325	DJE 17.760	GBC 12.780	HAT4 9.125	HJ3ABF 6.200
CFV 2.290	CNR 12.820	DAF 12.745	DJG 4.580	GBC 12.780	HB 18.950	HJ1ABH 6.012
CFW 2.290	COCD 6.130	DAF 17.260	DJI 9.675	GBP 10.770	HBH 18.450	HJ1ABA11.720
CFX 2.284	COCH 9.428	DBBR 4.413	DJJ 10.042	GBS 12.150	HBJ 14.535	HJ1ABC 6.230
CGA 18.180	COCO 6.010	DBBR 8.830	DJK 12.035	GBU 12.240	HBL 9.595	HJ1ABE 5.990
CGA2 13.745	CO9GC 6.150	DBBR 13.040	DJM 6.080	GBU 22.290	HBP 7.797	HJ1ABL 6.100
CGA4 9.332	CO9JQ 8.665	DDCP 4.413	DJN 9.540	GBW 14.440	HBO 12.030	HJ5AB 6.490
CGA6 6.890	CO3WR 11.880	DDCP 8.830	DJO 11.790	GBX 10.530	HB9AT 14.280	HJ5ABE 14.000
CGA7 6.880	CP5 6.080	DDCP 13.040	DJQ 15.280	GBX 16.150	HB9B 14.236	HKE 7.090
CGA9 4.348	CP6 9.120	DDFF 4.413	DJR 15.340	GBZW 4.413	HB9H 7.095	HPK 10.290
CGD 3.340	CP7 15.380	DDFF 8.830	DOAH 4.413	GBZW 8.830	HB9J 14.400	HPF 14.545
CGE 3.040	CQN 6.973	DDFF 13.040	DOAH 8.830	GBZW 13.320	HCBJ 8.214	HP5B 6.030
CGE 7.060	CRXC 6.090	DDFT 4.413	DOAH 13.040	GCA 9.710	HCK 5.815	HP5J 9.590
CGM 3.152	CR6AA 7.175	DDFT 8.830	DOAI 4.413	GCB 9.280	HC2CW 8.625	HRM 13.810
CGM 3.340	CSL 6.150	DDFT 13.040	DOAI 8.830	GCJ 13.415	HC2ET 4.600	HRP1 6.356
CGO 4.596	CT1AA 9.600	DFB 17.520	DOAI 13.040	GCS 9.920	HJ2J5B 7.770	HJ 8.020
CGP 5.400	CT1AA 15.350	DGK 6.675	DOAI 16.600	GCU 9.950	HC2RL 6.659	HSP 7.968
CGQ 1.596	CT1CT 3.750	DGU 9.609	EAQ 9.862	GCW 9.790	HIC 6.800	HSP 8.396
CGQ 1.668	CT1GO 6.132	DHAO 4.413	FG7 6.645	GDB 4.320	HIL 10.040	HSP 17.740
CGQ 4.865	CT2AJ 4.000	DHAO 8.830	FNSK 4.390	GDB 6.790	HIL 6.518	HVJ 5.970
CGV 1.596	CWD 5.830	DHAO 13.040	FNSK 4.410	GDJL 4.430	HIX 5.980	HVJ 15.120
CGV 1.668	CWE 6.110	DHDL [4.413]	FNSK 8.810	GDJL 13.320	HIZ 6.340	IAC [4.355]
CGY 3.152	CWF 8.455	DHDL 8.830	FNSK 8.830	GDS 6.095	H1IA 6.185	IAC 6.650

SHORT WAVE STATIONS BY CALLS

IAC	12.795	KBCB	3.385	KGYI	3.387	KILU	1.622	KNGT	2.450	NOP	2.670	TGF	14.545
IAC	17.770	KBCD	3.445	KGZA	2.414	KILU	2.159	KNGU	2.414	NOR	2.670	TGWA	6.000
IAF	5.415	KBCE	3.445	KGZB	1.712	KILY	2.994	KNGV	2.422	NOR	2.698	TGXA	6.130
IAF	29.820	KBCF	3.445	KGZC	2.422	KIMA	2.632	KNGQ	2.490	NOU	2.670	TGX1	9.450
IAG	30.604	KBCG	3.385	KGZD	2.490	KINT	2.726	KNGR	2.490	NOV	2.670	TG2X	5.940
ICEJ	13.050	KBCH	3.385	KGZE	2.482	KIO	11.680	KNGZ	2.490	NOY	2.670	TIEP	6.710
IRA	6.070	KBCJ	3.155	KGZF	2.450	KIOC	2.632	KNHB	2.382	NOZ	2.670	TIEP	13.415
IRE	11.810	KBCQ	3.300	KGZG	2.466	KIOD	2.632	KNHC	2.450	OAX4D	5.870	TIGPH	5.820
IRF	8.070	KBK	6.718	KGZH	2.442	KIOG	1.622	KNHD	1.658	OAX4G	6.230	TIN	14.545
IRG	14.740	KDH	5.338	KGZI	2.458	KIOH	2.632	KNHE	2.406	OCI	18.770	TIU	14.545
IRJ	13.105	KDK	2.538	KGZJ	2.430	KIOI	2.632	KNHF	1.712	OER2	6.072	TIPG	6.550
IRM	9.823	KDV	2.538	KGZL	1.712	KION	2.616	KNHM	2.442	OPL	20.040	TIR	7.685
IRO	9.780	KDX	2.986	KGZM	2.414	KIUJ	1.674	KNIA	2.604	OPM	10.135	TIRCC	6.550
IRW	19.520	KDY	2.994	KGZN	2.414	KIUQ	2.616	KNKG	3.410	ORG	19.200	TYA	12.215
IS3	5.015	KEE	7.715	KGZO	2.414	KIUZ	3.093	KNKS	2.604	ORK	10.330	VAC	1.510
I2RO	5.550	KEJ	9.010	KGZP	2.450	KKH	7.520	KNKU	2.604	OXY	6.060	VAF	1.510
I2RO	5.725	KEL	6.860	KGZQ	1.712	KKL	15.475	KNKX	2.604	OXY	9.490	VBQ	2.350
I2RO	6.085	KEQ	3.733	KGZR	2.442	KKP	16.030	KNKY	2.604	OXY	15.300	VBY	1.540
I2RO	6.980	KES	9.480	KGZT	1.674	KKQ	11.950	KNLO	3.410	PCJ	15.220	VBY	1.650
I2RO	9.630	KEZ	10.400	KGZU	2.490	KKW	13.780	KNLP	3.410	PCK	18.400	VDO	4.436
JDX	15.510	KFF	2.566	KGZV	2.414	KKZ	13.690	KNLQ	3.410	PCM	18.600	VDO	4.865
JDY	9.920	KGHA	2.496	KGZW	2.458	KLA	5.566	KNLR	3.410	PCV	17.830	VE9AS	6.425
JDZ	5.710	KGHB	2.490	KGZX	2.414	KLB	2.512	KNLS	3.387	PDK	10.410	VE9BJ	6.090
JIA	15.750	KGHC	2.490	KGZY	1.712	KLC	2.512	KNLT	3.387	PDK	12.050	VE9CA	6.030
JIB	10.530	KGHD	2.490	KHP	1.622	KLD	2.566	KNLU	3.387	PD1	6.445	VE9CS	6.070
JIC	5.890	KGHE	2.490	KHV	2.566	KLE	2.512	KNLV	3.387	PE2	6.445	VE9DN	6.005
JVA	18.910	KGHG	2.474	KHW	2.912	KLCK	2.738	KNLX	3.387	PHI	11.725	VE9DN	9.555
JVB	18.190	KGHK	1.674	KHZ	2.912	KLH	5.506	KOU	2.566	PHI	17.775	VE9DR	6.005
JVC	16.050	KGHM	2.474	KIAP	3.093	KMYA	2.304	KOW	2.522	PLE	18.830	VE9DR	9.580
JVD	15.860	KGHN	2.450	KIAW	3.093	KMYA	4.610	KQJ	18.020	PLF	17.850	VE9EH	6.080
JVE	15.660	KGHO	1.662	KIAY	3.093	KNBZ	2.994	KRO	5.845	PLG	15.950	VE9GV	11.810
JVF	15.620	KGHP	2.466	KIBA	3.093	KNDI	3.387	KSW	1.658	PLP	11.000	VFJ	2.290
JVG	14.911	KGHQ	2.490	KIBZ	3.265	KNDK	3.387	KSW	2.422	PLV	9.415	VIZ3	11.495
JVH	14.640	KGHR	2.490	KICE	3.265	KNDL	3.387	KTO	16.240	PMA	19.345	VK1	6.425
JVI	13.560	KGHS	2.458	KICG	3.265	KNDM	3.387	KTP	8.120	PMB	20.606	VK2ME	9.585
JVJ	12.270	KGHT	2.382	KICI	3.093	KNDP	3.387	KVP	1.712	PMC	18.135	VK3LR	5.678
JVK	12.020	KGHU	2.442	KIED	3.265	KNDS	3.387	KWN	21.060	PMY	10.260	VK3LR	9.580
JVL	11.660	KGHV	2.382	KIEE	1.622	KNOT	3.387	KWO	15.415	PMN	5.140	VK3ME	9.503
JVM	10.740	KGHW	2.414	KIED	2.150	KNEC	1.646	KWU	15.355	PNI	8.775	VLJ	9.750
JVN	10.660	KGHX	2.430	KIEJ	2.994	KNEC	2.090	KWV	10.840	PPQ	11.670	VLK	8.050
JVO	10.375	KGHY	1.712	KIEO	2.150	KNEC	2.190	KWX	7.610	PPU	19.270	VLK	10.520
JVP	7.510	KGHZ	2.406	KIFI	1.622	KNEC	2.838	KWY	7.565	PRADO	6.620	VLZ	7.960
JVQ	7.470	KGI	2.632	KIFI	2.150	KNED	1.606	KZGF	5.765	PRF5	9.505	VLZ	7.980
JVR	7.390	KGJX	1.712	KIFT	2.150	KNED	2.020	KZGF	9.170	PSE	14.935	VPD	13.075
JVS	6.990	KGM	2.512	KIGA	1.606	KNED	2.102	KZGG	5.825	PSF	14.620	VQ3MR	7.090
JVT	6.750	KGQZ	2.466	KIGA	2.102	KNEF	2.830	KZGG	8.940	PSH	10.290	VQJMJ	4.430
JVV	5.790	KGPA	2.414	KIGW	2.102	KNFA	2.414	KZGH	5.795	PSK	8.180	VQJMJ	8.830
JVU	5.730	KGPB	2.430	KIHH	2.190	KNFB	2.458	KZGH	9.490	RAU	15.104	VQJQ	4.430
JYK	13.600	KGPC	1.706	KIJJ	2.994	KNFE	2.382	LCL	6.130	RIF	7.260	VQJP	8.830
JYR	7.880	KGPD	2.466	KIJJ	3.190	KNFF	2.422	LCO	13.980	RIE	7.626	VQ7LO	6.060
JYS	9.840	KGPE	2.422	KIJK	2.994	KNFG	2.490	LKJ1	9.540	RIO	10.160	VUB	9.565
JYT	15.760	KGPF	2.414	KIJK	3.190	KNFH	2.474	LQA	9.600	RIR	4.040	VUC	6.112
JZA	15.680	KGPG	2.422	KIIL	2.994	KNFI	2.414	LSF	19.600	RIR	10.080	VUC	9.575
JZB	10.960	KGPH	2.450	KIIL	3.190	KNFJ	1.712	LSG	19.900	RKF	4.875	VWY	8.975
JZC	5.830	KGPI	2.466	KIIM	2.994	KNFK	2.490	LSL	9.990	RKF	6.870	VWY	17.480
JZD	16.910	KGPJ	1.712	KIIM	3.190	KNFL	2.490	LSM	19.120	RKF	6.880	VWZ	8.690
JZE	13.020	KGPK	2.466	KIIN	2.994	KNFM	2.490	LSM	21.128	RKF	6.900	VWZ	8.693
JZF	8.500	KGPL	1.712	KIIN	3.190	KNFN	1.682	LSN	9.895	RKF	9.750	VWZ	8.700
JZG	6.330	KGPM	2.466	KIIO	2.994	KNFO	1.682	LSN	14.480	RKF	12.500	VWZ	8.708
KACC	1.682	KGPN	2.466	KIHO	3.190	KNFP	2.414	LSN	21.020	RKI	7.520	VXU	5.540
KACD	1.682	KGPO	2.450	KIHP	3.093	KNFR	2.490	LSN2	9.890	RKI	15.040	VXV	5.540
KACE	2.414	KGPP	2.442	KNIQ	2.150	KNFS	2.490	LSR	18.958	RKI	15.090	VXW	5.540
KACF	2.450	KGPO	1.712	KNIW	2.726	KNFU	2.490	LSX	10.350	RKK	6.135	VXX	5.405
KAEB	2.616	KGPR	1.712	KNIY	2.726	KNFX	2.490	LSY3	18.115	RKK	12.270	VYP	1.596
KAEB	3.265	KGPS	2.414	KNIY	2.726	KNFY	2.490	NMC	2.670	RNI	12.000	VYP	1.668
KAED	2.616	KGPW	2.406	KIJB	2.994	KNFZ	2.490	NMD	2.670	ROE	5.490	VYR	1.712
KAED	3.093	KGPX	2.442	KIJJ	1.622	KNGA	2.490	NMD	2.698	RPK	7.225	VYV	2.416
KAEF	2.616	KGPY	1.574	KJK	1.622	KNGB	2.490	NMF	2.670	RPT	5.595	VYZ	2.212
KAEF	2.994	KGZP	2.450	KIJO	1.622	KNGC	2.490	NMG	2.670	RRD	8.225	WAD	8.930
KAX	19.980	KGQ	2.986	KIJP	2.986	KNGD	2.490	NMN	2.670	RSB	5.375	WAKA	2.490
KAY	14.980	KGX	2.632	KIJR	2.986	KNGE	1.712	NMP	2.670	RSN	5.440	WAKB	2.466
KAZ	9.990	KGXU	1.622	KIJS	1.622	KNGF	2.422	NMP	2.698	RSZ	8.770	WAW	12.930
KBA	3.385	KGXW	1.606	KIJU	2.986	KNGG	1.698	NMV	2.670	RTA	6.440	WCG	10.370
KBAD	3.410	KGYA	3.387	KIJV	1.622	KNGH	2.474	NMW	2.670	RTZ	7.275	WCK	2.434
KBAI	2.304	KGYB	3.387	KIJW	2.632	KNGJ	2.490	NMY	2.670	RV15	4.273	WCT	13.410
KBAL	3.200	KGYC	3.387	KIJX	2.632	KN GK	2.450	NOB	2.670	RV59	5.996	WDB	6.718
KBAM	3.445	KGYD	3.387	KIJY	2.728	KNGL	1.712	NOB	2.698	SPW	13.630	WDDQ	2.738
KBAP	2.200	KGYE	3.387	KIJZ	2.728	KNGM	2.450	NOF	2.670	SRI	9.490	WDFL	2.738
KBAT	3.300	KGYF	3.387	KIKL	6.615	KNGN	2.490	NOJ	2.670	SUV	10.055	WDD	4.535
KBAU	3.300	KGYG	3.387	KIKN	3.093	KNGO	2.450	NOJ	2.670	SUZ	13.810	WDN	4.550
KBCA	3.385	KGYH	3.387	KIKY	3.265	KNGP	2.430	NOM	2.670	TFK	9.050	WDS	18.900

SHORT WAVE STATIONS BY CALLS

WEA	10.610	WMDZ	2.442	WPDP	2.474	WPGO	2.490	WTDV	4.295	XBJQ	11.000	YDK6	1.860
WEB	6.935	WMEF	1.606	WPDR	2.422	WPGP	2.442	WTDW	4.295	XEBI	5.980	YDL2	4.810
WEC	8.930	WMEF	2.020	WPDS	2.430	WPGQ	1.596	WTDX	4.295	XEBT	6.000	YDL3	3.450
WEL	8.950	WMEF	2.102	WPDT	2.490	WPGS	2.490	WTR	6.385	XECR	7.330	YDL4	3.410
WEL	13.435	WMEF	2.768	WPDU	1.712	WPGT	2.482	WVD	2.604	XEDQ	9.520	YDL5	3.210
WEM	7.400	WMEP	2.930	WPDV	2.458	WPGV	1.712	WVD	5.995	XEFT	6.120	YDL6	2.750
WES	9.448	WMEP	6.615	WPDW	2.422	WPGW	2.382	WVD	6.618	XEKO	6.130	YDM2	3.220
WET	9.470	WMEQ	6.615	WPDX	2.414	WPGX	2.466	WVAD	4.988	XEUB	6.020	YDM2	1.940
WEY	1.630	WMES	2.550	WPDY	2.414	WPGZ	2.474	WVAJ	3.410	XGB	11.140	YDN3	2.790
WEZ	6.928	WMEU	2.930	WPDZ	2.490	WPHA	2.466	WVAL	3.410	XGBD	9.580	YDO2	3.430
WHER	2.102	WMEU	6.615	WPEA	2.382	WPHB	2.422	WVAM	3.410	XGK	18.690	YDO3	3.290
WHER	1.606	WMEV	2.930	WPEB	2.442	WPHC	1.596	WVAO	3.410	XGL	7.950	YDO4	3.180
WIED	1.566	WMEV	6.615	WPEC	2.466	WPHD	2.458	WVE	3.410	XGN	16.380	YDO5	2.930
WIED	2.390	WMF	14.470	WPEE	1.712	WPHF	1.634	WVG	3.410	XGO	7.575	YDO6	2.770
WIEG	2.150	WMLJ	2.422	WPEF	2.450	WPHF	2.450	WVH	3.410	XGOX	6.000	YDO7	2.070
WIEH	1.622	WMN	14.590	WPEF	2.450	WPHG	1.712	WVHJ	3.410	XGOX	9.500	YDO8	1.980
WIEK	1.646	WMN	2.414	WPEG	2.450	WPHI	2.490	WVM	3.410	XGOX	11.900	YDO9	1.880
WIEK	2.190	WMP	1.666	WPEH	1.712	WPHJ	2.490	WVN	3.410	XGOX	17.800	YDO2	3.390
WIEL	1.646	WNA	9.170	WPEI	1.712	WPHK	1.596	WVR	3.410	XGW	10.420	YDO3	3.350
WIEL	2.190	WNB	10.675	WPEJ	1.712	WPHM	2.442	WVZ	3.410	YBG	10.430	YDO4	3.230
WIEO	1.606	WNC	15.055	WPEK	2.430	WPHN	2.466	WXA	8.050	YBZ	7.680	YDO5	2.950
WIEO	2.020	WND	4.098	WPEL	1.666	WPHO	2.430	WXH	2.604	YCP	8.575	YDO6	4.710
WIEO	2.102	WNEI	1.622	WPEM	2.466	WPHP	2.466	WXH	6.662	YDA	3.040	YDU2	4.810
WIEO	2.760	WNEI	2.150	WPEP	2.450	WPHQ	2.490	WYBF	2.604	YDA	6.040	YDU3	5.260
WIEW	1.606	WNER	2.060	WPEQ	1.570	WPHS	1.634	W1XAL	6.040	YDA2	2.385	YDU4	2.830
WIEW	2.102	WNFG	2.538	WPEE	2.442	WPHU	1.634	W1XAL	11.790	YD3	1.640	YDU5	1.820
WIEX	1.566	WNFJ	2.986	WPET	1.706	WPHY	2.474	W1XAL	15.250	YDA4	1.550	YDV2	3.330
WIEX	1.606	WNFP	2.422	WPEV	1.666	WPHZ	2.482	W1XAL	21.460	YDA5	5.120	YNA8	14.480
WIEX	2.102	WOA	6.755	WPEW	1.666	WPSP	1.674	W1XH	2.110	YDA6	2.870	YNLF	6.714
WIEX	2.390	WOB	5.850	WPFA	1.712	WQB	17.940	W1XK	9.570	YD7	3.270	YNJGG	6.450
WIFI	2.738	WOF	9.750	WPFC	2.442	WQE	18.920	W2XAD	15.330	YD8	1.510	YVQ	6.672
WIR	4.276	WOFW	2.738	WPFD	2.430	WQF	17.920	W2XAF	9.530	YB8	4.470	YVQ	13.337
WIV	13.870	WOG	4.253	WFFE	2.442	WQFA	2.466	W2XBJ	4.550	YD2	2.450	YVR	9.168
WJER	1.606	WOK	10.550	WPGF	2.442	WQFB	2.414	W2XBJ	10.370	YD3	1.660	YVR	18.296
WJER	2.102	WON	9.870	WPFH	2.414	WQFC	2.466	W2XBJ	13.900	YD4	1.615	YV2RC	6.112
WJN	7.370	WOO	4.178	WPFJ	2.414	WQFE	1.634	W2XBJ	17.940	YD5	1.595	YV3RC	6.150
WKA	21.060	WOO	4.753	WPFK	2.430	WQFG	2.450	W2XE	6.120	YD6	1.570	YV3RC	9.510
WKC	10.465	WOO	8.560	WPFM	2.382	WQFH	2.450	W2XE	11.830	YD7	1.530	YV4RC	6.375
WKDL	3.070	WOU	12.840	WPFN	1.712	WQFI	2.450	W2XE	15.270	YD2	1.630	YV5RMO5	8.550
WKDL	5.405	WOU	17.120	WPF0	2.474	WQFJ	2.414	W3XAL	6.100	YD3	1.585	YV6RV	6.520
WKDT	1.630	WOU	2.506	WPF1	2.490	WQFK	2.466	W3XAL	17.780	YD2	4.810	YV10RSC5	7.200
WKDU	1.786	WOX	2.590	WPF2	2.474	WQFL	2.442	W3XAU	6.060	YD3	2.910	YV12RM	6.300
WKEM	1.622	WOY	4.178	WPF5	2.458	WQFM	2.442	W3XAU	9.590	YD4	2.415	ZBW	8.750
WKEM	2.150	WOY	4.753	WPF5	2.474	WQFO	2.430	W3XL	6.425	YD5	2.350	ZEA	6.590
WKF	4.253	WOY	8.560	WPF7	2.442	WQFQ	2.442	W3XL	17.310	YD2	3.470	ZEB	6.590
WKF	19.220	WOY	12.840	WPFU	2.422	WQFT	1.596	W4XB	6.040	YD3	3.150	ZFA	5.025
WKJ	9.460	WOY	17.120	WPFU	2.422	WQFT	1.692	W7XK	3.493	YD4	2.850	ZFB	10.055
WKK	21.410	WOZ	3.423	WPFV	2.466	WQFV	2.414	W8XA	1.682	YD5	2.090	ZFD	10.335
WKL	8.940	W09	6.385	WPFX	2.442	WQFW	1.634	W8XAL	6.060	YD6	1.900	ZFO	5.300
WKM	18.860	WPDA	2.414	WPFY	2.442	WQFY	2.474	W8XK	6.140	YD7	3.300	ZFS	4.512
WKN	19.820	WPDB	1.712	WPFZ	2.442	WQFZ	2.458	W8XK	9.570	YD3	3.490	ZGZ	6.125
WKO	15.970	WPDC	1.712	WPGA	2.466	WQN	5.263	W8XK	11.870	UDH4	3.310	ZHI	6.060
WKP	6.950	WPDD	1.712	WPGB	2.466	WQN	5.505	W8XK	15.210	UDH5	3.250	ZHJ	6.080
WKU	14.830	WPDE	2.442	WPGC	1.658	WQN	5.825	W8XK	17.789	YDH6	3.130	ZLR	7.390
WKW	15.445	WPDF	2.442	WPGD	2.458	WQO	6.725	W8XK	21.540	YDH7	1.920	ZLS	8.900
WLA	18.350	WPDG	2.458	WPGF	1.712	WQP	13.900	W9XAA	6.080	YDH9	1.920	ZLT	10.990
WLEB	1.646	WPDH	2.442	WPGG	1.596	WQV	14.800	W9XAA	11.830	YD12	2.110	ZSS	19.890
WLEZ	2.150	WPDJ	2.430	WPGH	2.414	WQY	20.100	W9XAA	17.789	YD3	3.270	ZSV	8.220
WLQ	2.738	WPDJ	2.414	WPGI	2.430	WRBH	2.458	W9XAK	2.050	YD3	2.870	ZSV	8.220
WLK	16.270	WPDK	2.450	WPGJ	2.414	WRDQ	2.474	W9XBS	6.425	YD4	1.840	ZSV	12.500
WLL	17.900	WPDL	2.442	WPGK	2.466	WRDR	2.414	W9XBU	1.634	YD2	3.190	ZTJ	6.123
WMA	13.390	WPDM	2.430	WPLG	2.442	WRDS	1.642	W9XF	6.100	YD3	3.210	ZP10	6.666
WMDU	3.070	WPDN	2.382	WPGM	2.414	WRJ	3.410	W9XF	6.425	YD4	2.970	ZP11	3.800
WMDU	5.405	WPDO	2.458	WPGN	2.490	WST	3.410	W9XQ	6.425	YD5	2.710	ZP11	3.800

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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

All times are given in Eastern Standard. Abbreviations: * Daily. †Daily except Sunday. ‡ Daily except Saturday and Sunday. Su., Sunday; M., Monday; Tu., Tuesday; W., Wednesday; Th., Thursday; F., Friday; Sa., Saturday. To prevent confusion, the 24-hour clock is used. Thus, 1:00 p.m. is 13:00; 11:00 p.m. is 23:00; midnight is either 24:00 or 00:00.

540 kilocycles (555.2)

CJRM ak 1000 F

Moose Jaw, Sask.—Su. 1:00-00:30; †9:30-1:00

550 kilocycles (545.1)

CFNB ak 500 F (1)
 KFBU ae 500 2 (1)
 KFYZ ae 1000 N (5)
 KOAC ak 1000
 KSD ak 1000 2R
 KTSA ak 1000 C (5)
 WDEB ae 500 D
 WGR ck 1000 C
 WKRC ak 1000 C
 WSWA ak 500 D

Fredericton, N. B.—Su. 10:00-11:00; 13:00-23:30; †7:10-23:30
 St. Louis, Mo.—Su. 9:30-14:00; 16:30-17:30; 22:15-23:15; †8:00-9:00; 10:30-10:45. †13:15-13:45; 16:00-16:45; 23:00-00:00
 Bismarck, N. D.
 Corvallis, Ore.—†12:00-00:00
 St. Louis, Mo.—Su. 14:00-16:30; 17:30-22:15. †9:00-10:15; 10:30-13:15; 13:45-16:00; 16:45-21:00; 23:00-2:00
 San Antonio, Texas—Su. 8:30-1:00. †7:30-1:00
 Waterbury, Vt.—Su. 10:45-12:00. †7:00-17:00
 Buffalo, N. Y.—Su. 9:00-1:00. †7:00-1:00
 Cincinnati, Ohio—†7:00-1:00
 Harrisonburg, Va.—Su. 10:30-ss. †7:00-ss

560 kilocycles (535.4)

KFDM ak 500 (1)
 KLZ ae 1000 C
 KFSD ak 1000
 KWTO ak 5000 D
 WFIL ak 1000 B
 WIND ak 1000 (5)
 WNOX ak 1000 C (2)
 WOAM ae 1000 C
 XEAO ak 250 (15)
 XEFC ak 100

Beaumont, Texas
 Denver, Colo.—Su. 9:45-2:00. †8:30-2:00
 San Francisco—Su. 11:30-4:00. †10:00-4:00
 Springfield, Mo.—Su. 8:00-18:45. †7:00-18:45
 Philadelphia, Pa.—Su. 8:00-1:00. †7:00-1:00
 Gary, Ind.—Su. 9:00-1:00. †8:00-1:00
 Knoxville, Tenn.—Su. 8:30-00:30. †7:45-00:30
 Miami, Fla.—Su. 8:00-00:00. †7:00-00:00
 Mexicali, L. C.
 Merida, Yuc.

570 kilocycles (526.0)

KGKO ak 250 C (1)
 KMTR ak 1000
 KVI ak 1000 C
 WKBN ae 500 1C
 WMAC ak 500
 WNAX ak 1000 C (5)
 WOSU ak 750 1 (1)
 WSYR ak 250 BX
 WWNC ak 1000 N

Wichita Falls, Tex.—Su. 9:00-00:30. †8:30-00:30
 Hollywood, Calif.
 Tacoma, Wash.—Su. 11:00-3:00. †9:00-3:00
 Youngstown, Ohio—Su. 9:00-00:00. †7:30-9:00; 11:00-13:00
 13:00-20:00. M. 22:00-24:00; Tu. 20:00-24:00; Th. 20:00-24:00; F. 13:00-15:00; Sa. 9:00-11:00
 New York, N. Y.—Su. 9:00-2:00. †7:00-1:00. Sa. 7:00-2:00
 Yankton, S. D.—Su. 9:00-1:00. †7:00-1:00
 Columbus, Ohio—†9:00-11:00; M. 13:00-16:00; 20:00-22:00; Tu. 13:00-16:00. W. 13:00-16:00; 20:00-23:30. Th. 13:00-16:00. F. 19:00-23:30. Sa. 13:00-23:00
 Syracuse, N. Y.—Su. 8:00-24:00. †7:00-1:00
 Asheville, N. C.—Su. 8:00-1:00. †7:30-1:00

580 kilocycles (516.9)

CFPR z 50
 CHRC ak 100 F
 CKCL ae 100 F
 CKUA ak 500
 KMJ ak 1000 C
 KSAC ak 500 2 (1)
 WCHS ak 500 (1)
 WDBO ae 1000 C
 WIBW an 1000 C2 (5)
 WTAG ae 500 R

Prince Rupert, B. C.
 Quebec, Que.—Su. 12:00-23:00. †8:30-14:00; 16:30-23:00
 Toronto, Ont.
 Edmonton, Alta.
 Fresno, Calif.—Su. 11:30-2:00. †10:00-3:00
 Manhattan, Kans.—†10:30-11:30; 13:30-15:00; 17:30-18:30. Sa. 10:30-11:30; 13:30-15:30
 Charleston, W. Va.
 Orlando, Fla.—Su. 8:00-24:00; †7:00-24:00
 Topeka, Kans.—Su. 9:00-1:00. †6:30-10:30; 11:30-13:30; 15:00-16:30; 18:30-1:00
 Worcester, Mass.—Su. 10:00-00:00. †07:45-01:00

590 kilocycles (508.2)

KHO ak 1000 N (2.5)
 WEI ak 1000 R
 WKZO ae 1000 D
 WOW ae 5000 R
 XEPN ak 50000 R

Spokane, Wash.
 Boston, Mass.—Su. 09:00-00:00. †07:00-01:00
 Kalamazoo, Mich.—Su. 09:00-18:00. †07:00-18:00
 Omaha, Neb.
 Piedras Negras—*20:00-02:00. †07:00-10:00

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

600 kilocycles (499.7)

CFCF	ae	400	FN	Montreal, Que.—Su. 12:30-23:00. †08:00-00:00
CJOR	ak	500	.....	Vancouver, B. C.—.....
CMW	ak	1000	.....	Havana, Cuba—.....
CRCW	ak	500	F (1)	Windsor, Ont.—16:30-23:30
FON	z	250	609	St. Pierre, Miquelon—.....
KFSD	ae	1000	N	San Diego, Calif.—Su. 11:30-03:00. †10:00-03:00
WCAC	ak	500	2	Storrs, Conn.—.....
WCAO	ae	500	C (1)	Baltimore, Md.—Su. 09:00-00:00. †07:00-00:00
WICC	ae	500	2 C (1)	Bridgeport, Conn.—.....
WMT	ak	1000	B (2.5)	Cedar Rapids, Iowa—Su. 08:00-01:00. †07:00-01:00
WREC	ak	1000	C (2.5)	Memphis, Tenn.—†08:00-01:00

610 kilocycles (491.5)

KPRC	ck	1000	C (5)	San Francisco, Calif.—Su. 11:00-03:00. †09:00-03:00
WDAF	ak	1000	R (5)	Kansas City, Mo.—Su. 9:00-00:00. †7:30-1:00
WIP	ae	1000	.....	Philadelphia, Pa.—Su. 8:00-1:00. †7:00-1:00
WJAY	ae	500	D	Cleveland, Ohio—Su. 8:00-17:45. †6:00-17:00
XFX	ak	1000	.....	Mexico City, D. F.—.....

620 kilocycles (483.6)

KGW	ak	1000	N (5)	Portland, Ore.—.....
KTAR	ae	1000	N	Phoenix, Ariz.—Su. 8:00-1:15. †9:00-1:15
WFLA	ae	1000	Na (5)	Clearwater, Fla.—Su. 8:00-00:00. †7:00-00:00
WHJB	ak	250	D	Greensburg, Pa.—Su. 9:00-17:15. Mon., Thur., 7:00-17:15
WLBZ	ak	500	C (1)	Bangor, Maine—Su. 8:45-00:00. †8:00-00:00
WSUN	ae	1000	Na (5)	St. Petersburg, Fla.—Tu., Th., Sa., 7:30-1:00
WTMJ	ae	1000	N (5)	Milwaukee, Wis.—.....

630 kilocycles (475.9)

CFCO	ak	100	F	Chatham, Ont.—.....
CFCY	ae	1000	F	Charlottetown, P.E.I.—Su. 10:00-11:15; 19:00-23:00. †10:45-12:30; 16:30-22:30
CJGX	ae	1000	F	Yorkton, Sask.—Su., 17:00-23:00. †9:00-15:00. †18:30-23:00. Sa., 19:00-23:00
CKOV	ak	100	F	Kelowna, B. C.—Su., 3:00-4:30; 13:30-2:00. †11:00-1:30
KFRU	ak	500	1 (1)	Columbia, Mo.—Su., 8:30-13:30; 15:30-ss. 20:00-22:00. †7:00-10:00; †17:00-ss. Sa., 15:00-ss; 20:00-23:00. M., W., 20:00-1:00. Tu., 20:00-22:00. Th., 20:00-21:00. Fr., 20:00-21:30
KGFX	ak	200	D	Pierre, S. D.—Su., 11:00-13:10. †10:30-12:00; 13:00-18:30
WGBF	ak	500	1	Evansville, Ind.—Su., 9:00-20:00. †8:00-20:00. Tu., 22:00-1:00. Th., 21:00-1:00. F., 21:30-1:00. Sa., 23:00-1:00
WMAL	ak	250	B (5)	Washington, D. C.—Su., 8:00-00:00. †7:00-00:00
WOS	ak	500	1D	Jefferson City, Mo.—†10:00-17:00. Sa., 10:00-15:00
WPRO	ak	250	.....	Providence, R. I.—Su., 9:00-00:00. †7:30-00:00
XEZ	z	500	.....	Merida, Yuc.—.....

640 kilocycles (468.5)

CMBY	z	150	.....	Havana, Cuba—.....
KFI	ah	50000	N	Los Angeles, Calif.—Su., 11:00-2:00. †9:45-3:00
WAIU	ae	500	.....	Columbus, Ohio—.....
WOI	ae	5000	D	Ames, Iowa—†7:45-ss. Sa., 7:45-17:00
XEOX	ak	500	.....	Saltillo, Coah.—.....

650 kilocycles (461.3)

RDN	z	500	.....	San Salvador, E. S.—.....
WSM	ae	50000	N	Nashville, Tenn.—Su., 9:00-1:00. †7:30-1:00

660 kilocycles (454.3)

CMCX	z	150	.....	Havana, Cuba—.....
WAAW	ak	500	D	Omaha, Neb.—Su., 11:00-17:00. †7:00-18:45
WEAF	ak	50000	R	New York, N. Y.—.....

670 kilocycles (447.5)

WMAQ	ak	50000	N	Chicago, Ill.—Su., 9:00-2:00. †8:00-2:00
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

680 kilocycles (440.9)

CMCO z 250
 KFEQ ak 2500 D
 KPO ak 50000 N
 VAS akn 2000 685
 VOWR ck 500 681
 WPTF ae 5000 DnN

Havana, Cuba—.....
 St. Joseph, Mo.—Su., 9:00-18:45. †7:00-19:00
 San Francisco, Calif.—Su., 11:00-3:00. †10:00-3:00
 Glace Bay, N. S.—.....
 St. John's, Nfld.—.....
 Raleigh, N. C.—9:00-23:00 Sun.; †7:00-23:00

690 kilocycles (434.5)

CFRB ak 1000 C
 CJCJ aj 100 F
 NAA akn 1000
 XET ak 500

Toronto, Ont.—Su., 10:30-00:00. †8:00-00:00
 Calgary, Alta.—Su., 12:30-00:00. †9:30-16:00; 18:30-1:00
 Arlington, Va.—*10:10-10:15; 11:55-12:00; 15:45-15:50; 21:55-22:05
 Monterrey, N. L.—Su., 12:00-16:00. †14:00-23:00

700 kilocycles (428.3)

WLW ak 50000 N

Cincinnati, Ohio—Su., 7:00-1:30. †6:30-2:00

710 kilocycles (422.3)

KIRO ae 500
 KMPC ak 500
 WOR ak 50000
 XEN ak 1000

Seattle, Wash.—.....
 Beverly Hills, Calif.—*00:00-4:00. Su., 10:00-21:00. †9:00-21:00
 Newark, N. J.—.....
 Mexico City, D. F.—.....

720 kilocycles (416.4)

WGN ak 50000

Chicago, Ill.—Sa., 8:00-3:30. Su., 10:00-2:30. †8:00-2:30

730 kilocycles (410.7)

CFPL ak 100 F
 CJCA ah 1000 F
 CKAC ck 5000 C

London, Ont.—.....
 Edmonton, Alta.—.....
 Montreal, Que.—Su., 10:30-1:00. †7:30-1:00

740 kilocycles (405.2)

KMMJ ae 1000 D
 KTRB ak 250 D
 WHEB ak 250 D
 WSB ah 50000 N

Clay Center, Neb.—Su., irreg. †6:00-19:00
 Modesto, Calif.—Su., 11:30-20:30. †9:00-20:30
 Portsmouth, N. H.—Su., 8:00-ss. †9:00-18:15
 Atlanta, Ga.—.....

750 kilocycles (399.8)

CMCW dk 150
 KGU aj 2500 N
 WJR ak 50000 C
 XEAM z 7.5

Havana, Cuba.—.....
 Honolulu, T. H.—.....
 Detroit, Mich.—Su., 8:00-00:00. †6:00-00:00
 Matamoros, Tams.—.....

760 kilocycles (394.5)

GMHX ak 500 (.15)
 KXA ae 250 (.5)
 WBAL ae 10000 BSy
 WEW ae 1000 D
 WJZ ak 50000 BSy
 XEOK z 250

Cienfuegos, Cuba—*8:00-22:00
 Seattle, Wash.—Su., 10:30-ss. †9:30-ss. Daily exc. Mon., 1:00-4:00. M., 1:00-3:00
 Baltimore, Md.—.....
 St. Louis, Mo.—*7:00-ss
 New York, N. Y.—.....
 Tijuana, L. C.—.....

770 kilocycles (389.4)

CMBS ak 150
 KFAB ae 10000 CSy
 WBBM ae 50000 CSy

Havana, Cuba—.....
 Lincoln, Neb.—Su., 10:00-1:00. †7:00-1:00
 Chicago, Ill.—Su., 8:45-2:30. †7:50-3:15

780 kilocycles (384.4)

CHWK dk 100 F
 CKSO ak 1000 F
 CMJK ak 250

Chilliwack, B. C.—Su., 15:00-1:30. †14:45-1:30
 Sudbury, Ont.—Su., 11:00-14:00. †12:00-14:00. *17:00-23:00
 Camaquey, Cuba—†11:30-13:30; 18:00-22:00. Sa., 11:30-14:30;
 17:00-22:45

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KELW ak 500 2
 KFDY ae 1000 D
 KFQD ck 250
 KGHL ak 1000 N (2.5)
 KTM ak 501 2 (1)
 WEAN ae 500 C
 WMC ak 1000 N (5.)
 WTAR ae 500 N (1)
 XEYZ z 10000

Burbank, Calif.—
 Brookings, S. D.—†13:30-15:00
 Anchorage, Alaska—
 Billings, Mont.—*10:00-1:00
 Los Angeles, Calif.—
 Providence, R. I.—Su., 8:00-1:00. †7:45-1:00
 Memphis, Tenn.—*7:45-1:00. Sa. until 2:00
 Norfolk, Va.—Su., 8:30-00:00. †7:00-00:00
 Mexco City, D. F.—

790 kilocycles (379.5)

GMOA z 150
 KGO ak 7500 N
 WGY ak 50000 R

Havana, Cuba—
 San Francisco, Calif.—Su., 11:00-3:00. †10:30-3:00
 Schenectady, N. Y.—

800 kilocycles (374.8)

HIX ak 700
 WBAP ak 50000 Na
 WFAA ak 50000 Na
 WTBO ak 250 D

Santo Domingo, D. R.—Su., 7:10-10:10. †11:10-12:40; 16:40-17:40
 Tu., F., 20:10-22:10
 Fort Worth, Tex.—Su., 11:00-13:00; 16:00-19:00; 22:00-00:30
 †7:00-8:00; 9:30-11:30; 13:30-16:00; 18:30-19:30. M., W., F., 23:00-00:30. Tu., Th., Sa., 20:00-23:00
 Dallas, Tex.—Alternates with WBAP
 Cumberland, Md.—Su., 11:00-ss. †8:45-ss.

810 kilocycles (370.2)

CMCF ak 250 815
 CMHW ak 100
 WCGO ae 50000 C
 WNYC ak 1000 D
 XFC z 350

Havana, Cuba—Su., 10:00-22:00 †10:30-00:00
 Cienfuegos, Cuba—Su., 10:00-11:00; 14:00-15:00. M., W., F., 12:00-14:00; 16:00-21:00. Tu., Th., Sa., 13:00-14:00; 17:00-21:00
 Minneapolis, Minn.—Su., 9:00-1:00. †7:45-1:00. Sa. until 2:00
 New York, N. Y.—†8:00-1 hr. after ss. Sa., Su., 9:00-1 hr. after ss.
 Aguascalientes, Ags.—

820 kilocycles (365.6)

WHAS aj 50000 C
 XETW dk 500
 XEMZ z

Louisville, Ky.—
 Mexico City, D. F.—
 Coronado Isle, L. C.—

830 kilocycles (361.2)

KOA ak 50000 N
 WEEU ak 1000 D
 WHDH ae 1000 Dn
 WRUF ae 5000 Dn

Denver, Colo.—
 Reading, Pa.—*8:00-ss.
 Boston, Mass.—
 Gainesville, Fla.—Su., 8:30-19:30. †8:00-19:30

840 kilocycles (356.9)

GFQC ak 1000 F
 GRCT ak 5000 FN
 VOGY ak 400
 XEP z 500
 XERA ck 250000

Saskatoon, Sask.—
 Toronto, Ont.—
 St. John's, Nfld.—
 Mexico City, D. F.—
 Villa Acuna, Coah.—*17:00-10:00

850 kilocycles (352.7)

KIEV ak 100 D
 TIEP z 500
 WESG ak 1000 C
 WKAR ae 1000 D
 WWL ae 10000 C
 XEFE z 250

Glendale, Calif.—*9:00-21:00
 San Jose, C. R.—
 Elmira, N. Y.—
 East Lansing, Mich.—
 New Orleans, La.—Su., 9:00-1:00. †7:00-1:00
 Nuevo Laredo—

860 kilocycles (348.6)

WABC ak 50000 C
 WHB ak 1000 D
 XEMO ak 5000

New York, N. Y.—Su., 8:00-2:00. †7:30-2:00
 Kansas City, Mo.—*7:00-18:00
 Tijuana, L. C.—Su., 7:30-2:00. †10:00-4:00

870 kilocycles (344.6)

WENR ak 50000 Na
 WLS ae 50000 Na

Chicago, Ill.—Su., 13:00-19:30; 21:00-2:00. †16:00-20:00; 21:30-2:00
 Chicago, Ill.—

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

880 kilocycles (340.7)

CFJC	ak	100	F	Kamloops, B. C.
CMBN	z	150	.....	Havana, Cuba
CMO	ak	500	.....	Havana, Cuba—*6:55-1:00
CRCO	ak	1000	F	Ottawa, Ont.—Su., 9:30-00:00. †8:00-9:00; 11:50-14:00; 17:00-00:00
KFKC	ak	500	2 (1)	Greeley, Colo.—Su., 18:30-21:00. †7:00-9:30; 11:00-16:00; 18:30-21:00; 22:30-2:00
KLX	ae	1000	.....	Oakland, Calif.—Su., 15:00-2:00. †11:00-2:00
KPOF	ae	500	2	Denver, Colo.—*9:30-11:00. †16:30-18:00; 21:00-22:30. Su., 13:00-14:00; 17:00-18:00; 21:30-22:30
WCOC	ae	500	(1)	Meridian, Miss.—*8:30-15:00; 18:00-00:00
WGBI	ae	500	1	Scranton, Pa.—Su., 13:00-21:15. †9:30-12:30; 13:30-16:30. M., W., Th., 17:30-22:15. Tu., F., 17:30-20:00. Sa., 17:30-23:00
WPHR	ak	500	D	Petersburg, Va.—*7:30-ss
WQAN	ae	250	1	Scranton, Pa.—†12:30-13:30; 16:30-17:30. M., W., F., 9:00-9:30. Tu., Fr., 20:00-22:00
WSUI	ae	500	(1)	Iowa City, Iowa—Su., 15:00-19:00; 20:00-22:00; 22:15-22:45. †10:00-23:00. Fr., to 1:00

890 kilocycles (336.9)

KARK	ak	250	(.5)	Little Rock, Ark.—Su., 8:30-23:00. †7:00-23:00
KFNF	ak	500	2 (1)	Shenandoah, Iowa—Su., 9:00-13:00; 15:00-17:00; 18:00-19:45. †6:30-9:00; 12:00-17:00; 19:00-22:00
KFPY	ak	1000	C	Spokane, Wash.—Su., 12:00-3:00. †9:50-3:00
KUSD	ae	500	2	Vermillion, S. D.—Daily exc. Sa., 17:00-18:00. M., W., F., 22:00-23:00
WBAW	ak	1000	D	W. Lafayette, Ind.—†12:00-18:00
WGST	ak	500	C (1)	Atlanta, Ga.—Su., 9:00-1:00. †7:00-1:00
WILL	ak	250	2 (1)	Urbana, Ill.—†9:00-12:00; 18:00-19:00. Sa., 9:00-12:00; 17:00-19:00; 23:00-1:00
WJAR	ae	500	R	Providence, R. I.
WMMN	ak	500	(1)	Fairmount, W. Va.—Su., 10:30-21:00. †7:30-22:00
XEW	ak	50000	.....	Mexico City, D. F.

900 kilocycles (333.1)

KGBU	ak	500	.....	Ketchikan, Alaska
KILI	ae	1000	C (5)	Los Angeles, Calif.—Su., 11:00-4:00. †9:00-4:00
KSEI	ck	250	(.5)	Pocatello, Idaho
WBNL	ak	1000	R	Buffalo, N. Y.—†7:00-00:00. Sa., 7:00-1:00. Su., 9:00-00:00
WELI	z	500	D	New Haven, Conn.
WFMD	ah	500	DP	Frederick, Md.—Su., 10:00-ss. †7:00-ss.
WJAX	aeH	1000	N (5)	Jacksonville, Fla.
WKY	ae	1000	N	Oklahoma City, Okla.—Su., 9:00-1:00. †7:45-1:00. Sa. until 1:30
WLBL	ak	2500	D	Stevens Point, Wis.—†9:00-17:00
WTAD	ak	500	D	Quincy, Ill.—Su., 11:00-ss. †8:00-ss.

910 kilocycles (329.6)

CJAT	ak	250	F	Trail, B. C.—†10:00-1:30. Sa., 10:00-3:00. Su., 13:30-1:30
CRGM	ak	5000	F	Montreal, Que.—†5:00-23:00. Sa., 5:00-00:00. Su., 5:00-23:30
XENT	ak	65000	.....	Nuevo Laredo, Tams.—Su., 20:30-23:30. †20:30-2:30

920 kilocycles (325.9)

CMX	ae	650	.....	Havana, Cuba—Daily exc. Mon., 8:00-1:00. M., 11:00-1:00
HHK	ak	1000	.....	Port-au-Prince, Haiti
KFEL	ak	500	a	Denver, Colo.—Su., 9:30-3:00. †8:00-3:00
KOMO	ak	1000	N (5)	Seattle, Wash.—Su., 11:00-2:00. †10:00-3:00
KPRC	ak	1000	N (5)	Houston, Texas—Su., 9:00-1:00. †7:30-1:00
KVOD	ak	500	a	Denver, Colo.
WAAF	ak	1000	D	Chicago, Ill.—*7:00-17:15
WORL	ae	500	D	Babson Park, Mass.—*8:30-17:00
WPNL	ak	250	(.5) 1	Philadelphia, Pa.
WRAX	ak	250	1 (.5)	Philadelphia, Pa.
WSPA	ae	1000	D	Spartanburg, S. C.—Su., 10:00-19:30. †6:00-19:30
WVJ	ak	1000	R (5)	Detroit, Mich.—Su., 8:00-00:00. †7:00-00:00
XEAA	ak	200	.....	Mexicali, L. C.—*9:00-1:00

930 kilocycles (322.4)

CFAC	ak	100	F	Calgary, Alta.—Su., 11:00-00:30; †9:00-1:00
CFCH	ak	100	F	North Bay, Ont.—Su., 11:00-12:30; 15:00-23:00. †12:00-14:00; 17:30-23:00

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

CFLC	ae	100	...	Prescott, Ont.—
CHNS	ae	1000	F	Halifax, N. S.—*17:00-23:00. †8:30-11:30
CKPC	ae	100	F	Brantford, Ont.—
CKPR	ak	100	F	Fort William, Ont.—
KGBJ	ak	1000	2 (2.5)	York, Neb.—Su., 10:15-12:15; 13:30-16:00; 17:30-19:00; 20:00-21:30; †8:30-10:30; 12:00-13:30; 15:00-16:30; M., Tu., W., F., Sa., 18:00-19:30. Th., 18:00-23:00. Tu., W., F., Sa., 21:30-23:00
KMA	ak	1000	2 (2.5)	Shenandoah, Iowa—
KROW	ak	500	(1)	Oakland, Calif.—Su., 11:00-5:00. †9:00-5:00
TIRH	z	50	...	San Jose, C. R.—
WBRC	ak	1000	C	Birmingham, Ala.—*8:00-00:00
WDBJ	ae	1000	C	Roanoke, Va.—Su., 8:00-00:00. †7:00-00:00

940 kilocycles (319.0)

CMBC	dj	500	...	Havana, Cuba—Su., 12:00-23:00. †9:00-00:30
KOIN	ak	1000	C (5)	Portland, Ore.—Su., 11:00-3:00; †9:30-3:00
VOAS	ak	100	...	St. John's, Nfld.—
WAAT	ae	500	D	Jersey City, N. J.—
WAVE	bk	1000	N	Louisville, Ky.—Su., 9:00-1:00. †8:00-1:00
WCSH	ae	1000	R (2.5)	Portland, Maine—Su., 8:45-00:00; †7:45-00:00
WDAY	ae	1000	N (5)	Fargo, N. D.—Su., 9:00-1:00. †8:00-1:00
WHA	ak	1000	D (5)	Madison, Wis.—†9:00-17:30
XEFO	ak	5000	(XFO)	Mexico City, D. F.—*8:00-1:00

950 kilocycles (315.6)

CRGS	ak	100	F	Chicoutimi, Que.—Su., 15:00-23:30. †17:00-23:00
KFWB	ak	1000	(5)	Hollywood, Calif.—
KHSL	ak	250	D	Chico, Calif.—Su., 11:00-ss. †10:00-ss
KMBC	ae	1000	C (5)	Kansas City, Mo.—Su., 8:30-1:00. †6:55-1:00
WRC	ak	500	R (1)	Washington, D. C.—Su., 8:00-00:00. †7:00-1:00
YNVA	z	30	...	Managua, Nic.—

960 kilocycles (312.3)

CKY	ak	5000	F	Winnipeg, Man.—Su., 12:00-00:00. †9:00-15:00; 17:00-1:00
CMCD	ak	250	...	Havana, Cuba—*17:00-23:00. †11:00-00:00
XEAW	ck	50000	...	Reynosa, Tams.—*18:00-1:00

970 kilocycles (309.1)

KJR	ak	5000	N	Seattle, Wash.—Su., 11:00-2:00. †10:30-3:00
WCFL	ae	5000	B	Chicago, Ill.—
WIBG	ak	100	D	Glenside, Pa.—

980 kilocycles (306.0)

KDKA	ae	50000	B	Pittsburgh, Pa.—Su., 9:00-1:00. †7:00-1:00
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990 kilocycles (302.8)

WBZ	ak	50000	BSy	Boston, Mass.—Su., 8:00-1:00. †7:00-1:00
WBZA	ak	1000	BSy	Springfield, Mass.—Su., 8:00-1:00. †7:00-1:00
XEAF	ak	500	...	Nogales, Sonora—Su., 10:00-17:00. *20:00-00:00. †11:00-15:00
XEK	ak	100	...	Mexico City, D. F.—
XES	dk	250	...	Tampico, Tams.—

1000 kilocycles (299.8)

CMBZ	ak	250	...	Havana, Cuba—*7:00-00:00
KFVD	ak	250	Dn	Los Angeles, Calif.—
TIGH	z	500	...	San Jose, C. R.—
WHO	ak	50000	R	Des Moines, Iowa—Su., 7:00-1:00. 17:30-8:15. †13:45-16:30. M., Tu., Th., F., 19:30-23:15. W., Sa., 19:30-23:30. Sa., 13:45-18:00.
XEBH	z	500	...	Meramosillo, Sonora—
XEY	z	10	...	Merida, Yuc.—

1010 kilocycles (296.9)

CHML	ak	100	F	Hamilton, Ont.—Su., 10:00-23:00. †5:00-23:00
CHWC	ak	500	3F	Regina, Sask.—Su., 17:30-23:00. †9:00-11:00; 12:00-13:00; 14:00-15:00; M., W., Sa., 17:30-3:00. Tu., Th., F., 17:30-19:30

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

CKCD	ak	100	....	Vancouver, B. C.—M., Tu., Sa., 10:30-2:30. W., F., 11:30-00:00 Th., 10:30-00:30
CKCK	ak	500	3F	Regina, Sask.—Su., 12:00-18:00; 23:00-2:00. †11:00-12:00; 13:00 14:00; 15:30-17:30. Tu., Th., F., 19:30-2:00
CKCO	ak	100	[F	Ottawa, Ont.—Su., 14:00-15:30; 21:00-23:00. †12:00-14:00; 18:00- 23:00
CKIC	ak	50	....	Wolfville, N. S.—.....
CKWX	ak	100	F	Vancouver, B. C.—Su., 10:00-3:00. M., Tu., Th., Sa., 10:00-22:30 W., F., 10:00-23:30. W., Th., F., 00:00-3:00. Sa., 2:30-4:00
CMJA	ak	300	....	Camaguey, Cuba—Su., 1:00-3:00. †12:00-22:00
KGGF	ak	1000	2	Coffeyville, Kans.—Su., 14:30-18:00. †8:00-15:00; 17:30-20:30 W., 20:30-21:30. M., F., Sa., 20:30-22:30
KOW	ak	1000	....	San Jose, Calif.—Su., 12:00-3:00. †9:30-3:00
TIGA	z	30	1014	Cartago, C. R.—.....
WHN	ae	1000	(5)	New York, N. Y.—.....
WIS	ae	500	N (1)	Columbia, S. C.—Su., 9:00-00:00. †7:30-00:00
WNAD	ae	1000	2 (1)	Norman, Okla.—M., Tu., W., Th., 15:00-17:00. Tu., W., Th. 20:30-22:30
XEU	ak	250	....	Veracruz, Ver.—Su., 8:00-9:30. Daily exc. Sat., 11:00-16:00 19:00-00:00. †8:00-9:00. Sa., 11:00-00:00

1020 kilocycles (293.9)

KYW	ak	10000	R	Philadelphia, Pa.—.....
XEJ	ak	1000	....	Juarez, Chin.—.....

1030 kilocycles (291.1)

CFCN	ak	10000	....	Calgary, Alta.—Su., 11:30-00:30. †9:00-1:00. Th. until 2:00
CKLW	ag	5000	....	Windsor, Ont.—Su., 8:00-1:00. †7:00-1:00
CMCY	ak	1000	....	Havana, Cuba—.....
XEB	ak	10000	....	Mexico City, D. F.—.....

1040 kilocycles (288.3)

KRLD	ae	10000	C	Dallas, Texas—Su., 8:30-00:00. †7:30-00:30. Sa. until 1:00
KWJJ	ak	500	....	Portland, Ore.—*10:00-20:30; 00:00-06:00
WTIC	ah	50000	....	Hartford, Conn.—Su., 9:30-00:00. †7:00-00:00

1050 kilocycles (285.5)

CMKD	ak	250	....	Santiago, Cuba—*7:30-22:30
CRCK	ak	1000	F	Quebec, Que.—*16:30-00:00
KFHI	ak	5000	Dn	Abilene, Kans.—11:00-ss. †9:00-ss.
KNX	ak	50000	....	Hollywood, Calif.—.....
TIFA	z	75	....	San Jose, C. R.—.....

1060 kilocycles (282.8)

GMK	ae	250	....	Havana, Cuba—.....
KTHS	ae	10000	N	Hot Springs, Ark.—*21:00-00:00. 19:00-14:00; 16:00-18:00. Su. 11:00-18:00
VOAC	z	40	1065	St. John's, Nfld.—.....
WBAL	ak	10000	B	Baltimore, Md.—8:00-00:00. †7:00-00:00
WJAG	ak	1000	D	Norfolk, Neb.—Su., 11:00-ss. †8:00-ss
XFA	ak	500	....	Gualaajara, Jal.—*9:00-10:30; 13:00-16:30; 20:00-23:00

1070 kilocycles (280.2)

CMHA	z	50	....	Sagua la Grande—.....
KJBS	ak	500	Dn	San Francisco, Calif.—*01:00-00:00
WCAZ	ak	100	D	Carthage, Ill.—Su., 11:00-16:30. †10:30-16:30
WDZ	ak	100	D	Tuscola, Ill.—Su., 10:00-17:45. †9:00-17:00
WTAM	ak	50000	R	Cleveland, Ohio—Su., 7:00-1:00. †6:30-1:00

1080 kilocycles (277.6)

WBT	ak	50000	C	Charlotte, N. C.—Su., 10:00-00:00. †6:45-00:00
WCBQ	ak	5000	1Dn	Waukegan, Ill.—Su., 19:00-12:00; 15:30-18:15. †8:30-11:30; 14:00- 16:00. M., W., F., 17:30-18:15
WBMI	ak	5000	1Dn	Chicago, Ill.—Su., 12:00-15:30. †8:00-8:30; 11:30-14:00; 16:00-17:30
XEMA	z	50	....	Tampico, Tams.—.....

1090 kilocycles (275.1)

KMOX	ak	50000	C	St. Louis, Mo.—.....
XEAQ	z	....	....	Tijuana, L. C.—.....

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1100 kilocycles (272.6)

CRCV ak 500 F
 KGDM ak 1000 D
 KWKH ae 10000 C
 WLWL ae 5000 1
 WPG ak 5000 1C
 XEL z 250

Vancouver, B. C.—Su., 15:00-2:00. †20:30-2:00
 Stockton, Calif.—*9:00-ss
 Shreveport, La.—
 New York, N. Y.—Su., 15:15-16:30; 20:00-21:15. †18:00-20:00.
 F., 14:00-15:00
 Atlantic City, N. J.—Su., 8:30-15:15; 16:30-20:00; 21:15-00:30.
 †20:00-00:30. Daily exc. F. and Su., 8:30-18:00. Fri., 8:30-14:00.
 15:00-18:00
 Mexico City, D. F.—

1110 kilocycles (270.1)

CMCO ak 250
 KSOD ak 2500 Dn
 WRVA ae 5000 N
 XELO z 10000

Havana, Cuba—*9:00-00:00. F., 00:00-1:00
 Sioux Falls, S. D.—
 Richmond, Va.—Su., 10:00-00:00. †7:00-00:00
 Piedras Negras, Co.—

1120 kilocycles (267.7)

CHLP ak 100 F
 CHSJ ae 500 F (1)
 CKOC ae 500 F (1)
 CKX ak 100 F
 CMGF dk 100
 CMKM ak 200
 KFIO ae 100 D
 KFSG ag 500 a (1)
 KRKD aj 500 a (1)(2,5)
 KRSC ak 100 D
 WGOP ak 500 D
 WDEL ak 250 (.5)
 WISL ak 250 (1)
 WTAW ae 500

Montreal, Que.—Su., 17:00-23:00. †8:00-23:00
 St. John, N. B.—Su., 10:00-11:15; 17:00-23:00. †5:00; 6:45-14:00;
 16:00-23:00
 Hamilton, Ont.—Su., 10:00-00:00. †8:00-00:00
 Brandon, Man.—Su., 17:00-00:30. M., 13:00-13:30. †20:00-00:00.
 Daily exc. Su. and M., 12:30-13:30
 Matanzas, Cuba—
 Manzanillo, Cuba—†8:00-11:55; 19:00-22:00
 Spokane, Wash.—Su., 11:00-20:00. †9:00-20:00
 Los Angeles, Calif.—
 Los Angeles, Calif.—Su., 10:45-13:30; 15:30-22:00. M., F., Sa.,
 10:45-3:00. Tu., W., Th., 10:45-22:30. Th., 1:00-3:00
 Seattle, Wash.—*9:00-ss
 Boston, Mass.—Su., 8:00-ss. †7:00-ss
 Wilmington, Del.—Su., 10:00-22:30. †9:00-00:00
 Milwaukee, Wis.—Su., 9:00-1:00. †8:00-1:00
 College Station, Tex.—Su., 9:30-10:30. †13:20-13:50. M., F.
 21:00-22:00

1130 kilocycles (265.3)

CMJI ak 50
 KSL ae 50000 C
 WJJD ak 20000 Dn
 WOV ag 1000 D

Ciego de Avila, Cuba—
 Salt Lake City, Utah—Su., 9:00-2:00. †8:30-2:00
 Chicago, Ill.—Su., 8:00-19:45. †7:00-19:45
 New York, N. Y.—

1140 kilocycles (263.0)

CMBG z 200
 KVOO ak 25000 1N
 WAPI ae 5000 1N
 z 500 P

Havana, Cuba—
 Tulsa, Okla.—Su., 8:30-21:15. M., Tu., W., 7:00-22:00. Th., F.,
 Sa., 7:00-ss; 22:00-2:00
 Birmingham, Ala.—
 Springfield, Mass.—

1150 kilocycles (260.7)

CMJF z 200
 WHAM ae 50000 B
 XED ak 2500 1155
 XEFL z 500
 XEH ak 250
 XEWZ ak 100

Camaguey, Cuba—
 Rochester, N. Y.—*7:30-00:30
 Guadalajara, Jal.—*9:00-10:00; 13:00-1:00
 Tijuana, L. C.—
 Monterrey, N. L.—†10:00-22:00
 Mexico City, D. F.—*13:00-2:00. Su., 2:00-4:00

1160 kilocycles (258.5)

CMHJ z 100
 WOWO ae 10000 1C
 WWVA ak 5000 1C
 XEAS z 100
 XEC z 30
 XESL z

Cienfuegos, Cuba—
 Fort Wayne, Ind.—Sa., 8:00-19:30. Su., 8:30-18:00; Daily exc. Sa.
 20:30-1:00. †8:00-18:00
 Wheeling, W. Va.—Su., 7:00-20:30. †6:00-20:30. Tu., Th., 23:30-
 1:00. Sa., 23:30-2:00
 Saltillo, Coah.—
 Tijuana, L. C.—
 Tijuana, L. C.—

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1170 kilocycles (256.3)

CMBD	z	150	.....	Havana, Cuba.....
WCAU	ae	50000	C	Philadelphia, Pa.—Su., 9:00-1:00. †8:00-1:00

1180 kilocycles (254.1)

CMJO	ak	50	.....	Ciego de Avila, Cuba.....
KEX	ak	5000	2N	Portland, Ore.....
KOB	ak	10000	2	Albuquerque, N. M.—†13:00-23:00
V9EK	ak	10	1185	Montmagny, Que.....
WDGY	ak	1000	Dn (5)	Minneapolis, Minn.—*7:30-19:30
WINS	ak	1000	.....	New York, N. Y.—*6:00-19:30
WMAZ	ak	1000	.....	Macon, Ga.—Su., 8:30-19:30. †7:00-19:30
XEFA	z	500	.....	Mexico City, D. F.....

1190 kilocycles (252.0)

CMKV	z	50	.....	Santiago, Cuba.....
HJ	z	15	1195	Santo Domingo, D. R.....
VONF	ak	500	1195	St. John's, Nfld.—†10:30-12:30; 16:30-18:30. Sa., 20:00-21:30
WATR	ak	100	D	Waterbury, Conn.....
WQAI	ak	50000	.....	San Antonio, Tex.—Su., 9:00-00:00. †7:55-00:30
WSAZ	ak	1000	.....	Huntington, W. Va.—Su., 12:00-18:45. †7:00-18:45. Tu., Th., F., Sa., until 19:15. W., until 19:30

1200 kilocycles (249.9)

CHAB	ak	100	F	Moose Jaw, Sask.—Su., 10:45-00:00. †9:00-00:00
CKNX	ak	50	.....	Wingham, Ont.—Su., 16:30-20:30. *11:00-13:00. †17:00-21:00
CKTB	ae	100	F	St. Catharines, Ont.—Su., 10:45-00:00. †10:00-00:00
CMCJ	ak	350	.....	Havana, Cuba.....
KADA	ak	100	D	Ada, Okla.—Su., 11:30-18:45. †8:00-18:45
KBTM	ak	100	D	Jonesboro, Ark.—Su., 8:30-19:30. †9:30-19:30
KFJB	ak	100	(.25)	Marshalltown, Iowa—Su., 9:00-10:00; 12:00-15:00; 18:30-21:30. †7:00-22:00
KFXD	ae	100	(.25)	Nampa, Idaho.....
KFXJ	ak	100	(.25)	Grand Junction, Colo.....
KGDE	ak	100	(.25)	Fergus Falls, Minn.—Su., 10:00-22:00. †8:00-22:00
KGEK	ak	100	.....	Sterling, Colo.....
KGJF	ae	100	.....	Los Angeles, Calif.—24 hrs. every day
KGHI	ak	100	(.25)	Little Rock, Ark.....
KMLB	ak	100	.....	Monroe, La.....
KSUN	ak	100	.....	Lowell, Ariz.—Su., 10:30-19:45. †11:00-19:45
KVOS	dk	100	.....	Bellingham, Wash.—Su., 12:00-00:00. †9:00-3:00
KWG	ak	100	C	Stockton, Calif.—Su., 11:00-3:00. †10:00-3:00
WABI	ak	100	.....	Bangor, Maine.....
WAIM	ak	100	.....	Anderson, S. C.—Su., 9:45-15:30. †7:30-21:30
WBBZ	ak	100	.....	Ponca City, Okla.....
WBNO	ak	100	1	New Orleans, La.—Su., 11:00-14:00; 18:00-22:00. †13:00-18:00; 21:00-00:00
WCAT	ak	100	D	Rapid City, S. D.....
WCAX	ak	100	.....	Burlington, Vt.....
WCLO	ak	100	.....	Janesville, Wis.....
WCPO	ak	100	(.25)	Cincinnati, Ohio—Su., 8:00-23:00. †7:30-23:00
WEST	ae	100	3 (.25)	Easton, Pa.....
WFAM	ak	100	8	South Bend, Ind.....
WHBC	ak	100	(.25)	Canton, Ohio—Su., 12:00-15:00; 18:00-21:00. †9:00-21:30
WHBY	ak	100	(.25)	Green Bay, Wis.—Su., 11:00-22:00. †8:00-23:00
WIBX	aej	100	(.3) C	Utica, N. Y.—Su., 8:45-1:00. †7:00-1:00
WIL	ak	100	(.25)	St. Louis, Mo.—Su., 10:00-00:00. †8:00-1:00
WJBC	ak	100	6	Bloomington, Ill.—Su., 9:30-11:00; 13:30-19:00. †10:00-13:30; 16:00-20:30
WJBL	ak	100	6	Decatur, Ill.—Su., 11:00-13:00; 19:00-23:00. †7:30-10:00; 13:30-16:00; 20:30-1:00
WJBW	ak	100	1	New Orleans, La.....
WKBO	ak	100	3 (.25)	Harrisburg, Pa.—Su., 12:30-19:00. †7:30-11:00; 15:00-18:00; 20:00-23:00
WLVA	ak	100	(.25)	Lynchburg, Va.....
WMFR	ae	100	PD	High Point, N. C.—*7:00-ss
WMPC	ak	100	(.25)	Lapeer, Mich.—Daily exc. Sat., 10:00-14:00. †15:30-18:00; 19:00-22:30. Su., 15:00-18:00; 19:30-22:30
WNRI	ak	100	(.25)	Newport, R. I.....
WRBL	ak	100	.....	Columbus, Ga.....
WWAE	ae	100	8	Hammond, Ind.....
.....	z	100	P	West Palm Beach, Fla.....
.....	z	100	DP	Hartford, Conn.....

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1210 kilocycles (247.8)

CJCS	z	50	....	Stratford, Ont.—Su., 10:30-12:30; 18:00-20:30. †9:00-13:30; 16:30-22:00
CJCU	z	50	....	Aklavik, N. W. T.
CKBI	ak	100	F	Prince Albert, Sask.—Su., 13:00-1:00. †10:00-15:30; 19:00-1:00
CKCH	ak	100	F	Hull, Que.—Su., 12:30-13:30; 17:00-23:45. †8:00-9:00; 10:30-13:15; 17:30-23:45
CKMC	ak	50	....	Cobalt, Ont.
CMHI	ak	150	....	Santa Clara, Cuba
KASA	ck	100	....	Elk City, Okla.—Su., 8:00-13:00; 14:00-18:45. †7:00-9:00; 10:00-14:30; 15:30-21:00
KDLR	ak	100	....	Devils Lake, N. D.—Su., 12:00-15:00. †7:30-17:00; 19:00-21:30
KDON	z	100	....	Del Monte, Calif.
KFJI	ak	100	....	Klamath Falls, Ore.
KFOR	ae	100	(.25) C	Lincoln, Neb.—Su., 9:00-23:00. †8:00-00:00
KFPW	ak	100	....	Fort Smith, Ark.—Su., 12:00-15:00; 18:00-22:00. †7:30-15:00; 18:00-22:30
KFVS	ak	100	6 (.25)	Cape Girardeau, Mo.—Su., 10:00-17:00; 22:30-1:00. †10:00-13:00. M., W., F., 17:00-21:30. Tu., Th., Sa., 17:00-20:30; 22:00-1:00
KFXM	ak	100	9	San Bernardino, Cal.—Su., 21:30-1:00. †12:00-15:45; 21:00-1:00
KGY	ak	100	....	Olympia, Wash.
KIUL	ak	100	....	Garden City, Kans.—Su., 12:00-21:00. †8:00-21:30
KPPC	ak	50	9	Pasadena, Calif.
KVSO	ak	100	D	Ardmore, Okla.—Su., 11:00-19:00. †8:00-19:00
KWTN	ak	100	....	Watertown, S. D.
TGW	ak	10000	....	Guatemala City.—*11:00-13:00. †18:30-19:30. Sa., until 5:00
WALR	ak	100	....	Zanesville, Ohio
WBAX	ae	100	....	Wilkes Barre, Pa.—Su., 13:00-00:00. †7:30-12:00. Tu., Th., Sa., 18:00-00:00
WBBL	ak	100	S	Richmond, Va.—Sun. only, 11:00 and 19:30
WBRB	ak	100	3	Red Bank, N. J.—M., Th., F., 9:00-11:00. M., 19:00-21:00; Tu., 16:00-19:00. W., 17:00-20:00. Th., Sa., 17:00-19:00; F., 13:00-00:00
WCOL	ak	100	....	Columbus, Ohio—Su., 9:30-23:00. †7:00-23:00
WCWR	ae	100	4	Chicago, Ill.—*12:00-15:00; 18:00-20:00
WEBQ	ae	100	6 (.25)	Harrisburg, Ill.—*7:00-10:00. †13:00-17:00. Su., 17:00-22:30. M., W., F., 21:30-1:00. Tu., Th., Sa., 20:30-22:00
WEDC	ae	100	4	Chicago, Ill.
WFAS	ak	100	3	White Plains, N. Y.—Su., 18:00-21:00. M., 13:00-19:00. Tu., 9:00-11:00. Tu., Th., 21:00-00:00. W., Sa., 15:00-17:00. Th., 13:00-17:00. Sa., 9:00-11:30; 19:00-22:00
WGBB	ae	100	3	Freeport, N. Y.—Su., 9:00-18:00. M., 21:00-00:00. Tu., Th., 19:00-21:00. W., 9:00-12:00; 20:00-00:00
WGCM	ae	100	(.25)	Gulfport, Miss.—Su., 13:00-15:00. †9:00-15:00; 17:00-23:30
WGNV	ak	100	3	Chester, N. Y.
WHBF	ak	100	(.25)	Rock Island, Ill.
WHBU	ak	100	(.25)	Anderson, Ind.—Su., 10:00-1:00. †7:30-1:00
WIBU	ak	100	(.25)	Poynette, Wis.
WJBY	ak	100	(.25)	Gadsden, Ala.
WJEJ	ae	100	D	Hagerstown, Md.—Su., Tu., Th., Sa., 6:30-23:00. M., W., F., 6:30-17:30
WJIM	z	100	(.25)	Lansing, Mich.
WJW	ae	100	(.25)	Akron, Ohio—Su., 9:00-22:30. †9:00-23:00
WKOK	ak	100	1	Sunbury, Pa.—Su., 6:00-13:00. M., W., F., 12:00-00:00. Tu., Th., Sa., 12:00-18:00
WMBG	ak	100	G (.25)	Richmond, Va.—Su., 13:30-17:30; 21:30-00:00. †7:00-00:00
WMFG	z	100	....	Hibbing, Minn.
WMFN	ak	100	....	Clarksdale, Miss.—Su., 9:00-19:00. †8:00-22:00
WOCL	ak	50	....	Jamestown, N. Y.—Su., 9:00-12:30. †10:30-22:30
WQMT	ak	100	....	Manitowoc, Wis.—†8:00-22:00
WPAX	ak	250	D	Thomasville, Ga.—Su., 9:00-14:00. †7:00-ss
WSAY	z	100	DP	Rochester, N. Y.
WSBC	ae	100	4	Chicago, Ill.—*7:00-9:30; 11:00-12:00; 14:00-15:30; 21:00-23:00; 00:00-1:00
WSIX	ak	100	Y	Springfield, Tenn.—Su., 12:00-13:00. †7:00-15:30; 18:00-21:30
WSOC	ak	100	N (.25)	Charlotte, N. C.—Su., 9:00-00:00. †7:00-00:00
WTAX	ak	100	....	Springfield, Ill.—Su., 9:00-23:30. †8:00-23:30
XEE	z	50	....	Durango, Dgo.
XEFV	ak	100	....	Juarez, Chih.—*10:00-17:00; 19:00-00:00
XEMZ	z	250	....	Tijuana, L. C.
XETH	ak	100	....	Puebla, Pue.

1220 kilocycles (245.8)

CMJE	z	50	....	Camaguey, Cuba
KFKU	ae	1000	a (5)	Lawrence, Kans.—Su., 17:00-18:00. †15:30-16:00; 19:00-19:30
KTW	ak	1000	S2	Seattle, Wash.—Sun. only, 13:00-1:00
KWSC	ae	1000	2 (5)	Pullman, Wash.—†9:45-11:00; Daily exc. Sun., and Thur., 13:30-00:30. Th., 13:30-21:30

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WCAD ak 500 D
 WCAE ak 1000 R (5)
 WDAE ae 1000 C (2.5)
 WREN ak 1000 Ba (5)
 XETF ak 12

Canton, N. Y.—†12:30-13:30; 15:00-16:00
 Pittsburgh, Pa.—Su., 8:00-1:00. †6:45-1:00
 Tampa, Fla.—Su., 9:00-12:00. †8:00-12:00
 Lawrence, Kas.—Su., 9:00-1:00. †8:00-1:00
 Veracruz, Ver.—*12:00-17:00. †20:30-1:00. Su., 22:00-1:00

1230 kilocycles (243.8)

CJOC ak 100 F
 CMCB ak 150
 KGBX ak 500
 KGGM ak 250 (.5)
 KYA ak 1000 N
 WFBM ae 1000 C
 WNAC ak 1000 C (2.5)
 XEFJ ak 100
 YNOP z 100

Lethbridge, Alta.—Su., 11:00-00:30. †9:30-1:00
 Havana, Cuba—*10:00-23:00
 Springfield, Mo.—*8:00-14:00; 17:00-00:00
 Albuquerque, N. M.—Su., 13:00-20:00. †9:00-16:00; 18:00-23:00
 San Francisco, Calif.—*11:00-2:00
 Indianapolis, Ind.—Su., 8:00-1:00. †7:30-1:00
 Boston, Mass.—Su., 7:00-00:00. †5:30-00:00
 Monterrey, N. L.—†12:00-15:00; 19:00-22:30
 Managua, Nic.—.....

1240 kilocycles (241.8)

CJCB ak 1000 F
 CMHB z 50
 KGCU ak 250 I
 KLPM ak 250 1
 KTAT ak 1000
 KTFI ak 1000
 WKAQ ae 1000
 WXYZ ak 1000 B
 XEAI z 100
 XEKL z 500

Sydney, N. S.—Su., 14:00-23:00. †9:00-13:00; 16:30-23:00
 Sancti Spiritus, Cuba—
 Mandan, N. D.—*14:00-19:00; 20:45-23:00
 Minot, N. D.—Su., 10:00-12:45; 14:30-15:30; 18:00-21:00. †8:00-14:00
 19:00-20:45; 23:00-00:30
 Fort Worth, Texas—
 Twin Falls, Idaho—
 San Juan, P. R.—Su., 10:00-18:30. †10:00-12:30 (Tu., Sa., until 13:00). M., Th., 16:45-21:15. Tu., F., 17:00-21:00. W., 14:30-21:00. Sa., 17:00-23:00
 Detroit, Mich.—
 Mexico City, D. F.—
 Leon, Guan.—.....

1250 kilocycles (239.9)

CMCG ak 250 1255
 CMCK ak 150
 KFOX ae 1000
 WCAL ah 1000 2 (2.5)
 WDSU ak 1000
 WHBI ak 1000 a (2.5)
 WLB ak 1000 2
 WNEW ae 1000 a (2.5)
 WTCN ak 1000 2 (5)

Havana, Cuba—Su., 8:00-12:00; 18:00-00:00. †8:00-00:00
 Santiago, Cuba—Su., 8:00-14:00; 19:00-22:00. †8:00-14:00; 16:00-23:00
 Long Beach, Calif.—Su., 9:00-3:00. †8:30-3:00
 Northfield, Minn.—Su., 9:15-10:30; 16:00-17:00. Su., M., W., 20:00-21:00. †10:45-11:16 (Wed. until 11:45).
 New Orleans, La.—Su., 9:00-1:00. †8:00-1:00
 Newark, N. J.—Su., 8:00-10:00; 12:30-18:30; 21:00-00:00. Mo., 14:00-17:00; 20:00-22:00
 Minneapolis, Minn.—M., W., F., 14:00-14:30. Tu., Th., F., Sa., 20:00-21:00. Th. 11:45-13:30; F., 17:00-18:00
 Newark, N. J.—Su., 00:00-8:00; 10:00-12:30; 18:30-21:00. M., 00:00-2:00; 7:00-14:00; 17:00-20:00; 22:00-24:00. Other days, 24 hours.
 Minneapolis, Minn.—*21:00-1:00. †7:00-10:43. Su., 10:30-16:00; 17:00-20:00. M., F., 11:16-14:00. Tu., Sa., 11:16-20:00. Th., 11:16-11:45; 13:30-20:00. M., W., F., 14:30-20:00.

1260 kilocycles (238.0)

CFRN ak 100 F
 KGVO ak 1000
 KOIL ak 1000 B (2.5)
 KPAC ak 500 D
 KRGV ak 500
 KUOA ak 1000 D
 KVOA ak 500
 WHIO ae 1000 R
 WNBX ak 1000
 WTOC ae 1000 C

Edmonton, Alta.—Su., 13:00-00:00. †9:30-23:00
 Missoula, Mont.—Su., 12:00-22:00. †9:30-00:00
 Council Bluffs, Iowa.—
 Port Arthur, Texas—Su., 8:00-ss. †7:00-ss
 Weslaco, Texas—*8:00-22:00
 Fayetteville, Ark.—Su., 11:00-19:00. †7:00-11:00; 13:00-19:00
 Tucson, Ariz.—
 Dayton, Ohio—Su., 8:00-1:00. †7:30-1:00
 Springfield, Vt.—Su., 10:30-12:00. Sa., 7:15-17:45. †7:15-13:00
 14:30-17:45
 Savannah, Ga.—.....

1270 kilocycles (236.1)

CMHD dk 250
 KGGG ak 100 2D
 KOL ae 1000 C (2.5)
 KVOR ae 1000 C
 KWLC ak 100 2D
 WASH ak 500 aN
 WFBR ak 500 R
 WJDX ae 1000 N (2.5)

Caibarien, Cuba—
 Decorah, Iowa—Su., 11:45-13:00. †9:30-10:45; 11:45-12:30; 13:30-15:30
 Seattle, Wash.—Su., 11:00-3:00. †9:45-3:00
 Colorado Springs, Colo.—Su., 11:30-00:00. †9:00-00:00
 Decorah, Iowa—Su., 10:30-11:30. †8:30-9:30; 10:45-11:45; 12:30-13:30; 15:30-16:30
 Grand Rapids, Mich.—Su., 9:00-00:00. †7:00-00:00. W., 6:00-6:30
 Baltimore, Md.—Su., 9:00-00:00. †7:00-00:00
 Jackson, Miss.—.....

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WOOD ak 500 aN
XEG z 200
XFB ak 250
YNLF z 20 1275

Grand Rapids, Mich.—Su., 9:00-00:00. †7:00-00:00. W., 6:00-6:30
Ensenada, L. C.—.....
Jalapa, Ver.—.....
Managua, Nic.—.....

1280 kilocycles (234.2)

CMCU z 150
KFBB ae 1000 (2.5)
WCAM ae 500 1
WCAP ae 500 1
WDOD ak 1000 C (5)
WBWA ae 1000 N (5)
WORC ak 500 C
WRR ak 500
WTNJ ak 500
XEMX z 12

Havana, Cuba—.....
Great Falls, Mont.—Su., 11:00-23:00. †10:00-00:00
Camden, N. J.—Su., 10:15-12:30; 15:00-17:00. †14:00-17:00. M.,
W., F., 10:30-11:30. M., 20:00-00:00. F., 21:00-00:00
Asbury Park, N. J.—Su., 6:00-10:15; 12:30-15:00. †10:30-14:00.
Su., Tu., W., Th., 20:00-00:00. F., Sa., 20:00-21:00
Chattanooga, Tenn.—8:00-00:30
Madison, Wis.—Su., 9:00-1:00. †8:00-1:00
Worcester, Mass.—.....
Dallas, Texas—Su., 8:30-23:30. †8:00-00:00
Trenton, N. J.—.....
Mexico City, D. F.—.....

1290 kilocycles (232.4)

KDYL ak 1000 N
KLCN ak 100 D
KTRH ak 1000 C (5)
WEBC ae 1000 N (5)
WJAS ak 1000 C (2.5)
WNBZ z 100 D
WNEL ak 1000 (2.)

Salt Lake City, Utah—*8:20-3:00
Blytheville, Ark.—*9:00-19:00
Houston, Texas—.....
Superior, Wis.—Su., 9:00-1:00. †8:00-1:00
Su., 9:00-00:00. †7:30-00:30
Saranac Lake, N. Y.—.....
San Juan, P. R.—Su., 9:00-14:00; 17:00-23:00. †6:00-8:30; 10:00-
13:00; 15:30-22:00

1300 kilocycles (230.6)

HIIZ z 10
KALE ak 500 3C
KFAC ak 1000
KFH ak 1000 C
KFJR ag 500 3
WBRR ae 1000 1
WEVD ak 1000 1
WFAB ae 1000 1
WFBC ak 1000 (5)
WHAZ ae 500 1
WIOD ak 1000 N

Santo Domingo, D. R.—.....
Portland, Ore.—.....
Los Angeles, Calif.—.....
Wichita, Kans.—.....
Portland, Ore.—†13:30-17:30; 20:00-21:00. M., Th., Sa., 22:00-
23:00. Tu., W., F., 22:00-2:00
Brooklyn, N. Y.—Su., 8:00-11:00; 15:00-20:00. 16:30-7:00; 10:00-
12:00. Tu., W., Th., F., 18:00-20:00
New York, N. Y.—.....
New York, N. Y.—*23:00-00:00. Su., 21:00-22:00. †9:00-10:00;
12:00-15:00
Greenville, S. C.—Su., 8:30-22:30. †7:30-22:30
Troy, N. Y.—M., 18:00-00:00
Miami, Fla.—Su., 8:00-00:00. †7:30-00:00

1310 kilocycles (228.9)

CHCK ak 50
CJLK ak 1000
CJLS ak 500
CKCV ak 100 F
KCRJ ak 100 D
KFPL dk 100 (25)
KFXR ak 100 (25)
KFYO dk 100 (25)
KGCX ak 100 (25)
KGEZ aj 100
KGFW ak 100
KINY ak 100
KIT ak 100 (25)
KIUJ ak 100
KMED ck 100 (25)
KPDN z 100 DP
KRMD ak 100
KROC z 100
KTSM ak 100
KVOL ak 100
KXRO ak 100
WAML ak 100
WBEO ae 100
WBOW ak 100 (25)
WBRE ak 100
WCLS ak 100

Charlottetown, P. E. I.—.....
Kirkland Lake, Ont.—.....
Yarmouth, N. S.—†9:00-12:00; 16:30-18:30
Quebec, Que.—Su., 12:00-23:00. †8:00-14:00; 17:00-23:00
Jerome, Ariz.—.....
Dublin, Texas—Su., 7:30-22:15. †7:00-22:30
Oklahoma City, Okla.—Su., 10:00-23:00. †7:00-1:00
Lubbock, Texas—Su., 9:00-14:00; 17:00-20:00. †8:00-22:15
Wolf Point, Mont.—Su., 13:30-15:45. †9:30-11:30; 14:00-17:00;
20:00-21:00
Kalispell, Mont.—Su., 11:00-18:00. †9:00-23:00
Kearney, Neb.—Su., 9:30-13:00. †8:00-14:30; 16:30-22:00
Juneau, Alaska—Su., 17:00-21:00. †12:00-18:00; 20:00-2:00. Sa.,
2:00-3:00
Yakima, Wash.—Su., 12:00-1:00. †10:00-2:00
Santa Fe, N. Mex.—Su., 12:30-18:30. †9:00-15:30; 18:30-00:00
Medford, Ore.—.....
Pampa, Texas—.....
Shreveport, La.—.....
Rochester, Minn.—.....
El Paso, Texas—Su., 10:00-11:30; 15:00-20:00. †8:30-00:30
Lafayette, La.—Su., 13:00-22:00. †8:00-15:00; 18:00-23:00
Aberdeen, Wash.—Su., 13:00-22:00; †10:30-1:00
Laurel, Miss.—.....
Marquette, Mich.—Su., 10:00-14:30. †10:30-17:30
Terre Haute, Ind.—Su., 9:30-23:00. †7:45-15:00; 17:00-00:00
Wilkes-Barre, Pa.—Su., 10:00-22:30. †8:00-23:30 (Sa. until 22:30)
Joliet, Ill.—Su., 10:00-21:30. †8:00-21:30 (Fr. until 23:30)

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WCMI	z	100	D
WDAH	ak	100	S
WEBR	aeH	100	(.25)
WEMP	z	100	D
WEXL	ak	50	.....
WFBG	ae	100	3
WFDF	mk	100	.....
WGH	aj	100	(.25)
WHAT	ak	100	4
WJAC	ae	100	3
WLBC	ak	100	6 (.25)
WLNH	ak	100	.....
WMBO	ak	100	.....
WMBF	ak	100	D (.25)
WNBH	ak	100	(.25) C
WOL	ak	100	.....
WRAW	ak	100	.....
WROL	ak	100	(.25)
WSAJ	ae	100	.....
WSGN	ak	100	(.25)
WSJS	ak	100	C
WTAL	ak	100	.....
WTEL	ce	100	4
WTJS	ak	100	(.25)
WTRC	ak	100	6 (.25)
XEAJ	z	15	.....
XECW	z	10	.....
XEFW	ak	250	.....
XFTB	ak	125	.....
XEX	ak	125	.....
XFA	z	5	.....
.....	z	100	P

Ashland, Ky.—Su., 9:30-00:00. †6:30-00:00
El Paso, Texas—Su. only, 11:30-14:00; 21:30-23:00
Buffalo, N. Y.—Su., 8:30-00:00. †7:00-00:00
Milwaukee, Wis.—.....
Royal Oak, Mich.—Su., 8:30-00:00. †00:00-4:00; 8:00-00:00
Altoona, Pa.—Su., 10:45-16:30. †10:30-16:30. Tu., Th., F., 19:30-22:30. W., 20:45-00:00. Sa., 18:15-21:15
Flint, Mich.—Su., 9:00-00:00. †7:00-00:00
Newport News, Va.—Su., 8:30-22:30. †7:00-23:00. (Sa. until 00:00)
Philadelphia, Pa.—Su., 7:00-10:15. †13:00-14:00. Su., Tu., 20:00-00:00. M., W., F., 9:00-10:30; 11:30-12:00. M., F., 17:00-18:30. Tu., Sa., 9:00-12:00. W., 17:00-00:00. Th., 9:00-11:00. Sa., 13:00-16:00; 21:00-00:00
Johnstown, Pa.—*8:00-10:30. Sa., Su., 16:30-18:15. Tu., Th., F., 16:30-19:30. W. until 20:45. M. until 00:00. Sa., 21:15-00:00
Muncie, Ind.—Su., 9:30-17:30. †8:00-19:00; 20:30-00:00
Laconia, N. H.—Su., 9:00-23:00. †8:00-23:00
Auburn, N. Y.—Su., 10:30-14:00; 18:00-20:30. †8:00-20:00
Plattsburg, N. Y.—Su., 10:30-16:00. †8:00-16:00
New Bedford, Mass.—Su., 8:45-23:30. †7:45-23:30
Washington, D. C.—Su., 9:00-00:00. †7:00-00:00
Reading, Pa.—.....
Knoxville, Tenn.—.....
Grove City, Pa.—Su., 16:30-17:30. Tu., Th., 19:15-20:15
Birmingham, Ala.—*8:00-22:00
Winston-Salem, N. C.—*8:00-00:00
Tallahassee, Fla.—*7:00-23:00
Philadelphia, Pa.—Su., 12:30-15:00; 17:00-20:00. †7:00-9:00, 12:00-13:00. M., 18:30-20:00. Tu., 17:00-20:30. Th., 17:00-00:00. F., 18:30-21:00. Sa., 16:00-21:00
Jackson, Tenn.—.....
Elkhart, Ind.—Su., 12:00-13:00; 18:00-22:00. †9:00-15:00; 18:30-20:30
Oaxaca, Oax.—.....
Mexico City, D. F.—.....
Tampico, Tams.—.....
Torreon, Coah.—*13:00-18:00. †20:30-23:00
Monterrey, N. L.—.....
Aguascalientes, Ags.—.....
Lakeland, Fla.—.....

1320 kilocycles (227.1)

CMOX	ak	250	.....
KGHF	ak	500	.....
CKMB	ak	1000	C
KID	ae	250	(.5)
KRNT	ak	500	C (1)
WADC	ae	1000	C (2.5)
WOKR	ak	1000	.....
WSMB	ak	500	N

Havana, Cuba—Su., 10:00-12:00; 20:00-23:00. †12:00-00:00
Pueblo, Colo.—.....
Honolulu, T. H.—Su., 12:00-3:45. †11:30-4:00 (Su. until 5:00)
Idaho Falls, Idaho—*11:00-23:00
Des Moines, Iowa—Su., 8:30-1:00. †7:00-1:00
Akron, Ohio—.....
York, Pa.—.....
New Orleans, La.*8:00-1:00. Su. until 2:00

1330 kilocycles (225.4)

CMHK	z	250	.....
KGB	ag	1000	C (2.5)
KMO	ak	250	.....
KSCJ	aj	1000	1C (2.5)
WDRG	ae	1000	C (2.5)
WSAI	ak	1000	R (2.5)
WTAQ	ae	1000	1

Crucos, Cuba—.....
San Diego, Calif.—Su., 11:00-3:00. †10:00-4:00
Tacoma, Wash.—.....
Stoux City, Iowa—.....
Hartford, Conn.—Su., 8:45-00:00. †8:00-00:00
Cincinnati, Ohio—Su., 8:00-00:00. †7:00-00:00
Eau Claire, Wis.—Su., 11:30-18:45. †8:00-21:00

1340 kilocycles (223.7)

CMJL	z	100	.....
HRN	z	50	.....
KGDY	ak	250	D
KGIR	ak	1000	N (2.5)
KGNO	ak	250	.....
WCAO	ak	500	C
WFEA	ae	500	C (1)
WSPD	ae	1000	C (2.5)
XFD	z	350	.....

Camaguey, Cuba—.....
Tegucigalpa, Hond.—.....
Huron, S. D.—Su., 10:00-16:00. †8:00-19:00
Butte, Mont.—Su., 11:00-1:00. †10:00-1:00
Dodge City, Kans.—.....
Pensacola, Fla.—Su., 9:00-00:00. †8:30-00:00
Manchester, N. H.—.....
Toledo, Ohio—Su., 8:00-1:00. †7:00-1:00
Jalapa, Ver.—.....

1350 kilocycles (222.1)

CMCA	z	250	.....
KIDO	ak	1000	(.25)

Havana, Cuba—.....
Boise, Idaho—.....

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KWK ak 1000 B (5)
WAWZ ae 500 1 (1)

WBXN ae 250 1

1360 kilocycles (220.4)

CMJH dk 100
KCRC ak 250
KGER ak 1000
WCSC ak 500 (1)

WFBL ak 1000 C (5)
WGES ae 500 1

WQBC ak 1000 D

WSBT ak 500 1

1370 kilocycles (218.8)

CKCW ak 100 F
GMGE ak 50
KAST ak 100 D
KELD z 100
KERN ak 100
KFGQ ak 100
KFJM ak 100 (.25)
KFJZ ae 100
KFRQ ak 100 D
KGAR ae 100 (.25)
KGFG bk 100
KGFL ak 100 4

KGKL ak 100 (.25)
KICA ak 100 4
KIUP ak 100 P
KLUF z 100 (.25)
KMAC ak 100 5

KONO ak 100 5

KRE ak 100 (.25)
KRKO ak 50 1
KSLM ak 100
.....

KUJ ak 100
KVL ak 100 1
KWKC ak 100
KWYO ak 100
WABY aj 100
WAGF ak 250 D
WATL ak 100
WBNY z 100 2P (.25)
WBTM ak 100 (.25)
WCBM ae 100 (.25)
WDAS ae 100 (.25)
WEOA z 100 P
WGL ae 100 1

WHBQ ak 100
WHDF ak 100 (.25)
WHLB z 100 P
WIBM ak 100 (.25)
WLLH ak 100 (.25)
WMBR ak 100 C (.25)
WMFD ak 100 D
WMFO ak 100 D
WOC ak 100 C (.25)
WPAY ak 100
WPFB ak 100
WQDM ae 100 D
WRAK ak 100 (.25)
WRDO ae 100
WRJN ak 100 (.25)
WSVS ak 50 D2
XEFZ ak 100
XEI ak 125

St. Louis, Mo.—.....
Zarephath, N. J.—Su., 11:00-12:30; 15:00-16:30. Su., M., W., Th.,
F., 6:00-9:00. Su., M., W., 19:00-20:30. Tu., Th., F., Sa., 17:00-
18:30. Sa., 7:45-8:45
New York, N. Y.—.....

Ciego de Avila, Cuba—*8:00-9:30; 10:00-14:00; 17:00-22:00
Enid, Okla.—.....
Long Beach, Calif.—.....
Charleston, S. C.—Su., 9:00-15:30; 18:00-21:30. †8:00-15:30; 17:00-
22:00
Syracuse, N. Y.—.....
Chicago, Ill.—Su., 9:00-18:00; M., 00:00-2:00. †8:00-13:00; 16:30-
21:00
Vicksburg, Miss.—Su., 11:00-12:00; 13:00-15:00. †9:00-11:00;
13:00-18:00
South Bend, Ind.—.....

Moncton, N. B.—*7:00-8:30; 11:00-13:00; 16:00-18:30
Cardenas, Cuba—†11:00-14:00; 18:00-22:30
Astoria, Ore.—†10:00-21:30
El Dorado, Ark.—.....
Bakersfield, Calif.—Su., 11:00-3:00. †10:00-3:00
Boone, Iowa—.....
Grand Forks, N. D.—Su., 11:30-21:00. †9:00-21:00
Fort Worth, Texas—*8:00-00:00
Longview, Texas—Su., 9:00-ss. †7:00-ss
Tucson, Ariz.—.....
Oklahoma City, Okla.—.....
Roswell, N. M.—Su., 13:00-14:30; 18:30-20:00. †9:00-11:30; 14:00-
15:00; 18:00-21:30
San Angelo, Texas—Su., 9:45-15:00. †9:00-22:30
Clovis, N. M.—Su., 13:00-18:30. †9:00-18:30; 21:30-23:30
Durango, Colo.—Su., 12:00-18:00. †9:00-1:00
Galveston, Texas—.....
San Antonio, Texas—Su., 8:00-10:00; 12:00-13:30; 15:00-17:00;
19:00-21:00. 23:00-1:30. †8:00-9:30; 11:00-12:00; 13:00-14:30;
17:00-19:00; 20:00-21:00; 23:00-1:30
San Antonio, Texas—Su., 10:00-12:00; 13:30-15:00; 17:00-19:00;
21:00-23:00. †7:00-8:00; 9:30-11:00; 14:30-17:00; 19:00-20:00;
21:00-23:00
Berkeley, Calif.—Su., 10:00-3:00. †9:00-3:00
Everett, Wash.—.....
Salem, Ore.—M., Th., F., 12:00-00:00. Su., 12:00-1:00. W., 12:00-
1:30. Tu., Sa., 12:00-2:00
Walla Walla, Wash.—Su., 10:45-1:00. M., 9:30-1:00
Seattle, Wash.—Su., 19:00-1:30. †15:00-19:30; 22:00-1:30
Kansas City, Mo.—*7:00-10:00; 13:00-16:00; 19:00-22:00
Sheridan, Wyo.—.....
Albany, N. Y.—†7:00-00:00
Dothan, Ala.—*9:00-18:15
Atlanta, Ga.—Su. 9:00-1:00. †7:30-1:00
Buffalo, N. Y.—.....
Danville, Va.—Su., 10:00-13:00. †7:00-14:00; 17:00-22:00
Baltimore, Md.—.....
Philadelphia, Pa.—*7:30-00:00
Evansville, Ind.—.....
Fort Wayne, Ind.—Su., 14:00-16:00; 18:00-21:30. †7:30-10:30;
12:45-14:30; 18:00-1:00
Memphis, Tenn.—.....
Calumet, Mich.—.....
Virginia, Minn.—.....
Jackson, Mich.—*7:00-00:45
Lowell, Mass.—Su., 8:00-23:15. †7:30-00:00
Jacksonville, Fla.—Su., 8:00-00:00. 17:00-00:00
Wilmington, N. C.—Su., 10:00-14:00; 17:00-19:00. †7:30-17:45
Decatur, Ala.—Su., 10:45-18:15. †8:00-18:15
Davenport, Iowa—Su., 10:00-1:00. †8:00-1:00
Portsmouth, Ohio—.....
Hattiesburg, Miss.—Su., 12:00-17:30; 20:00-22:00. †8:00-22:00
St. Albans, Vt.—.....
Williamsport, Pa.—Su., 17:30-22:00. †7:30-20:00
Augusta, Maine—Su., 8:30-15:00; 16:00-23:30. †8:00-23:30
Racine, Wis.—Su., 9:00-23:30. †8:45-23:45
Buffalo, N. Y.—†8:30-10:30. M., 14:00-15:00
Mexico City, D. F.—*20:00-3:00
Morelia, Mich.—.....

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

XEZZ z 100 San Luis Potosi, SLP.

1380 kilocycles (217.3)

CMBX ak 500	Havana, Cuba—Su., 1:00-5:00. †8:00-00:00
KOH ak 500 C	Reno, Nev.—*11:00-3:00
KOV ae 500	Pittsburgh, Pa.—Su., 9:00-00:00. †7:00-00:00
WALA af 500 C (1)	Mobile, Ala.—Su., 10:00-00:00. †9:00-00:00
WKBH ae 1000	LaCrosse, Wis.—Su., 11:00-22:30. †8:30-00:00
WNBC mk 250 D	New Britain, Conn.—Su., 8:00-17:15. †7:00-17:15
WSMK ak 250 C	Dayton, Ohio—Su., 8:00-1:00. †7:00-19:30; 22:00-1:00

1390 kilocycles (215.7)

CJRC ak 100 F	Winnipeg, Man.—Su. 12:00-5:00; 20:00-22:00. †8:30-24:00
CMJC z 150	Camaguey, Cuba
HHH ak 15 1395	San Ped. de Macoris, D.R.
KLRA ae 1000 C (2.5)	Little Rock, Ark.
KOOS ae 250	Marshfield, Ore.—Su., 15:00-22:00. †11:00-23:00
KOY ae 500 (1)	Phoenix, Ariz.—Su., 11:00-00:15. †9:00-00:15
WHK ae 1000 C (2.5)	Cleveland, Ohio—Su., 8:00-00:00. †7:30-00:00

1400 kilocycles (214.2)

CMGC z 100	Matanzas, Cuba
CMKR z 100	Santiago, Cuba
KLO ak 500	Ogden, Utah—Su., 11:00-23:30. †10:30-23:30
KTUL ak 500 C (1)	Tulsa, Okla.
TGX ak 250	Guatemala City, Gt.—Su., 14:00-16:00. †8:00-11:30; 14:00-16:00; 20:00-00:00
WARD ak 500 2	Brooklyn, N. Y.—Su. 10:30-11:00; 19:00-21:00; M., 11:00-13:30; 18:00-19:30; Tu., 15:45-18:00; 21:00-22:30. W., 7:00-11:00; 19:30-21:00. Th., 13:30-15:45; 21:00-22:30. F., 11:15-13:30; 18:00-19:30. Sa., 15:45-18:00; 22:30-1:00
WBBC ae 500 2 (1)	Brooklyn, N. Y.
WIRE ak 500 R (1)	Indianapolis, Ind.—Su., 9:00-1:00. †8:00-1:00
WLTH ak 500 2	Brooklyn, N. Y.—Su., 11:00-12:00; 13:30-14:00; 15:00-16:30. M. 22:30-00:00; Tu., 11:30-13:30; 19:30-21:00. W., 16:00-18:00; 22:00-00:00; Th., 7:00-11:30; 18:00-19:30. F., 13:30-16:00; 21:00-22:00. Sa., 11:00-13:30; 18:00-19:30
WVFW ak 500 2	Brooklyn, N. Y.—Su., 12:00-13:15; 16:30-19:00. M., 7:00-11:00; 19:30-21:00. Tu., 13:30-15:45; 22:30-1:00. W., 11:00-13:30; 18:00-19:30. Th., 15:45-18:00; 22:30-1:00. F., 7:00-11:15; 19:30-21:00. Sa., 13:30-15:45; 21:00-22:30

1410 kilocycles (212.6)

CHNC ak 500 F (1)	New Carlisle, Que.—Su., 10:00-12:00; 17:00-23:00. †8:00-9:00, 11:00-12:00; 16:30-22:30
CKFC ak 50 5	Vancouver, B. C.
CKMO ag 100 5F	Vancouver, B. C.
CMCR z 150	Havana, Cuba
KGNC ae 1000 (2.5)	Amarillo, Texas
WAAB ak 500 C	Boston, Mass.—Su., 9:30-23:00. †7:30-00:00
WBCM ae 500	Bay City, Mich.—Su., 9:00-00:45. †8:45-00:45
WBHL ae 500 4Z	Sheboygan, Wis.
WHIS ak 250 (5)	Bluefield, W. Va.
WRQK ak 500 4	Rockford, Ill.—*11:00-14:00; 17:00-19:00; 21:00-23:30
WSFA ak 500 C (1)	Montgomery, Ala.—*7:30-23:30

1420 kilocycles (211.1)

CKGB ak 100	Timmins, Ont.
CMGI z 50	Matanzas, Cuba
KABC ak 100 (2.5)	San Antonio, Texas
KABR ak 100	Aberdeen, S. Dak.
KALB z 100 D	Alexandria, La.
KBPS aj 100 4	Portland, Ore.—†14:00-15:30; 18:00-20:00
KCMC ak 100	Texarkana, Ark.
KFIZ ak 100	Fond du Lac, Wis.—†10:00-14:00; 17:00-22:00
KGFF ak 100 (2.5)	Shawnee, Okla.
KGGC ak 100	San Francisco, Calif.—Su., 12:00-15:30; 17:30-20:00; 22:00-1:00. †12:00-16:00; 19:00-2:00
KGIW ak 100 1	Alamosa, Colo.—†9:00-16:00; 20:00-23:00
KHBC z 100	Hilo, T. H.
KIDW ak 100 1	Lamar, Colo.—Su., 13:00-17:30. †9:00-14:00; 17:00-20:00
KIUN ak 100	Pecos, Texas—Su., 8:00-13:00; 17:00-20:00. †8:00-15:00; 17:00-23:00
KNET z 100 DP	Palestine, Texas
KORE ae 100	Eugene, Ore.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KRLC	ak	100	.....	Lewiston, Idaho—Su., 11:00-1:00. †9:30-1:00
KRLH	z	100	DP	Midland, Tex.
KUMA	ak	100	.....	Yuma, Ariz.
KWBG	ak	100	.....	Hutchinson, Kans. —*8:00-20:00
KXL	ak	100	.....	Portland, Ore. —*10:00-14:00; 15:30-18:00; 20:00-4:00
WAGO	ak	100	4 (25)	Waco, Texas—Su., 9:00-23:00. †8:00-00:00
WAGM	ae	100	C	Presque Isle, Maine—Su., 10:00-12:00. †11:00-13:00; 16:00-19:00
WAZL	ak	100	.....	Hazleton, Pa.—Su., 11:45-19:30. †10:30-14:30; 16:00-22:00
WCBS	ak	100	2	Springfield, Ill.—*8:00-23:00
WEDF	ak	100	.....	Rocky Mount, N. C.—Su., 8:00-17:00; *20:00-22:00. †7:00-16:00
WEHC	ak	100	3	Charlottesville, Va.—Su., 10:00-12:00. †7:00-13:00; 16:00-20:00
WEHS	ak	100	3 (25)	Cicero, Ill.
WELL	ak	100	a	Battle Creek, Mich.—Su., 10:00-00:00. †7:30-00:00
WGPC	ak	100	.....	Albany, Ga.—Su., 9:00-15:00. †8:00-22:00
WHDL	ak	100	.....	Olean, N. Y.—Su., 8:00-ss. †7:00-ss
WHLI	ae	100	D	Cicero, Ill.
WILM	aj	100	a	Wilmington, Del.
WJBO	z	100	2	Baton Rouge, La.—Su. 10:00-18:00. †7:45-23:00
WJBR	ak	100	.....	Gastonia, N. C.
WJMS	ak	100	P	Ironwood, Mich.—Su., 11:00-20:00. †8:30-20:30
WKBI	ak	100	.....	Cicero, Ill.
WLAP	ak	100	a	Lexington, Ky.—Su., 10:00-23:00. †8:00-23:00
WLBK	ak	100	(25)	Kansas City, Kan.—Su., 10:00-00:00. †8:00-23:00 (Th. until 00:00)
WLEU	ak	100	.....	Erle, Pa.—Su., 10:00-23:00. †8:00-23:00
WMAS	ak	100	(25)	Springfield, Mass.—Su., 8:00-00:00. †7:30-00:00
WMBC	ae	100	C (25)	Detroit, Mich.—Su., 9:45-00:00. †7:30-00:00. M., W., F., until 00:30
WMBH	ak	100	(25)	Joplin, Mo.—Su., 9:00-22:30. M., 8:00-23:00. Other days, 8:00-23:00
WMFJ	ak	100	.....	Daytona Beach, Fla.—*8:00-00:00
WNRA	ak	100	.....	Sheffield, Ala.
WPAD	ak	100	(25)	Paducah, Ky.
WPAR	ak	100	.....	Parkersburg, W. Va.—Su., 10:45-18:30. M., W., F., 8:00-22:00. Tu., Th., 8:00-23:00. Sa., 8:00-1:00
WPRP	z	100	P (25)	Ponce, P. R.
XEAZ	z	7	.....	Guanajuato, Gto.
XEFB	ak	100	.....	Monterrey, N. L.—Su., 9:00-16:00. †11:00-15:00. M., Tu., Th., F., 18:00-22:00. W., Sa., 18:00-23:40

1430 kilocycles (209.7)

CMJP	ak	100	.....	Camaguey, Cuba—
KECA	ah	1000	(5) N	Los Angeles, Calif.—Su., 11:00-2:00. †10:00-2:00
KGNF	ak	1000	D	North Platte, Neb.—†8:00-ss
KSO	ak	500	B (1)	Des Moines, Iowa—Su., 8:00-2:00. †7:30-2:00
WBNS	ae	500	C (1)	Columbus, Ohio—Su., 7:30-00:00. †6:30-00:00
WHCC	ae	500	C (1)	Rochester, N. Y.—Su., 9:00-00:00. †8:00-00:00
WHP	ak	500	C (1)	Harrisburg, Pa.—Su. 9:00-00:00. †8:00-00:00
WNBR	ae	500	(1)	Memphis, Tenn.—Su., 10:00-21:30. †8:30-22:15
WOKO	aj	500	C (1)	Albany, N. Y.—*8:00-1:00

1440 kilocycles (208.2)

HP50	z	25	.....	Colon, Panama—
KDFN	ak	500	.....	Casper, Wyo.—Su., 12:00-13:00. †9:30-15:30; 17:00-23:00
KLS	ag	250	D	Oakland, Calif.—Su., 11:00-19:30. †10:00-21:00
KXYZ	ak	1000	.....	Houston, Texas—Su., 9:00-23:30. †7:00-23:30
TIFS	z	7.5	(1441)	Cartago, C. R.
WBIG	ae	500	C (1)	Greensboro, N. C.—Su., 8:00-23:00. †7:00-23:00
WCBA	aj	500	a	Allentown, Pa.—
WMBD	ak	500	C (1)	Peoria, Ill.—Su., 9:00-1:00. †7:00-1:00
WSAN	aj	500	a	Allentown, Pa.
XEFI	ae	250	.....	Chihuahua, Chih.

1450 kilocycles (206.8)

CFGT	ae	75	.....	Victoria, B. C.—
CHGS	ae	50	F	Summerside, P.E.I.—Su., 10:00-12:00; 14:30-22:00. †6:30-7:45; 9:30-13:00; 15:00-22:00
KIEM	ak	500	.....	Eureka, Calif.—
KTBS	ak	1000	N	Shreveport, La.—Su., 9:00-1:00. †7:30-1:00
WGAR	ak	500	B (1)	Cleveland, Ohio—Su., 8:00-00:00. †7:00-00:00. (Sa. until 1:00)
WHOM	ae	250	.....	Jersey City, N. J.—*7:00-00:00
WSAR	ae	1000	.....	Fall River, Mass.—*8:00-15:30; 17:00-22:15
WTFI	ak	500	Athens, Ga.—Su., 9:00-13:15. †8:00-20:00. (F. until 20:30)

1460 kilocycles (205.4)

CMKF	z	50	Holguin, Cuba—
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KSTP ak 25000 N
WJSV ak 10000 C

St. Paul, Minn.—Su., 9:00-1:00. †7:45-1:15
Washington, D. C.—Su., 8:00-1:00. †6:30-1:00

1470 kilocycles (204.0)

CMOK z 150
KGA ak 5000 N
WLAC ak 5000 C

Havana, Cuba.....
Spokane, Wash.....
Nashville, Tenn.....

1480 kilocycles (202.6)

KOMA ak 5000 C
WKBW ck 5000 C

Oklahoma City, Okla.—Su., 9:00-1:00. †8:00-1:00
Buffalo, N. Y.—Su., 9:00-1:00. †7:00-1:00

1490 kilocycles (201.2)

KFBK ak 5000 C
WCKY ae 5000 B

Sacramento, Calif.—Su., 11:00-3:00. †10:00-3:00
Covington, Ky.—Su., 8:00-00:00. †7:00-00:00

1500 kilocycles (199.9)

CJJC ak 100
CMGN z 150
KDB ak 100 C
KGFI ak 100 (.25)
KGFK ak 100 Y
KGKB ak 100
KGKY ak 100 (.25)
KNEL z 100 DP
KNOW ak 100
KOTN ak 100 D
KPLC ak 100
KPO ak 100 (.25)
KREG ak 100
KRNR z 100 DP
KXO ae 100
WCNW ak 100 I (.25)

Sault Ste. Marie, Ont.—*11:00-14:00; 17:00-20:00
Havana, Cuba.....
Santa Barbara, Calif.—Su., 11:00-3:00. †10:00-3:00
Corpus Christi, Tex.....
Moorhead, Minn.—Su., 10:00-22:00. †9:00-22:00
Tyler, Texas—*9:00-15:00; 18:00-00:00
Scottsbluff, Neb.—Su., 12:00-14:00. †9:00-17:00; 19:00-23:00
Brady, Texas.....
Austin, Texas—Su., 9:00-22:00. †8:00-15:00; 17:00-23:00
Pine Bluff, Ark.—Su., 11:00-ss. †8:00-ss
Lake Charles, La.—*18:00-22:00. Su., 8:45-15:00. †8:00-15:00
Wenatchee, Wash.—Su., 12:00-00:00. †10:00-2:00
Santa Ana, Calif.—Su., 14:00-15:45; 21:30-2:00. †12:00-2:00
Roseburg, Ore.....
El Centro, Calif.....
Brooklyn, N. Y.—Su., 9:00-11:00; 23:00-1:00. †14:00-18:00. M., F., 20:00-22:00. W., 22:00-1:00. Th., 18:00-20:00. Sa., 18:00-21:00
Durham, N. C.....
Lancaster, Pa.....
Selma, Ala.....
Kosciusko, Miss.—Su., 9:00-19:00. †7:30-22:00
Detroit, Mich.—Su., 9:00-00:00. †7:00-00:00
E. Dubuque, Ill.—Su., 10:00-15:00. †8:00-22:00
Richmond, Ind.—†11:00-13:00; 19:00-23:00
Muskegon, Mich.—*7:30-22:00
Griffin, Ga.—Su., 10:00-18:00. †8:00-18:00
Brooklyn, N. Y.—Su., 7:00-23:00. †9:00-11:00. M., Th., 12:00-14:00. M., W., F., 18:00-20:00. Tu., 20:00-00:00. Th., 20:00-22:00
Boston, Mass.....
Binghamton, N. Y.....
Bristol, Tenn.—Su., 10:30-21:30. †7:00-21:30. (Sa. until 23:00)
Augusta, Ga.....
Rome, Ga.....
Rutland, Vt.—Su., 10:00-11:00. †10:00-13:00; 17:00-21:00
East St. Louis, Ill.—Su., 9:00-00:00. †7:00-00:00 (Th., F., to 23:00 only)
Woodside, N. Y.—*8:00-9:00. †11:00-12:00. Tu., W., F., Sa., 12:00-14:00. Su., 11:00-19:00. M., Th., F., 22:00-00:30. Tu., 18:00-20:00.
W., 20:00-22:00. Sa., 21:00-1:00
Pittsburgh, Pa.—Su., 9:30-22:00. †7:00-23:00
Muskogee, Okla.....

WDNC ae 100 C
WGAL ae 100 (.25)
WHBB z 100 D
WHEF ak 100 (.25)
WJBK ae 100 (.25)
WKBB ak 100 (.25)
WKBV ak 100
WKBZ ak 100 (.25)
WKUE ak 100
WMBQ ae 100 I

WMEX ak 100 (.25)
WNEF ae 100 C
WOPI ae 100
WRDW ak 100
WRGA ak 100 (.25)
WSYB ak 100
WTMV ak 100

WWRL ak 100 I (.25)

WWSW ae 100 (.25)
..... z 100 P

1510 kilocycles (198.6)

CFRC ak 100
CKCR ak 100

Kingston, Ont.—Irregular
Waterloo, Ont.—Su., 10:00-14:00; 17:00-23:00. †8:00-14:00; 17:00-00:00

1530 kilocycles (196.0)

W1XBBS z 1000
W9XBY ak 1000

Waterbury, Conn.....
Kansas City, Mo.—Su., 9:00-3:00. †8:00-3:00

1550 kilocycles (193.4)

W2XR z 1000
W6XAI ak 1000

Long Isl. City, N. Y.—†17:00-20:00
Bakerfield, Calif.—Su., 11:00-2:00. †15:00-2:00

KEY TO SYMBOLS

As Shown In the Index by
Frequencies and Dial Numbers

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

Time on the Air

The time is given in accordance with the "24-hour clock." Noon is always 12:00, but midnight may be either 0:00 or 24:00. To change to time of your own clock, subtract twelve. Thus, 18:00-24:00 is 6:00 p. m. to midnight. 23:00-0:30 is 11:00 p. m. to 12:30 a. m. A signifies Atlantic Standard Time (AST). E is Eastern Standard Time (EST). C is Central Standard Time (CST). P is Pacific Standard Time (PST). L is Local Standard Time (LST).

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	Tucson	Burbank	Sacramento
Birmingham	KGAR 1370 100	KELW 780 500	KFBK 1490 5000 C
WAPI 1140 5000 N	KVOA 1260 500	Chico	San Bernardino
WBRC 930 1000 C	Yuma	KHSL 950 250	KFXM 1210 100
WSGN 1310 100	KUMA 1420 100	Del Monte	San Diego
Decatur	ARKANSAS	KDON 1210 100	KFSD 600 1000 N
WMFO 1370 100	Blytheville	El Centro	KGB 1330 1000 C
Dothan	KLCN 1290 100	KXO 1500 100	San Francisco
WAGF 1370 250	El Dorado	Eureka	KFRC 610 100 C
Gadsden	KELD 1370 100	KIEM 1450 500	KGCC 1420 100
WJBY 1210 100	Fayetteville	Fresno	KGO 790 7500 N
Mobile	KUOA 1260 1000	KMJ 580 1000 C	KJBS 1070 500
WALA 1380 500 C	Fort Smith	Glendale	KPO 680 50000 N
Montgomery	KFPW 1210 100	KIEV 850 100	KSE0 560 1000
WSFA 1410 500 C	Hot Springs	Hollywood	KYA 1230 1000 N
Selma	KTHS 1060 10000 N	KFWB 950 1000	San Jose
WHBB 1500 100	Jonesboro	KMTR 570 1000	KQW 1010 1000
Sheffield	KBTM 1200 100	KNX 1050 50000	Santa Ana
WNRA 1420 100	Little Rock	Long Beach	KREG 1500 100
ALASKA	KARK 890 250	KFOX 1250 1000	Santa Barbara
Anchorage	KGHI 1200 100	KGER 1360 1000	KDB 1500 100 C
KFOD 780 250	KLRA 1390 1000 C	Los Angeles	Stockton
Juneau	KOTN 1500 100	KECA 1430 1000 N	KGDM 1100 1000
KINY 1310 100	Pine Bluff	KFAC 1300 1000	KWG 1200 100 C
Ketchikan	Texarkana	KFI 640 50000 N	COLORADO
KGBU 900 500	KCMC 1420 100	KFSG 1120 500	Altamasa
ARIZONA	CALIFORNIA	KFVD 1000 250	KGIW 1420 100
Jerome	Bakersfield	KGFJ 1200 100	Colorado Springs
KCRJ 1310 100	KERN 1370 100 C	KHJ 900 1000 C	KVOR 1270 1000 C
Lowell	W6XAI 1550 1000	KRKK 1120 500	Denver
KSUN 1200 100	Berkeley	KTM 780 500	KFEL 920 500
Phoenix	KRE 1370 100	Modesto	KLZ 560 1000 C
KOY 1390 500	Beverly Hills	KTRB 740 250	KOA 830 50000 N
KTAR 620 1000 N	KMPC 710 500	Oakland	KPOF 880 500
		KLS 1440 250	KVOD 920 500
		KLX 880 1000	Durango
		KROW 930 1000	KIUP 1370 100
		Pasadena	
		KPPC 1210 50	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Grand Junction KFJX 1200 100 Greeley KFKA 880 500 Lamar KIDW 1420 100 Pueblo KGHP 1320 500 Sterling KGEK 1200 100</p>	<p>Atlanta WATL 1370 100 WGST 890 500 C WSB 740 50000 N Augusta WRDW 1500 100 Columbus WRBL 1200 100 Griffin WKFU 1500 100 Macon WMZA 1180 1000 Rome WRGA 1500 100 Savannah WTQC 1260 1000 C Thomasville WPAX 1210 250</p>	<p>Quincy WTAD 900 500 Rockford WROK 1410 500 Rock Island WHRF 1210 100 Springfield WCBS 1420 100 WTAX 1210 100 Tuscola WQZ 1070 100 Urbana WTL 890 250 Waukegan WCBQ 1080 5000</p>	<p>Coffeyville KGGF 1010 1000 Dodge City KGNO 1340 250 Garden City KIUL 1210 100 Hutchinson KWBG 1420 100 Kansas City WLBK 1420 100 Lawrence KFKU 1220 1000 WREN 1220 100 B Manhattan KSAC 580 500 Topeka WIBW 580 1000 C Wichita KFH 1300 1000 C</p>
CONNECTICUT			
<p>Bridgeport WICC 600 500 C Hartford WDRC 1330 100 C WTIC 1040 50000 R 1200 100 New Britain WNBC 1380 250 New Haven WELI 900 500 Storrs WCAC 600 500 Waterbury WATR 1190 100 WIXBS 1530 1000</p>	<p style="text-align: center;">HAWAII</p> <p>Hilo KHBC 1420 100 Honolulu KCBM 1370 1000 C KGU 750 2500 N</p>		<p style="text-align: center;">INDIANA</p> <p>Anderson WHBU 1210 100 Elkhart WTRC 1310 100 Evansville WROA 1370 100 WGBF 630 500 Fort Wayne WGL 1370 100 C WWOV 1160 10000 C Gary WIND 560 1000 Hammond WVAE 1200 100 Indianapolis WPBM 1230 1000 C WIRE 1400 500 R Muncie WLBC 1310 100 Richmond WKBV 1500 100 South Bend WFAM 1200 100 WSBT 1360 500 C Terre Haute WBOW 1310 100 West Lafayette WBAA 890 1000</p>
DELAWARE			
<p>Wilmington WDEL 1120 250 WILM 1420 100</p>	<p style="text-align: center;">IDAHO</p> <p>Boise KIDO 1350 1000 Idaho Falls KID 1320 250 Lewiston KRLC 1420 100 Nampa KFSD 1200 100 Pocatello KSEI 900 250 Twin Falls KTFI 1240 1000</p>		<p style="text-align: center;">KENTUCKY</p> <p>Ashland WCMI 1310 100 Covington WKY 1490 5000 B Lexington WLAP 1420 100 Louisville WAVE 940 1000 N WHAS 820 50000 C Paducah WPAD 1420 100</p>
DISTRICT OF COLUMBIA			
<p>Washington WJSV 1460 10000 C WMAL 630 250 B WOL 1310 100 WRC 950 500 R</p>	<p style="text-align: center;">ILLINOIS</p> <p>Bloomington WJBC 1200 100 Carthage WCAZ 1070 100 Chicago WAAF 920 1000 WBDM 770 50000 C WCFL 970 5000 B WCRW 1210 100 WDCB 1210 100 WENR 870 50000 N WGES 1360 500 WGN 720 50000 WJJD 1130 20000 WLS 870 50000 N WMAQ 670 50000 N WMBI 1090 5000 WWSB 1210 100 Cicero WEHS 1420 100 WHFC 1420 100 WKBI 1420 100 Decatur WJBL 1200 100 East Dubuque WKFB 1500 100 East St. Louis WTMV 1500 100 Harrisburg WEBQ 1210 100 Joliet WCLS 1310 100 Peoria WMBD 1440 500 C</p>		<p style="text-align: center;">LOUISIANA</p> <p>Alexandria KALB 1420 100 Baton Rouge WIBO 1420 100 Lafayette KVOL 1310 100 Lake Charles KPLC 1500 100 Monroe KMLB 1200 100 New Orleans WBNO 1200 100 WDSU 1250 1000 WIBW 1200 100 WSMB 1320 500 N WWL 850 10000 C Shreveport KRMD 1310 100 KTBS 1450 1000 N KWKH 1100 1000 C</p>
FLORIDA			
<p>Clearwater WFLA 620 1000 N Daytona Beach WMFJ 1420 100 Gainesville WRUF 830 5000 Jacksonville WJAX 900 1000 N WMBR 1370 100 C Lakeland 1310 100 Miami WIOD 1300 1000 N WQAM 560 1000 C Orlando WDBO 580 1000 C Pensacola WCOA 1340 500 C St. Petersburg WSUN 620 1000 N Tallahassee WTAL 1310 100 Tampa WDAE 1220 1000 C West Palm Beach 1200 100</p>	<p style="text-align: center;">IOWA</p> <p>Ames WOI 640 5000 Boone KFGQ 1370 100 Cedar Rapids WMT 600 1000 B Council Bluffs KOIL 1260 1000 B Davenport WOC 1370 100 C Decorah KGCA 1270 100 KWLC 1270 100 Des Moines KRNT 1320 500 C KSO 1430 500 B WHO 1000 50000 R Iowa City WSUI 880 500 Marshalltown KFJB 1200 100 Shenandoah KFNF 890 500 KMA 930 1000 Sioux City KSCJ 1330 1000 C</p>		<p style="text-align: center;">MAINE</p> <p>Augusta WRDO 1370 100 Bangor WABI 1200 100 WLBZ 620 500 C Portland WCSH 940 1000 R Presque Isle WAGM 1420 100</p>
GEORGIA			
<p>Albany WGPC 1420 100 Athens WTFI 1450 500</p>	<p style="text-align: center;">KANSAS</p> <p>Abilene KFBI 1050 5000</p>		<p style="text-align: center;">MARYLAND</p> <p>Baltimore WBAL 1060 10000 B WCAO 600 500 C WGBM 1370 100 WFBZ 1270 500 R Cumberland WTBO 800 250 Frederick WFMD 900 500</p>

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Hagerstown WJEJ 1210 100</p> <hr/> <p style="text-align: center;">MASSACHUSETTS</p> <p>Babson Park WORI 920 500</p> <p>Boston WAAB 1410 500 C WBZ 990 50000 B WGOP 1120 500 WEI 590 1000 R WHDH 830 1000 WMEX 1500 100 WNAC 1230 1000 C</p> <p>Fall River WSAR 1450 1000</p> <p>Lowell WLLH 1370 100</p> <p>New Bedford WNBH 1310 100 C</p> <p>Springfield WBZA 990 1000 B WMAS 1420 100 C 1140 500</p> <p>Worcester WORC 1280 500 C WTAG 580 500 R</p> <hr/> <p style="text-align: center;">MICHIGAN</p> <p>Battle Creek WELL 1420 100</p> <p>Bay City WBCM 1410 500</p> <p>Calumet WHDF 1370 100</p> <p>Detroit WJBK 1500 100 WJR 750 50000 C WMBL 1420 100 WWJ 920 1000 R WXYZ 1240 1000 B</p> <p>East Lansing WKAR 850 1000</p> <p>Flint WFDF 1310 100</p> <p>Grand Rapids WASH 1270 500 N WOOD 1270 500 N</p> <p>Ironwood WJMS 1420 100</p> <p>Jackson WIBM 1370 100</p> <p>Kalamazoo WKZO 590 1000</p> <p>Lansing WJIM 1210 100</p> <p>Lapeer WMPC 1200 100</p> <p>Marquette WBEO 1310 100</p> <p>Muskegon WKBZ 1500 100</p> <p>Royal Oak WEXL 1310 50</p> <hr/> <p style="text-align: center;">MINNESOTA</p> <p>Fergus Falls KGDE 1200 100</p> <p>Hibbing WMFG 1210 100</p> <p>Minneapolis WCCO 810 50000 C WDGY 1180 1000 WLB 1250 1000 WTCN 1250 1000</p> <p>Moorhead KGFK 1500 100</p>	<p>Northfield WCAL 1250 1000</p> <p>Rochester KROC 1310 100</p> <p>St. Paul KSTP 1460 25000 N</p> <p>Virginia WHLB 1370 100</p> <hr/> <p style="text-align: center;">MISSISSIPPI</p> <p>Clarksdale WMFN 1210 100</p> <p>Gulfport WGCM 1210 100</p> <p>Hattiesburg WPEB 1370 100</p> <p>Jackson WJDX 1270 1000 N</p> <p>Kosciusko WHEF 1500 100</p> <p>Laurel WAML 1310 100</p> <p>Meridian WOCM 880 500</p> <p>Mississippi City WGCM 1120 500</p> <p>Vicksburg WQBC 1360 1000</p> <hr/> <p style="text-align: center;">MISSOURI</p> <p>Cape Girardeau KFVS 1210 100</p> <p>Columbia KFRU 630 500</p> <p>Jefferson City WOS 630 500</p> <p>Joplin WMBH 1420 100</p> <p>Kansas City KMBC 950 1000 C KWKX 1370 100 WDAF 610 1000 R</p> <p>WIB 860 1000 W9XBY 1530 1000</p> <p>St. Joseph KFEQ 680 2500</p> <p>St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B WEW 760 1000 WIL 1200 100</p> <p>Springfield KGRX 1230 500 KWTO 560 5000</p> <hr/> <p style="text-align: center;">MONTANA</p> <p>Billings KGHL 780 1000 N</p> <p>Butte KGR 1340 1000 N</p> <p>Great Falls KFRB 1280 1000</p> <p>Kalispell KGEZ 1310 100</p> <p>Missoula KGVO 1260 1000</p> <p>Wolf Point KGXC 1310 100</p> <hr/> <p style="text-align: center;">NEBRASKA</p> <p>Clay Center KMMJ 740 1000</p> <p>Kearney KGFV 1310 100</p>	<p>Lincoln KFAB 770 10000 C KFOR 1210 100 C</p> <p>Norfolk WJAG 1060 1000</p> <p>North Platte KGNF 1430 1000</p> <p>Omaha WAAW 660 500 WOW 590 5000 R</p> <p>Scottsbluff KGGY 1500 100</p> <p>York KGBZ 930 1000</p> <hr/> <p style="text-align: center;">NEVADA</p> <p>Reno KOH 1380 500 C</p> <hr/> <p style="text-align: center;">NEW HAMPSHIRE</p> <p>Laconia WLNI 1310 100</p> <p>Manchester WFEA 1340 500 C</p> <p>Portsmouth WHEB 740 250</p> <hr/> <p style="text-align: center;">NEW JERSEY</p> <p>Asbury Park WCAP 1280 500</p> <p>Atlantic City WPG 1100 5000 C</p> <p>Camden WCAM 1280 500</p> <p>Jersey City WAAT 940 500 WHOM 1450 250</p> <p>Newark WHRI 1250 1000 WNEW 1250 1000 WOR 710 50000</p> <p>Red Bank WBRB 1210 100</p> <p>Trenton WTNJ 1280 500</p> <p>Zarephath WAWZ 1350 500</p> <hr/> <p style="text-align: center;">NEW MEXICO</p> <p>Albuquerque KGGM 1230 250 KOB 1180 10000</p> <p>Clovis KICA 1370 100</p> <p>Roswell KGFL 1370 100</p> <p>Santa Fe KIUJ 1310 100</p> <hr/> <p style="text-align: center;">NEW YORK</p> <p>Albany WABY 1370 100</p> <p>WOKO 1430 500 C</p> <p>Auburn WMBO 1310 100</p> <p>Binghamton WNBK 1500 100</p> <p>Brooklyn WARD 1440 500 WBBC 1400 500 WBBR 1300 1000 WCNV 1500 100 WLTH 1400 500 WMBQ 1500 100</p>	<p>WVFW 1400 500</p> <p>Buffalo WBEN 900 1000 R WBRB 1310 100 WGR 550 1000 C WKBW 1480 5000 C WWSV 1370 50 WBNY 1370 100</p> <p>Canton WCAD 1220 500</p> <p>Chester WGNV 1210 100</p> <p>Elmira WESG 850 1000 C</p> <p>Freeport WGBB 1210 100</p> <p>Jamestown WOCL 1210 50</p> <p>Long Island City W2XR 1550 1000</p> <p>New York WABC 860 50000 C WBNX 1350 250 WBOQ 860 50000 WEAF 660 50000 R WEVD 1300 1000 WFB 1300 1000 WHN 1010 1000 WINS 1180 1000 WJZ 760 50000 B WLWL 1100 5000 WMCA 570 500 WNYC 810 1000 WOV 1130 1000</p> <p>Olean WHDL 1420 100</p> <p>Plattsburg WMFF 1310 100</p> <p>Rochester WHAM 1150 50000 B WHCC 1430 500 C WSAY 1210 100</p> <p>Saranac Lake WNBZ 1290 100</p> <p>Schenectady WGY 790 50000 R</p> <p>Syracuse WFBL 1360 1000 C WSYR 570 250 B</p> <p>Troy WHAZ 1300 500</p> <p>Utica WIBX 1200 100 C</p> <p>White Plains WFAS 1210 100</p> <p>Woodside WWRL 1500 100</p> <hr/> <p style="text-align: center;">NORTH CAROLINA</p> <p>Asheville WWNC 570 1000 N</p> <p>Charlotte WBT 1080 50000 C WSOC 1210 100 N</p> <p>Durham WDNC 1500 100 C</p> <p>Gastonia WJBR 1420 100</p> <p>Greensboro WBG 1440 500 C</p> <p>High Point WMFR 1200 100</p> <p>Raleigh WPTF 680 5000 N</p> <p>Rocky Mount WEED 1420 100</p> <p>Wilmington WMFD 1370 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Winston-Salem WSJS 1310 100 C</p> <p style="text-align: center;">NORTH DAKOTA</p> <p>Bismarck KFYR 550 1000 N Devis Lake KDLR 1210 100 Fargo WDAY 940 1000 Grand Forks KFJM 1370 100 Mandan KGGU 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 WGPO 1200 100 WKRC 550 1000 C WLW 700 500000 N WASI 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 WPAY 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 1210 100 Ardmore KVSO 1200 100 Elk City KASA 1210 100 Enid KCRC 1360 250 Muskogee 1500 100 Norman WNAD 1010 1000 Oklahoma FKXR 1310 100 KGFJ 1370 100 KOMA 1480 5000 C WKY 900 1000 N Ponca City WBBZ 1200 100 Shawnee KGFJ 1420 100 Tulsa K'TUL 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 Marshfield KOOS 1390 250 Medford KMED 1310 100 Portland KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 N KFJR 1300 500 KGW 620 1000 N KON 940 1000 C KWJ 1040 500 KXL 1420 100 Roseburg KRNR 1500 100 Salem KSLM 1370 100</p> <p style="text-align: center;">PENNSYLVANIA</p> <p>Allentown WCBA 1440 500 WHK 1440 500 Altoona WFBC 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 Glenside 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 WHAL 1500 100 Philadelphia KYW 1020 10000 R WCAU 1170 50000 C WDAS 1370 100 WFIL 560 1000 B WHAT 1310 100 WIP 610 1000 WPEN 920 250 WRAK 920 250 WTEL 1310 100 Pittsburgh KDKA 980 50000 B KQV 1380 500 WCAE 1220 1000 R WIAS 1290 1000 C WWSW 1500 100 Reading WEEU 830 1000 WRAW 1310 100 Scranton WGBI 880 500 WQAN 880 250 Sunbury WKOK 1210 100</p>	<p>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 1000</p> <p style="text-align: center;">RHODE ISLAND</p> <p>Newport WNRI 1200 100 Providence WEAN 780 500 C WJAR 890 500 R WPRO 630 250</p> <p style="text-align: center;">SOUTH CAROLINA</p> <p>Anderson WAIM 1200 100 Charleston WCSC 1360 500 Columbia WIS 1010 50 N Greenville WFBC 1300 1000 Spartanburg WSPA 920 1000</p> <p style="text-align: center;">SOUTH DAKOTA</p> <p>Aberdeen KABR 1420 100 Brookings KF DY 780 1000 Huron KGDY 1340 250 Pierre KGFX 630 200 Rapid City WCAT 1200 100 Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Waterbury KWTN 1210 100 Yankton WNAX 570 1000 C</p> <p style="text-align: center;">TENNESSEE</p> <p>Bristol WOPI 1500 100 Chattanooga WDOD 1280 1000 C Jackson WTJS 1310 100 Knoxville WNOX 560 1000 C WROL 1310 100 Memphis WHBO 1370 100 WMC 780 1000 N WNBR 1430 500 WREC 600 1000 C Nashville WLAC 1470 5000 C WSM 650 50000 N</p>	<p>Springfield WSIX 1210 100</p> <p style="text-align: center;">TEXAS</p> <p>Amarillo KGNC 1410 1000 Austin KNOW 1500 100 Beaumont KFD M 560 500 Brady KNEL 1500 100 College Station WTAW 1120 500 Corpus Christi KGBT 1500 100 Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500 Dublin KFPL 1310 100 El Paso KTSM 1310 100 WDAH 1310 100 Fort Worth KFJZ 1370 100 KTAT 1240 1000 WBAP 800 50000 N Galveston KLUF 1370 100 Houston KPRC 920 1000 N KTRH 1290 1000 C KXYZ 1440 1000 Longview KFRO 1370 100 Lubbock KFYO 1310 100 Midland KRLH 1420 100 Palestine KNET 1420 100 Pampa KPDN 1310 100 Pecos KIUN 1420 100 Port Arthur KPAC 1260 500 San Angelo KGKL 1370 100 San Antonio KABC 1420 100 KMAC 1370 100 KONO 1370 100 KTSA 550 1000 C WQAI 1190 50000 N Tyler KGKB 1500 100 Waco WACO 1420 100 C Weslaco KRGV 1260 500 Wichita Falls KGKO 570 250 C</p> <p style="text-align: center;">UTAH</p> <p> Ogden KLO 1400 500 Salt Lake City KDYL 1290 1000 N KSL 1130 50000 C</p> <p style="text-align: center;">VERMONT</p> <p>Burlington WCAX 1200 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Rutland		
WSYB 1500	100	
St. Albans		
WQDM 1370	100	
Springfield		
WNBX 1260	100	
Waterbury		
WDEV 550	500	

VIRGINIA

Arlington		
NAA 690	1000	
Charlottesville		
WCHV 1420	100	
Danville		
WBTM 1370	100	
Harrisonburg		
WSVA 550	500	
Lynchburg		
WLVA 1200	100	
Newport News		
WGH 1310	100	
Norfolk		
WTAR 780	500 N	
Petersburg		
WPHR 880	500	
Richmond		
WBBL 1210	100	
WMBG 1210	100 C	
WRVA 1110	5000 N	
Roanoke		
WDBJ 930	1000 C	

WASHINGTON

Aberdeen		
KXRO 1310	100	
Bellingham		
KVOS 1200	100	
Everett		
KRKO 1370	50	
Olympia		
KGY 1210	100	
Pullman		
KWSC 1220	1000	
Seattle		
KIRO 710	500	
KJR 970	5000 N	
KOL 1270	1000 C	
KOMO 920	1000 N	
KRSC 1120	100	
KTW 1220	1000	
KVL 1370	100	
KXA 760	250	
Spokane		
KFIO 1120	100	
KFPY 890	1000 C	
KGA 1470	5000 N	
KHQ 590	1000 N	
Tacoma		
KMO 1330	250	
KVI 570	1000 C	
Walla Walla		
KUJ 1370	100	
Wenatchee		
KPO 1500	100	
Yakima		
KIT 1310	100	

WEST VIRGINIA

Bluefield		
WHIS 1410	250	
Charleston		
WCHS 580	500	
Fairmont		
WMMN 890	500	
Huntington		
WSAZ 1190	1000	

Parkersburg		
WPAR 1420	100	
Wheeling		
WWVA 1160	5000 C	

WISCONSIN

Eau Claire		
WTAQ 1330	1000	
Fond du Lac		
KFIZ 1420	100	
Green Bay		
WBHY 1200	100	
Janesville		
WCLO 1200	100	
LaCrosse		
WKBH 1380	1000	
Madison		
WHA 940	1000	
WIBA 1280	1000 N	
Manitowoc		
WOMT 1210	100	
Milwaukee		
WEMP 1310	100	
WISN 1120	250 C	
WTMJ 620	1000 N	
Poynette		
WIBU 1210	100	
Racine		
WRJN 1370	100	
Sheboygan		
WHBL 1410	500	
Stevens Point		
WLBL 900	2500	
Superior		
WEBC 1290	1000 N	

WYOMING

Casper		
KDFN 1440	500	
Sheridan		
KWYO 1370	100	

CANADA

ALBERTA

Calgary		
CFAC 930	100 F	
CFGN 1030	10000	
CJCI 690	100 F	
Edmonton		
CFRN 1260	100 F	
CJCA 730	1000 F	
CKUA 580	500	
Lethbridge		
CJOC 1230	100 F	

BRITISH COLUMBIA

Chilliwack		
CHWK 780	100 F	
Kamloops		
CFJC 880	100 F	
Kelowna		
CKOV 630	100 F	
Prince Rupert		
CFPR 580	50	
Trail		
CJAT 910	250 F	
Vancouver		
CJOR 600	500	
CKCD 1010	100	
CKFK 1410	50	
CKMO 1410	100 F	
CKWX 1010	100 F	
CRCV 1100	500 F	

Victoria		
CFCT 1450	75	

MANITOBA

Brandon		
CKX 1120	100 F	
Winnipeg		
CJRC 1390	100 F	
CKY 960	15000 F	

NEW BRUNSWICK

Fredericton		
CFNB 550	500 F	
Moncton		
GKCW 1370	100 F	
St. John		
CHSJ 1120	500 F	

N. W. TERRITORY

Aklavik		
CJCU 1210	50	

NOVA SCOTIA

Glace Bay		
VAS 685	2000	
Halifax		
CHNS 930	1000 F	
Sydney		
CJCB 1240	1000 F	
Wolfville		
CKIC 1010	50	
Yarmouth		
CJLS 1310	100	

ONTARIO

Brantford		
CKPG 930	100 F	
Chatham		
CFCO 630	100 F	
Cobalt		
CKMC 1210	50	
Fort William		
CKPR 930	100 F	
Hamilton		
CHML 1010	100 F	
CKOC 1120	500 F	
Kingston		
CFRC 1510	100	
Kirkland Lake		
CJKL 1310	100	
London		
CFPL 730	100 F	
North Bay		
CFCH 930	100 F	
Ottawa		
CKO 1010	100 F	
CRCO 880	1000 F	
Prescott		
CFLC 930	100	
St. Catharines		
CKTB 1200	100 F	
Sault Ste. Marie		
CJIC 1500	100	
Stratford		
CJCS 1210	50	
Sudbury		
CKSO 780	1000 F	
Timmins		
CKGB 1420	100	
Toronto		
CFRB 690	10000 C	
CKGL 580	100 F	
GRCT 840	5000 N	
Waterloo		
CKCR 1510	100	

Windsor		
CKLW 1030	5000	
CRCW 600	500 F	
Wingham		
CKNX 1200	50	

PRINCE EDWARD ISLAND

Charlottetown		
CFY 630	1000 F	
CHCK 1310	50	
Summerside		
CHGS 1450	50 F	

QUEBEC

Chicoutimi		
CRCS 950	100 F	
Hull		
CKCH 1210	100 F	
Montmagny		
VE9EK 1185	10	
Montreal		
CFCF 600	400 N	
CHLP 1120	100 F	
CKAC 730	5000 C	
CRCM 910	5000 F	
New Carlisle		
CHNC 1410	500 F	
Quebec		
CHRC 580	100 F	
CKCV 1310	100 F	
CKCK 1010	1000 F	
CRCK 1050	1000	

SASKATCHEWAN

Moose Jaw		
CHAB 1200	100 F	
CJRM 540	1000 F	
Prince Albert		
CKBI 1210	100 F	
Regina		
CHWC 1010	500 F	
CKCK 1010	500 F	
Saskatoon		
CFQC 840	1000 F	
Yorkton		
CJGX 630	1000 F	

NEWFOUNDLAND

St. John's		
VOAC 1065	40	
VOAS 940	100	
VOGY 840	400	
VONF 1195	500	
VOWR 681	500	

MIQUELON

St. Pierre		
FQN 609	250	

CENTRAL AMERICA

COSTA RICA

Cartago		
TIFS 1441	7.5	
TIGA 1014	30	
San Jose		
TIEP 850	500	
TIFA 1050	75	
TIGH 1000	500	
TIRH 930	50	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p style="text-align: center;">GUATEMALA</p> <p>Guatemala City TGW 1210 10000 TGX 1400 250</p> <p style="text-align: center;">HONDURAS</p> <p>Tegucigalpa HRN 1270 100</p> <p style="text-align: center;">NICARAGUA</p> <p>Managua YNLF 1275 20 YNOP 1230 100 YNVA 950 30</p> <p style="text-align: center;">PANAMA</p> <p>Colon HP50 1440 25</p> <p style="text-align: center;">EL SALVADOR</p> <p>San Salvador RDN 680 500</p> <p style="text-align: center;">MEXICO</p> <p style="text-align: center;">AGUASCALIENTES</p> <p>Agascalientes XFA 1310 5 XFC 810 350</p> <p style="text-align: center;">CHIHUAHUA</p> <p>Chihuahua XEPI 1440 250</p> <p>Juarez XEFV 1210 100 XEJ 1020 1000</p> <p style="text-align: center;">COAHUILA</p> <p>Piedras Negras XELO 1110 10000 XEPN 590 50000</p> <p>Saltillo XEAS 1160 100 XEOX 640 500</p> <p>Torreón XETB 1310 125 Villa Acuna XERA 840 250000</p> <p style="text-align: center;">D. F.</p> <p>Mexico City XEAI 1240 100 XEB 1030 10000 XECW 1310 10 XEFA 1180 500 XEFO 940 5000 XEFZ 1370 100 XEK 990 100</p>	<p>XEL 1100 250 XEMX 1280 12 XEN 710 1000 XEP 840 500 XETW 820 500 XEW 890 50000 XEWZ 1150 100 XEYZ 780 10000 XFX 610 1000</p> <p style="text-align: center;">OURANGO</p> <p>Durango XEE 1210 50</p> <p style="text-align: center;">GUANAJUATO</p> <p>Guanajuato XEAZ 1420 7</p> <p>Leon XEKL 1240 500</p> <p style="text-align: center;">JALISCO</p> <p>Guadalajara XEA 1060 500 XED 1155 2500</p> <p style="text-align: center;">LOWER CALIFORNIA</p> <p>Coronado Isl. XEMZ 820</p> <p>Ensenada XEG 1270 200</p> <p>Mexicali XEAA 920 200 XEAO 560 250</p> <p>Tijuana XEAO 1090 XEC 1160 30 XEFL 1150 500 XEMO 860 5000 XEMZ 1210 250 XEOK 760 250 XESL 1160</p> <p style="text-align: center;">MICHOACAN</p> <p>Morelia XEI 1370 125</p> <p style="text-align: center;">NUEVO LEON</p> <p>Monterrey XEFB 1420 100 XEFJ 1230 100 XEH 1150 250 XET 690 500 XEX 1310 125</p> <p style="text-align: center;">OAXACA</p> <p>Oaxaca XEAJ 1310 15</p> <p style="text-align: center;">PUEBLA</p> <p>Puebla XETH 1210 100</p>	<p style="text-align: center;">SAN LUIS POTOSI</p> <p>San Luis Potosi XEZZ 1370 100</p> <p style="text-align: center;">SONORA</p> <p>Hermosillo XEBH 1000 500</p> <p>Nogales XEAF 990 500</p> <p style="text-align: center;">TAMAULIPAS</p> <p>Matamoros XEAM 750 7.5</p> <p>Nuevo Laredo XEFE 850 250 XENT 910 65000</p> <p>Reynosa XEAW 960 50000</p> <p>Tampico XEFV 1310 250 XEMA 1080 50 XES 990 250</p> <p style="text-align: center;">VERACRUZ</p> <p>Jalapa XFB 1270 250 XFD 1340 350</p> <p>Veracruz XETF 1220 12 XEU 1010 250</p> <p style="text-align: center;">YUCATAN</p> <p>Merida XEFC 560 100 XEV 1000 10 XEZ 630 500</p> <p style="text-align: center;">WEST INDIES</p> <p style="text-align: center;">CUBA</p> <p>Caibarien CMHD 1270 250</p> <p>Camaguey CMJA 1010 300 CMJC 1390 150 CMJE 1220 50 CMJF 1150 200 CMJK 780 250 CMJL 1340 100 CMJP 1430 100</p> <p>Cardenas CMGE 1370 50</p> <p>Ciego de Avila CMJH 1360 100 CMJI 1130 50 CMJO 1180 50</p> <p>Cienfuegos CMHJ 1160 100 CMHW 810 100 CMHX 760 500</p>	<p style="text-align: center;">Cruces</p> <p>CMHK 1330 250</p> <p>Havana CMBC 940 500 CMBD 1170 150 CMBG 1140 200 CMBN 880 150 CMBS 770 150 CMBX 1380 500 CMBY 640 150 CMBZ 1000 250 CMCA 1350 250 CMCB 1230 150 CMCD 960 250 CMCF 815 250 CMCG 1255 250 CMCH 1200 350 CMCN 1500 150 CMCO 1110 250 CMCP 680 250 CMCR 1410 150 CMCU 1280 150 CMCW 750 150 CMCX 660 150 CMCY 1030 1000 CMK 1060 250 CMOA 790 150 CMOK 1470 150 CMOK 1320 250 CMO 880 500 CMW 600 1000 CMX 920 650</p> <p>Holguin CMKF 1460 50</p> <p>Manzanillo CMKM 1120 200</p> <p>Matanzas CMGC 1400 100 CMGF 1120 100 CMGI 1420 50</p> <p>Sagua la Grande CMHA 1070 50</p> <p>Sancti Spiritus CMHB 1240 50</p> <p>Santa Clara CMHI 1210 150</p> <p>Santiago CMKC 1250 150 CMKD 1050 250 CMKR 1400 100 CMKV 1190 50</p> <p style="text-align: center;">DOMINICAN REPUBLIC</p> <p>San Pedro de Macoris HHH 1395 15</p> <p>Santo Domingo HIJ 1195 15 HIX 800 700 HIZ 1300 10</p> <p style="text-align: center;">HAITI</p> <p>Port-au-Prince HHK 920 1000</p>
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An up-to-the-minute list of South American stations has just been received. There are many changes in the broadcasters of Chile, Argentina and Brazil. Our March issue will therefore contain new indices of the foreign stations on the broadcast band.

NORTH AMERICAN B. C. STATIONS BY CALLS

CFAC 930	100	CJLS 1310	100	CMBS 770	150
Calgary, Alta.		Yarmouth, N. S.		Havana, Cuba	
CFCF 600	400	CJOC 1230	100	CMBX 1380	500
Montreal, Que.		Lethbridge, Alta.		Havana, Cuba	
CFCH 930	100	CJOR 600	500	CMBY 640	150
North Bay, Ont.		Vancouver, B. C.		Havana, Cuba	
CFCN 1030	10000	CJRC 1390	100	CMBZ 1000	250
Calgary, Alta.		Winnipeg, Man.		Havana, Cuba	
CFCO 630	100	CJRM 540	1000	CMCA 1350	250
Chatham, Ont.		Moose Jaw, Sask.		Havana, Cuba	
CFCT 1450	75	CKAC 730	5000	CMCB 1230	150
Victoria, B. C.		Montreal, Que.		Havana, Cuba	
CFCY 630	1000	CKBI 1210	100	CMCD 960	250
Charlottetown, P.E.I.		Prince Albert, Sask.		Havana, Cuba	
CFJC 880	100	CKCD 1010	100	CMCF 815	250
Kamloops, B. C.		Vancouver, B. C.		Havana, Cuba	
CFLC 930	100	CKCH 1210	100	CMCG 1255	250
Prescott, Ont.		Hull, Que.		Havana, Cuba	
CFNB 550	500	CKCK 1010	500	CMCJ 1200	350
Fredericton, N. B.		Regina, Sask.		Havana, Cuba	
CFPL 730	100	CKCL 580	100	CMCN 1500	150
London, Ont.		Toronto, Ont.		Havana, Cuba	
CFPR 580	50	CKCO 1010	100	CMCO 1110	250
Prince Rupert, B. C.		Ottawa, Ont.		Havana, Cuba	
CFQC 840	1000	CKCR 1510	100	CMCQ 680	250
Saskatoon, Sask.		Waterloo, Ont.		Havana, Cuba	
CFRB 690	10000	CKCV 1310	100	CMCR 1410	150
Toronto, Ont.		Quebec, Que.		Havana, Cuba	
CFRC 1510	100	CKCW 1370	100	CMCU 1280	150
Kingston, Ont.		Moncton, N. B.		Havana, Cuba	
CFRN 1260	100	CKFC 1410	50	CMCW 750	150
Edmonton, Alta.		Vancouver, B. C.		Havana, Cuba	
CHAB 1200	100	CKGB 1420	100	CMCX 660	150
Moose Jaw, Sask.		Timmins, Ont.		Havana, Cuba	
CHCK 1310	50	CKIC 1010	50	CMCY 1030	1000
Charlottetown, P.E.I.		Wolfville, N. S.		Havana, Cuba	
CHGS 1450	50	CKLW 1030	5000	CMGC 1400	100
Summerside, P.E.I.		Windsor, Ont.		Matanzas, Cuba	
CHLP 1120	100	CKMC 1210	50	CMGE 1370	50
Montreal, Que.		Cobalt, Ont.		Cardenas, Cuba	
CHML 1010	100	CKMO 1410	100	CMGF 1120	100
Hamilton, Ont.		Vancouver, B. C.		Matanzas, Cuba	
CHNC 1410	500	CKNX 1200	50	CMGI 1420	50
New Carlisle, Que.		Wingham, Ont.		Matanzas, Cuba	
CHNS 930	1000	CKOC 1120	500	CMHA 1070	50
Halifax, N. S.		Hamilton, Ont.		Sagua la Grande, Cu.	
CHRC 580	100	CKOV 630	100	CMHB 1240	50
Quebec, Que.		Kelowna, B. C.		Sancti Spiritus, Cuba	
CHSJ 1120	500	CKPC 930	100	CMHD 1270	250
St. John, N. B.		Brantford, Ont.		Calbarlen, Cuba	
CHWC 1010	500	CKPR 930	100	CMHI 1210	150
Regina, Sask.		Fort William, Ont.		Santa Clara, Cuba	
CHWK 780	100	CKSO 780	1000	CMHJ 1160	100
Chilliwack, B. C.		Sudbury, Ont.		Cienfuegos, Cuba	
CJAT 910	250	CKTB 1200	100	CMHK 1330	250
Trail, B. C.		St. Catharines, Ont.		Cruces, Cuba	
CJCA 730	1000	CKUA 580	500	CMHW 810	100
Edmonton, Alta.		Edmonton, Alta.		Cienfuegos, Cuba	
CJCB 1240	1000	CKWX 1010	100	CMHX 760	500
Sydney, N. S.		Vancouver, B. C.		Cienfuegos, Cuba	
CJ CJ 690	100	CKX 1120	100	CMJA 1010	300
Calgary, Alta.		Brandon, Man.		Camaguey, Cuba	
CJCS 1210	50	CKY 960	15000	CMJC 1390	150
Stratford, Ont.		Winnipeg, Man.		Camaguey, Cuba	
CJCU 1210	50	CMBC 940	500	CMJE 1220	50
Aklavik, N. W. T.		Havana, Cuba		Camaguey, Cuba	
CJGX 630	1000	CMBD 1170	150	CMJF 1150	200
Yorktown, Sask.		Havana, Cuba		Camaguey, Cuba	
CJIC 1500	100	CMBG 1140	200	CMJH 1360	100
S. Ste. Marie, Ont.		Havana, Cuba		Ciego de Avila, Cuba	
CJKL 1310	100	CMBN 880	150	CMJI 1130	50
Kirkland Lake, Ont.		Havana, Cuba		Ciego de Avila, Cuba	

NORTH AMERICAN B. C. STATIONS BY CALLS

CMJK 780	250	KALE 1300	500	KFJM 1370	100
Camaguey, Cuba		Portland, Ore.		Grand Forks, N. D.	
CMJL 1340	100	KARK 890	250	KFJR 1300	500
Camaguey, Cuba		Little Rock, Ark.		Portland, Ore.	
CMJO 1180	50	KASA 1210	100	KFJZ 1370	100
Ciego de Avila, Cuba		Elk City, Okla.		Port Worth, Texas	
CMJP 1430	100	KAST 1370	100	KFKA 880	500
Camaguey, Cuba		Astoria, Ore.		Greeley, Colo.	
CMK 1060	250	KBPS 1420	100	KFKU 1220	1000
Havana, Cuba		Portland, Ore.		Lawrence, Kans.	
CMKC 1250	150	KBTM 1200	100	KFNF 890	500
Santiago, Cuba		Jonesboro, Ark.		Shenandoah, Iowa	
CMKD 1050	250	KCMC 1420	100	KFOR 1210	100
Santiago, Cuba		Texarkana, Ark.		Lincoln, Neb.	
CMKF 1460	50	KCRC 1360	250	KFOX 1250	1000
Holguin, Cuba		Enid, Okla.		Long Beach, Calif.	
CMKM 1120	200	KCRJ 1310	100	KFPL 1310	100
Manzanillo, Cuba		Jerome, Ariz.		Dublin, Texas	
CMKR 1400	100	KDB 1500	100	KFPW 1210	100
Santiago, Cuba		Santa Barbara, Calif.		Fort Smith, Ark.	
CMKV 1190	50	KDFN 1440	500	KFPY 890	1000
Santiago, Cuba		Casper, Wyo.		Spokane, Wash.	
CMOA 790	150	KDKA 980	50000	KFQD 780	250
Havana, Cuba		Pittsburgh, Pa.		Anchorage, Alaska	
CMOK 1470	150	KDLR 1210	100	KFRC 610	1000
Havana, Cuba		Devils Lake, N. D.		San Francisco, Calif.	
CMOX 1320	250	KDON 1210	100	KFRO 1370	100
Havana, Cuba		Del Monte, Calif.		Longview, Texas	
CMQ 880	500	KDYL 1290	1000	KFRU 630	500
Havana, Cuba		Salt Lake City, Utah		Columbia, Mo.	
CMW 600	1000	KECA 1430	1000	KFSD 600	1000
Havana, Cuba		Los Angeles, Calif.		San Diego, Calif.	
CMX 920	650	KELD 1370	100	KFSG 1120	500
Havana, Cuba		El Dorado, Ark.		Los Angeles, Calif.	
CRCK 1050	1000	KELW 780	500	KFUO 550	500
Quebec, Que.		Burbank, Calif.		St. Louis, Mo.	
CRCM 910	5000	KERN 1370	100	KFVD 1000	250
Montreal, Que.		Bakersfield, Calif.		Los Angeles, Calif.	
CRCO 880	1000	KEX 1180	5000	KFVS 1210	100
Ottawa, Ont.		Portland, Ore.		Cape Girardeau, Mo.	
CRCS 950	100	KFAB 770	10000	KFWE 950	1000
Chicoutimi, Que.		Lincoln, Neb.		Hollywood, Calif.	
CRCT 840	5000	KFAC 1300	1000	KFXD 1200	100
Toronto, Ont.		Los Angeles, Calif.		Nampa, Idaho	
CRCV 1100	500	KFBB 1280	1000	KFJ 1200	100
Vancouver, B. C.		Great Falls, Mont.		Grand Jet., Colo.	
CRCW 600	500	KFBI 1050	5000	KFXM 1210	100
Windsor, Ont.		Abilene, Kans.		San Bernardino, Calif.	
FQN 689	250	KFBK 1490	5000	KFXR 1310	100
St. Pierre, Miq.		Sacramento, Calif.		Oklahoma City, Okla.	
HHK 920	1000	KFDM 560	500	KFYO 1310	100
Port-au-Prince, Haiti		Beaumont, Texas		Lubbock, Texas	
HIH 1395	15	KFDY 780	1000	KFYR 550	1000
San Pedro de M., D. R.		Brookings, S. D.		Misnarek, N. D.	
HIJ 1195	15	KFEL 920	500	KGA 1470	5000
Santo Domingo, D. R.		Denver, Colo.		Spokane, Wash.	
HIX 800	700	KFEQ 680	2500	KGAR 1370	100
Santo Domingo, D. R.		St. Joseph, Mo.		Tucson, Ariz.	
HIZ 1300	10	KFGQ 1370	100	KGB 1330	1000
Santo Domingo, D. R.		Boone, Iowa		San Diego, Calif.	
HP50 1440	25	KFH 1300	1000	KGBU 900	500
Colon, Panama		Wichita, Kans.		Ketchikan, Alaska	
HRN 1270	100	KFI 640	50000	KGBX 1230	500
Tegucigalpa, Hond.		Los Angeles, Calif.		Springfield, Mo.	
KABC 1420	100	KFIO 1120	100	KGBZ 930	1000
San Antonio, Texas		Spokane, Wash.		York, Neb.	
KABR 1420	100	KFIZ 1420	100	KGCA 1270	100
Aberdeen, S. Dak.		Fond du Lac, Wis.		Decorah, Iowa	
KADA 1200	100	KFJB 1200	100	KGCU 1240	250
Ada, Okla.		Marshalltown, Iowa		Mandan, N. D.	
KALB 1420	100	KFJJ 1210	100	KGCX 1310	100
Alexandria, La.		Kiamath Falls, Ore.		Wolf Point, Mont.	

NORTH AMERICAN B. C. STATIONS BY CALLS

KGDE 1200	100	KHJ 900	1000	KMTR 570	1000
Fergus Falls, Minn.		Los Angeles, Calif.		Hollywood, Calif.	
KGDM 1100	1000	KHQ 590	1000	KNEL 1500	100
Stockton, Calif.		Spokane, Wash.		Brady, Texas	
KGDY 1340	250	KHSL 950	250	KNET 1420	100
Huron, S. D.		Chico, Calif.		Palestine, Texas	
KGEK 1200	100	KICA 1370	100	KNOW 1500	100
Sterling, Colo.		Clovis, N. M.		Austin, Texas	
KGER 1360	1000	KID 1320	250	KNX 1050	50000
Long Beach, Calif.		Idaho Falls, Idaho		Hollywood, Calif.	
KGEZ 1310	100	KIDO 1350	1000	KOA 830	50000
Kalispell, Mont.		Boise, Idaho		Denver, Colo.	
KGFF 1420	100	KIDW 1420	100	KOAC 550	1000
Shawnee, Okla.		Lamar, Colo.		Corvallis, Ore.	
KGFG 1370	100	KIEM 1450	500	KOB 1180	10000
Oklahoma City, Okla.		Eureka, Calif.		Albuquerque, N. M.	
KGFI 1500	100	KIEV 850	100	KOH 1380	500
Corpus Christi, Texas		Glendale, Calif.		Reno, Nev.	
KGfJ 1200	100	KINY 1310	100	KOIL 1260	1000
Los Angeles, Calif.		Juneau, Alaska		Council Bluffs, Iowa	
KGFK 1500	100	KIRO 710	500	KOIN 940	1000
Moorhead, Minn.		Seattle, Wash.		Portland, Ore.	
KGFL 1370	100	KIT 1310	100	KOL 1270	1000
Roswell, N. M.		Yakima, Wash.		Seattle, Wash.	
KGFW 1310	100	KIUJ 1310	100	KOMA 1480	5000
Kearney, Neb.		Santa Fe, N. Mex.		Oklahoma City, Okla.	
KGFX 630	200	KIUL 1210	100	KOMO 920	1000
Pierre, S. D.		Garden City, Kans.		Seattle, Wash.	
KGGC 1420	100	KIUN 1420	100	KONO 1370	100
San Francisco, Calif.		Pecos, Texas		San Antonio, Texas	
KGGF 1010	1000	KIUP 1370	100	KOOS 1390	250
Coffeyville, Kans.		Durango, Colo.		Marshfield, Ore.	
KGGM 1230	250	KJBS 1070	500	KORE 1420	100
Abuquerque, N. M.		San Francisco, Calif.		Eugene, Ore.	
KGHF 1320	500	KJR 970	5000	KOTN 1500	100
Pueblo, Colo.		Seattle, Wash.		Pine Bluffs, Ark.	
KGHI 1200	100	KLCN 1290	100	KOY 1390	500
Little Rock, Ark.		Blytheville, Ark.		Phoenix, Ariz.	
KGHL 780	1000	KLO 1400	500	KPAC 1260	500
Billings, Mont.		Ogden, Utah		Port Arthur, Texas	
KGIR 1340	1000	KLPM 1240	250	KPDN 1310	100
Butte, Mont.		Minot, N. D.		Pampa, Texas	
KGIW 1420	100	KLRA 1390	1000	KPLC 1500	100
Alamosa, Colo.		Little Rock, Ark.		Lake Charles, La.	
KGKB 1500	100	KLS 1440	250	KPO 680	50000
Tyler, Texas		Oakland, Calif.		San Francisco, Calif.	
KGKL 1370	100	KLUF 1370	100	KPOF 880	500
San Angelo, Texas		Galveston, Texas		Denver, Colo.	
KGKO 570	250	KLX 880	1000	KPPC 1210	50
Wichita Falls, Texas		Oakland, Calif.		Pasadena, Calif.	
KGKY 1500	100	KLZ 560	1000	KPQ 1500	100
Scottsbluff, Neb.		Denver, Colo.		Wenatchee, Wash.	
KGMB 1320	1000	KMA 930	1000	KPRC 920	1000
Honolulu, T. H.		Shenandoah, Iowa		Houston, Texas	
KGNC 1410	1000	KMAC 1370	100	KQV 1380	500
Amarillo, Texas		San Antonio, Texas		Pittsburgh, Pa.	
KGNF 1430	1000	KMBC 950	1000	KQW 1010	1000
North Platte, Neb.		Kansas City, Mo.		San Jose, Calif.	
KGNO 1340	250	KMED 1310	100	KRE 1370	100
Dodge City, Kans.		Medford, Ore.		Berkeley, Calif.	
KGO 790	7500	KMJ 580	1000	KREG 1500	100
San Francisco, Calif.		Fresno, Calif.		Santa Ana, Calif.	
KGU 750	2500	KMLB 1200	100	KRGV 1260	500
Honolulu, T. H.		Monroe, La.		Weslaco, Texas	
KGVO 1260	1000	KMMJ 740	1000	KRKD 1120	500
Missoula, Mont.		Clay Center, Neb.		Los Angeles, Calif.	
KGW 620	1006	KMO 1330	250	KRKO 1370	50
Portland, Ore.		Tacoma, Wash.		Everett, Wash.	
KGY 1210	100	KMOX 1090	50000	KRLC 1420	100
Olympia, Wash.		St. Louis, Mo.		Lewiston, Idaho	
KHBC 1420	100	KMPC 710	500	KRLD 1040	10000
Hilo, T. H.		Beverly Hills, Calif.		Dallas, Texas	

NORTH AMERICAN B. C. STATIONS BY CALLS

KRLH 1420	100	KVOA 1260	500	VESEK 1185	10
Midland, Texas		Tucson, Ariz.		Montmagny, Que.	
KRMD 1310	100	KVOD 920	500	VOAC 1065	40
Shreveport, La.		Denver, Colo.		St. John's, Nfld.	
KRRR 1500	100	KVOL 1310	100	VOAS 940	100
Roseburg, Ore.		Lafayette, La.		St. John's, Nfld.	
KRNT 1320	500	KVOO 1140	25000	VOGY 840	400
Des Moines, Iowa		Tulsa, Okla.		St. John's, Nfld.	
KROC 1310	100	KVOR 1270	1000	VONF 1195	500
Rochester, Minn.		Colorado Spgs., Colo.		St. John's, Nfld.	
KROW 930	1000	KVOS 1200	100	VOWR 681	500
Oakland, Calif.		Bellingham, Wash.		St. John's, Nfld.	
KRSC 1120	100	KVSO 1210	100	WAAB 1410	500
Seattle, Wash.		Ardmore, Okla.		Boston, Mass.	
KSAC 580	500	KWBG 1420	100	WAAF 920	1000
Manhattan, Kans.		Hutchinson, Kans.		Chicago, Ill.	
KSCJ 1330	1000	KWG 1200	100	WAAT 940	500
Sioux City, Iowa		Stockton, Calif.		Jersey City, N. J.	
KSD 550	1000	KWJJ 1040	500	WAAW 660	500
St. Louis, Mo.		Portland, Ore.		Omaha, Neb.	
KSEI 900	250	KWK 1350	1000	WABC 860	50000
Pocatello, Idaho		St. Louis, Mo.		New York, N. Y.	
KSFO 560	1000	KWKC 1370	100	WABI 1200	100
San Francisco, Calif.		Kansas City, Mo.		Bangor, Maine	
KSL 1130	50000	KWKH 1100	10000	WABY 1370	100
Salt Lake City, Utah		Shreveport, La.		Albany, N. Y.	
KSLM 1370	100	KWLC 1270	100	WACO 1420	100
Salem, Ore.		Decorah, Iowa		Waco, Texas	
KSO 1430	500	KWSC 1220	1000	WADC 1320	1000
Des Moines, Iowa		Pullman, Wash.		Akron, Ohio.	
KSOO 1110	2500	KWTN 1210	100	WAGF 1370	250
Sioux Falls, S. D.		Watertown, S. D.		Dothan, Ala.	
KSTP 1460	25000	KWTO 560	5000	WAGM 1420	100
St. Paul, Minn.		Springfield, Mo.		Presque Isle, Me.	
KSUN 1200	100	KWYO 1370	100	WAIM 1200	100
Lowell, Ariz.		Sheridan, Wyo.		Anderson, S. C.	
KTAR 620	1000	KXA 760	250	WAIU 640	500
Phoenix, Ariz.		Seattle, Wash.		Columbus, Ohio	
KTAT 1240	1000	KXL 1420	100	WALA 1380	500
Fort Worth, Texas		Portland, Ore.		Mobile, Ala.	
KTBS 1450	1000	KXO 1500	100	WALR 1210	100
Shreveport, La.		El Centro, Calif.		Zanesville, Ohio	
KTFI 1240	1000	KXRO 1310	100	WAML 1310	100
Twin Falls, Idaho		Aberdeen, Wash.		Laurel, Miss.	
KTHS 1060	10000	KXYZ 1440	1000	WAPI 1140	5000
Hot Springs, Ark.		Houston, Texas		Birmingham, Ala.	
KTM 780	500	KYA 1230	1000	WARD 1400	500
Los Angeles, Calif.		San Francisco, Calif.		Brooklyn, N. Y.	
KTRB 740	250	KYW 1020	10000	WASH 1270	500
Modesto, Calif.		Philadelphia, Pa.		Grand Rapids, Mich.	
KTRH 1290	1000	NAA 690	1000	WATL 1370	100
Houston, Texas		Arlington, Va.		Atlanta, Ga.	
KTSA 550	1000	RDN 680	500	WATR 1190	100
San Antonio, Texas		San Salvador, E. S.		Waterbury, Conn.	
KTSM 1310	100	TGW 1210	10000	WAVE 940	1000
El Paso, Texas		Guatemala, Gua.		Louisville, Ky.	
KTUL 1400	500	TGX 1400	250	WAWZ 1350	500
Tulsa, Okla.		Guatemala City		Zarephath, N. J.	
KTW 1220	1000	TIEP 850	500	WAZL 1420	100
Seattle, Wash.		San Jose, C. R.		Hazleton, Pa.	
KUJ 1370	100	TIFA 1050	75	WBAA 890	100 0
Walla Walla, Wash.		San Jose, C. R.		West Lafayette, Ind.	
KUMA 1420	100	TIFS 1441	7.5	WBAL 1060	10000
Yuma, Ariz.		Cartago, C. R.		Baltimore, Md.	
KUOA 1260	1000	TIGA 1014	30	WBAP 800	50000
Fayetteville, Ark.		Cartago, C. R.		Fort Worth, Texas	
KUSD 890	500	TIGH 1000	500	WBAX 1210	100
Vermillion, S. D.		San Jose, C. R.		Wilkes-Barre, Pa.	
KVI 570	1000	TIRH 930	50	WBBC 1400	500
Tacoma, Wash.		San Jose, C. R.		Brooklyn, N. Y.	
KVL 1370	100	VAS 685	2000	WBBL 1210	100
Seattle, Wash.		Glace Bay, N. S.		Richmond, Va.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WBMM 770	50000	WCFL 970	5000	WEDC 1210	100
Chicago, Ill.		Chicago, Ill.		Chicago, Ill.	
WBBR 1300	1000	WCBS 580	500	WEED 1420	100
Brooklyn, N. Y.		Charleston, W. Va.		Rocky Mount, N. C.	
WBBZ 1200	100	WCHV 1420	100	WEEL 590	1000
Ponca City, Okla.		Charlottesville, Va.		Boston, Mass.	
WBCM 1410	500	WCKY 1490	5000	WEUU 830	1000
Bay City, Mich.		Covington, Ky.		Reading, Pa.	
WBEN 900	1000	WCLO 1200	100	WEHS 1420	100
Buffalo, N. Y.		Janesville, Wis.		Cicero, Ill.	
WBEO 1310	100	WCLS 1310	100	WELI 900	500
Marquette, Mich.		Joliet, Ill.		New Haven, Conn.	
WBIG 1440	500	WCMI 1310	100	WELL 1420	100
Greensboro, N. C.		Ashland, Ky.		Battie Creek, Mich.	
WBNO 1200	100	WCNW 1500	100	WEMP 1310	100
New Orleans, La.		Brooklyn, N. Y.		Milwaukee, Wis.	
WBNS 1430	500	WCOA 1340	500	WENR 870	50000
Columbus, Ohio		Pensacola, Fla.		Chicago, Ill.	
WBNX 1350	250	WCOC 880	500	WEOA 1370	100
New York, N. Y.		Meridian, Miss.		Evansville, Ind.	
WBNY 1370	100	WCOL 1210	100	WESG 850	1000
Buffalo, N. Y.		Columbus, Ohio		Elmira, N. Y.	
WBOQ 860	50000	WCOP 1120	500	WEST 1200	100
New York, N. Y.		Boston, Mass.		Easton, Pa.	
WBOW 1310	100	WCPO 1200	100	WEVD 1300	1000
Terre Haute, Ind.		Cincinnati, Ohio		New York, N. Y.	
WBRB 1210	100	WCRW 1210	100	WEW 760	1000
Red Bank, N. J.		Chicago, Ill.		St. Louis, Mo.	
WBRC 930	1000	WCSC 1360	500	WEXL 1310	50
Birmingham, Ala.		Charleston, S. C.		Royal Oak, Mich.	
WBRE 1310	100	WCSH 940	1000	WFAA 800	50000
Wilkes-Barre, Pa.		Portland, Me.		Dallas, Texas	
WBT 1080	50000	WDAE 1220	1000	WFAB 1300	1000
Charlotte, N. C.		Tampa, Fla.		New York, N. Y.	
WBTV 1370	100	WDAF 610	1000	WFAM 1200	100
Danville, Va.		Kansas City, Mo.		South Bend, Ind.	
WBZ 990	50000	WDAH 1310	100	WFAS 1210	100
Boston, Mass.		El Paso, Texas		White Plains, N. Y.	
WBZA 990	1000	WDAS 1370	100	WFBC 1300	1000
Springfield, Mass.		Philadelphia, Pa.		Greenville, S. C.	
WCAC 600	500	WDAY 940	1000	WFBG 1310	100
Storrs, Conn.		Fargo, N. D.		Altoona, Pa.	
WCAD 1220	500	WDBJ 930	1000	WFBL 1360	1000
Canton, N. Y.		Roanoke, Va.		Syracuse, N. Y.	
WCAE 1220	1000	WDBO 580	1000	WFBM 1230	1000
Pittsburgh, Pa.		Orlando, Fla.		Indianapolis, Ind.	
WCAL 1250	1000	WDEL 1120	250	WFRB 1270	500
Northfield, Minn.		Wilmington, Del.		Baltimore, Md.	
WCAM 1280	500	WDEV 550	500	WDFD 1310	100
Camden, N. J.		Waterbury, Vt.		Flint, Mich.	
WCAO 600	500	WDGY 1180	1000	WFEA 1340	500
Baltimore, Md.		Minneapolis, Minn.		Manchester, N. H.	
WCAP 1280	500	WDNC 1500	100	WFIL 560	1000
Asbury Park, N. J.		Durham, N. C.		Philadelphia, Pa.	
WCAT 1200	100	WDOO 1280	1000	WFLA 620	1000
Rapid City, S. D.		Chattanooga, Tenn.		Clearwater, Fla.	
WCAU 1170	50000	WDRG 1330	1000	WFMD 900	500
Philadelphia, Pa.		Hartford, Conn.		Frederick, Md.	
WCAX 1200	100	WDSU 1250	1000	WGAL 1500	100
Burlington, Vt.		New Orleans, La.		Lancaster, Pa.	
WCAZ 1070	100	WDZ 1070	100	WGAR 1450	500
Carthage, Ill.		Tuscola, Ill.		Cleveland, Ohio	
WCBA 1440	500	WEAF 660	50000	WGBB 1210	100
Allentown, Pa.		New York, N. Y.		Freeport, N. Y.	
WCBD 1080	5000	WEAN 780	500	WGFB 630	500
Waukegan, Ill.		Providence, R. I.		Evansville, Ind.	
WCBM 1370	100	WEBC 1290	1000	WGBI 880	500
Baltimore, Md.		Superior, Wis.		Seranton, Pa.	
WCBS 1420	100	WEBQ 1210	100	WGCM 1210	100
Springfield, Ill.		Harrisburg, Ill.		Gulfport, Miss.	
WCCO 810	50000	WEHR 1310	100	WGES 1360	500
Minneapolis, Minn.		Buffalo, N. Y.		Chicago, Ill.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WGH 1310	100	WHOM 1450	250	WJMS 1420	100
Newport News, Va.		Jersey City, N. J.		Ironwood, Mich.	
WGL 1370	100	WHP 1430	500	WJR 750	50000
Fort Wayne, Ind.		Harrisburg, Pa.		Detroit, Mich.	
WGN 720	50000	WIBA 1280	1000	WJSV 1460	10000
Chicago, Ill.		Madison, Wis.		Washington, D. C.	
WGNY 1210	100	WIBC 970	100	WJW 1210	100
Chester, N. Y.		Glenside, Pa.		Akron, Ohio	
WGPC 1420	100	WIBM 1370	100	WJZ 760	50000
Albany, Ga.		Jackson, Mich.		New York, N. Y.	
WGR 550	1000	WIBU 1210	100	WKAQ 1240	1000
Buffalo, N. Y.		Poynette, Wis.		San Juan, P. R.	
WGST 890	500	WIBW 580	1000	WKAR 850	1000
Atlanta, Ga.		Topeka, Kans.		East Lansing, Mich.	
WGY 790	50000	WIBX 1200	100	WKBB 1500	100
Schenectady, N. Y.		Utica, N. Y.		East Dubuque, Ill.	
WHA 940	1000	WICC 600	500	WKBH 1380	1000
Madison, Wis.		Bridgeport, Conn.		LaCrosse, Wis.	
WHAM 1150	50000	WIL 1200	100	WKBI 1420	100
Rochester, N. Y.		St. Louis, Mo.		Cicero, Ill.	
WHAS 820	50000	WILL 890	250	WKBN 570	500
Louisville, Ky.		Urbana, Ill.		Youngstown, Ohio	
WHAT 1310	100	WILM 1420	100	WKBO 1200	100
Philadelphia, Pa.		Wilmington, Del.		Harrisburg, Pa.	
WHAZ 1300	500	WIND 560	1000	WKBV 1500	100
Troy, N. Y.		Gary, Ind.		Richmond, Ind.	
WHB 860	1000	WINS 1180	1000	WKBW 1480	5000
Kansas City, Mo.		New York, N. Y.		Buffalo, N. Y.	
WHBB 1500	100	WIOD 1300	1000	WKBZ 1500	100
Selma, Alabama		Miami, Fla.		Muskegon, Mich.	
WHBC 1200	100	WIP 610	1000	WKBU 1500	100
Canton, Ohio		Philadelphia, Pa.		Griffin, Ga.	
WHBF 1210	100	WIRE 1400	500	WKOK 1210	100
Rock Island, Ill.		Indianapolis, Ind.		Sunbury, Pa.	
WHBI 1250	1000	WIS 1010	500	WKRC 550	1000
Newark, N. J.		Columbia, S. C.		Cincinnati, Ohio	
WHBL 1410	500	WISN 1120	250	WKY 900	1000
Sheboygan, Wis.		Milwaukee, Wis.		Oklahoma City, Okla.	
WHBQ 1370	100	WJAC 1310	100	WKZO 590	1000
Memphis, Tenn.		Johnstown, Pa.		Kalamazoo, Mich.	
WHBU 1210	100	WJAC 1060	1000	WLAC 1470	5000
Anderson, Ind.		Norfolk, Neb.		Nashville, Tenn.	
WHBY 1200	100	WJAR 890	500	WLAP 1420	100
Green Bay, Wis.		Providence, R. I.		Lexington, Ky.	
WHDF 1370	100	WJAS 1290	1000	WLB 1250	1000
Calumet, Mich.		Pittsburgh, Pa.		Minneapolis, Minn.	
WHDH 830	1000	WJAX 900	1000	WLBC 1310	100
Boston, Mass.		Jacksonville, Fla.		Muncie, Ind.	
WHDL 1420	100	WJAY 610	500	WLBFB 1420	100
Olean, N. Y.		Cleveland, Ohio		Kansas City, Kans.	
WHEB 740	250	WJBC 1200	100	WLBL 900	2500
Portsmouth, N. H.		Bloomington, Ill.		Stevens Point, Wis.	
WHEC 1430	500	WJBK 1500	100	WLBZ 620	500
Rochester, N. Y.		Detroit, Mich.		Bangor, Me.	
WHEF 1500	100	WJBL 1200	100	WLEU 1420	100
Kosciusko, Miss.		Decatur, Ill.		Erie, Pa.	
WHFC 1420	100	WJBO 1420	100	WLLH 1370	100
Cicero, Ill.		Baton Rouge, La.		Lowell, Mass.	
WHIO 1260	1000	WJBR 1420	100	WLNH 1310	100
Dayton, Ohio		Gastonia, N. C.		Laconia, N. H.	
WHIS 1410	250	WJBW 1200	100	WLS 870	50000
Bluefield, W. Va.		New Orleans, La.		Chicago, Ill.	
WHJB 620	250	WJBY 1210	100	WLTH 1400	500
Greensburg, Pa.		Cadtsden, Ala.		Brooklyn, N. Y.	
WHK 1390	1000	WJDX 1270	1000	WLVA 1200	100
Cleveland, Ohio		Jackson, Miss.		Lynchburg, Va.	
WHLB 1370	100	WJEJ 1210	100	WLV 700	50000
Virginia, Minn.		Hagerstown, Md.		Cincinnati, Ohio	
WHN 1010	1000	WJIM 1210	100	WLWL 1100	5000
New York, N. Y.		Lansing, Mich.		New York, N. Y.	
WHO 1000	50000	WJJD 1130	20000	WMAL 630	250
Des Moines, Iowa		Chicago, Ill.		Washington, D. C.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WMAQ 670	50000	WNRA 1420	100	WRAC 1370	100
Chicago, Ill.		Sheffield, Ala.		Williamsport, Pa.	
WMAS 1420	100	WNRI 1200	100	WRAW 1310	100
Springfield, Mass.		Newport, R. I.		Reading, Pa.	
WMAZ 1180	1000	WNYC 810	1000	WRAX 920	250
Macon, Ga.		New York, N. Y.		Philadelphia, Pa.	
WMBC 1420	100	WQAI 1190	50000	WRBL 1200	100
Detroit, Mich.		San Antonio, Texas		Columbus, Ga.	
WMBD 1440	500	WOC 1370	100	WRC 950	500
Peoria, Ill.		Davenport, Iowa		Washington, D. C.	
WMBG 1210	100	WOCL 1210	50	WRDO 1370	100
Richmond, Va.		Jamestown, N. Y.		Augusta, Me.	
WMBH 1420	100	WOI 640	5000	WRDW 1500	100
Joplin, Mo.		Ames, Iowa		Augusta, Ga.	
WMBI 1080	5000	WOKO 1430	500	WREC 600	1000
Chicago, Ill.		Albany, N. Y.		Memphis, Tenn.	
WMBO 1310	100	WOL 1310	100	WREN 1220	1000
Auburn, N. Y.		Washington, D. C.		Lawrence, Kans.	
WMBQ 1500	100	WOMT 1210	100	WRGA 1500	100
Brooklyn, N. Y.		Manitowoc, Wis.		Rome, Ga.	
WMBR 1370	100	WOOD 1270	500	WRJN 1370	100
Jacksonville, Fla.		Grand Rapids, Mich.		Racine, Wis.	
WMC 780	1000	WOPI 1500	100	WROK 1410	500
Memphis, Tenn.		Bristol, Tenn.		Rockford, Ill.	
WMCA 570	500	WOR 710	50000	WROL 1310	100
New York, N. Y.		Newark, N. J.		Knoxville, Tenn.	
WMEX 1500	100	WORC 1280	500	WRR 1280	500
Boston, Mass.		Worcester, Mass.		Dallas, Texas	
WMFD 1370	100	WORK 1320	1000	WRUF 830	5000
Wilmington, N. C.		York, Pa.		Gainesville, Fla.	
WMFF 1310	100	WORL 920	500	WRVA 1110	5000
Plattsburg, N. Y.		Babson Park, Mass.		Richmond, Va.	
WMFG 1210	100	WOS 630	500	WSAI 1330	1000
Hibbing, Minn.		Jefferson City, Mo.		Cincinnati, Ohio	
WMFJ 1420	100	WOSU 570	750	WSAJ 1310	100
Daytona Beach, Fla.		Columbus, Ohio		Grove City, Pa.	
WMFN 1210	100	WOV 1130	1000	WSAN 1440	500
Clarksdale, Miss.		New York, N. Y.		Allentown, Pa.	
WMFO 1370	100	WOW 590	500	WSAR 1350	1000
Decatur, Ala.		Omaha, Neb.		Fall River, Mass.	
WMFR 1200	100	WOWO 1160	10000	WSAY 1210	100
High Point, N. C.		Fort Wayne, Ind.		Rochester, N. Y.	
WMMN 890	500	WPAD 1420	100	WSAZ 1190	1000
Fairmount, W. Va.		Paducah, Ky.		Huntington, W. Va.	
WMPC 1200	100	WPAR 1420	100	WSB 740	50000
Lapeer, Mich.		Parkersburg, W. Va.		Atlanta, Ga.	
WMT 600	1000	WPAX 1210	250	WSBC 1210	100
Cedar Rapids, Iowa		Thomasville, Ga.		Chicago, Ill.	
WNAC 1230	1000	WPAY 1370	100	WSBT 1360	500
Boston, Mass.		Portsmouth, Ohio		South Bend, Ind.	
WNAD 1010	1000	WPEN 920	250	WSFA 1410	500
Norman, Okla.		Philadelphia, Pa.		Montgomery, Ala.	
WNAX 570	1000	WPFB 1370	100	WSGN 1310	100
Yankton, S. D.		Hattiesburg, Miss.		Birmingham, Ala.	
WNBC 1380	250	WPG 1100	5000	WSIX 1210	100
New Britain, Conn.		Atlantic City, N. J.		Springfield, Tenn.	
WNBF 1500	100	WPHR 880	500	WSJS 1310	100
Binghamton, N. Y.		Petersburg, Va.		Winston-Salem, N. C.	
WNBH 1310	100	WPRO 630	250	WSM 650	50000
New Bedford, Mass.		Providence, R. I.		Nashville, Tenn.	
WNBR 1430	500	WPRP 1420	100	WSMB 1320	500
Memphis, Tenn.		Ponce, P. R.		New Orleans, La.	
WNBX 1260	1000	WPTF 68	5000	WSMK 1380	200
Springfield, Vt.		Raleigh, N. C.		Dayton, Ohio	
WNBZ 1290	100	WQAM 560	1000	WSOC 1210	100
Saranac Lake, N. Y.		Miami, Fla.		Charlotte, N. C.	
WNEL 1290	1000	WQAN 880	250	WSPA 920	1000
San Juan, P. R.		Scranton, Pa.		Spartanburg, S. C.	
WNEW 1250	1000	WQBC 1360	1000	WSTP 1340	1000
Newark, N. J.		Vicksburg, Miss.		Toledo, Ohio	
WNOX 560	1000	WQDM 1370	100	WSUI 880	500
Knoxville, Tenn.		St. Albans, Vt.		Iowa City, Iowa	

NORTH AMERICAN B. C. STATIONS BY CALLS

WSUN 620 1000	W9XBY 1530 1000	XEMA 1080 56
St. Petersburg, Fla.	Kansas City, Mo.	Tampico, Tams.
WSVA 550 500	XEA 1060 500	XEMO 860 5000
Harrisonburg, Va.	Guadalajara, Jal.	Tijuana, L. C.
WSVS 1370 50	XEAA 920 200	XEMX 1280 12
Buffalo, N. Y.	Mexicali, B. C.	Mexico City, D. F.
WSYB 1500 100	XEAF 990 500	XEMZ 820
Rutland, Vt.	Nogales, Son.	Coronado Isl., L. C.
WSYR 570 250	XEAI 1240 100	XEMZ 1210 250
Syracuse, N. Y.	Mexico City, D. F.	Tijuana, L. C.
WTAD 900 500	XEAJ 1310 15	XEN 710 1000
Quincy, Ill.	Oaxaca, Oax.	Mexico City, D. F.
WTAG 580 500	XEAM 750 7.5	XENT 910 65000
Worcester, Mass.	Matamoros, Tams.	Nuevo Laredo, Tams.
WTAL 1310 100	XEAO 560 250	XEOK 760 250
Tallahassee, Fla.	Mexicali, B. C.	Tijuana, L. C.
WTAM 1070 50000	XEAS 1160 100	XEOX 640 500
Cleveland, Ohio	Saltillo, Coah.	Saltillo, Coah.
WTAQ 1330 1000	XEAW 960 50000	XEP 840 500
Eau Claire, Wis.	Reynosa, Tams.	Mexico City, D. F.
WTAR 780 500	XEAZ 1420 7	XEPN 590 50000
Norfolk, Va.	Guanajuato, Gto.	Piedras Negras, Coah.
WTAW 1120 500	XEB 1030 10000	XERA 840 250000
College Station, Tex.	Mexico City, D. F.	Villa Acuna, Coah.
WTAX 1210 100	XEBH 1000 500	XES 990 250
Springfield, Ill.	Hermosillo, Sonora	Tampico, Tams.
WTBO 800 250	XEC 1160 30	XESL 1160
Cumberland, Md.	Tijuana, L. C.	Tijuana, L. C.
WTGN 1250 1000	XECW 1310 10	XET 690 500
Minneapolis, Minn.	Mexico City, D. F.	Monterrey, N. L.
WTEL 1310 100	XED 1155 2500	XETB 1310 125
Philadelphia, Pa.	Guadalajara, Jal.	Torreón, Coah.
WTFI 1450 500	XEE 1210 50	XETF 1220 12
Athens, Ga.	Durango, Dgo.	Veracruz, Ver.
WTIC 1040 50000	XEFA 1180 500	XETH 1210 100
Hartford, Conn.	Mexico City, D. F.	Puebla, Pue.
WTJS 1310 100	XEFB 1420 100	XETW 820 500
Jackson, Tenn.	Monterrey, N. L.	Mexico City, D. F.
WTMJ 620 1000	XEFC 560 100	XEU 1010 250
Milwaukee, Wis.	Merida, Yuc.	Veracruz, Ver.
WTMV 1500 100	XEFE 850 250	XEW 890 50000
East St. Louis, Ill.	Laredo, Tams.	Mexico City, D. F.
WTNJ 1280 500	XEFI 1440 250	XEWZ 1150 100
Trenton, N. J.	Chihuahua, Chih.	Mexico City, D. F.
WTOC 1260 1000	XEFJ 1230 100	XEX 1310 125
Savannah, Ga.	Monterrey, N. L.	Monterrey, N. L.
WTRC 1310 100	XEFL 1150 500	XEY 1000 10
Elkhart, Ind.	Tijuana, L. C.	Merida, Yuc.
WVFW 1400 500	XEFO 940 5000	XEYZ 780 10000
Brooklyn, N. Y.	Mexico City, D. F.	Mexico City, D. F.
WVAE 1200 100	XEFV 1210 100	XEZ 630 500
Hammond, Ind.	Juarez, Chih.	Merida, Yuc.
WWJ 920 1000	XEFW 1310 250	XEZZ 1370 100
Detroit, Mich.	Tampico, Tams.	San Luis Potosi, S.L.P.
WWL 850 10000	XEFZ 1370 100	XFA 1310 5
New Orleans, La.	Mexico City, D. F.	Aguascalientes, Ags.
WWNC 570 1000	XEG 1270 200	XFB 1270 250
Asheville, N. C.	Ensenada, B. C.	Jalapa, Ver.
WWRL 1500 100	XEH 1150 250	XFC 810 350
Woodside, N. Y.	Monterrey, N. L.	Aguascalientes, Ags.
WWSW 1500 100	XEI 1370 125	XFD 1340 350
Pittsburgh, Pa.	Morelia, Mich.	Jalapa, Ver.
WWVA 1160 5000	XEJ 1020 1000	XFO 940 5000
Wheeling, W. Va.	Juarez, Chih.	Mexico City, D. F.
WXYZ 1240 1000	XEK 990 100	XFX 610 1000
Detroit, Mich.	Mexico City, D. F.	Mexico City, D. F.
WIXBS 1530 1000	XEKL 1240 500	YNLF 1275 20
Waterbury, Conn.	Leon, Guan.	Managua, Nicaragua
W2XR 1550 1000	XEL 1100 250	YNOP 1230 100
Long Island City, N. Y.	Mexico City, D. F.	Managua, Nicaragua
WXAI 1550 1000	XELO 1110 10000	YNVA 950 30
Bakersfield, Calif.	Piedras Negras, Coah.	Managua, Nicaragua

AROUND *the* CLOCK on the SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJA DJN DJQ VPD VK2ME W3XAL W8XAL W8XK	DJA DJN DJQ VPD VK2ME W8XAL W9XF	W9XF	GSB GSD PCJ VK3LR RV15	DJB DJN GSD GSD JVM JVT PCJ RV15 VK2ME VK3LR	DJB DJN GSD HVJ JVM JVT LKJ1 PCJ RV15 VK2ME VK3LR VK3ME W8XAL YDA YDB	DJB DJN GSD GSD JVM JVT LKJ1 PCJ RV15 VK2ME VK3LR VK3ME W8XAL YDA YDB	GSF GSG JVM JVT LKJ1 PCJ RNE PHI RV15 VK2ME VK3LR VK3ME W8XAL YDA YDB	DJA DJB DJE DJN GSD GSD PCJ PHI RNE PHI VK2ME W8XAL W8NK YDA YDB	DJA DJB DJE DJN GSD GSD PCJ PHI RNE PHI VK2ME W8XAL W8NK YDA YDB	DJA DJB DJE DJN GSD GSD PCJ PHI RNE PHI VK2ME W8XAL W8NK YDA YDB	DJA DJB DJE DJN GSD GSD PCJ PHI RNE PHI VK2ME W8XAL W8NK YDA YDB

NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00	
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	
	DJC DJD EAQ GSB GSD GSI GSL Pont. W1XK W2XE W2XAD W3XAU W8XAL W8XK W9XAA	DJC DJD EAQ GSB GSD GSI GSL ORK Pont. W1XK W2XAD W3XAU W8XK W9XAA	DJC DJD GSB GSD GSI GSL ORK Pont. W1XK W2XAD W3XAU W8XK W9XAA	CJRO CJRX CJRO CJRX DJD GSD GSI GSL ORK Pont. W1XK W2XAD W3XAU W8XK W9XAA	CHNX CJRO CJRX CT1AA DJA DJC GSA GSD GSI GSL I2RO Pont. RV59 W1XK W2XE W3XAU W8XK W9XAA XEBT YV3RC	CHNX CJRO CJRX CT1AA DJA DJC GSA GSD GSI GSL HBL HJ1ABB Pont. PHF5 RV59 W1XK W2XE W3XAU W8XK W9XAA XEBT YV3RC YV4RC YV5RMO	CHNX CJRO CJRX COCO CRCX CT1AA DJA DJC GSA GSD GSI GSL HJ1ABB GSC HAT4 HJ1ABB HJ1ABG HP5B HJ1ARB I2RO Pont. W1XK W2XE W3XAU W8XK W9XAA XEBT YV3RC YV4RC YV5RMO	CHNX CJRO CJRX COCO CRCX DJA DJC GSA GSD GSI GSL HJ1ABB HP5B TIEP W1XK W2XE W3XAU W8XK W9XAA XEBT YV3RC YV4RC YV5RMO	CHNX CJRO CJRX COCO CRCX DJA DJC GSA GSD HIX HJ1ABB HP5B W1XK W2XAF W3XAU W8XK W9XAA XEBT YV3RC YV4RC YV5RMO	CHNX CJRO CJRX COCO COCH CRCX DJA DJC GSA HJ1ABB HP5B HIX HJ1ABB HP5B OAX4D PRADO TGWA W1XK W2XAF W3XAU W8XK W9XAA XEBT YV3RC YV4RC YV5RMO	CHNX CJRO CJRX COCO COCH CRCX DJA DJC GSA HC2RL HJ1ABB HP5B HIX HJ1ABB HP5B OAX4D PRADO TGWA W1XK W2XAF W3XAU W8XK W9XAA XEBT YV3RC YV4RC YV5RMO	CHNX CJRO CJRX COCO COCH CRCX DJA DJC GSA HC2RL HJ1ABB HP5B HIX HJ1ABB HP5B OAX4D PRADO TGWA W1XK W2XAF W3XAU W8XK W9XAA XEBT YV3RC YV4RC YV5RMO	CJRO CJRX COCO CRCX HJ4ABL TGWA W1XK W3XAU W8XK W9XAA W9XF

BEST SHORTWAVE BROADCASTING STATIONS BY CALL LETTERS

Frequencies are given in megacycles and the time is Eastern Standard,
daily unless otherwise mentioned.

CEC, Santiago, Chile, 10.670. Daily. 2000-2100; Thu., Sun. 2030-2100.	HC2RL, Guayaquil, Ecuador, 6.659. Tues., 2115-2315; Sun., 1745- 1945.	JVT, Nazaki, Japan, 6.750. Daily. 0400-0745.
CHNX, Halifax, N. S., 6.110. 0900- 1230; 1600-2300.	HHH, San Pedro de Macoris, D. R. 6.800. Sun., 0300-0400; 1230- 1500; 1600-1700; Mon., Wed., Thurs., Sat., 1210-1400; 1910- 2100; Tues., Fri., 1210-1400; 1910-2010.	LCLJ, Jeloj, Norway, 6.130. 0500- 0800.
CJRO, Winnipeg, Man. 6.150. Sun. 1500-2200; other days, 2000-2400	HIX, Santo Domingo, D. R. Tues., Fri., 2000-2200.	LKJ1, Jeloj, Norway, 9.540. 0500- 0800.
CJRX, Winnipeg, Man., 11.720. Sun., 1500-2200; other days, 2000-2400.	HIZ, Santo Domingo, D. R., 6.315. Sat. 2300-0100; daily exc. Sun., 1700-1800.	OAXAD, Lima, Peru, 5.780. Wed., Sat., 2100-2330.
COCOD, Havana, Cuba, 6.130. Sun., 1700-2300; weekdays, 1100-2400.	HJ1AB, Barranquilla, Colombia, 6.447. 1700-2200.	OAXAC, Lima, Peru, 6.230. 1900- 2200.
COCB, Havana, Cuba, 9.428. Daily 1000-1200; 1600-1800; 2100-2200.	HJ1ABD, Cartagena, Colombia, 7.280. 1945-2115.	OltK, Brussels, Belgium, 10.330. Daily, 1430-1600.
COCO, Havana, Cuba, 6.010. Daily 1600-1900.	HJ1ABE, Cartagena, Colombia, 6.115. Sun. at 0400; Mon., 2200-2400; Wed., 2000-2200.	PCJ, Hilversum, Netherlands, 15.220. Sun., 0730-1000; Tues., 0300-0600; Wed., 0700-1100.
CO9GC, Santiago, Cuba, 6.150. Sun., 0000-0200.	HJ1ABG, Barranquilla, Colombia, 6.012. 1900-2200.	PHI, Hilversum, Netherlands, 11.730. 0830-1100, daily exc. Tues. and Wed.
CO9JQ, Camaguey, Cuba, 8.665. 2000-2100.	HJ1ABH, Cienaga, Colombia, 6.300. Tues., Fri., 1945-2200.	PRADO, Riobamba, Ecuador, 6.620. Thurs, 2100-2330.
CO9WR, Sancti-Spiritus, Cuba, 11.800.	HJ1ABJ, Santa Marta, Colombia, 6.006. Weekdays, 1100-1300; 1900-2100.	PRJ5, Rio de Janeiro, Brazil, 9.505. 1700-1745.
CRXC, Toronto, Ont., 6.090. Daily 1830-2330.	HJ2AB, Cuetu, Colombia, 5.975. Weekdays, 1800-2100.	RNE, Moscow, USSR, 12.000. Sun., 0700-1100.
CTIAA, Lisbon, Portugal, 9.600. Tues., Thurs., Sat., 1630-1900.	HJ2ABD, Bucaramanga, Colombia, 5.980. Daily, 1130-1230; 1730- 1830. 1930-2230.	RV15, Khabarovsk, USSR., 4.273. Daily, 0300-0900.
DJA, Berlin, Germany, 9.550, 0030- 0215; 0800-1130; 1705-2115.	HJ3AB, Bogota, Colombia, 7.390.	RV59, Moscow, USSR., 5.996. Daily 1500-1800.
DJB, Berlin, Germany, 15.200. 0345-0715; 0800-1130.	HJ3ABF, Bogota, Colombia, 6.200. 1900-2300.	SPW, Warsaw, Poland, 13.630. Testing.
DJC, Berlin, Germany, 6.020. 1200- 1630; 1700-2245.	HJ3ABH, Bogota, Colombia, 6.012. Sun., 1600-2100; other days, 1800-2300.	TGWA, Guatemala City, 6.000. Weekdays, 1930-2030-2200-2400.
DJD, Berlin, Germany, 11.770. 1200-1630.	HJ4ABA, Medellin, Colombia, 11.720. 1130-1300; 1830-2230.	TGXN, Guatemala City, 9.450. Weekdays, 1930-2030; 2200-2400.
DJE, Berlin, Germany, 17.760. 0800-1130.	HJ4ABC, Ibague, Colombia, 6.450. 2000-2200.	TC2X, Guatemala City, 5.940. Daily 2100-2200.
DJN, Berlin, Germany, 9.540. 0030- 0215; 0345-0715; 0800-1130; 1705- 2245.	HJ4ABD, Medellin, Colombia, 5.770. 1800-2300.	TIEP, San Jose, Costa Rica, 6.710. 1900-2200.
DJQ, Berlin, Germany, 15.280. 0030-0215.	HJ4ABE, Medellin, Colombia, 5.900. 1900-2300.	TIGPH, San Jose, Costa Rica, 5.820. 1900-2200.
EAQ, Madrid, Spain, 9.862. 1730- 1900; Sat., 1200-1400.	HJ4ABL, Manizales, Colombia, 6.100. Sat., 2300-2430.	TIPG, San Jose, Costa Rica, 6.385. Weekdays, 1730-2230.
GSA, Daventry, England, 6.050. 1600-1745; 1800-2000.	HJ5ABC, Cali, Colombia, 6.150. Mon., Tues., Wed., Fri., 1900- 2200.	TIRCC, San Jose, Costa Rica, 6.550. Daily, 1800-1900. Sun., Thurs., 2000-2100; Sun., 1100- 1300.
GSB, Daventry, England, 9.510. 0330-0530; 0900-1200; 1215-1545; 1645-1745; 1800-2000.	HJ5ABD, Cali, Colombia, 6.490. Thurs., Sat., Sun., 1900-2100.	TJ5H1I, San Ramon, Costa Rica, 5.520. 1530-1700; 2000-2130.
GSC, Daventry, England, 9.580. 1645-1745; 1800-2000; 2200-2300.	HJ5ABE, Cali, Colombia, 14.000. 1900-2200.	TJ8WS, Puntarenas, Costa Rica, 7.550. 1800-1900; 2000-2100.
GSD, Daventry, England, 11.750. 1215-1545; 2200-2300.	HKLE, Bogota, Colombia, 7.090.	VK2ME, Sydney, Australia, 9.585. Sun., 0000-0200; 0430-0830; 0900-1100.
GSE, Daventry, England, 11.860. 0900-1200.	HP5B, Panama City, Panama, 6.030. 1900-2200.	VK3LR, Melbourne, Australia, 9.580. Mon., Tues., Wed., Thurs., 0315-0730; Fri., 2230- 0200; Sat., 0500-0730.
GSF, Daventry, England, 15.140. 0330-0530; 0700-0845; 0900-1200.	HP5J, Panama City, Panama, 9.590. 1930-2200.	VK3ME, Melbourne, Australia, 9.503. Weekdays, 0500-0700.
GSG, Daventry, England, 17.790. 0700-0845; 0900-1200.	HRN, Tegucigalpa, Honduras, 5.875. Weekdays, 1830-2000; 2030-2300. Sun., 2200-2300.	VPD, Suva, Fiji, 13.075. 0030-0130.
GSI, Daventry, England, 15.260. 1215-1545.	HVJ, Vatican City, 5.970. Sun., 0500-0530. 15.120. Tests late afternoons.	VUB, Bombay, India, 9.565. Sun., near 7 a.m.
GSL, Daventry, England, 6.110. 1215-1545; 1800-2000; 2200-2300.	I2RO, Rome, Italy, 9.630. Mon., Wed., Fri., 1800-2100.	W1XAL, Boston, Mass., 11.790. Daily exc. Sat., Sun., 1630-1930.
HAS3, Budapest, Hungary, 15.370. Sun. 0900-1000.	I2RO, Rome, Italy, 11.810. Daily, 1430-1700.	W1XK, Mills, Mass., 9.570. 0700- 0100.
HAT4, Budapest, Hungary, 9.125. Sun., 1800-1900.	JVM, Nazaki, Japan, 10.740. Daily, 0400-0745.	W2XAD, Schenectady, N. Y. 15.330. Sat., 1300-1615; Sun., 1030- 1600; other days, 1400-1500.
HLB, Geneva, Switz., 9.595. Sat., 1730-1815.		W2XAF, Schenectady, N. Y., 9.530. Daily 1630-2400.
HBP, Geneva, Switz., 7.797. Sat., 1730-1815.		
HCJB, Quito, Ecuador, 8.214. Daily exc. Mon., 1915-2315.		
HC2ET, Guayaquil, Ecuador, 4.600. Wed., Sat., 2130-2300.		

W2XE, Wayne, N. J., 6.120. 2100-2400.
 11.830. 1800-2000.
 15.270. 1100-1800.
 W3XAL, Bound Brook, N. J., 6.100.
 Mon., Wed., Sat., 1800-0100.
 17.780. Daily, 0900-1700.
 W3XAU, Philadelphia, Pa., 6.060.
 2000-2300. 9.590. 1200-2000.
 W3XL, Bound Brook, N. J., 17.310:
 1100-1700.
 W4XB, Miami, Fla., 6.040. Sun.,
 1130-1500; 1700-2400. Other
 days, 1200-1400; 1730-2400.
 W8XAL, Cincinnati, Ohio, 6.060.
 Sun., 0700-1900; 2200-0130.
 Other days, 0630-1900; 2200-
 0200.
 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.
 XBJQ, Mexico City, Mex., 11.00.
 Afternoons, irreg.
 XEBI, Mexico City, Mex., 5.980.
 Thurs., 2200-2300.
 XEBT, Mexico City, D. F., 6.000.
 1200-2400.
 XECR, Mexico City, D. F., 7.380:
 Sun., 1800-1900.
 XEDQ, Guadalajara, Mex., 9.520.
 0800-0900; 1200-2400.
 XEFT, Veracruz, Mex., 6.120.
 Daily, 1930-2400; Sat., 1830-
 2400; Sun., 2100-2400.
 XEOK, Tijuana, Mex., 6.130.
 XEUW, Veracruz, Mex., 6.020.
 YDA, Tandjongpriok, N. E. I.,
 11.000. 0530-1100.
 YDA5, Bandoeng, N. E. I., 6.120:
 0530-1100; 1745-1845; 2230-0130.
 YDB, Soerabaja, N. E. I., 4.470.
 0530-1100.
 YVQ, Maracay, Venez., 6.672.
 Sat., 2000-2100.

YV2RC, Caracas, Venezuela, 6.112.
 1700-2145.
 YV3RC, Caracas, Venezuela, 6.150.
 1700-2200.
 YV4RC, Caracas, Venezuela, 6.375.
 1630-2230.
 YV5RMO, Maracaibo, Venezuela,
 5.850. Daily exc. Sun., 1700-
 2130.
 YV6RV, Valencia, Venezuela, 6.520:
 1700-2200.
 YV7RMO, Maracaibo, Venez.,
 5.810.
 YV8RB, Barquisimeto, Venez.,
 5.875.
 YV9RC, Caracas, Venez., 6.400.
 YV10RSC, San Cristobal, Venez.,
 5.720.
 ZBW, Hong Kong, 8.750.
 ZTJ, Johannesburg, Union of So.
 Af., 6.100. Heard near midnight.
 Pontoise, France, 11.720.
 1900-2200; 2300-0100. 11.880:
 1115-1415; 1500-1800. 15.250:
 0700-1100.

If you desire to tune in foreign stations you must be able to convert their time into your own quickly. Here is a device that does it for you without pencil and paper or mental effort.

RADEX RADIO MAP of the WORLD

Showing all Countries and their Principal Cities
with Call Letters and Time Zones of each Country

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25c

DIRECTIONS—Turn the dial to the desired hour, either A. M. or P. M., in the sector marked "TODAY" opposite your own zone and the current time in all other zones in the world will be shown. It will also be indicated which of the other zones are "Yesterday" and which are "Tomorrow". The position of daylight, darkness and dawn is graphically shown. **NOTE** If you desire to tune in at New Zealand stations, turn the hour of the program (say 9:00 a.m.) to the New Zealand sector and you will find that it is 4:30 A.M. same day in Eastern Standard Zone or 11 P.M. yesterday in Hawaii.

Just turn the dial to the time in your zone and—**Presto: Change**—there is the time for every other place in the world.

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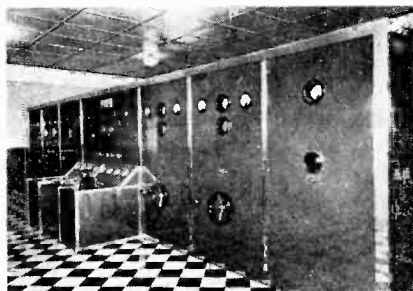
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 June, 1935
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 January, 1936



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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. 6B0, Washington, D. C.

J. E. SMITH, President,
National Radio Institute
Dept. 6B0, 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

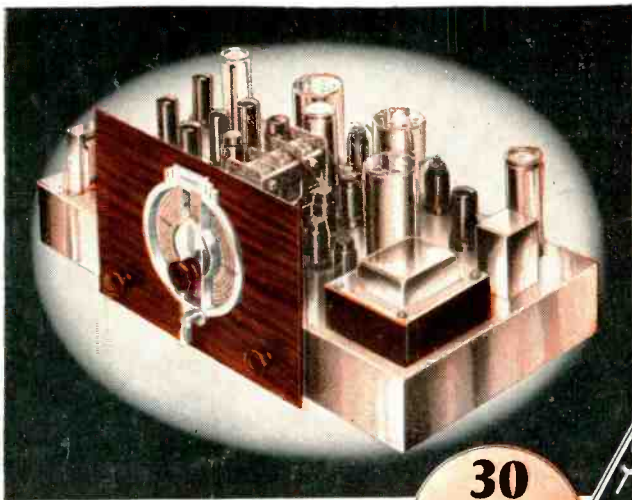
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ONCE again, Midwest demonstrates its leadership by offering the world's most powerful Super DeLuxe 14-METAL Tube 5-band radio. It is a master achievement... today's most highly perfected, precisely built, laboratory adjusted set. It is a radio-musical instrument that will thrill you with its marvelous super performance... glorious new acousti-tone... crystal-clear "concert" realism... and magnificent foreign reception. Before you buy any radio, write for FREE 40-page 1936 catalog. Learn about the successful Midwest Laboratory-To-you policy that saves you 30% to 50%... that gives you 30 days FREE trial. This super radio will out-perform \$100 and \$200 sets on a side by side test. It is so powerful, so amazingly selective, so delicately sensitive that it brings in distant foreign stations with full loud speaker volume, on channels adjacent to powerful locals. The 14 tubes permit of advanced circuits, make it possible to use the tremendous reserve power, and to exert the sustained maximum output of the powerful 10 tubes.

**30
DAYS
FREE
TRIAL**



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PAYMENT
TERMS**

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Scores of marvelous Midwest features, many of them exclusive, explain Midwest glorious tone realism, super performance and thrilling world-wide 5-band reception. They prove why nationally known orchestra leaders like Fred Waring, George Olsen, Jack Denny, etc., use a Midwest in preference to more costly makes. Five tuning ranges make it easy to parade the nations of the world before you. You can switch instantly from American programs... to Canadian, police, amateur, commercial, airtane and ship broadcasts... to the finest and most fascinating programs from Europe, Africa, Asia, Australia South America... 12,000 miles away.

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The V-Front Dispersing Vanes established a new radio style overnight. They spread the beautiful lace-work of the "highs" throughout the room in a scientific manner... directing the high fidelity waves uniformly to the ear. Now, get complete range of audible frequencies... achieving glorious new acousti-tone, assuring life-like crystal-clear "concert" realism. No middlemen's profits to pay. You buy at wholesale prices, direct from Laboratories... saving 30% to 50%. You can order your 1936 Midwest radio from the new 40-page catalog with as much certainty of satisfaction as if you were to come yourself to our great laboratories. You save 30% to 50%... you get 30 days FREE trial... as little as \$5.00 down puts a Midwest radio in your home. Your are triply protected with a One-Year Guarantee, Foreign Reception Guarantee, Money-back Guarantee.



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"After comparing many radios, I can truthfully say that my Midwest out-performs other sets costing almost twice as much. In all my experience, I have never heard such life-like reproduction. My Midwest surpasses all my expectations, and in my opinion, is the finest radio receiver obtainable."
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Send for FREE 40-page four-color catalog. It pictures the complete line of beautiful 1936 Midwest Acousti-Tone V-Spread consoles and chassis... in their natural color.



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Without obligation on my part, send me your new FREE catalog and complete details of your liberal 30-day FREE trial offer. This is NOT an order.

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